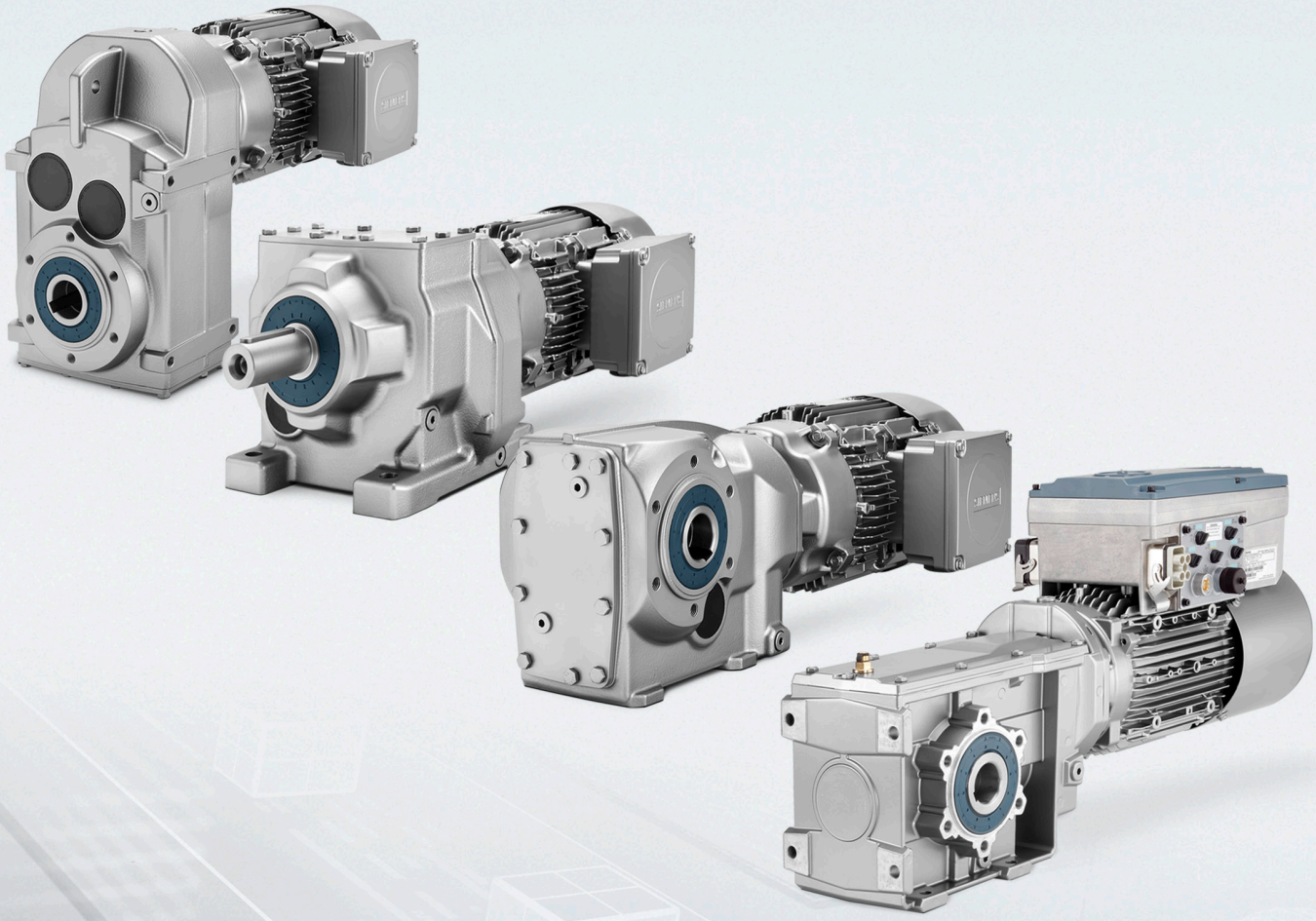
SIEMENS



Motion Control

SIMOGEAR
Geared Motors

Helical, parallel shaft, bevel, helical worm geared motors

product design award 2013

Catalog D50.2

Edition 2020

siemens.com/gearedmotors

Related catalogs

SIMOGEAR D 50.21
Gearboxes with adapter

E86060-L5250-A221-A1-7600



SIMOTICS GP, SD, XP, DP D 81.1
Low-Voltage Motors
Type series 1FP1, 1LE1, 1LE5, 1MB1 and 1PC1
Frame sizes 63 to 355
Power range 0.09 to 500 kW
E86060-K5581-A111-B2-7600



FLENDER Couplings MD 10.1
Standard Couplings

E86060-K5710-A111-A5-7600



FLENDER SIP MD 31.1
Standard Industrial Planetary Gear Units

E86060-K5731-A111-A5-7600



Motion Control Drives D 31.1
SINAMICS Inverters for Single-Axis Drives
Built-In Units

E86060-K5531-A111-A1-7600



Motion Control Drives D 31.2
SINAMICS Inverters for Single-Axis Drives
Distributed Inverters

E86060-K5531-A121-A1-7600



SIMOTICS S-1FG1 D 41
Servo geared motors
Helical, Parallel shaft, Bevel and
Helical worm geared motors

E86060-K5541-A101-A3-7600



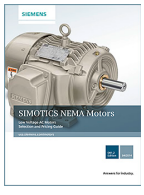
Industrial Communication IK PI
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E86060-K6710-A101-B8-7600



SIMOTICS NEMA Motors D 81.2
Low Voltage AC Motors
Selection and Pricing Guide

Further details available on the Internet at:
www.usa.siemens.com/motors



Additional documentation

You will find all information material, such as brochures, catalogs, manuals and operating instructions for standard drive systems up-to-date on the Internet at the address:

www.siemens.com/gearedmotors

You can order the listed documentation or download it in common file formats (PDF, ZIP).



SIEMENS

SIMOGEAR Geared Motors

Helical, parallel shaft, bevel, helical worm geared motors

Catalog D50.2 · 2020

Dear Customer,

We are happy to present you with the new PDF of Catalog D50.2 Edition 2020.

The catalog has new content:

- The single-stage and two-stage cooling tower geared motors of series EKF and ZKF with torques of up to 19 000 Nm have now been added.
- Helical geared motors with the VLplus or XLplus reinforced bearing system as well as parallel shaft geared motors and bevel geared motors with the VLplus reinforced bearing system have also been included.
- The LEN and LHN motors have been added.

We hope that you often use our new Catalog D50.2 and find it helpful.
Your personal contact will be glad to receive your suggestions and recommendations for improvement.
You can find your representative in our contact person database at
www.siemens.com/automation-contact

As a supplement to this catalog, the Drive Technology Configurator (DT Configurator) will help you when selecting the optimum geared motor. You can call up the 2D and 3D data in all of the usual file formats and directly process it further.

The DT Configurator can be used on the Internet without requiring any installation.
The DT Configurator can be found in the Siemens Industry Mall at the following address:
www.siemens.com/dt-configurator

Please contact your local Siemens office for additional information.
Up-to-date information about SIMOGEAR geared motors is available on the Internet at:
www.siemens.com/gearedmotors

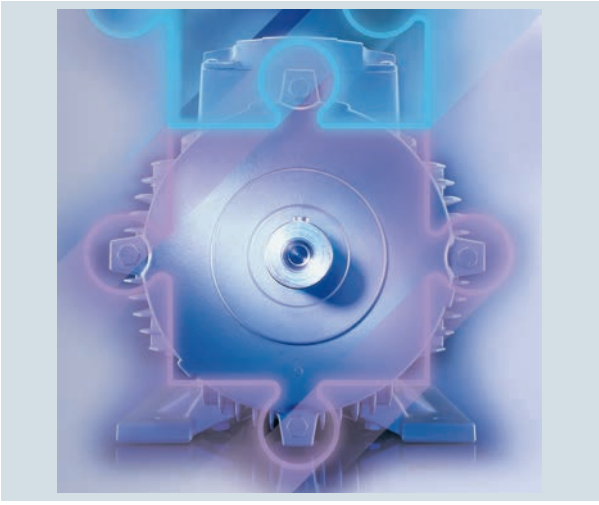
Best regards,

Dr. Axel Maximilian Dietrich
Head of Product Management for Geared Motors
Siemens AG, Digital Factory Division, Motion Control, General Motion Control

SIMOGEAR Geared Motors

Helical, parallel shaft, bevel, helical worm and worm geared motors

Motion Control



Catalog D50.2 · 2020

Refer to the Industry Mall for current updates of this catalog:
www.siemens.com/industrymall

The products contained in this catalog can also be found in the Interactive Catalog CA 01.
Article No.: E86060-D4001-A510-D8-7600

Please contact your local Siemens branch.

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Appendix 11

The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with EN ISO 9001 (Certified Registration No. DE-409908 QM08). The certificate is recognized by all IQNet countries.

Digital Enterprise

The building blocks that ensure everything works together perfectly in the digital enterprise

Digitalization is already changing all areas of life and existing business models. It is placing greater pressure on industry while at the same time creating new business opportunities. Today, thanks to scalable solutions from Siemens, companies can already become a digital enterprise and ensure their competitiveness.



Industry faces tremendous challenges

Reduce time-to-market

Today manufacturers have to bring products to market at an ever-increasing pace despite the growing complexity of these products. In the past, a major manufacturer would push aside a small one, but now it is a fast manufacturer that overtakes a slow one.

Boost flexibility

Consumers want customized products, but at a price they would pay for a mass-produced item. That only works if production is more flexible than ever before.

Improve quality

To ensure a high level of quality while meeting legal requirements, companies have to establish closed quality loops and enable the traceability of products.

Boost efficiency

Today the product itself needs to be sustainable and environmentally friendly, while energy efficiency in production has become a competitive advantage.

Increase security

Increasing networking escalates the threat to production facilities of cyberattacks. Today more than ever, companies need suitable security measures.



The digital enterprise has already become a reality

To fully benefit from all the advantages of digitalization, companies first have to achieve complete consistency of their data. Fully digitally integrated business processes, including those of suppliers, can help to create a digital representation of the entire value chain. This requires

- the integration of industrial software and automation,
- expansion of the communication networks,
- security in automation,
- and the use of business-specific industrial services.

MindSphere

The cloud-based open IoT operating system from Siemens

With MindSphere, Siemens offers a cost-effective and scalable cloud platform as a service (PaaS) for the development of applications. The platform, designed as an open operating system for the Internet of Things, makes it possible to improve the efficiency of plants by collecting and analyzing large volumes of production data.

Totally Integrated Automation (TIA)

Where digitalization becomes reality

Totally Integrated Automation (TIA) ensures the seamless transition from the virtual to the real world. It already encompasses all the necessary conditions for transforming the benefits of digitalization into true added value. The data that will form the digital twin for actual production is generated from a common base.

Digital Plant
Learn more about the digital enterprise for the process industry
www.siemens.com/digitalplant

Digital Enterprise Suite
Learn more about the digital enterprise for the discrete industry
www.siemens.com/digital-enterprise-suite

IA/DT Digital Enterprise En 05.03.18

Integrated Drive Systems

Faster on the market and in the black with Integrated Drive Systems

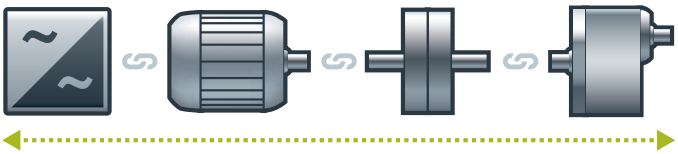
SIMOGEAR is an important element of a Siemens Integrated Drive System, contributing significantly to increased efficiency, productivity, and availability in industrial production processes.

Integrated Drive Systems are Siemens' trendsetting answer to the high degree of complexity that characterizes drive and automation technology today. The world's only true one-stop solution for entire drive systems is characterized in particular by its threefold integration: Horizontal, vertical, and lifecycle integration ensure that every drive system component fits seamlessly into the whole system, into any automation environment, and even into the entire lifecycle of a plant.

The outcome is an optimal workflow – from engineering all the way to service that entails more productivity, increased efficiency, and better availability. That's how Integrated Drive Systems reduce time to market and time to profit.

Horizontal integration

Integrated drive portfolio: The core elements of a fully integrated drive portfolio are frequency converters, motors, couplings, and gear units. At Siemens, they're all available from a single source. Perfectly integrated, perfectly interacting. For all power and performance classes. As standard solutions or fully customized. No other player in the market can offer a comparable portfolio. Moreover, all Siemens drive components are perfectly matched, so they are optimally interacting.



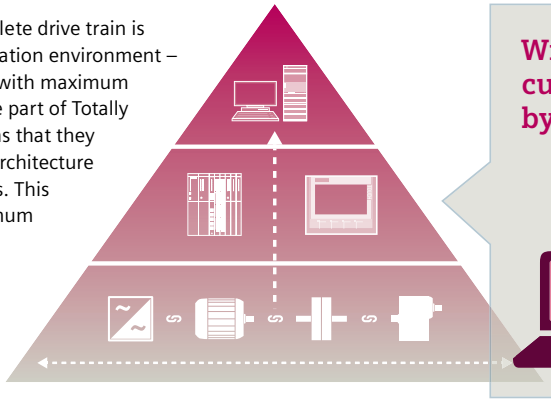
You can boost the availability of your application or plant to up to

99 %*

*e.g., conveyor application

Vertical integration

Thanks to **vertical integration**, the complete drive train is seamlessly integrated in the entire automation environment – an important prerequisite for production with maximum value added. Integrated Drive Systems are part of Totally Integrated Automation (TIA), which means that they are perfectly embedded into the system architecture of the entire industrial production process. This enables optimal processes through maximum communication and control.



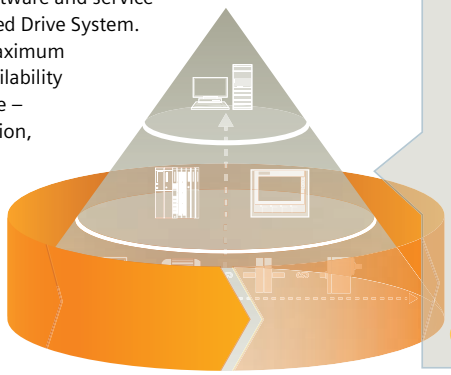
With TIA Portal you can cut your engineering time by up to

30 %

Lifecycle integration

Lifecycle integration adds the factor of time: Software and service are available for the entire lifecycle of an Integrated Drive System. That way, important optimization potential for maximum productivity, increased efficiency, and highest availability can be leveraged throughout the system's lifecycle – from planning, design, and engineering to operation, maintenance, and all the way even to modernization.

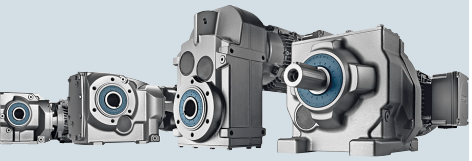
With Integrated Drive Systems, assets become important success factors. They ensure shorter time to market, maximum productivity and efficiency in operation, and shorter time to profit.



With Integrated Drive Systems you can reduce your maintenance costs by up to

15 %

www.siemens.com/ids



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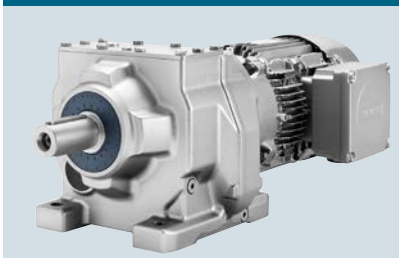
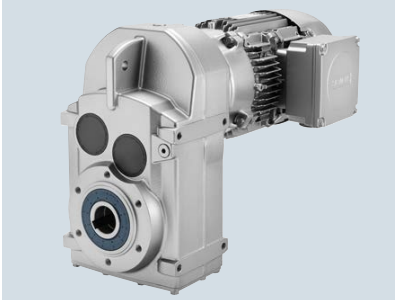
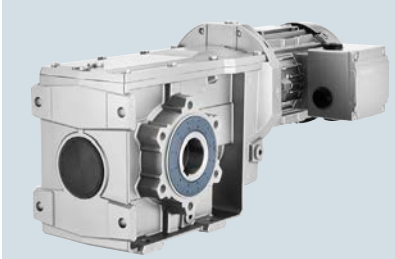
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Geared motors

SIMOGEAR is the new generation of geared motors from Siemens. SIMOGEAR gearboxes are available as helical, parallel shaft, bevel, helical worm geared motors.

State-of-the-art production technology and improved testing methods ensure the highest degree of quality and reliability.

Gearbox type	Gearbox designation	Number of sizes	Maximum output torque T_{2N} Nm	Transmission ratio i -	Maximum motor power[1] P_1 kW
Helical geared motors					
	Z19 … Z189 (2-stage)	13	100 … 19 000	3.4 … 62.48	55
	D19 … D189 (3-stage)	13	100 … 19 000	36 … 328	55
	Cooling tower geared motors				
	ZK89 ... ZK189	6	1 060 ... 19 000	3.85 … 62.48	55
Fig. 1/1 Helical geared motor D/Z					
	E39 … E149 (1-stage)	7	30 ... 1 490	1.29... 9.79	55
	Cooling tower geared motors				
	EK89 ... EK149	4	280 ... 1 490	1.3 .... 9.79	55
Fig. 1/2 Helical geared motor E					
Parallel shaft geared motors					
	FZ29 … FZ189 (2-stage)	11	150 … 19 000	4 … 48	55
	FD29 … FD189 (3-stage)	11	150 … 19 000	58 … 377	55
Fig. 1/3 Parallel shaft geared motor FD/FZ					
Bevel geared motors					
	B19 … B49 (2-stage)	4	50 … 450	3.6 … 59	7.5
Fig. 1/4 Bevel geared motor B					

[1] With 4-pole motor for a 50 Hz line frequency in integral type of construction

Geared motors

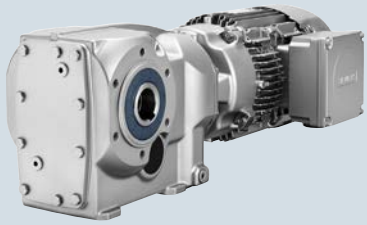
Gearbox type	Gearbox designation	Number of sizes	Maximum output torque T_{2N} Nm	Transmission ratio i -	Maximum motor power[1)] P_1 kW
Bevel geared motors					
	K39 … K189 (3-stage)	10	150 … 19 500	5.7 … 237	55

Fig. 1/5 Bevel geared motor K

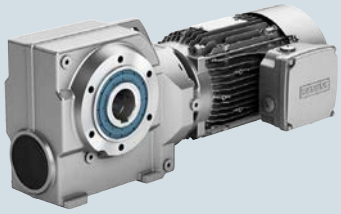
Helical worm geared motors					
	C29 … C89 (2-stage)	5	61 … 1 450	6.5 ... 363	7.5

Fig. 1/6 Helical worm geared motor C

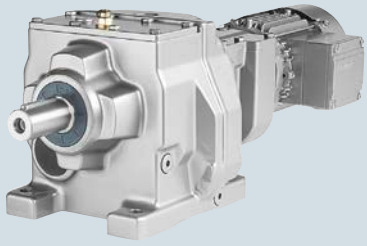
Tandem geared motors					
	D-29-Z19 ... D.189-D69 (4-stage to 6-stage)	12	140 ... 19 000	325 ... 27 816	7.5
	FZ.29-Z19 ... FD.189-D69 (4-stage to 6-stage)	11	150 … 19 000	274 … 29 900	7.5
	K.39-D/Z19 … K189-DZ69 (5-stage or 6-stage)	10	220 … 19 500	170 … 14 900	7.5
	C.29-D/Z19 … C.89-D/Z39 (4-stage or 5-stage)	5	80 … 1 310	270 … 19 000	7.5

Fig. 1/7 Example of a tandem geared motor

[1)] With 4-pole motor for a 50 Hz line frequency in integral type of construction

Geared motors (continued)

Torque classes

SIMOGEAR geared motors are classified according to fixed torque steps.

Within a torque class, for the various gearbox types, almost the same output torques are achieved.

Helical gearboxes Z and D (2-stage and 3-stage)														
Size		-	19	29	39	49	59	69	79	89	109	129	149	169	189
Maximum output torque	Nm	-	100	140	200	320	450	600	840	1 680	3 100	5 000	8 000	14 000	19 000
Cooling tower gearboxes ZK (2-stage)															
Maximum output torque	Nm	-	-	-	-	-	-	-	-	1 680	3 100	5 000	8 000	14 000	19 000
Helical gearbox E (1-stage)														
Size		-	-	-	39	49	-	69	-	89	109	129	149	-	-
Maximum output torque	Nm	-	-	-	65	108	-	205	-	365	565	800	1 490	-	-
Cooling tower gearboxes (1-stage)															
Maximum output torque	Nm	-	-	-	-	-	-	-	-	365	565	800	1 490	-	-
Parallel shaft gearboxes FZ and FD (2-stage and 3-stage)														
Size		-	-	29	39	-	49	69	79	89	109	129	149	169	189
Maximum output torque	Nm	-	-	150	290	-	480	600	1 000	1 850	3 100	4 850	8 000	13 600	19 000
Bevel gearbox B (2-stage)														
Size		-	19	29	39	-	49	-	-	-	-	-	-	-	-
Maximum output torque	Nm	-	50	110	250	-	450	-	-	-	-	-	-	-	-
Bevel gearbox K (3-stage)														
Size		-	-	-	39	-	49	69	79	89	109	129	149	169	189
Maximum output torque	Nm	-	-	-	220	-	420	600	820	1 600	2 900	4 400	8 000	13 000	19 500
Helical worm gearbox C (2-stage)														
Size		-	-	29	39	-	49	69	-	89	-	-	-	-	-
Maximum output torque	Nm	-	-	110	235	-	400	675	-	1 450	-	-	-	-	-

Benefits

High energy efficiency for a fast return on investment

When developing SIMOGEAR geared motors, significant emphasis was placed on achieving the highest possible energy efficiency.

Using the plug-on pinion principle in the first SIMOGEAR gearbox stage, higher transmission ratios are achieved when compared to gearboxes with slip-on pinion.

This means that frequently instead of 3-stage gearboxes with an efficiency of approx. 94 %, 2-stage helical and parallel shaft gearboxes with a high efficiency of ≥ 96 % can be used.

Two-stage SIMOGEAR bevel geared motors B have a mechanical efficiency of ≥ 96 %. With a range of transmission ratios from i = 3.5 to 60, they have been specifically designed to address the requirements in conveyor technology.

Together with the new Siemens LEN and LHN motors for efficiency classes IE2, IE3 or operation mode is S3-75%. SIMOGEAR geared motors allow a high amount of energy to be saved and reduce the stress on our environment.

Extremely compact and low weight for easy handling in the machine or system in the smallest space

An integrated end shield instead of an adapter plate and end shield reduces the weight and space required in your machine or system. In addition, interfaces and sealing joints are reduced as a result of the integrated end shield.

With the SIMOGEAR bevel gearboxes, the length was able to be significantly reduced through an optimized bearing design.

SIMOGEAR helical gearboxes D/Z29 to D/Z39 (200 Nm), parallel shaft gearboxes F29 (150 Nm), bevel gearboxes B19 to B49 (450 Nm), and helical worm gearboxes C29 (100 Nm) have an aluminum gearbox housing.

Harmoniously coordinated modular system to provide the optimum solution for your particular drive task

The fine size graduations of SIMOGEAR gearboxes provide you the optimum drive for every application regarding gearbox type, rated output torque and transmission ratio.

When developing SIMOGEAR geared motors, significant emphasis was placed on achieving well-balanced gearbox properties.

With SIMOGEAR geared motors you can depend on harmonized and coordinated properties regarding:

- Maximum output torque
- Permissible radial force
- Output shaft diameter
- Bearing service life
- Housing stiffness
- Gearing reliability (fatigue endurable)
- Shaft strength (fatigue endurable)

Benefits (continued)

Fine ratio stages
to always obtain the output speed required

With their wide range of transmission ratios, from very low up to very high, SIMOGEAR geared motors provide the necessary flexibility for your drive application.

As a result of the wide ratio range, 4-pole induction motors can be mainly used – the most cost-effective solution.

Further, the gearboxes are quieter as a result of the lower circumferential velocity of the first gearbox stage.

Intelligent sealing concept
for a high degree of maintenance friendliness

An optimally coordinated sealing concept is available for the SIMOGEAR gearbox output shaft to address the various application areas and ambient conditions.

Gearbox sizes 19 and 29 are lubricated for life.
All SIMOGEAR geared motors with venting have as standard a pressure breather valve.

The MODULOG modular principle
for outstanding flexibility

The motors used for the SIMOGEAR geared motors have a modular design using our well-proven MODULOG modular principle.

At the heart of the system is a basic motor dimensioned for international line supply conditions with power ratings extending from 0.09 to 55 kW (2/4/6/8-pole).

At the non-drive end (NDE), you have an individually configurable MODULOG modular system, e.g. for brakes, backstop, rotary pulse encoder, separately driven fan, and canopy.

This guarantees high availability as well as short delivery times.

Integration

SIMOGEAR geared motors are part of the Siemens Integrated Drive System (IDS).

Siemens Integrated Drive System (IDS) stands for standardized, tailored, and modular components, systems, and services. It encompasses the world's most extensive portfolio – from geared motors through motor starters and inverters, identification systems and switchgear up to the automation.

The complete portfolio is exhaustively tested – also in the field – for maximum availability. The components are harmonized and coordinated with one another with standard interfaces and power bus systems.

Siemens Integrated Drive System (IDS) therefore allows you to reduce your installation and commissioning costs, and at the same time increase flexibility and system availability.

Energy-efficient motors, motor starters, soft-starters, and inverters as well as the Power Management system based on SIMATIC PCS 7, SIMATIC WinCC, and multi-function measuring devices ensure a high energy saving potential.

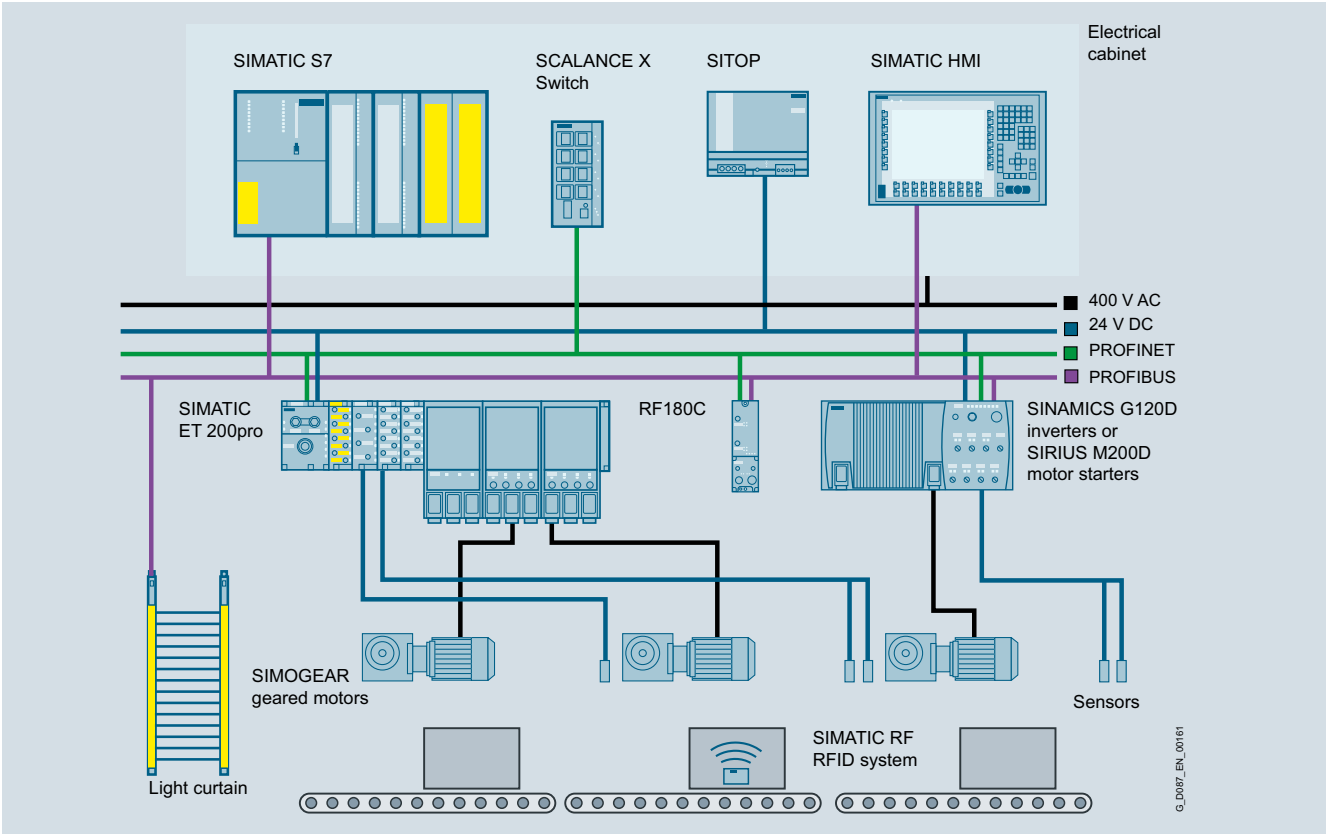


Fig. 1/8 Example of the Siemens Integrated Drive System (IDS) for sophisticated conveyor applications

Configuration

Drive Technology Configurator (DT Configurator) within the CA 01

The Interactive Catalog CA 01 – the offline Industry Mall of Siemens on DVD-ROM – contains over 100 000 products with approximately 5 million possible drive system product variants. The Drive Technology Configurator (DT Configurator) has been developed to facilitate selection of the correct geared motor and/or inverter from the wide spectrum of drives. It is integrated as a selection tool in Catalog CA 01.

Description	Article No.
Interactive Catalog CA 01 on DVD-ROM including Drive Technology Configurator, English	**E86060-D4001-A510-D8-7500**

Drive Technology Configurator (DT Configurator)

The Drive Technology (DT) Configurator supports you when configuring the optimum drive technology products for your application – from gearboxes, motors, inverters as well as the associated options and components through to controllers, software licenses and connection systems. With or without detailed knowledge of products:
Preselected product groups, targeted navigation through selection menus and direct product selection through entry of the article number support quick, efficient, and convenient configuration.

In addition to all this, comprehensive documentation comprising technical data sheets, 2D dimensional drawings/3D CAD models, operating instructions, certificates, etc. can be selected in the DT Configurator. Immediate ordering is possible by simply transferring a parts list to the shopping cart of the Industry Mall.

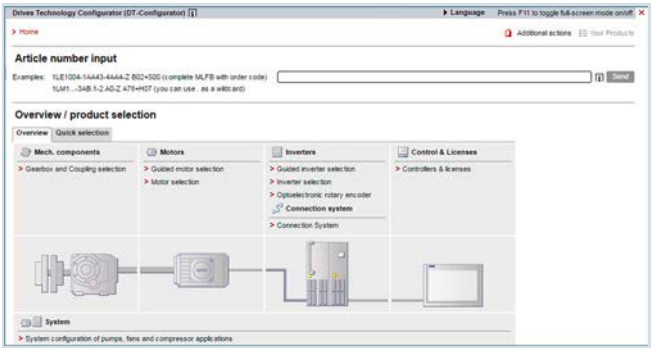


Fig. 1/9 DT Configurator

Drive Technology Configurator for efficient drive configuration with the following functions

- Fast, efficient configuration of drive products and associated components – gearboxes, motors, inverters, controllers, connection systems
- Configuration of drive systems for pumps, fans and compressor applications from 1 kW to 2.6 MW
- Displayable documentation for configured products and components, such as
  - Data sheets in PDF or RTF format
  - 2D dimensional drawings/3D CAD models in various formats
  - Operating instructions
  - Certificates
  - Start-up calculation for SIMOTICS motors
- Support with retrofitting in conjunction with Spares On Web (www.siemens.com/sow)
- Ability to order products directly in the Siemens Industry Mall

Access to the Drive Technology Configurator

The Drive Technology Configurator can be called up without registration and without a login:
www.siemens.com/dt-configurator

STARTER commissioning tool

The STARTER commissioning tool (V4.3 SP3 and higher) simplifies the commissioning and maintenance of the SINAMICS G110M motor integrated frequency inverter. The operator guidance combined with comprehensive, user-friendly functions for the relevant drive solution allow you to commission the device quickly and easily.

Additional information about the STARTER commissioning tool is available on the Internet at:
www.siemens.com/starter

SINAMICS Startdrive commissioning tool

SINAMICS Startdrive is a tool for configuring, commissioning, and diagnosing the SINAMICS family of drives and is integrated into the TIA Portal. SINAMICS Startdrive can be used to implement drive tasks with the SINAMICS G110M (SINAMICS Startdrive V13 and higher), SINAMICS G120, SINAMICS G120C, SINAMICS G120D, and SINAMICS G120P inverter series. The commissioning tool has been optimized with regard to user friendliness and consistent use of the TIA Portal benefits of a common working environment for PLC, HMI and drives.

The SINAMICS Startdrive commissioning tool is available free on the Internet at:
www.siemens.com/startdrive

SIZER for Siemens Drives

For the project engineering of SIMOGEAR geared motors operating on SINAMICS frequency inverters, the engineering tool "Sizer for Siemens Drives" should be used. This ensures that all the relevant aspects are taken into consideration (line voltage, type of DC link (regulated/unregulated), utilization of the motor in accordance with temperature class B or F, motor current for inverter operation in Y circuit or D circuit, calculation of the regenerative power, dimensioning of the braking resistor with reference to the entered cyclic operation, etc.)

The SIZER for Siemens Drives engineering tool is available free on the Internet at:
www.siemens.com/sizer

Overview

The Article No. comprises a combination of digits and letters. To obtain a better overview, the Article No. is split up into three, hyphenated blocks.

Example:

2KJ4105-1EM22-2AS1-Z +D01+M55

The first block (data positions 1 to 7) designates the gearbox type; the second (data positions 8 to 12) designates the output shaft and the motor type; and additional design characteristics are coded in the third block (data positions 13 to 16).

Ordering data

- Complete Article No. with a **-Z** suffix, and order code(s) or plain text.
- If a quotation has been requested, please specify the quotation number in addition to the Article No.
- When ordering a complete geared motor as a replacement unit, the serial number of the original geared motor must be specified.

Structure of the Article No.

Position of the Article No.		1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	-	Z
SIMOGEAR geared motors																					
1st to 5th position: Digit, letter, Letter, digit, digit	Helical gearbox E, 1-stage	**2**	**K**	**J**	**4**	**0**															
	Helical gearbox Z, 2-stage	**2**	**K**	**J**	**4**	**1**															
	Helical gearbox D, 3-stage	**2**	**K**	**J**	**4**	**2**															
	Parallel shaft gearbox FZ, 2-stage	**2**	**K**	**J**	**4**	**3**															
	Parallel shaft gearbox FD, 3-stage	**2**	**K**	**J**	**4**	**4**															
	Bevel gearbox B, 2-stage	**2**	**K**	**J**	**4**	**5**															
	Bevel gearbox K, 3-stage	**2**	**K**	**J**	**4**	**5**															
	Helical worm gearbox C, 2-stage	**2**	**K**	**J**	**4**	**6**															
6th to 7th position: Digit, digit	Gearbox size																				
8th position: Digit	Output shaft								-												
9th to 10th position: Letter, letter	Motor frame size																				
11th position: Digit	Induction motor LHN												**2**								
	Induction motor LEN												**3**								
12th position: Digit	Motor with operation mode S3-75%													**1**							
	Motor with high efficiency (High Efficiency IE2)													**2**							
	Motor with premium efficiency (Premium Efficiency IE3)													**3**							
13th position: Digit	Frequency, voltage														-						
14th position: Letter	Foot-mounted design																**A**				
	Foot/flange-mounted design																**B**				
	Torque arm Bevel gearbox K																**C**				
	Torque arm Parallel shaft gearbox F, Bevel gearbox B Helical worm gearbox C																**D**				
	Flange-mounted design																**F**				
	Housing flange design																**H**				
15th to 16th position: Letter, digit	Transmission ratio																				
Special designs																					
Coded	Order code required																			-	**Z**
Non-coded	Plain text required																				

Overview (continued)

Ordering example

A helical geared motor is required:

- Gearbox type, size Z59
- Motor 0.55 kW, 4-pole with 50/60 Hz line frequency
- Output speed 49, transmission ratio i = 28.89
- Solid shaft V35 x 70
- Mounting position M1
- Terminal box position 1A
- Degree of protection IP55
- Oil level control, oil sight glass
- Gear oil, CLP VG220
- Surface treatments, Unlacquered

This results in the following Article No. with order codes:

| Position of the Article No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | - | 8 | 9 | 10 | 11 | 12 | - | 13 | 14 | 15 | 16 | - | Z | + | Order codes | | |

Type designation of the gearboxes

The type designation is a meaningful name for SIMOGEAR geared motors.

It provides information about the fundamental design of the geared motor and about its main technical features.

Example of gearbox type designation:	F	D	A	F	S	W	89	-	Z	39
Gearbox type										
Helical gearbox	**-**									
Cooling tower gearbox, 1-stage	**EKF**									
Cooling tower gearbox, 2-stage	**ZKF**									
Parallel shaft gearbox	**F**									
Bevel gearbox, 2-stage	**B**									
Bevel gearbox, 3-stage	**K**									
Helical worm gearbox	**C**									
Stage										
1-stage (for helical gearbox only)		**E**								
2-stage		**Z**						-		
3-stage		**D**								
Type										
Shaft										
Solid shaft			**-**							
Hollow shaft			**A**							
Mounting										
Foot-mounted design				**-**						
Foot/flange-mounted design				**B**						
Flange-mounted design				**F**						
Housing flange design				**Z**						
Torque arm				**D**						
Connection										
Feather key / without feather key					**-**					
Shrink disk					**S**					
Splined shaft					**T**					
Special features										
Reduced-backlash version					-	**W**				
Gearbox size										
Helical gearbox, 1-stage							**39 ... 149**			
Helical gearbox, 2-stage/3-stage							**19 ... 189**			
Cooling tower gearbox, single-stage							**89 ... 149**			
Cooling tower gearbox, 2-stage							**89 ... 189**			
Parallel shaft gearbox, 2-stage/3-stage							**29 ... 189**			
Bevel gearbox, 2-stage							**19 ... 49**			
Bevel gearbox, 3-stage							**39 ... 189**			
Helical worm gearbox, 2-stage							**29 ... 89**			
Gearbox type - intermediate gearbox										
Helical gearbox								-	**-**	
Stage - intermediate gearbox										
2-stage								-	**Z**	
3-stage								-	**D**	
Gearbox size										
Helical gearbox, 2-stage/3-stage										**19 ...69**

Type designation of the motors

Example of motor type designation:		LEN	90	SH	-	4	E	FW	L	32/14	MN	IA
Definition of motor												
Motor type	Three-phase motor	**LEN**										
		LHN										
Motor frame size	Specified acc. to EN 50347		**63 ... 250**									
Overall length	Overall length specified acc. to EN 50347			**S, L, M**								
	Packet length / power value			**A ... Z**								
Number of poles	2-pole					**2**						
	4-pole					**4**						
	6-pole					**6**						
	8-pole					**8**						
Special features												
Efficiency class	Different to IE2 or IE3						**-**					
	IE2 (High Efficiency)						**E**					
	IE3 (Premium Efficiency)						**P**					
Ventilation	Self ventilation							**-**				
	Forced ventilation							**F**				
	High inertia fan							**I**				
Canopy	With protective cover							**W**				
Handwheel	With handwheel							**D**				
Backstop	With backstop							**X**				
Brake												
Brake type	DC brake								**L, FDX**			
Rated braking torque	L brakes									**4 ... 400**		
	FDX brakes									**30**		
	Adjusted braking torque									**2 ... 850**		
Brake options												
	Microswitch for monitoring brake release										**M**	
	Standard version										**N**	
	Enclosed brake										**G**	
	Manual brake release										**H**	
	Manual brake release with locking mechanism										**HA**	
Encoder												
	Incremental encoder											**IN**
	Resolver											**IR**
	Absolute encoder											**IA**
	Prepared for encoder mounting											**IV**

Overview

Helical geared motors

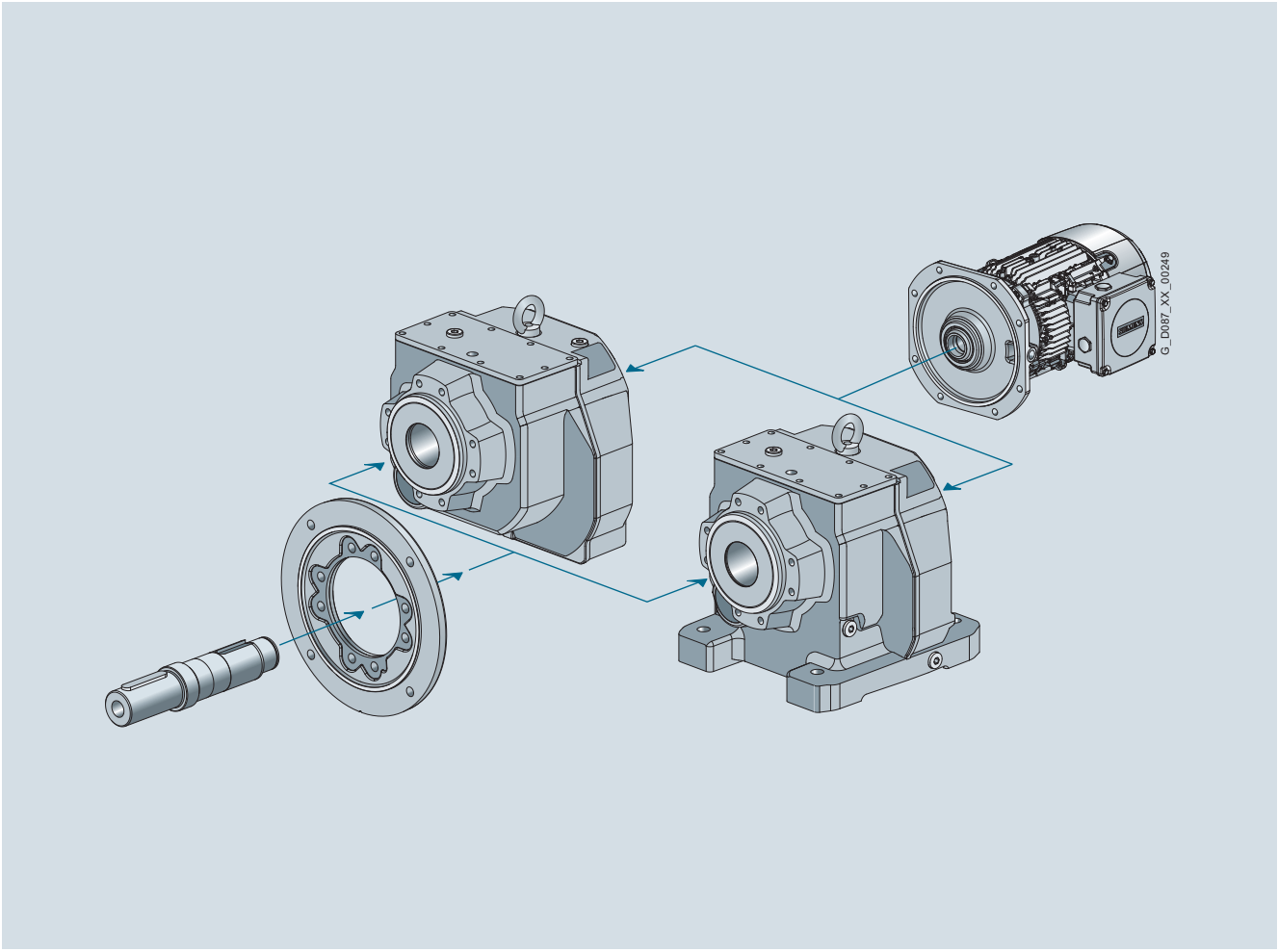


Fig. 1/10 Modular system, helical geared motor

SIMOGEAR helical geared motors are available in the following versions for mounting in any position:

- 2 or 3 stages
- 1 stage for high output speeds
- 4 to 6 stages for especially low output speeds
- Foot-mounted design
- Flange-mounted design
- Flange-mounted design with VLplus and XLplus reinforced bearing systems
- Design with integrated housing flange
- Combined foot/flange-mounted design (frame size 29 to 89)
- Cooling tower version
- Solid shaft design with and without feather key

Overview (continued)

Parallel shaft geared motors

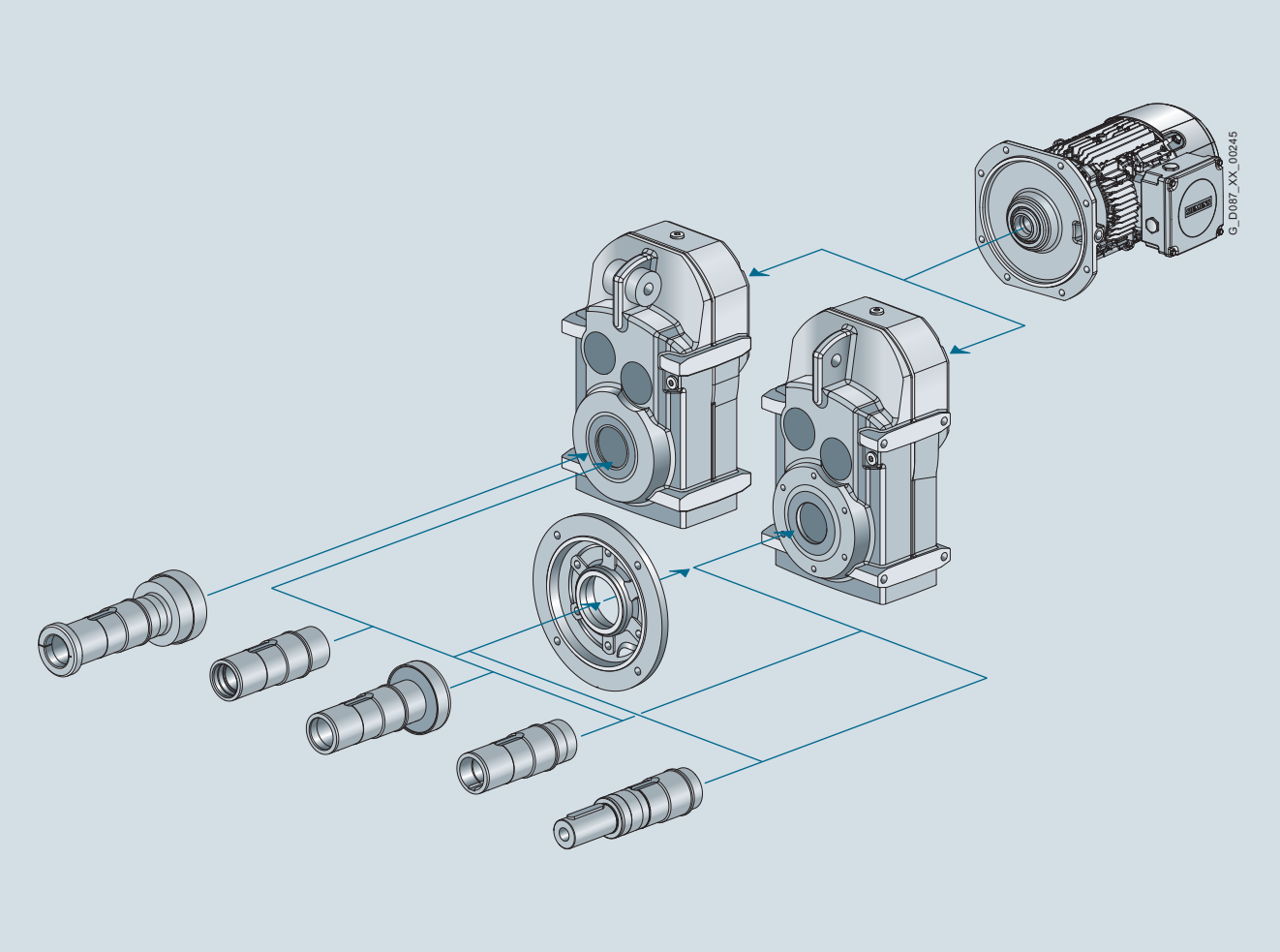


Fig. 1/11 Modular system, parallel shaft geared motor

SIMOGEAR parallel shaft geared motors are available in the following versions for mounting in any position:

- 2 or 3 stages
- 4 to 6 stages for especially low output speeds
- Shaft-mounted design with torque arm
- Flange-mounted design
- Flange-mounted design with VLplus reinforced bearing system
- Design with integrated housing flange
- Foot-mounted design
- Hollow shaft design with feather key, splined shaft, shrink disk
- Solid shaft design with and without feather key

Overview (continued)

Bevel geared motors B

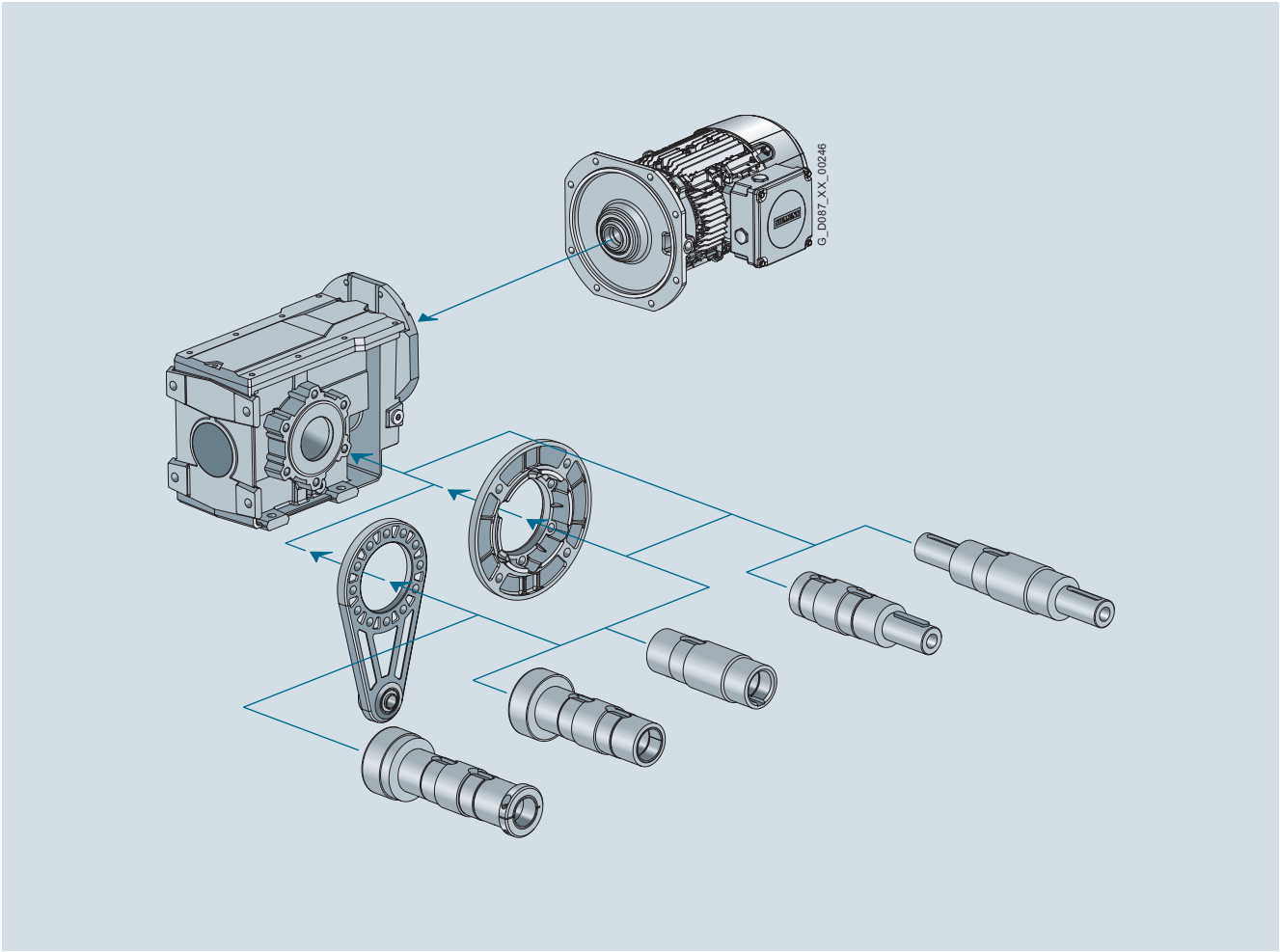


Fig. 1/12 Modular system, bevel geared motor B

SIMOGEAR bevel geared motors B are available in the following versions for mounting in any position:

- 2 stages
- Shaft-mounted design with torque arm
- Flange-mounted design
- Design with integrated housing flange
- Foot-mounted design
- Hollow shaft design with feather key, splined shaft, shrink disk
- Solid shaft design with and without feather key (at one end or both ends)

For 2-stage bevel gearboxes B, the torque arm is supplied loose to enable it to be mounted as required on site. The position of the torque arm can be freely selected.

Overview (continued)

Bevel geared motors K

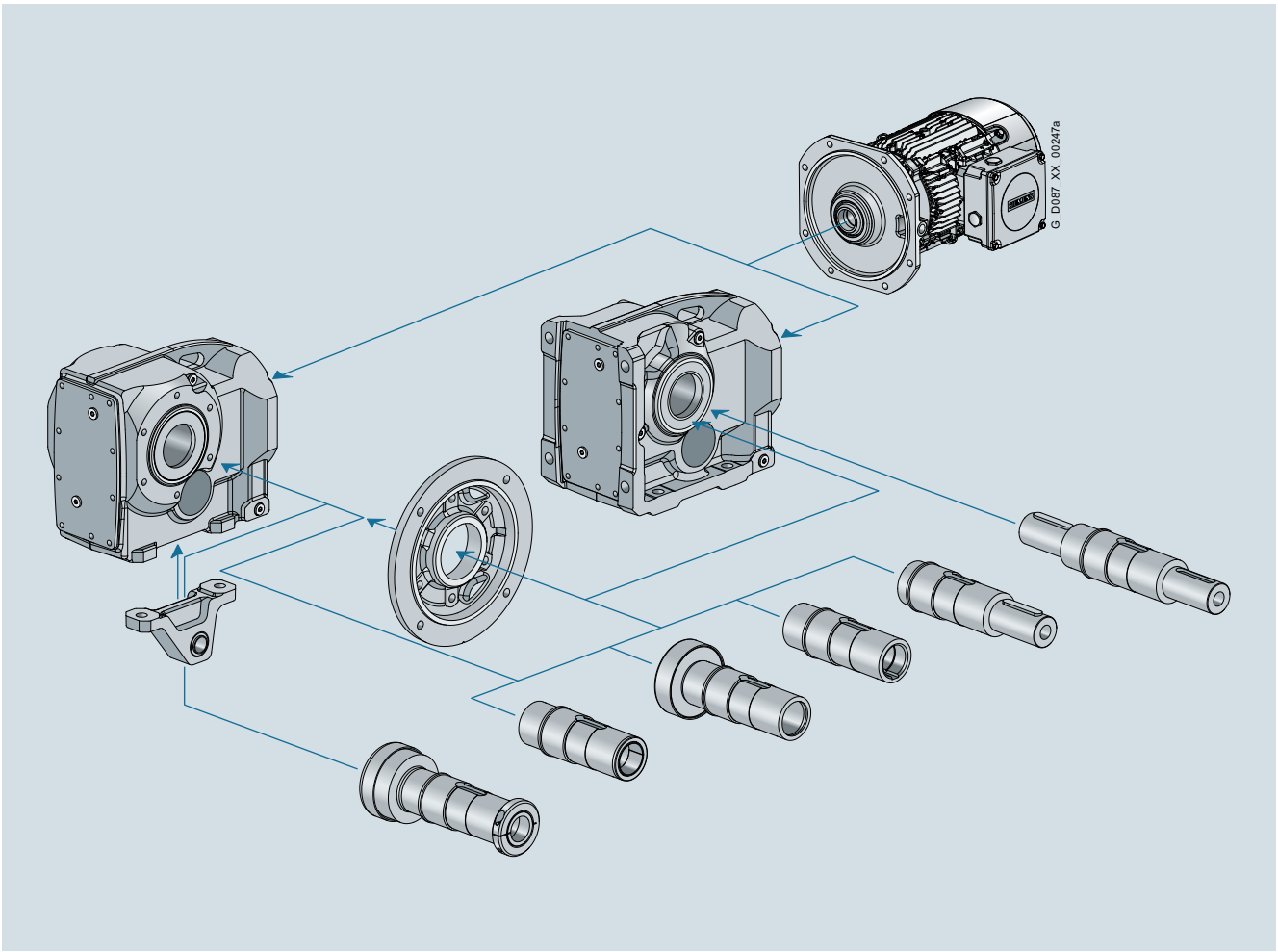


Fig. 1/13 Modular system, bevel geared motor K

SIMOGEAR bevel geared motors K are available in the following versions for mounting in any position:

- 3 stages
- 5 or 6 stages for very low output speeds
- Shaft-mounted design with torque arm
- Flange-mounted design
- Flange-mounted design with VLplus reinforced bearing system
- Design with integrated housing flange
- Foot-mounted design
- Hollow shaft design with feather key, splined shaft, shrink disk
- Solid shaft design with and without feather key (at one end or both ends)

Overview (continued)

Helical worm geared motors

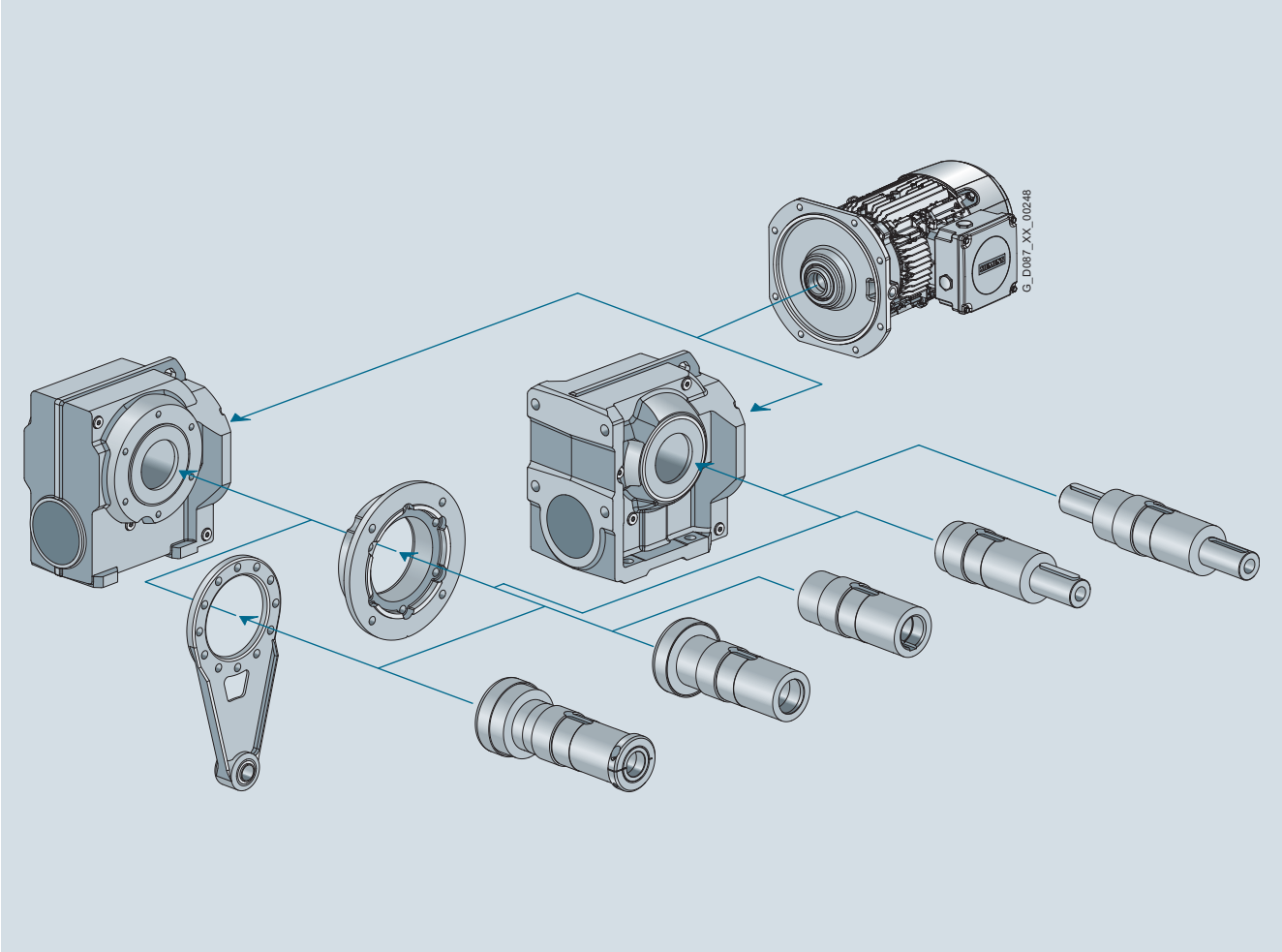


Fig. 1/14 Modular system, helical worm gearbox

SIMOGEAR helical worm gearboxes are available in the following versions for mounting in any position:

- 2 stages
- 4 or 5 stages for very low output speeds
- Shaft-mounted design with torque arm
- Flange-mounted design
- Design with integrated housing flange
- Foot-mounted design
- Hollow shaft design with feather key, shrink disk
- Solid shaft design with and without feather key (at one end or both ends)

For helical worm gearboxes, the torque arm is supplied loose to enable it to be mounted as required on site. The position of the torque arm can be freely selected.

1

Notes on selection tables

Structure of the tables for geared motors up to 55 kW

In the selection tables you will find the most frequently used versions and combinations of geared motors sorted according to the motor power. Additional combinations can be selected with our SIMOGEAR Configurator.

The power ratings and torques specified in the catalog refer to mounting position M1 and comparable types of construction, where the input stage does not run completely immersed in oil.

Further, standard equipment and standard lubrication of the geared motors as well as normal ambient conditions are assumed.

The specified output speeds are guide values.
You can calculate the rated input speed based on the rated motor speed and the transmission ratio. Please note that the actual output speed will depend on the motor load and the line supply conditions.

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg		Number of poles
0.55	**Type designation FD.49-LHN80MD4E**							
	13	385	105.10	5 600	1.2	33	**2KJ4403 - ■ DD22 - ■ ■ G1**	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

(1) Rated motor power at 50 Hz
(2) Geared motor output speed
(3) Geared motor output torque
(4) Transmission ratio
(5) Permissible radial force at the center of shaft extension (foot-mounted design with solid shaft)
(6) Service factor
(7) Drive weight without any oil
(8) Article No.
(9) Order code for number of poles

Structure of the tables for transmission ratios and torques

In the selection tables for transmission ratios and torques, the gearboxes are sorted according to gearbox type and ratio.

i	n_2	T_{2N}	F_{R2}	φ	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N		10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
Type designation D.59																			
76.38	19	450	7 660	8	0.59	611/8	✓	✓	✓	✓	✓	✓	✓						**2KJ4205 - ■■■■■ - ■ ■ E1**
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)											(9)

(1) Transmission ratio
(2) Geared motor output speed at a motor speed of 1 450 rpm
(3) Maximum gearbox output torque with service factor of $f_B = 1$
(4) Permissible radial force at the center of shaft extension (foot-mounted design with solid shaft)
(5) Torsional backlash in minutes of arc for reduced-backlash version (order code G99)
If torsional backlash is not specified, the option "reduced-backlash version" is not possible with this ratio.
(6) Moment of inertia of the gearbox reduced to the input shaft
(7) Ratio, number of teeth
(8) Geometrically possible geared motor combination
(9) Article No.

Structure of the efficiency tables

Left-hand side

	n_{mot} = 2 800 rpm				n_{mot} = 1 400 rpm				n_{mot} = 900 rpm				
i	***n_2***	***T_{2N}***	***P_{mot}***	η	***n_2***	***T_{2N}***	***P_{mot}***	η	***n_2***	***T_{2N}***	***P_{mot}***	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
Type designation C.49													
127.64	22	300	0.95	73	11.0	355	0.56	73	7.1	355	0.37	71	**2KJ4603 - ■ ■ ■ ■ ■ - ■ ■ F2**
⬇ (1)	⬇ (2)	⬇ (3)	⬇ (4)	⬇ (5)	⬇ (2)	⬇ (3)	⬇ (4)	⬇ (5)	⬇ (2)	⬇ (3)	⬇ (4)	⬇ (5)	⬇ (6)

(1) Transmission ratio
(2) Geared motor output speed at specified motor speed n_{mot}
(3) Maximum gearbox output torque with service factor of f_B = 1
(4) Input power
(5) Efficiency
(6) Article No.

Structure of the motor power tables

Motors with IE2 High Efficiency

Left-hand side

Frame size	**Motor**	***P_{rated}***	***n_{rated}***	***T_{rated}***	***I_{rated}***	**cos φ**	η		***I_{St}/I_{rated}***	**Article No.**				**Order code**
							4/4 load	3/4 load		Data position				Number of poles
		kW	rpm	Nm	A	-	%	%	-	9th	10th	11th	12th	
4-pole, 1 500 rpm at 50 Hz														
80	LEN80MD4E	0.55	1425	3.7	1.40	0.80	74.0	74.7	6.0	**D**	**C**	**3**	**2**	**-**
2-pole, 3 000 rpm at 50 Hz														
80	LEN80MA2E	0.75	2795	2.6	1.75	0.84	77.4	78.5	5.6	**D**	**B**	**3**	**2**	**P00**
⬇ (1)	⬇ (2)	⬇ (3)	⬇ (4)	⬇ (5)	⬇ (6)	⬇ (7)	⬇ (8)	⬇ (8)	⬇ (9)	⬇ (10)	⬇ (10)	⬇ (11)	⬇ (12)	⬇ (13)

(1) Motor frame size
(2) Motor designation
(3) Rated power
(4) Rated speed
(5) Rated torque
(6) Rated current
(7) Power factor
(8) Efficiency
(9) Relative starting current
(10) Article No. of the motor frame size
(11) Article No. of the motor type
(12) Article No. of the motor series
(13) Order code for number of poles

For different voltages, the starting, average acceleration and breakdown torque change acc. to a square law from their rated value.

Right-hand side

Frame size	**Motor**	***T_{St}/T_{rated}***	***T_{Bk}/T_{rated}***	***T_A/T_{rated}***	***L_{pfA}***	***L_{WA}***	***Z_0***	***J_{mot}***	***m_{mot}***	**Article No.**				**Order code**
										Data position				Number of poles
		-	-	-	dB (A)	dB (A)	1/h	10^{-4} kgm²	kg	9th	10th	11th	12th	
4-pole, 1 500 rpm at 50 Hz														
80	LEN80MD4E	2.0	2.7	O.R.	45	57	O.R.	21	15.5	**D**	**C**	**3**	**2**	**-**
2-pole, 3 000 rpm at 50 Hz														
80	LEN80MA2E	2.4	2.4	O.R.	53	65	O.R.	8	15.5	**D**	**B**	**3**	**2**	**P00**
⬇ (1)	⬇ (2)	⬇ (3)	⬇ (4)	⬇ (5)	⬇ (6)	⬇ (7)	⬇ (8)	⬇ (9)	⬇ (10)	⬇ (11)	⬇ (11)	⬇ (12)	⬇ (13)	⬇ (14)

(1) Motor frame size
(2) Motor designation
(3) Relative starting torque
(4) Relative breakdown torque
(5) Relative average acceleration torque
(6) Measuring surface sound pressure level
(7) Sound power level
(8) No-load switching frequency
(9) Moment of inertia
(10) Weight (without end shield at DE)
(11) Article No. of the motor frame size
(12) Article No. of the motor type
(13) Article No. of the motor series
(14) Order code for number of poles

Overview

Shaft heights

DIN 747 shaft heights for machines

Shaft height	Tolerance
mm	mm
≤ 250	-0.5
> 250	-1

Note:

For foot-mounted gearboxes, the mounted motor can extend below the mounting surface of the gearbox.

Shaft extensions

DIN 748-1 cylindrical shaft extensions

Diameter tolerance:

Diameter	Tolerance
mm	mm
≤ 50	ISO k6
> 50	ISO m6

Centering holes according to DIN 332, form DR:

Diameter	Thread size
mm	-
> 16 … 21	M6
> 21 … 24	M8
> 24 … 30	M10
> 30 … 38	M12
> 38 … 50	M16
> 50 … 85	M20
> 85 … 130	M24
> 130	M30

Undercut acc. to DIN 509:

Diameter	Undercut acc. to DIN 509	Suggested construction, minimum hollow on mating piece
mm		mm
> 16 … 18	E1.0x0.2	0.9 x 45 °
> 18 … 50	E1.2x0.2	1.1 x 45 °
> 50 … 80	E1.6x0.3	1.4 x 45 °
> 80 … 125	E2.5x0.4	2.2 x 45 °

Hollow shafts

Hollow shaft with feather key

Diameter tolerance Ø: ISO H7 measured using a mandrel gauge

Feather key: acc. to DIN 6885-1 (high form)

Hollow shafts with shrink disk

Diameter tolerance Ø: ISO H7 with mandrel gauge, measured in the area of the shrink disk seat. Hub seat, output side equipped with journal bearing sleeve.

Minimum requirement for the design of the customer shaft:

- Elastic limit Re ≥ 360 N/mm²
- Module of elasticity, approx. 206 kN/mm²
- Without tapped hole on the face
- Customer shaft must not be in contact with shaft shoulder

Hollow shafts with splines

Splines according to DIN 5480

Flanges

Centering edge tolerance:

Outer flange diameter	Tolerance
mm	mm
≤ 300	ISO j6
> 350	ISO h6

Vent valves

The gearboxes are shown in the dimensional drawings with screw plugs.
If venting is required, then depending on the type of construction, an activated vent valve is installed.
The contour dimension can change slightly as a result.

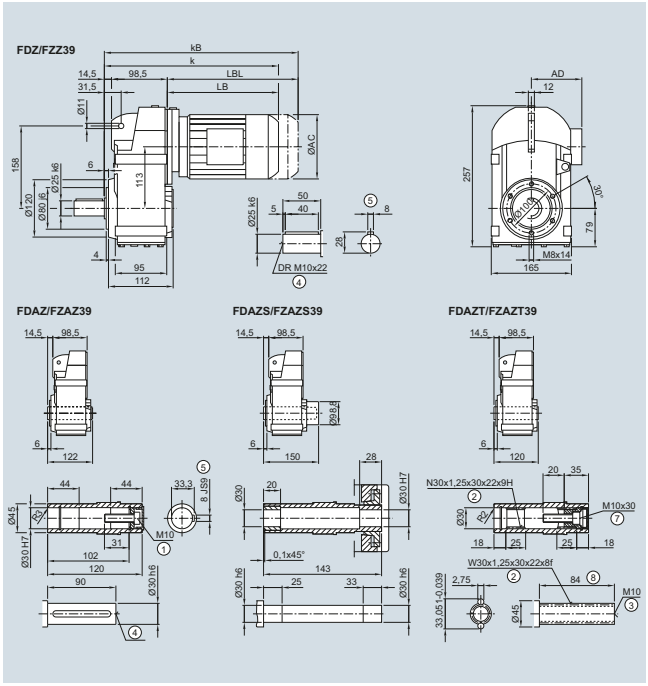


Fig. 1/15 Example, dimensional drawings

Overview

The following certificates are available for SIMOGEAR geared motors. You can select them.

Specifications

Country/economic area	Marking Examples	Legal/normative requirements
China 		**CCC** China Compulsory Certification
		**CEL – China Energy Label** Based on the national standard GB 18613-2012 **ECL** Energy Conservation Law of PRC

Motors in Chinese market

CCC-certified motors, frame sizes 63 to 90, are available for selling in China.

CCC – China Compulsory Certification

"Small power motors" which are selling in China must be certified up to a rated power of:

2-pole: ≤ 2.2 kW

4-pole: ≤ 1.1 kW

6-pole: ≤ 0.75 kW

8-pole: ≤ 0.55 kW

Motors requiring certification are certified by CQC (China Quality Certification Center).

CEL – China Energy Label

China introduced mandatory energy efficiency labeling for electric motors in June 2008.

From September 1, 2008, and until the transition phase expires, the affected electric motors may only be imported into China and sold in the country with a valid "China Energy Label".

The motor must be labeled with the "China Energy Label" sticker, which states the efficiency class.

2-pole, 4-pole, and 6-pole motors with a line frequency of 50 Hz and a rated voltage of up to 1 000 V must be appropriately marked. Efficiency classes 2 and 3 apply here to motors with rated powers from 0.75 to 375 kW.

Recycling and disposal of SIMOGEAR geared motors

WEEE Directive

EU Directive 2012/19/EU governs the disposal of used electrical and electronic devices that are placed on the market in the EU. Since 2018-08-15, geared motors have also been subject to EU Directive 2012/19/EU and are marked accordingly:



Disposal

Information on proper disposal is provided in the latest operating instructions of the geared motors.

Efficiency classes and efficiencies according to IEC 60034-30-1

Harmonization of the efficiency classes

Various energy efficiency standards exist worldwide for induction motors. To promote international standardization, the international standard IEC 60034-30-1 03/2014 (Rotating electrical machines – Part 30: Efficiency classes of single-speed, three-phase, cage-induction motors (IE code)) was drawn up. This groups low-voltage asynchronous motors into new efficiency classes (first released in October 2008).

Applicability (excerpt)

- Low-voltage motors up to 1 000 V (50/60 Hz with line operation)
- Rating: 0.12 to 1 000 kW; with 2, 4, 6, or 8 poles
- Operating mode: S1

The efficiencies in IEC 60034-30-1 are based on the method for determining losses according to IEC 60034-2-1:2014.

IE efficiency classes

The efficiency classes are grouped according to the following nomenclature (IE = International Efficiency):

- IE1 (Standard Efficiency)
- IE2 (High Efficiency)
- IE3 (Premium Efficiency)
- IE4 (Super Premium Efficiency)

Comparison of IE efficiency classes

IEC 60034-30-1	NEMA-MG1	GB 18613-2012
IE4 [1]		Grade 1 (IE4)
IE3	Premium Efficient (60 Hz)	Grade 2 (IE3)
IE2	Energy Efficient (60 Hz)	Grade 3 (IE2)

[1] Defined in IEC/TS 60034-31.

Note:

All efficiency classes are stated with reference to 50 Hz data (unless specified otherwise).

Measuring method according to IEC 60034-2-1:2014 for determining the efficiency

With this measuring method, motor losses are no longer applied as a percentage, but are determined by standard methods. The nominal efficiencies are therefore reduced from EFF1 to IE2 and from EFF2 to IE1, even though there have been no technical or physical changes to the motors.

Previously: PLL = 0.5 % of P1 was added (IEC 60034-2)
Now: PLL = individual measurement (IEC 60034-1)

PLL = load-dependent supplementary losses

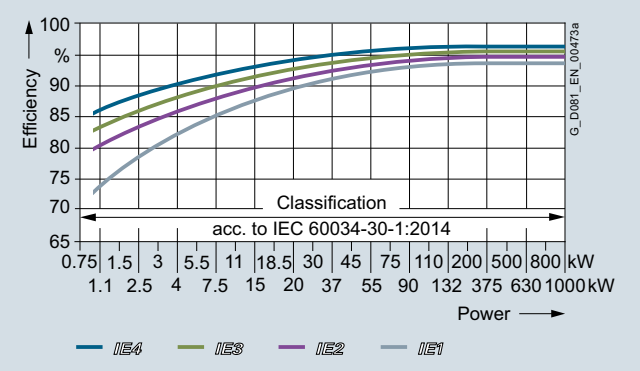


Fig. 1/16 IE1-IE3 efficiencies 4-pole at 50 Hz

Minimum efficiencies according to IEC 60034-30-1:2014

Rated power P_{rated}	Efficiency η in % IEC IE class							
	IE1 – Standard Efficiency				**IE2** – High Efficiency			
kW	2-pole	4-pole	6-pole	8-pole	2-pole	4-pole	6-pole	8-pole
0.18	52.8	57.0	45.5	38.0	60.4	64.7	56.6	45.9
0.20	54.6	58.5	47.6	39.7	61.9	65.9	58.2	47.4
0.25	58.2	61.5	52.1	43.4	64.8	68.5	61.6	50.6
0.37	63.9	66.0	59.7	49.7	69.5	72.7	67.6	56.1
0.40	64.9	66.8	61.1	50.9	70.4	73.5	68.8	57.2
0.55	69.0	70.0	65.8	56.1	74.1	77.1	73.1	61.7
0.75	72.1	72.1	70.0	61.2	77.4	79.6	75.9	66.2
1.1	75.0	75.0	72.9	66.5	79.6	81.4	78.1	70.8
1.5	77.2	77.2	75.2	70.2	81.3	82.8	79.8	74.1
2.2	79.7	79.7	77.7	74.2	83.2	84.3	81.8	77.6
3.0	81.5	81.5	79.7	77.0	84.6	85.5	83.3	80.0
4.0	83.1	83.1	81.4	79.2	85.8	86.6	84.6	81.9
5.5	84.7	84.7	83.1	81.4	87.0	87.7	86.0	83.8
7.5	86.0	86.0	84.7	83.1	88.1	88.7	87.2	85.3
11	87.6	87.6	86.4	85.0	89.4	89.8	88.7	86.9
15	88.7	88.7	87.7	86.2	90.3	90.6	89.7	88.0
18.5	89.3	89.3	88.6	86.9	90.9	91.2	90.4	88.6
22	89.9	89.9	89.2	87.4	91.3	91.6	90.9	89.1
30	90.7	90.7	90.2	88.3	92.0	92.3	91.7	89.8
37	91.2	91.2	90.8	88.8	92.5	92.7	92.2	90.3
45	91.7	91.7	91.4	89.2	92.9	93.1	92.7	90.7
55	92.1	92.1	91.9	89.7	93.2	93.5	93.1	91.0
75	92.7	92.7	92.6	90.3	93.8	94.0	93.7	91.6
90	93.0	93.0	92.9	90.7	94.1	94.2	94.0	91.9
110	93.3	93.3	93.3	91.1	94.3	94.5	94.3	92.3
132	93.5	93.5	93.5	91.5	94.6	94.7	94.6	92.6
160	93.8	93.8	93.8	91.9	94.8	94.9	94.8	93.0
200 ... 375	94.0	94.0	94.0	92.5	95.0	95.1	95.0	93.5

Rated power P_{rated}	Efficiency η in % IEC IE class							
	IE3 – Premium Efficiency				**IE4** – Super Premium Efficiency			
kW	2-pole	4-pole	6-pole	8-pole	2-pole	4-pole	6-pole	8-pole
0.18	65.9	69.9	63.9	58.7	70.8	74.7	70.1	67.2
0.20	67.2	71.1	65.4	60.6	71.9	75.8	71.4	68.4
0.25	69.7	73.5	68.6	64.1	74.3	77.9	74.1	70.8
0.37	73.8	77.3	73.5	69.3	78.1	81.1	78.0	74.3
0.40	74.6	78.0	74.4	70.1	78.9	81.7	78.7	74.9
0.55	77.8	80.8	77.2	73.0	81.5	83.9	80.9	77.0
0.75	80.7	82.5	78.9	75.0	83.5	85.7	82.7	78.4
1.1	82.7	84.1	81.0	77.7	85.2	87.2	84.5	80.8
1.5	84.2	85.3	82.5	79.7	86.5	88.2	85.9	82.6
2.2	85.9	86.7	84.3	81.9	88.0	89.5	87.4	84.5
3.0	87.1	87.7	85.6	83.5	89.1	90.4	88.6	85.9
4.0	88.1	88.6	86.8	84.8	90.0	91.1	89.5	87.1
5.5	89.2	89.6	88.0	86.2	90.9	91.9	90.5	88.3
7.5	90.1	90.4	89.1	87.3	91.7	92.6	91.3	89.3
11	91.2	91.4	90.3	88.6	92.6	93.3	92.3	90.4
15	91.9	92.1	91.2	89.6	93.3	93.9	92.9	91.2
18.5	92.4	92.6	91.7	90.1	93.7	94.2	93.4	91.7
22	92.7	93.0	92.2	90.6	94.0	94.5	93.7	92.1
30	93.3	93.6	92.9	91.3	94.5	94.9	94.2	92.7
37	93.7	93.9	93.3	91.8	94.8	95.2	94.5	93.1
45	94.0	94.2	93.7	92.2	95.0	95.4	94.8	93.4
55	94.3	94.6	94.1	92.5	95.3	95.7	95.1	93.7
75	94.7	95.0	94.6	93.1	95.6	96.0	95.4	94.2
90	95.0	95.2	94.9	93.4	95.8	96.1	95.6	94.4
110	95.2	95.4	95.1	93.7	96.0	96.3	95.8	94.7
132	95.4	95.6	95.4	94.0	96.2	96.4	96.0	94.9
160	95.6	95.8	95.6	94.3	96.3	96.6	96.2	95.1
200 ... 375	95.8	96.0	95.8	94.6	96.5	96.7	96.3	95.4

Efficiency classes and efficiencies according to IEC 60034-30-1 (continued)

Background information

Comprehensive laws have been introduced in the European Union with the objective of reducing energy consumption and therefore CO2 emissions. EU Directive 640/2009 concerns the energy consumption or efficiency of induction motors in the industrial environment. This Directive is now in force in every country of the European economic area.

For further details on internationally applicable standards and legal requirements, visit:
www.siemens.com/international-efficiency

Exceptions to the EU Directive

- Motors that are designed to be operated totally submerged in a liquid;
- Motors fully integrated into a product (e.g. a gearbox, pump, fan or compressor) whose energy efficiency cannot be measured independently of the product;
- Motors that are specially designed for operation under the following conditions:
  - At altitudes greater than 4 000 meters above sea level;
  - At ambient temperatures above 60 °C;
  - At maximum operating temperatures above 400 °C;
  - At ambient temperatures below -30 °C (any motor)
  - With cooling liquid temperatures at the product intake of below 5 °C or above 25 °C;
  - In hazardous areas in the context of Directive 94/9/EU of the European Parliament and Council;
- Brake motors

The following motors are not involved:

- 8-pole motors
- Pole-changing motors
- Synchronous motors
- Motors for intermittent duty S2 to S9
- Single-phase motors
- Motors specially developed for inverter operation in accordance with IEC 60034-25

The following changes came/will come into effect on the dates below:

Since July 27, 2014, the following exceptions have been valid in accordance with EU Regulation 04/2014:

- At altitudes exceeding 4 000 m (above sea level)
- Where ambient temperatures exceed 60 °C
- At ambient temperatures of less than -30 °C, or less than 0 °C with water cooling
- Where coolant temperatures at the inlet to a product are less than 0 °C or exceed 32 °C

From January 1, 2015:

Compliance with the legally required minimum efficiency class IE3 for power ratings from 7.5 to 375 kW or, as an alternative, IE2 motor plus frequency inverter

Changes in accordance with EU Motor Regulation 640/2009

Low-voltage motors with a power rating of between 7.5 and 375 kW and efficiency IE2 must be labeled as follows with effect from January 1, 2015:

This obligation applies only within the European Economic Area. Correct application is the sole responsibility of the customer.

From January 1, 2017:

Compliance with the legally required minimum efficiency class IE3 for power ratings from 0.75 to 375 kW or, as an alternative, IE2 motor plus frequency inverter

Note:

Different minimum efficiency class requirements apply in China, Korea and Australia. Other countries will be available soon.

Motors for the North American market

The Energy Policy Act (EPAct) was superseded in December 2010 by the Energy Independence Security Act (EISA).

The following motors must fulfill the NEMA Premium Efficient Level:

- 1 to 200 hp
- 2, 4 and 6-pole
- 230 V, 460 V, motors with feet

For details, see NEMA MG1, Table 12-12.

Abbreviations

IEC: International Electrotechnical Commission

Noise

Geared motor noise

SIMOGEAR geared motors have noise levels below the permissible noise levels defined for gearboxes in VDI Guideline 2159 and for motors in IEC 60034-9.

When used in conjunction with gearboxes, the motor noise values L_{pfA} or L_{WA} increase on average by 3 to 5 dB (A).

The circumferential velocity of the motor pinion has a significant influence on the additional gearbox noise level. This is the reason that higher speeds or low transmission ratios result in higher noise.

Here, SIMOGEAR geared motors provide a decisive advantage, as the motor plug-on pinion allows transmission ratios of up to 12 in the input stage.

Code	Description	Unit
L_{pfA}	A-weighted measuring-surface sound-pressure level	dB (A)
L_{WA}	Sound power level	dB (A)

Motor noise in line operation

The noise level is measured according to ISO 1680 in a low-reflection room and is specified as an A-weighted measuring surface sound pressure level L_{pfA} in dB (A). This value is the spatial average value of the sound pressure levels measured at the measuring surface. The measuring surface is a cube 1 m away from the surface of the motor. The sound power level L_{WA} is also specified in dB (A).

The values specified in the motor selection tables apply to the motor without gearbox at 50 Hz
Selection and ordering data page 7/12.

The tolerance is +3 dB. At 60 Hz, the values are approximately 4 dB (A) higher. Noise values for inverter operation on request.

Overview

All geared motors are connected as standard so that the motor rotates in the clockwise direction.

It is necessary to specify the desired direction of rotation of the output shaft when ordering a geared motor with backstop.

Direction of rotation	**Clockwise**	**Counterclockwise**
Abbreviation	CW (clockwise)	CCW (counterclockwise)
Description	Clockwise direction of rotation (when viewing the input/output shaft)	Counterclockwise direction of rotation (when viewing the input/output shaft)
Order code	**K18**	**K19**

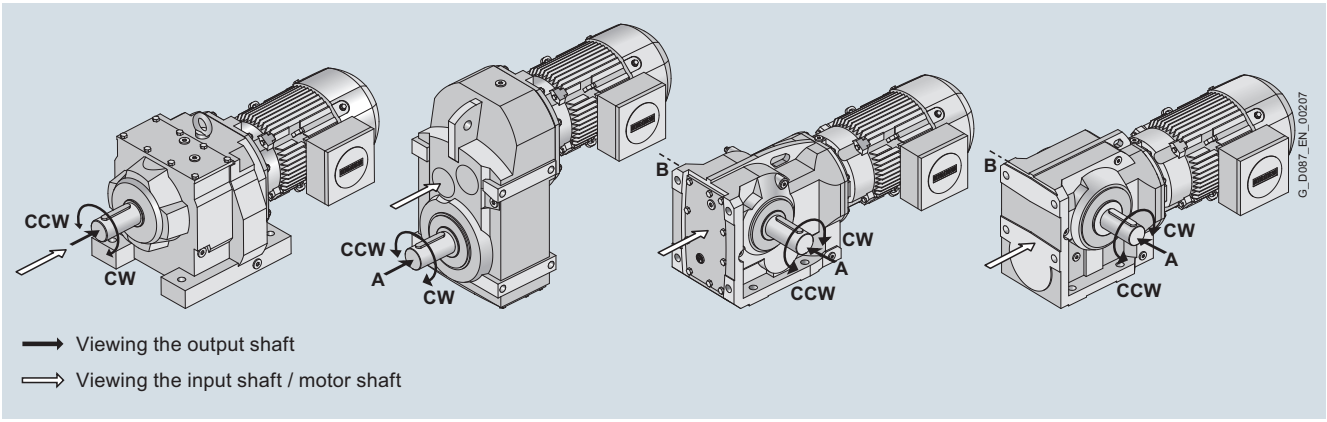


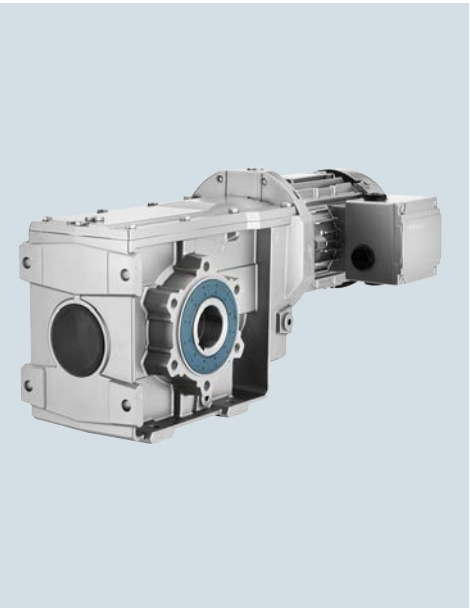
Fig. 1/17 Definition of the direction of rotation

Direction of rotation, input to output

Gearbox type	**Size**	**Gearbox stages**	**Output side**	**Direction of rotation**	
				Input shaft	**Output shaft**
Z	19 … 189	2	-	CW	CW
D	19 … 189	3	-	CW	CCW
FZ	29 … 189	2	-	CW	CW
FD	29 … 189	3	-	CW	CCW
B	19 … 49	2	A	CW	CW
			B	CW	CCW
K	39 … 189	3	A	CW	CCW
			B	CW	CCW
C	29 … 89	2	A	CW	CW
			B	CW	CCW

Note:

For bevel gearboxes B and K, helical worm gearboxes C, the direction of rotation must be specified when viewing the DE or NDE.



2/2 Determining the drive data
2/2 Configuring sequence
2/4 Checklist

2/5 Configuring a gearbox
2/5 Standards
2/5 Gearbox efficiency
2/5 • Helical, parallel shaft and bevel gearboxes
2/5 • Helical worm gearboxes
2/5 • Self-locking with worm gearboxes
2/5 • Efficiency optimization
2/5 • Splashing losses
2/6 Service factor
2/6 • Determining the required service factor
2/6 • Determining the service factor for a driven machine
2/6 • Mass acceleration factor
2/7 • Determining the service factor for the ambient temperature
2/8 Required torque
2/8 Input speed
2/8 Tandem gearboxes
2/8 • Checking the maximum motor power
2/8 • Protective measures
2/8 • Brake motors
2/8 • Preventing gearbox blockage
2/9 Gearbox fastening
2/9 Shaft load and bearing service life
2/9 • Available radial force
2/9 • Additional factor C for the transmission element type
2/10 • Permissible radial force
2/10 • Permissible axial force
2/10 • Higher permissible radial and axial forces
2/10 • Definition of the point of application of the radial and axial forces
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2/13 Configuring a three-phase motor
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2/16 Number of starting operations
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2/17 • Undervoltage
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2/19 Configuring a brake
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2/19 Determining the braking torque
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2/24 Configuring the motor for inverter operation
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2/25 Permissible voltage stress
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Configuring sequence

Overview

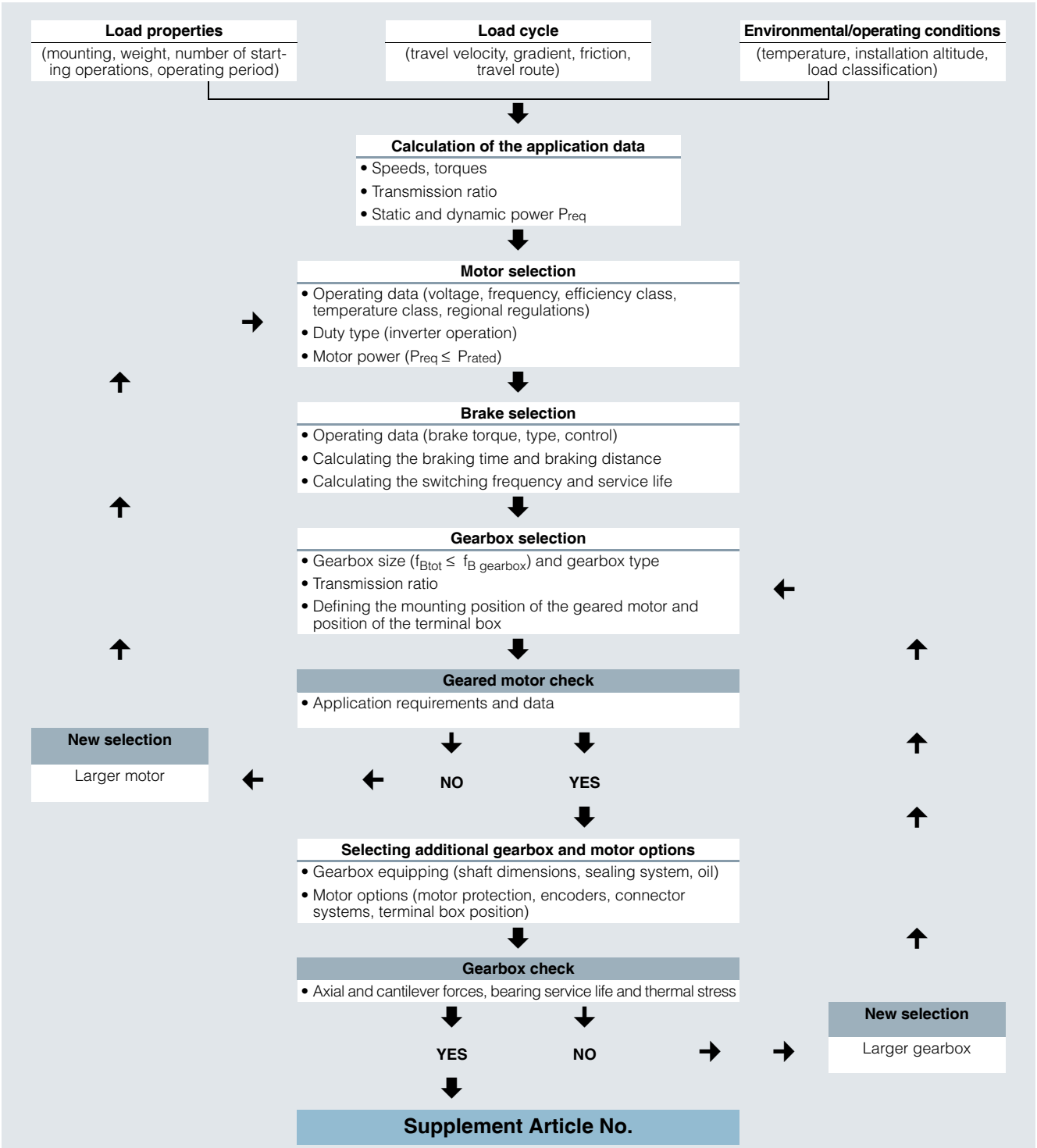
General configuring notes are provided for the standard versions in this catalog.

SIMOGEAR geared motors permit individual solutions to be created for a wide range of drive applications. In order to select the correct drive, initially specific data for the application must be known or determined.

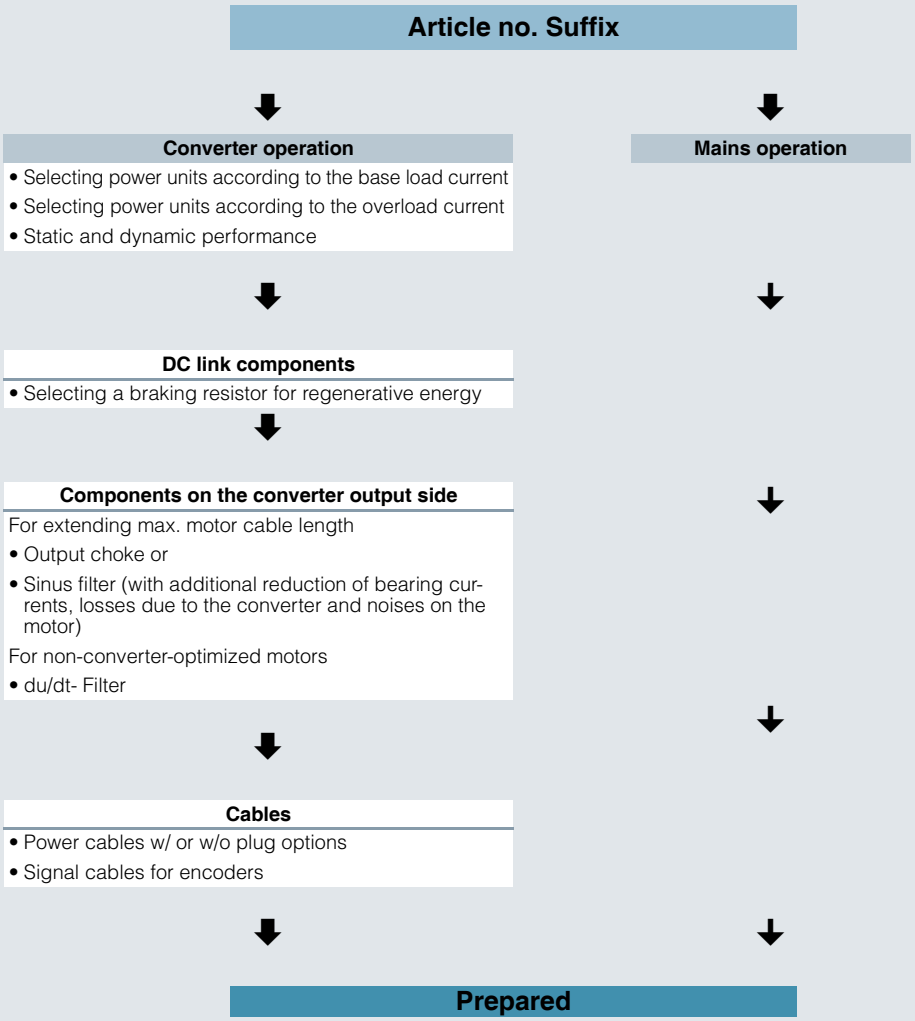
For drives operating under special conditions, e.g. frequent reversing, short-time or intermittent duty, abnormal temperatures, reversal braking, extreme cantilever forces at the gearbox output shaft, etc. please contact your Siemens contact person with all of your technical questions.

You will find additional information on our website at www.siemens.com/gearedmotors

The flow diagram illustrates the process for selecting and dimensioning a geared motor using a traction drive as an example. However, the specific requirements and boundary conditions associated with the application in question must always be taken into account.



Overview (continued)



Checklist

General

Basic version and load data

Gearbox type: ☐ Helical gearbox ☐ Parallel shaft gearbox ☐ Bevel gearbox ☐ Helical worm gearbox

Power rating: _____ kW

Output speed: _____ rpm **Output torque:** _____ Nm

Service factor: _____

Starting operations/hour: _____ s/h

Line voltage: _____ V

Line frequency: ☐ 50 Hz ☐ 60 Hz ☐ For inverter operation ☐ Maximum frequency _____ Hz

Operating period/day: ☐ 8 hours ☐ 16 hours ☐ 24 hours

Environmental conditions

Installation altitude: _____ m ☐ Outdoor operation ☐ Increased environmental stress

Air humidity: _____ % ☐ Normal environmental stress ☐ Aggressive environmental stress

Temperature: from _____ to _____ °C

Brief description of the system: (e.g. sector, conveyor system, etc.)

Gearbox

Mounting and mounting position

Mounting position: ☐ M1 ☐ M2 ☐ M3 ☐ M4 ☐ M5 ☐ M6 **Terminal box position:** _____

Mounting type: ☐ Foot-mounted design ☐ Flange-mounted design ☐ Housing flange design ☐ Shaft-mounted design

Shafts

Design: ☐ Solid shaft with/without feather key ☐ Hollow shaft with feather key ☐ Hollow shaft with shrink disk ☐ Hollow shaft with splines

Shaft dimensions: (d x l) _____ x _____ mm

Other options: (e.g. axial/radial force)

Motor

Electrical design

Motor protection: ☐ PTC thermistor ☐ Winding thermostat ☐ Temperature sensor KTY 84-130 ☐ 1x resistance thermometer Pt100

Mechanical design

Degree of protection: ☐ IP55 ☐ IP65 ☐ IP56

Cooling & ventilation: ☐ Self ventilation ☐ Forced ventilation

Motor plugs: ☐ HAN 10E ☐ HAN K4/4 ☐ Others _____
☐ HAN Q8 ☐ HAN Q12

Mounted components

Brake: ☐ Brake ☐ Manual release Voltage: _____ V

Encoder: ☐ Incremental encoder ☐ Absolute encoder ☐ Resolver ☐ Prepared for encoder mounting

Other options:

General options

Surface treatment

Surface protection: ☐ C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5
☐ unpainted ☐ C3 primed ☐ C4 primed ☐ RAL color: _____

Other options:

Standards

DIN/ISO	
DIN 743	Output shafts
ISO 281, ISO 76	Bearings
DIN 7190	Interference fits
DIN 6892	Parallel key connection
DIN 3990	Cylindrical gear toothing
DIN 3991	Bevel gear toothing
DIN 3996	Worm gear toothing

Calculation to AGMA available on request.

Gearbox efficiency

The efficiency of the gearbox is determined in part by the gear teeth, the rolling-contact bearing friction, and the shaft seal friction.

Helical, parallel shaft and bevel gearboxes

SIMOGEAR helical, parallel shaft, and bevel geared motors have a very high efficiency. Generally, efficiencies of 96 % (2-stage) and 94 % (3-stage) can be assumed. These gearbox types can be operated with energy-efficient motors to create an excellent solution.

Helical worm gearboxes

The first stage of the helical worm gearbox is designed as a helical stage. With the optimally tuned transmission ratios of the worm stage, the best possible overall efficiency is achieved, which is considerably higher than that of worm gearboxes alone.

Precise efficiency data can be found in the tables in chapter "Helical worm gearboxes".

Owing to the high degrees of efficiency, the SIMOGEAR helical worm gearboxes are not self-locking.

Running-in period

The tooth flanks on new helical worm gearboxes will not yet be fully smoothed, meaning that the friction angle will be greater and efficiency lower during the running-in period. The higher the transmission ratio, the more pronounced the effect.

The running-in process should take approximately 24 hours of operation at full load. In most cases, the catalog values will then be reached.

Self-locking with worm gearboxes

In respect of restoring torques on worm gearboxes, the efficiency is considerably reduced in comparison to standard efficiency. The restoring efficiency can be calculated as follows: $\eta' = 2 - 1/\eta$. At a standard efficiency of $\eta \leq 0.5$, worm gearboxes are usually self-locking, which is determined by the particular lead angle of the worm gear teeth.
Self-locking only occurs with certain combinations of SIMOGEAR gearboxes and is not always of benefit, as the associated loss of efficiency is then relatively high, which in turn requires increased motor power.

A worm gearbox is "self-locking while stationary" (static self-locking), if it is not possible to start from stationary when the worm wheel is driving.
A worm gearbox is "self-braking while running" (dynamic self-locking), if it is not possible to continue running when the worm wheel is driving while the gearbox is running – that is, if the running gearbox comes to a stop while the worm wheel is driving.

Shocks can neutralize self-locking.
A self-locking gearbox is therefore no substitute for a brake or backstop. If you want to use the self-locking braking effect for a technical purpose, please contact us.

Efficiency optimization

As a result of the large range of transmission ratios, in many cases, instead of a 3-stage gearbox, a 2-stage SIMOGEAR gearbox can be used.

This means that the efficiency is improved by approximately 2 % when compared to conventional drives.

Further, the efficiency can be improved by optimizing the mounting position and the input speed.

Splashing losses

For certain gearbox types of construction, the first stage can be completely immersed in the gearbox oil. In the case of large gearboxes with a high input speed, particularly with vertical mounting positions, this may lead to increased splashing losses, which cannot be neglected.

If you wish to use gearboxes such as these, then please contact Siemens. If at all possible, you should choose horizontal types of construction in order to keep splashing losses to a minimum.

2

Service factor

The service factor f_B is a safety factor for the gearboxes that takes the operating conditions of the drive into account.

The following applies to selecting a suitable drive:

$f_B \geq f_{Breq}$

The gearbox size or rated gearbox torque and the resulting service factor are not standardized and depend on the manufacturer.

Service factor (f_B)

The service factor is calculated from the drive data you selected and can be obtained from the DT Configurator.

Determining the required service factor (f_{Breq})

In standard operation, i.e. with a uniform load provided by the driven machine, small masses to be accelerated, and a low number of switching operations, the service factor of $f_{Breq} = 1$ can be selected.

For operating conditions that deviate from this, the required service factor must be calculated by the following formulas.

For helical, parallel shaft and bevel gearboxes

$f_{Breq} = f_{B1} \cdot f_{BT}$

For helical worm gearboxes

$f_{Breq} = f_{B1} \cdot f_{B2} \cdot f_{BT}$

Determining the service factor for a driven machine (f_{B1})

The service factor of the driven machine f_{B1} is determined from the load classification, switching frequency, and operating period per day.

Load groups of driven machines

Load classification	**Mass acceleration factor (m_{BF})**	**Driven machine** (examples)
I Almost shock-free	≤ 0.3	Electric generators, belt conveyors, apron conveyors, screw conveyors, lightweight elevators, electric hoists, machine tool feed drives, turbo blowers, centrifugal compressors, mixers and agitators when mixing materials with uniform density
II Moderate shock loads	≤ 3	Machine tool main drives, heavy elevators, slewing gear, cranes, shaft ventilators, mixers and agitators when mixing materials with non-uniform densities, reciprocating pumps with multiple cylinders, metering pumps
III Heavy shock loads	≤ 10	Punching presses, shears, rubber kneaders, machinery used in rolling mills and the iron and steel industry, mechanical shovels, heavy centrifuges, heavyweight metering pumps, rotary drilling rigs, briquetting presses, pug mills

Mass acceleration factor (m_{BF})

The mass acceleration factor m_{BF} is calculated as follows:

$$m_{BF} = \frac{J_x}{(J_{mot} + J_B + J_Z)}$$

All external moments of inertia are moments of inertia of the driven machine and the gearbox, which are to be reduced to the motor speed.

The calculation is made using the following formula:

$$J_X = J_2 \cdot \left(\frac{n_2}{n_1}\right)^2 = \frac{J_2}{(i)^2}$$

In most cases the relatively insignificant moment of inertia of the gearbox can be ignored.
The mass acceleration factor m_{BF} is calculated as follows with reference to the gearbox and the adapter:

$$m_{BF} = \frac{J_x + J_G + J_{AD}}{(J_{mot} + J_B + J_Z)}$$

Code	Description	Unit
f_B	Service factor	-
f_{B1}	Service factor "driven machine"	-
f_{B2}	Service factor "short-time duty"	-
f_{Breq}	Required service factor	-
f_{BT}	Service factor "ambient temperature"	-
i	Transmission ratio	-
J_2	Moment of inertia of the load referred to the output speed of the gearbox	kgm²
J_{AD}	Moment of inertia of the adapter referred to the input speed	kgm²
J_B	Moment of inertia of the brake	kgm²
J_G	Moment of inertia of the gearbox referred to the input speed	kgm²
J_{mot}	Moment of inertia of the motor	kgm²
J_X	Moment of inertia of the load referred to the input speed	kgm²
J_Z	Additional moment of inertia of a high inertia fan	kgm²
m_{BF}	Mass acceleration factor	-
n_1	Input speed of the gearbox	rpm
n_2	Output speed of the gearbox	rpm

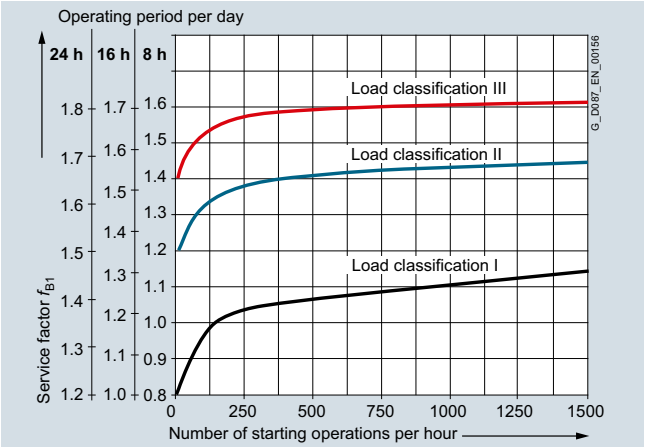


Fig. 2/1 Service factor f_{B1}

Service factor (continued)

Determining the service factor for the ambient temperature (f_{BT})

If the drive warms up to an operating temperature above -20 °C at max. 70 % load, f_{BT} =1 can be set.

For helical, parallel shaft and bevel gearboxes

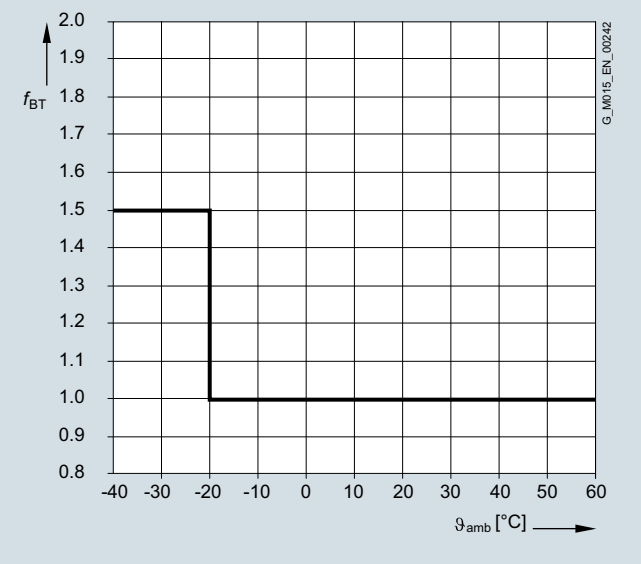


Fig. 2/1 Service factor "ambient temperature"

For helical worm gearboxes

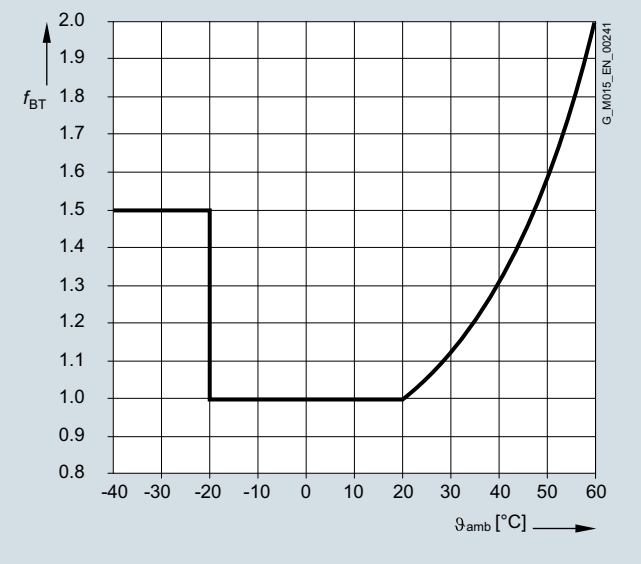


Fig. 2/2 Service factor "ambient temperature" for worm gearboxes

Determining the service factor for short-time duty (f_{B2})

For helical worm gearboxes

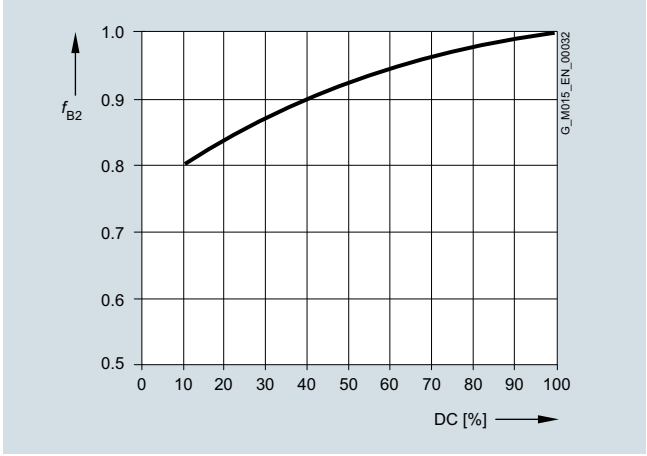


Fig. 2/3 Service factor "short-time duty"

Note:

When selecting and dimensioning drives with the following special application conditions, please contact Siemens:

- Frequent reversing
- Short time and intermittent operation
- Abnormal temperatures
- Reversal braking
- Extreme and/or circulating radial forces at the gearbox output shaft
- Fluctuating loads

Required torque

Once the load situation (drive data) and the service factor have been clarified, then the required output torque can be determined.

$$T_2 = \frac{P_{mot} \cdot 9550}{n_1 / (i \cdot \eta)} = \frac{P_{mot} \cdot 9550}{n_2} \cdot \eta$$

Code	Description	Unit
η	Gearbox efficiency	%
i	Transmission ratio	-
n_1	Input speed of the gearbox	rpm
n_2	Output speed of the gearbox	rpm
P_{mot}	Motor power	kW
T_2	Required output torque of the driven machine	Nm

Input speed

For an identical power and output speed, in the selection tables 4-pole geared motors have priority over 6-pole motors.

As result of the very wide range of transmission ratios of SIMOGEAR gearboxes, it is hardly necessary to use motors with other pole numbers. In addition to the good availability worldwide, 4-pole motors generally offer the optimum solution regarding price, length, noise level and service life.

Further, from the modular system, motors with other pole numbers can be mounted. As a consequence, the following special combinations can be implemented:

- Extremely high output speeds (2-pole motors)
- Extremely low output speeds (8-pole motors)
- Lower noise solutions (6-pole or 8-pole motors)

For inverter operation, the gearboxes are driven at variable speeds.
When configuring the system, we recommend that the maximum input speed in continuous operation is maintained, wherever possible, at 1 500 rpm.

At higher motor speeds above 1 500 rpm you will generally experience higher than average noise levels and a lower than average bearing service life. This depends to a large extent on the transmission ratio and gearbox size in question.
Furthermore, higher speeds additionally influence the thermal properties of the gearbox and service intervals.

Tandem gearboxes

An additional helical gearbox is mounted in front of the main gearbox on tandem gearboxes, allowing the gear to generate very low output speeds.

The SIMOGEAR product portfolio includes four-stage, five-stage and six-stage gearboxes.

When a gearbox version with low output speeds is selected, additional checks may need to be carried out when the gearbox is configured.

Checking the maximum motor power

The maximum motor power P_{rated} connected to the gearbox must be reduced according to the maximum output torque at the gearbox T_{2N}. For this purpose, the maximum permissible motor torque T_{1max} must be calculated and the relevant motor current value then determined.

Protective measures

The following precautions must be taken in order to ensure that the continuous power consumption of the motor never exceeds the calculated maximum motor torque T_{1max}:

- Line operation:
  Set the tripping current of the motor circuit breaker to this current value.
- Inverter operation:
  Limit the output current of the inverter according to the calculated motor current.

Brake motors

The braking torque T_{br} must be limited according to the maximum permissible motor torque T_{1max} for tandem geared motors with a brake. In this case, the maximum permissible braking torque corresponds to twice the value of the motor torque. Please contact Siemens for advice about higher switching frequencies.

$T_{brmax} = 2 \times T_{1max}$

Preventing gearbox blockage

Tandem gearboxes must be protected against blockage at the output end. Blockage can result in indeterminable torques and shaft loads and cause irreparable damage to the gearbox. If the risk of blockage cannot be eliminated, you can install friction clutches, for example.

Code	Description	Unit
P_{rated}	Rated motor power	kW
T_{1max}	Maximum permissible motor torque	Nm
T_{2N}	Maximum output torque of the gearbox	Nm
T_{brmax}	Maximum braking torque	Nm

Gearbox fastening

Gearboxes and geared motors are normally secured by bolts of grade 8.8.

When the largest possible motor frame size is attached to the gearbox and with a higher load classification, elevated levels of vibration and/or smaller service factors, further measures need to be taken for flange-mounted designs of gearboxes and geared motors.

We recommend that you consider the following possibilities:

- Selection of a larger output flange
- Use of bolts of grade 10.9
- Use of an anaerobic adhesive to improve the friction lock between the gearbox and the mounting surface

Recommended bolt quality for DZ/ZZ and DF/ZF:

Helical gearboxes DZ/ZZ and DF/ZF with the smallest available output flanges must be bolted to the mounting surface with bolts of grade 10.9 (see table).

Gearbox type		Flange	Strength class of bolt/nut
DZ/ZZ29	DF/ZF29	A120	10.9 [1]
DZ/ZZ39	DF/ZF39	A120	10.9 [1]
DZ/ZZ49	DF/ZF49	A140	10.9
DZ/ZZ59	DF/ZF59	A160	10.9
DZ/ZZ69	DF/ZF69	A200	10.9
DZ/ZZ79	DF/ZF79	A250	10.9
DZ/ZZ89	DF/ZF89	A300	10.9
DZ/ZZ109	DF/ZF109	A350	10.9
DZ/ZZ129	DF/ZF129	A350	10.9
DZ/ZZ149	DF/ZF149	A450	10.9
DZ/ZZ169	DF/ZF169	A450	10.9
DZ/ZZ189	DF/ZF189	A550	10.9

[1] Use suitable washers underneath the bolt head

Recommended bolt quality for FF/FAF and KF/KAF:

Parallel shaft gearboxes FF/FAF and bevel gearboxes KF/KAF in combination with larger motors must be bolted to the mounting surface with bolts of grade 10.9 (see table).

Gearbox type		Flange	Motor frame size											
			63	71	80	90	100	112	132	160	180	200	225	250
FF/FAF39	KF/KAF39	A160	8.8	8.8	8.8	10.9	10.9							
FF/FAF49	KF/KAF49	A200	8.8	8.8	8.8	8.8	10.9	10.9						
FF/FAF69	KF/KAF69	A250	8.8	8.8	8.8	8.8	8.8	8.8	10.9					
FF/FAF79	KF/KAF79	A250	8.8	8.8	8.8	8.8	8.8	8.8	10.9					
FF/FAF89	KF/KAF89	A300		8.8	8.8	8.8	8.8	10.9	10.9	10.9				
FF/FAF109	KF/KAF109	A350			8.8	8.8	8.8	8.8	8.8	10.9	10.9			
FF/FAF129	KF/KAF129	A450				8.8	8.8	8.8	8.8	8.8	8.8	8.8		
FF/FAF149	KF/KAF149	A450				8.8	8.8	8.8	8.8	8.8	8.8	10.9	10.9	10.9
FF/FAF169	KF/KAF169	A550					8.8	8.8	8.8	8.8	10.9	10.9	10.9	10.9
FF/FAF189	KF/KAF189	A660						8.8	8.8	8.8	8.8	8.8	8.8	10.9

Shaft load and bearing service life

Available radial force

The radial forces either come from the driven machine (mixer, hoisting gear) or they are caused by the transmission elements.

The available radial force F_{Ravail} at the output shaft is obtained as follows:

- The required geared motor output torque T_2
- Average diameter of the mounted transmission element d_0
- Transmission element type, e.g. chain wheel
- Ambient temperature

The transmission element type determines the additional factor C.

The ambient temperature determines the additional factor T.

$$F_{Ravail} = 2000 \cdot \frac{T_2}{d_0} \cdot C \cdot T$$

Additional factor C for the transmission element type

Transmission element	Explanation	Additional factor *C*
Gear wheel	> 17 teeth	1.00
	≤ 17 teeth	1.15
Chain wheel	≥ 20 teeth	1.00
	14 ... 19 teeth	1.25
	≤ 13 teeth	1.40
Toothed belts	Preloading force	1.50
V-belts	Preloading force	2.00
Flat belts	Preloading force	2.50
Agitator/mixer	Rotating radial force	2.50

Additional factor T for ambient temperature

Temperature range	Low-temperature factor *T*
-20 °C ... +60 °C	1.0
-21 °C ... -40 °C	1.5

Shaft load and bearing service life (continued)

Permissible radial force

The permissible radial force F_{R2} is determined by the required bearing service life, among other things. The nominal service life L_{h10} is determined in accordance with ISO 281. Normally, calculating the nominal bearing service life is completely adequate.

The bearing service life can be calculated for special operating conditions and in special cases on request, based on the modified service life L_{na}.

The selection tables specify the permissible radial force F_{R2} for the output shafts of foot-mounted gearboxes with solid shaft. These table values refer to the force application point at the center of the shaft extension and are minimum values, which apply under the most unfavorable conditions (force application angle, mounting position, direction of rotation).

If the values in the table are not sufficient, or if other gearbox designs are being used, please contact Siemens.

Permissible axial force

If no radial force is present, then max. 50 % of the permissible radial force can be applied as a permissible axial force F_{ax} (tension or compression).

Higher permissible radial and axial force

The permissible radial force load can be increased, taking the force application angle α and the direction of rotation into account. Installing reinforced bearings also means that higher loads are permitted on the output shaft.

If higher radial or axial forces or combined loads comprising radial and axial forces occur, then please contact Siemens.

Note:
Bevel gearboxes B and K and helical worm gearboxes C in type of construction M1 with foot mounting on the face side:
A maximum of 50 % of the radial force F_{R2} specified in the tables is permissible.

Helical geared motors ZB and DB in foot/flange-mounted designs:
When transmitting torque through the flange surface, a maximum of 50 % of the radial force F_{R2} specified in the tables is permissible.

Variables for defining shaft load and bearing service life

Code	Description	Unit
α	Force application angle	°
a	Gearbox constant	kNmm
b, d, l, y, z	Gearbox constants	mm
C	Additional factor to calculate the radial force	-
d_0	Average diameter of the mounted transmission element	mm
F_{ax}	Permissible axial force	N
F_x	Permissible radial force from out of center force application point	N
F_{xperm1}	Permissible radial force, limited by the bearing service life, at a distance of x from the shaft shoulder	N
F_{xperm2}	Permissible radial force, limited by the shaft strength, at a distance of x from the shaft shoulder	N
F_{Ravail}	Available radial force from the mounted transmission element	N
F_{R2}	Permissible radial force at the center of shaft extension (l/2)	N
L_{h10}	Nominal service life	h
L_{na}	Modified service life	h
T	Additional factor for ambient temperature	-
T_2	Geared motor output torque	Nm
x	Distance from the shaft shoulder up to the point where force is applied	mm

Definition of the point of application of radial and axial forces

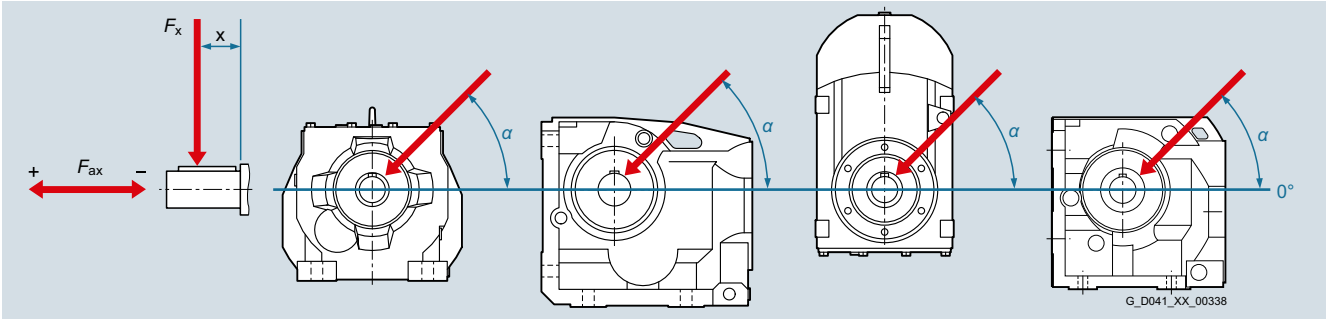


Fig. 2/2 Diagram showing force application point

Shaft load and bearing service life (continued)

Radial force calculation with eccentric force impact

If the force is not applied at the center of the shaft extension, the permissible radial force must be calculated using the following formula.

The lower value of F_{xperm1} (bearing service life) and F_{xperm2} (strength) is the permissible radial force. The calculation is applicable without axial force.

Permissible radial force according to the bearing service life

$$F_{xperm1} = F_{R2} \cdot \frac{y}{(z + x)}$$

Permissible radial force according to the shaft strength

$$F_{xperm2} = \frac{a}{(b + x)}$$

Gearbox constants for calculating the radial force

Gearbox size	Constants					
	y	z	a	b	d	l
	mm	mm	kNmm	mm	mm	mm
Helical gearboxes Z and D						
19	91	71	52.8	12	20	40
29	104	79	137	12	25	50
39	116	91	109	0	25	50
49	138	108	260	15	30	60
59	143.5	108.5	414	19	35	70
69	169	134	385	0	35	70
79	172.5	132.5	536	0	40	80
89	212.5	162.5	929	0	50	100
109	250	190	1 212	0	60	120
129	297	227	2 051	0	70	140
149	319	234	4 930	0	90	170
169	398	293	7 350	0	110	210
189	469	364	11 235	0	120	210
Helical gearbox E						
39	99.5	79.5	60	0	20	40
49	119.0	94.0	100	0	25	50
69	139.6	109.6	183	0	30	60
89	154.4	114.4	320	0	40	80
109	183.4	133.4	525	0	50	100
129	189.4	129.4	810	0	60	120
149	213.6	143.6	1 120	0	70	140
Parallel shaft gearbox F						
29	108.5	83.5	159	0	25	50
39	123.5	98.5	146	0	25	50
49	154.5	124.5	239	0	30	60
69	175	140	378	0	35	70
79	191	151	544	0	40	80
89	226	176	884	0	50	100
109	256	196	1 500	0	60	120
129	324	254	2 625	0	70	140
149	385	300	5 525	0	90	170
169	460	355	7 728	0	110	210
189	538	433	11 655	0	120	210
Bevel gearbox B						
19	97.5	77.5	38	0	20	40
29	117	97	83	0	20	40
39	143.5	113.5	209	0	30	60
49	175	140	392	0	35	70

Shaft load and bearing service life (continued)

Gearbox constants for calculating the radial force

Gearbox size	Constants					
	y	z	a	b	d	l
	mm	mm	kNmm	mm	mm	mm
Bevel gearbox K						
39	123.5	98.5	152	0	25	50
49	154.5	124.5	235	0	30	60
69	175	140	378	0	35	70
79	191	151	556	0	40	80
89	226	176	916	0	50	100
109	256	196	1 470	0	60	120
129	324	254	2 800	0	70	140
149	385	300	5 525	0	90	170
169	459.5	354.5	7 350	0	110	210
189	538	433	10 920	0	120	210
Helical worm gearbox C						
29	117.5	97.5	84	0	20	40
39	123.5	98.5	157	0	25	50
49	154.5	124.5	236	0	30	60
69	171.5	136.5	410	0	35	70
89	220.0	175.0	736	0	45	90

Determining the duty type

The power ratings for continuous duty with constant load (duty type S1) are listed in the power tables. The motor power ratings listed in the catalog can be converted to the lower duty cycle using the corresponding k_{DC} factors for S1, S2, and S3 duty types.

$$P_{DC} = P_{rated} \cdot k_{DC}$$

Code	Description	Unit
P_{DC}	Power for the new duty cycle	kW
P_{rated}	Rated motor power	kW
k_{DC}	Factor for increased power	-

For increased power, you should note that the breakdown torque ratio must not fall below 1.6. This same regulation applies when differentiating between the following groups of duty types:

Duty types according to EN 60034-1 (IEC 60034-1)

Duty type	Description	Information required		Factor for increased power k_{DC}
S1	Continuous duty Cyclic duration factor = 100 %	-	-	-
S2	Constant load for a brief time, e.g. S2 - 30 min	Load duration	60 min	1.10
			30 min	1.20
			10 min	1.40
S3	Intermittent periodic duty, where starting has no significant influence (cyclic operation), e.g. S3 - 40 %	Cyclic duration factor in % (referred to 10 min)	60 %	1.10
			40 %	1.15
			25 %	1.30
			15 %	1.40
S4 … S10	Intermittent periodic duty with the influence of starting	Cyclic duration factor in % (referred to 10 min), starts per hour, load torque, and moment of inertia The duty type and motor power can be determined if the number of starting operations per hour, starting time, load duration, type of braking, braking time, idle time, cycle time, standstill time, and required power are specified.	On request	-

Operating modes

S1

Continuous duty with constant load

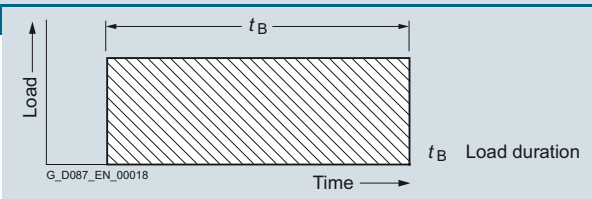


Fig. 2/5 Duty type S1

Where starting and electrical braking do not affect the stator winding temperature rise:

S2

Short-time duty

Recommendation: Operating times 10, 30, 60, and 90 minutes

After each period of duty the motor remains at zero current until the winding has cooled down to the coolant temperature.

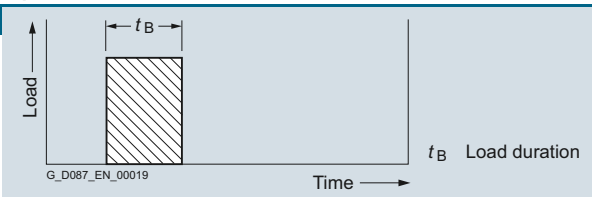


Fig. 2/6 Duty type S2

Determining the duty type (continued)

Operating modes

Where starting and electrical braking do not affect the stator winding temperature rise:

S3

Intermittent duty

Where starting does not affect the temperature. Unless specified otherwise, the duty cycle time is 10 minutes. Values of 15 %, 25 %, 40 %, and 60 % are recommended for the cyclic duration factor.

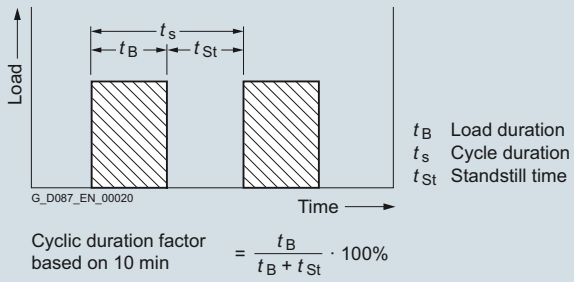


Fig. 2/7 Duty type S3

S6

Continuous duty with intermittent load

The cycle duration, if nothing else has been agreed, is 10 minutes. Values of 15 %, 25 %, 40 %, and 60 % are recommended for the load duration factor.

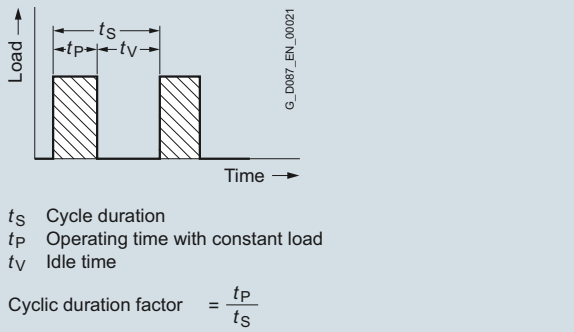


Fig. 2/8 Duty type S6

S10

Operation with discrete constant loads

In this case, a maximum of four discrete loads are available, where each load results in the thermal steady state. For this duty type, a load of the same value as the one used for the S1 duty type should be selected.

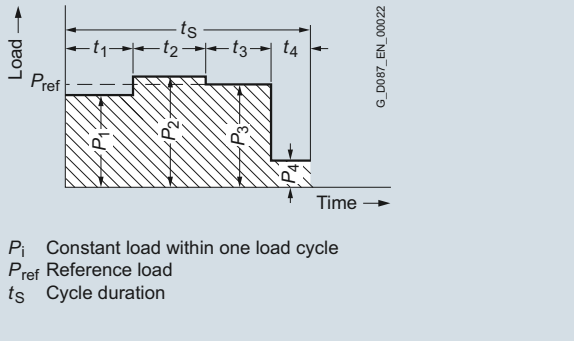


Fig. 2/9 Duty type S10

Starting and braking influence the temperature rise of the stator winding and the rotor cage:

S4

Intermittent duty where starting influences the temperature

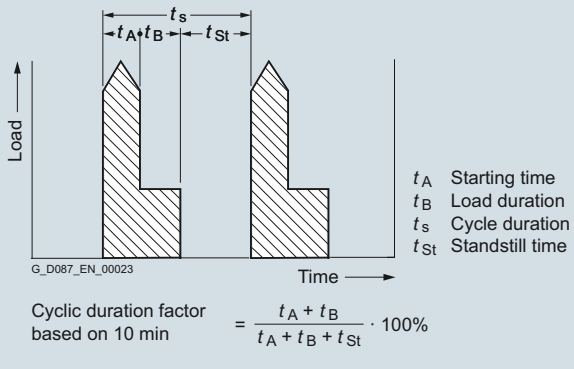


Fig. 2/10 Duty type S4

Determining the duty type (continued)

Duty types (continued)

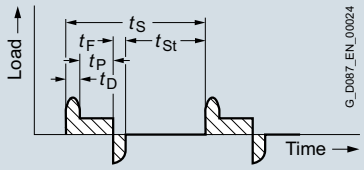
Starting and braking influence the temperature rise of the stator winding and the rotor cage:

S5

Intermittent duty where starting and braking influences the temperature

For the **S4** and **S5 duty types**, this code should be followed by the cyclic duration factor, the moment of inertia of the motor (J_{mot}), and the moment of inertia of the load (J_x), both referred to the motor shaft.

The cycle duration, if nothing else has been agreed, is 10 minutes. Values of 15 %, 25 %, 40 %, and 60 % are recommended for the cyclic duration factor.



t_S Cycle duration
t_D Starting time
t_P Operating time with constant load
t_F Time with electrical braking
t_{St} Standstill time with windings at zero current

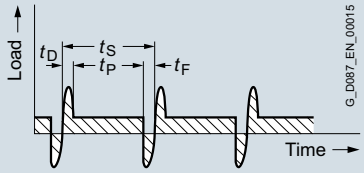
Cyclic duration factor $= \frac{t_D + t_P + t_F}{t_S}$

Fig. 2/11 Duty type S5

S7

Continuous duty with starting and braking

For S7 and S8 duty types, the moment of inertia of the load (J_x) referred to the motor shaft must be known.



t_S Cycle duration
t_D Starting time
t_P Operating time with constant load
t_F Time with electrical braking

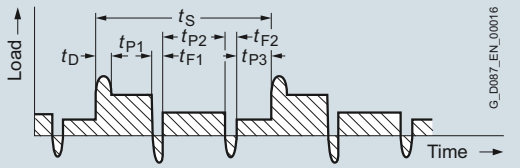
Cyclic duration factor = 1

Fig. 2/12 Duty type S7

S8

Continuous duty with non-periodic load and speed changes (inverter operation)

Most of the intermittent operating conditions occurring in practice are a combination of the above mentioned duty types. All of the operating conditions must be known in order to precisely determine a suitable motor.



t_S Cycle duration
t_D Starting time
t_P Operating time with constant load (P1, P2, P3)
t_F Time with electrical braking (F1, F2)

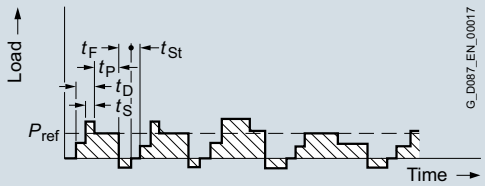
Cyclic duration factor $= \frac{t_D + t_{P1}}{t_S} \cdot \frac{t_{F1} + t_{P2}}{t_S} \cdot \frac{t_{F2} + t_{P3}}{t_S}$

Fig. 2/13 Duty type S8

S9

Continuous duty with non-periodic load and speed changes (inverter operation)

Most of the intermittent operating conditions occurring in practice are a combination of the above mentioned duty types. All of the operating conditions must be known in order to precisely determine a suitable motor.



t_D Starting time
t_P Operating time with constant load
t_F Time with electrical braking
t_{St} Standstill time with windings at zero current
t_S Time with overload

Fig. 2/14 Duty type S9

2

Number of starting operations

A higher number of starting operations means that the motor winding will be subject to a thermal load.

The permissible switching frequency Z_{perm} has to be determined for different operating cases.

This value is influenced by the corresponding load torque, the additional moment of inertia, the power requirement, and the cyclic duration factor. These can be evaluated using the factors k_M, k_{FI}, and k_P.

For 60 Hz operation, the calculated permissible switching frequency Z_{perm} must be reduced by 25 %. See the technical specifications for brakes in chapter 9 for the permissible switching frequency for operation with function rectifiers.

The permissible no-load switching frequency Z_A for motors with brake L must be obtained from table „No-load switching frequency for brakes L“ on page 9/34.

$Z_{perm} = Z_A \cdot k_M \cdot k_{FI} \cdot k_P$

The permissible no-load switching frequency Z_0 for motors without brakes must be obtained from the Selection and ordering data page 7/12.

$Z_{perm} = Z_0 \cdot k_M \cdot k_{FI} \cdot k_P$

Code	Description	Unit
DC	Cyclic duration factor	%
J_{mot}	Moment of inertia of motor and brake	kgm^2
J_Z	Additional moment of inertia of a high inertia fan	kgm^2
J_X	Reduced moment of inertia on motor shaft	kgm^2
J_{add}	Additional moment of inertia	kgm^2
k_{FI}	Factor for taking into account the additional moment of inertia	-
k_M	Factor for taking into account the load torque while accelerating	-
k_P	Factor for taking into account the required power and duty cycle	-
P_S	Actual steady-state motor power	kW
P_{rated}	Rated motor power	kW
T_A	Acceleration torque of the motor	Nm
T_{rated}	Rated motor torque	Nm
T_x	Reduced load torque	Nm
t_R	Duty cycle (decimal)	
Z_A	No-load switching frequency, motor with brake	1/h
Z_0	No-load switching frequency, motor without brake	1/h
Z_{perm}	Permissible switching frequency	1/h

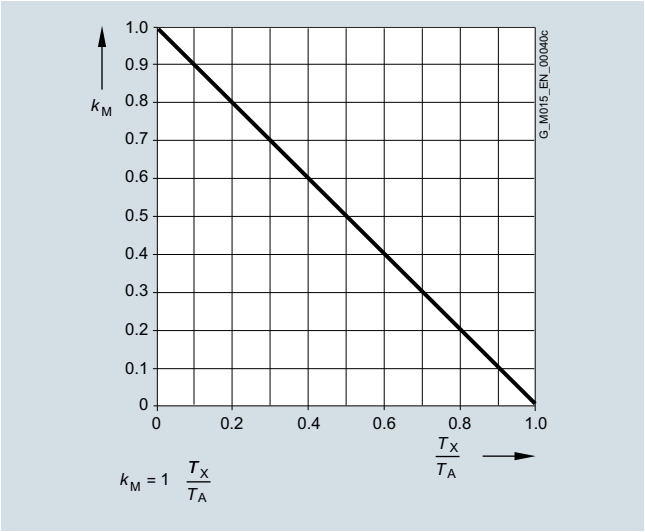


Fig. 2/15 Torque when accelerating

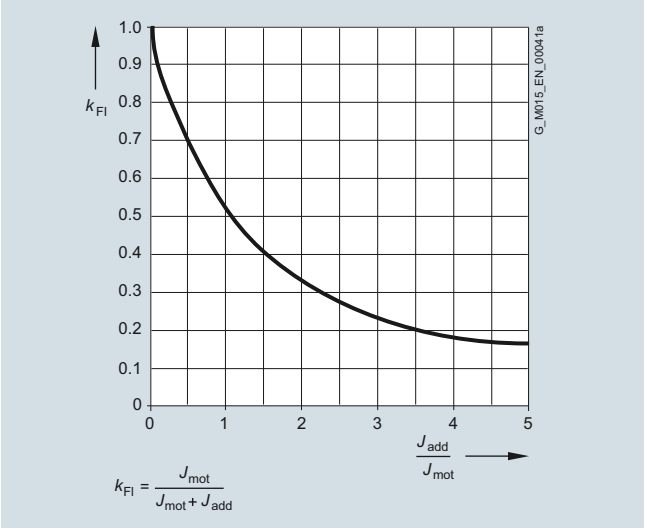


Fig. 2/16 Additional moment of inertia

$J_{add} = J_X + J_Z$

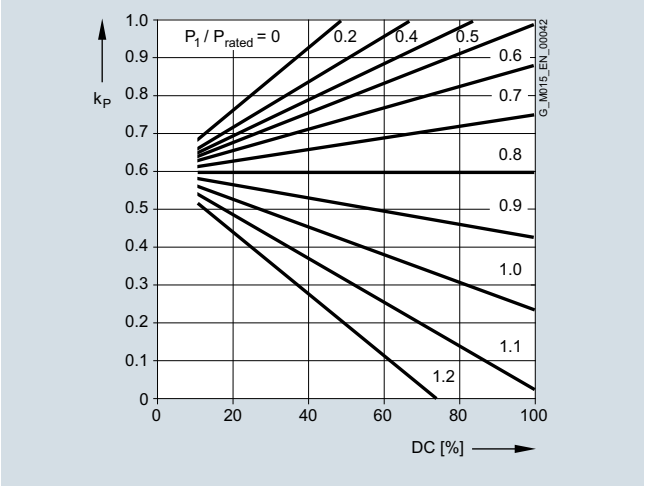


Fig. 2/17 Power requirement and duty cycle

$k_P = t_R \cdot (1 - (P_S / P_{rated})^2) + 0.6 \cdot (1 - t_R) + 0.24 \cdot t_R$

Additional moments of inertia

The motor moment of inertia with standard fan is specified in the motor selection lists. The higher moment of inertia should be used for metal or high-inertia fans. This is also valid for mounted brakes, backstops and encoder systems.

Line feeder cables

Line feeder cables must be adequately dimensioned. The number of required parallel (if applicable) feeder cables is determined by the maximum connectable conductor cross-section, the type of cable, the cable installation, the ambient temperature and the permissible current. In Germany, DIN VDE 0298 must be applied when dimensioning cables.

Undervoltage

For an undervoltage condition as a result of weak line supplies, catalog values such as motor power, torque and speed are not reached. This is especially important when considering motor starting.

Motor protection

A distinction is made between current-dependent and temperature-dependent protective devices for motors.

Current-dependent protective devices

Fuses are only used to protect line cables in the event of a short-circuit. They are not suitable for protecting the motor against overload. The motors are usually protected by thermally-delayed overload protective devices (circuit breakers for motor protection or overload relays).

This protection is current-dependent and is particularly effective in the case of a locked rotor. For normal operation with short starting operations, starting currents that are not excessive and for low numbers of starting operations, motor circuit breakers provide adequate protection. Motor circuit breakers are not suitable for heavy duty starting or high numbers of starting operations. Differences in the thermal time constants for the protective devices and the motor results in unnecessary early tripping when the circuit breaker is set to the rated current.

Temperature-dependent protective devices

Temperature-dependent protective devices are integrated in the motor winding and can be implemented as **temperature sensors** and **temperature switches**.

The number of temperature-dependent protective devices depends on the number of windings and their function.

The alarm is normally set to 10 K below the switch-off temperature. The rated response temperatures of the protective devices depend on the thermal class of the motors.

In order to achieve full thermal protection it is necessary to combine a thermally-delayed overcurrent release and a PTC thermistor.

Coolant temperature and installation altitude

The rated power specified in the selection tables in chapter 7 is valid for a coolant temperature of +40 °C and an installation altitude of 1 000 m above sea level.

Please contact Siemens for higher coolant temperatures.

The table with correction factors provides a rough idea of the derating required if conditions are different.

This results in a permissible motor power of:

$$P_{perm} = P_{rated} \cdot k_{HT}$$

Code	Description	Unit
P_{perm}	Permissible motor power	kW
P_{rated}	Rated motor power	kW
k_{HT}	Factor for abnormal coolant temperature and installation altitude	-

Factor k_{HT} for different installation altitude and coolant temperature

Installation altitude	**Coolant temperature**					
SA	**CT**					
m	< +30 °C	+30…+40 °C	+45 °C	+50 °C	+55 °C	+60 °C
1 000	1.07	1.00	0.96	0.92	0.87	0.82
1 500	1.04	0.97	0.93	0.89	0.84	0.79
2 000	1.00	0.94	0.90	0.86	0.82	0.77
2 500	0.96	0.90	0.86	0.83	0.78	0.74
3 000	0.92	0.86	0.82	0.79	0.75	0.70
3 500	0.88	0.82	0.79	0.75	0.71	0.67
4 000	0.82	0.77	0.74	0.71	0.67	0.63

Degrees of protection

The motors are supplied in IP55 to standard IEC 60034-5. They can be installed in dusty or humid environments. The motors are suitable for operation in tropical climates. Guide value below 60 % relative air humidity for a coolant temperature of +40 °C.

Other requirements on request.

First digit	Brief description	Second digit	Brief description
4	The motor is protected against solid objects larger than 1 mm.	**4**	The motor is protected against water splashed from all sides.
5	The motor is protected against dust.	**5**	The motor is protected against strong jets of water
6	The machine is dust-tight.	**6**	The motor is protected against "heavy seas" or powerful jets of water.
		7	The motor is protected against immersion
		8	The motor is protected against long periods of immersion under pressure.

The first digit of the degree of protection indicates the degree to which an enclosure provides protection against contact and the ingress of foreign bodies.

The second digit indicates the protection that an enclosure offers regarding the ingress of water.

Increased corrosion protection as well as additional protective measures for the winding (protection against moisture and acid, corrosion protection in the motor) can support the selected degree of protection.

The degree of protection only refers to the motor. When selecting higher degrees of protection, the equipping on the gearbox side should be taken into account (seals, vents).

Cooling and ventilation

When the geared motor is mounted and the air intake is restricted, you must ensure that a minimum clearance is maintained between the fan cover and the wall and that the cooling air is not immediately drawn in again.

Further, it must be guaranteed that the cooling air flow to the gearbox is not obstructed. As a consequence, the gearbox operating temperature can be further reduced.

Forced ventilation

The use of a separately driven fan is recommended to increase motor utilization at low speeds and to limit noise generation at speeds significantly higher than the synchronous speed. Both are mainly used in conjunction with inverter operation.

Typical areas of application for forced ventilation:

- High number of starting operations
- Inverter drives with a control range > 1:20
- Inverter drives with rated torque at low speeds
- Noise reduction
- At high speeds

Overview

The brakes can be used as working brakes or holding brakes. A holding brake is suitable for holding masses and loads at a fixed position. A working brake is also capable of decelerating masses and loads.

The brakes are designed as fail-safe spring-operated brakes. When the brake is mounted, it increases the length of the motor. The dimensions are shown in the dimensional drawings. The spring-operated disk brakes are suitable for a standard ambient temperature range of -20 to +40 °C.

Variables

Code	Description	Unit
f_{br}	Braking torque correction factor	-
J_{AD}	Moment of inertia of the adapter	kgm²
J_G	Moment of inertia of the gearbox	kgm²
J_{mot}	Moment of inertia of the motor	kgm²
J_X	Moment of inertia of the load referred to the motor shaft	kgm²
J_Z	Additional moment of inertia of a high inertia fan	kgm²
k	Factor for taking into account operating conditions	-
L_{rated}	Service life of the brake lining until readjustment	h
$L_{ratedmax}$	Service life of the brake lining until replacement	h
n_{br}	Braking speed	rpm
η	Efficiency	%
Q_{perm}	Permissible operating energy	J
s_{br}	Braking distance	m
t_1	Application time of the brake	ms
t_{br}	Braking time	s
T_{br}	Rated braking torque	Nm
T_x	Reduced load torque	Nm
v	Travel velocity	m/s
W	Friction energy per braking operation	J
W_{tot}	Friction energy until the brake lining is replaced	MJ
W_V	Friction energy until the brake is readjusted	MJ
Z	Number of starting operations	1/h

Determining the braking torque

The braking torque must be selected in accordance with the particular drive application.
The following criteria are decisive when it comes to making the selection:

- Static safety
- Required braking time
- Permissible brake delay
- Possible braking distance
- Brake wear

The braking torque is determined using the safety factor k, which can be selected in the range from 1.0 to 2.5. As a general rule of thumb, the factor for horizontal motion is approx. 1.0 to 1.5 and for vertical motion approx. 2.0 to 2.5. However, the precise braking torque depends to a large extent on the particular operating conditions.

The rated braking torque is referred to a speed of n = 100 rpm and decreases with increasing motor speed. When calculating the braking torque, this is taken into account using the correction factor f_{br}. This means that the rated braking torque is applicable for most braking operations for inverter operation.

For line operation, braking is directly from the motor speed. In addition, for vertical conveyors, the increased speed when moving downwards must be taken into account.

$$T_{br} > T_x \cdot k \cdot f_{br}$$

Braking torques as a function of the speed and permissible speed limits

The braking torque available decreases with increasing motor speed.

The maximum permissible speeds from which emergency stops can be made are listed in the table on page 9/31. These speeds should be considered as guide values and must be checked for the specific operating conditions.

The maximum permissible friction energy depends on the switching frequency and is shown for individual brakes in the diagram "Permissible operating energy" on page 9/31. Increased wear can be expected when the brakes are used for emergency stops.

Braking energy per braking operation

The braking energy W per braking operation comprises the energy of the moments of inertia to be braked and the energy which must be applied in order to brake against a load torque:

T_x is positive if the load torque is working against the braking torque (horizontal motion, upward vertical motion).

T_x is negative if it supports the brake (downward vertical motion).

The permissible operating energy Q_{perm} must be checked against the relevant switching frequency using the diagram "Permissible operating energy" on page 9/31. This is of particular importance for emergency-stop circuits.

$$W = \frac{T_{br}}{T_{br} \pm T_x \cdot \eta} \cdot \frac{(J_G + J_{AD} + J_{mot} + J_z + J_x \cdot \eta) \cdot n_{br}^2}{182.5}$$

$$W < Q_{perm}$$

Service life of the brake lining

The service life of the brake lining L_{rated} until the air gap has to be readjusted depends on various factors. The main influencing factors include the masses to be braked, the motor speed, the number of starting operations, and, therefore, the temperature at the friction surfaces.

This means it is not possible to specify a value for the friction energy until readjustment that is valid for all operating conditions. However, a wear calculation can be made according to the friction energy, so that the service life can be defined in normal operation.

Brake service life

The brake lining is subject to wear as a result of friction. As a consequence, the air gap increases and the brake application time lengthens. The air gap can be readjusted. The friction lining should be replaced after a certain number of readjustments.

Service life of the brake lining until readjustment

$$L_{rated} = \frac{W_V}{W \cdot Z}$$

Service life of the brake lining until replacement

$$L_{ratedmax} = \frac{W_{tot}}{W \cdot Z}$$

Brake control

Definition of switching times (VDI 2241)

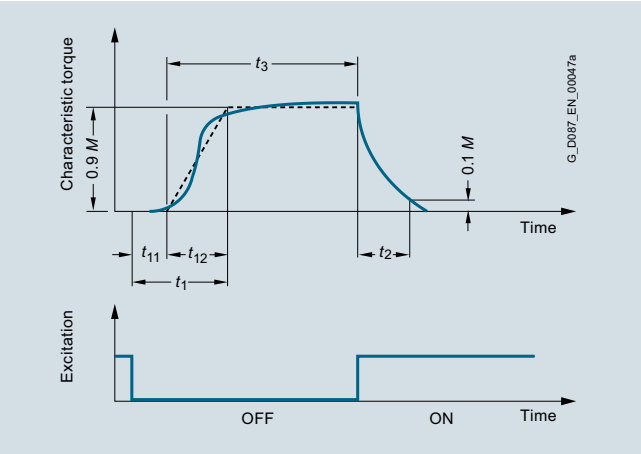


Fig. 2/18 Brake switching times

Switching times:

- t_1 Application time of the brake
- t_2 Disconnection time
- t_3 Slipping time
- t_{11} Response time
- t_{12} Rise time

Fast brake application

Disconnection on the AC side

If the brake is disconnected from the line supply, the brake is applied. With AC brake voltages, the brake application time is extended as a result of the inductance of the solenoid (disconnection on the AC side). This results in a considerable delay before the brake is mechanically applied. In order to achieve short brake application times, the circuit must also be disconnected on the DC side.

Rectifier for disconnection on the DC side

Electromagnetically released spring-operated disk brakes can be disconnected on the AC side and the DC side. Disconnection on the DC side means that the inductance and thus the magnetic field in the brake solenoid are reduced very quickly.

For disconnection on the DC side, a wire jumper can be removed from rectifier and replaced by the contacts of an external switch. This enables significantly shorter application times to be achieved than those achieved for disconnection on the AC side.

Function rectifiers for fast brake application

If function rectifiers are used for fast brake application, then there is no need for an external switch and therefore less wiring is required.

Disconnection on the DC side using current sensing

One option of disconnecting on the DC side is to sense the motor current. If the motor current falls below the rectifier's sensor current when disconnected from the three-phase line supply, the brake solenoid is disconnected from the DC voltage electronically without any contacts.

Used in conjunction with disconnection on the DC side by means of current sensing, rectifiers are generally suitable for being connected in parallel with the motor connection, even in applications involving moving loads or large moments of inertia.

Brakes controlled in this way are completely wired to the motor terminal board. Inverter operation is not permissible.

Disconnection on the DC side using voltage sensing

Another option of disconnecting on the DC side is by sensing the rectifier supply voltage.

An integrated switching transistor switches off the load if the input voltage falls below a specified switching threshold. Used in conjunction with disconnection on the DC side using voltage sensing, rectifiers are generally suitable for operation with separate AC-side brake control using an additional switching contact.

Connection in parallel with the motor connection is also possible, but it is not recommended, as the rectifier disconnection response will be impaired by the influence of the motor winding. In addition, many applications involve driving loads or large moments of inertia. This can cause the no-load voltage generated when the motor coasts down to considerably delay brake application if the switching threshold for voltage sensing is not fallen below.

If connection in parallel with the motor connection is nevertheless desired or required, disconnection on the DC side using current sensing is recommended.

Fast brake release

Function rectifiers for fast brake release

Rectifiers with overexcitation (high-speed excitation)

Rectifiers with overexcitation operate for approximately 300 ms ± 15 % with bridge rectification, i.e. when being released, the brakes are supplied with twice the rated solenoid voltage.
After this time the rectifiers automatically switch from bridge to half-wave rectification and the brakes are operated with the rated solenoid voltage. This results in shorter release times and higher brake switching frequencies. The friction lining wear is also reduced, the permissible friction energy until the air gap is re-adjusted increases, and starting losses are reduced.

Rectifiers with overexcitation are generally suitable for being connected in parallel to the motor connection or for a separate circuit in the case of inverter operation (note connection information for disconnection on the DC side).

Brake switching time

The total time it takes the motor to come to a standstill comprises the following times:

- Brake application time t_1
- Braking time t_{br}

The first is the time it takes the brake to reach 90 % of its braking torque. This time may be circuit- and control-dependent.
The braking time is determined as follows:

$$t_{br} = \frac{(J_G + J_{AD} + J_{mot} + J_z + J_x \cdot \eta) \cdot n_{br}}{9.55 \cdot (T_{br} \pm T_x \cdot \eta)}$$

If T_x supports the braking operation, T_x is positive; otherwise it is negative.

Braking distance and positioning accuracy

Braking distance s_{br} is the distance traveled by the driven machine during braking time t_{br} and application time t_1.

With linear motion, a positioning accuracy of between ± 12 % and ± 15 % can be assumed. However, this can be heavily influenced by the condition of the brake.

The formula below applies to horizontal motion and upward vertical motion.

$$s_{br} = v \cdot \left(\frac{t_1}{1000} + 0.5 \cdot t_{br}\right)$$

Cyclic duration factor

The cyclic duration factor DC is the ratio between the load duration and the cyclic duration. The cyclic duration is the sum of the ON times (operational periods) and the no-voltage periods.

$$DC = \frac{t_s}{t_s + t_O} \cdot 100$$

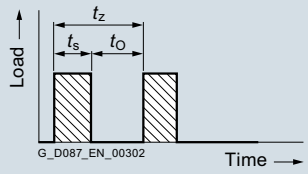


Fig. 2/19 Cyclic duration factor

Code	Description	Unit
DC	Cyclic duration factor	%
t_s	Close time (on-load factor)	s
t_O	Open time (off-load factor)	s
t_z	Cycle time (duty cycle time)	s

2

Incremental encoders

Incremental encoders are used to determine the position of rotor shafts and are used to approach a precisely defined angular position. This is achieved by photoelectrically scanning the graduation on an indexing disk. With incremental measuring methods, the graduation consists of a regular grid structure. The position information is obtained by counting the individual increments (measuring steps) from a set zero point. Since an absolute reference is required to determine positions, the indexing disks are provided with an additional track that has a reference mark. The absolute position determined by the reference mark is assigned exactly one measuring step. The reference mark must, therefore, be scanned before an absolute reference can be established or the last selected reference point found.

The incremental signals are transmitted as square-wave pulse train sequences U_{a1} (A) and U_{a2} (B), phase-shifted through 90° elec. The reference mark signal consists of a reference pulse U_{a0} (N), which is gated with the incremental signals. In addition, the integrated electronics generate inverse signals $\overline{U_{a1}}$ ($\overline{A}$), $\overline{U_{a2}}$ ($\overline{B}$), and $\overline{U_{a0}}$ ($\overline{N}$) for noise-proof transmission. The illustrated sequence of output signals – with U_{a2} lagging behind U_{a1} – applies for clockwise rotation of the motor.

The fault-detection signal $\overline{U_{aS}}$ indicates fault conditions such as breakage of the supply cables or failure of the light source, etc. It can be used to shut down machines in automated production environments.

The distance between two successive edges of the incremental signals U_{a1} and U_{a2} using 1-fold, 2-fold, or 4-fold evaluation is one measuring step.

The maximum permissible speed or travel velocity must never be exceeded, not even for a short time.

Incremental encoders are used with applications which require a precisely defined position to be approached/relocated. In the case of incremental encoders, the machine must travel to a reference point after each power-off state, as the position is not usually stored in the controller, and movements of the machine while the power is off are not recorded.

For the technical specifications of the incremental encoder, please refer to chapter "Motor options" on page 9/36.

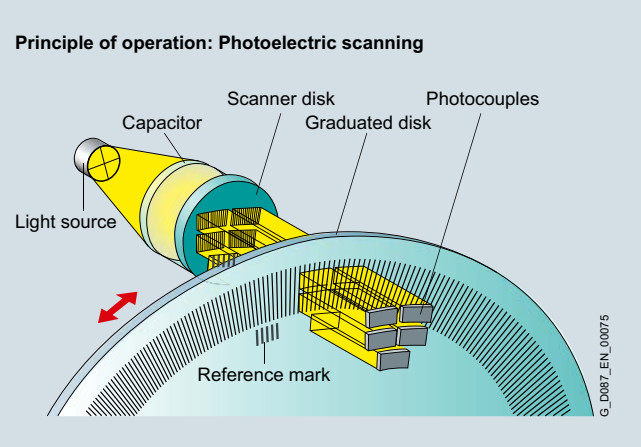


Fig. 2/20 Principle of operation, photoelectric scanning

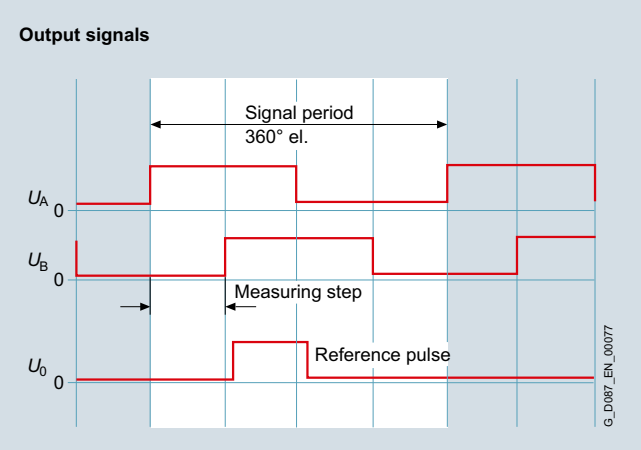


Fig. 2/21 Output signals

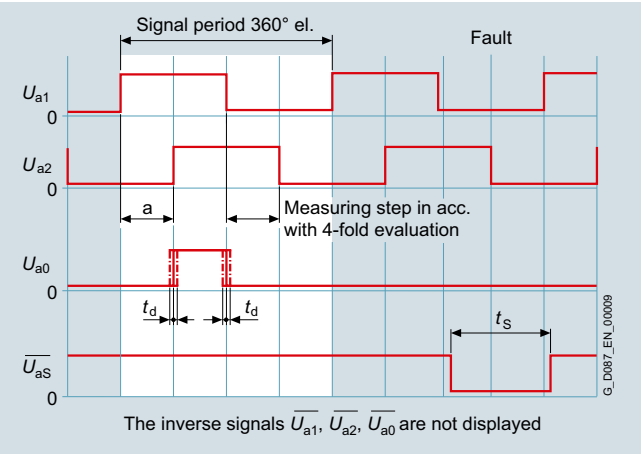


Fig. 2/22 Inverse output signals

Resolvers

Resolvers are rotary measuring systems where the angle of rotation is inductively sensed without contact. They operate with analog measured value acquisition, i.e. a measuring signal value can be continuously assigned to each value of the measured variable.

The method of operation mainly corresponds to that of a rotary transformer consisting of rotor and stator. If an AC voltage is applied to the stator winding, the magnetic flux created in the rotor winding induces an amplitude-modulated voltage of the same frequency.
The amplitude change over time is modulated by the angle-dependent change of the rotor. The envelope curve shows the respective angle. At the zero crossing of these envelope ends, the modulated voltage makes a phase step of 180° el.

In practice, resolvers with several stator windings are generally used. The voltage at the secondary winding continuously changes with the spatial angle in the phase position with regard to the voltage at one of the primary windings. A phase discriminator delivers a signal that is proportional to the angle of rotation.

Resolvers are used for applications which do not require such accurate position sensing as is possible with incremental encoders due to their higher resolution. They are used under harsh conditions regarding vibration, shock loads, and/or temperature.

For the technical specifications of the resolver, please refer to chapter "Motor options" on page 9/40.

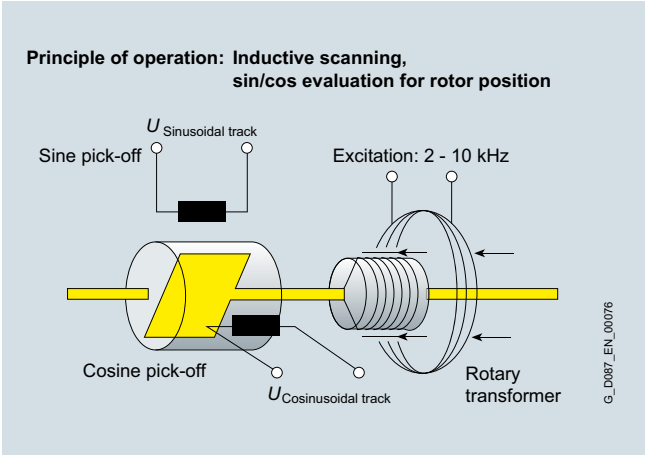


Fig. 2/23 Principle of operation, inductive scanning

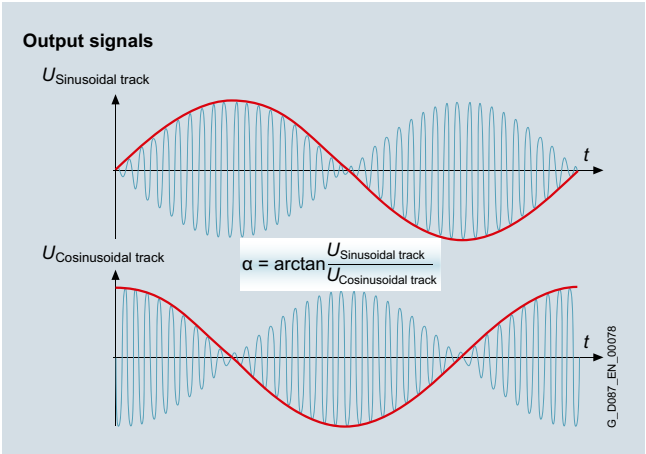


Fig. 2/24 Output signals

Absolute encoders

Absolute encoders are used to determine the position of rotor shafts and to approach a precisely defined angular position.

With the absolute measuring method, the position value is available from the encoder immediately a switch-on and can be called at any time by the subsequent electronics. There is no need to move the axes to find the reference position. The absolute position information is read from the graduation on the indexing disk, which consists of several parallel indexing tracks. The track with the finest scale division is interpolated for the position value and is used to generate an optional incremental signal at the same time. The indexing disks are photoelectrically scanned.

With singleturn rotary encoders the absolute position information is repeated at each revolution. Multiturn rotary encoders can also differentiate between revolutions.

Absolute encoders are used with applications which require a precisely defined position to be approached/relocated.

For the technical specifications of the absolute encoder, please refer to chapter "Motor options" on page 9/41.

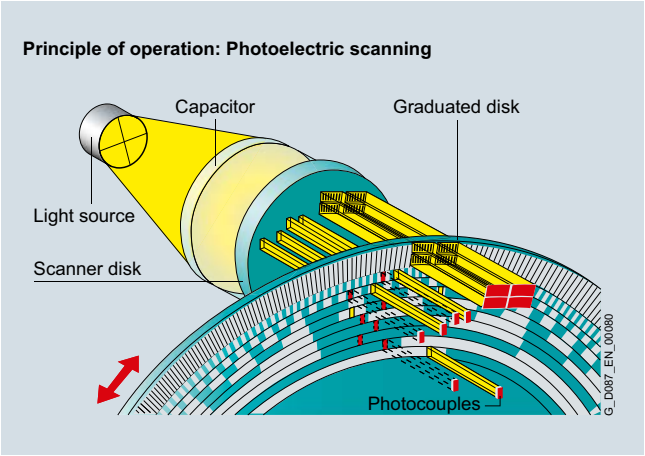


Fig. 2/25 Principle of operation, photoelectric scanning

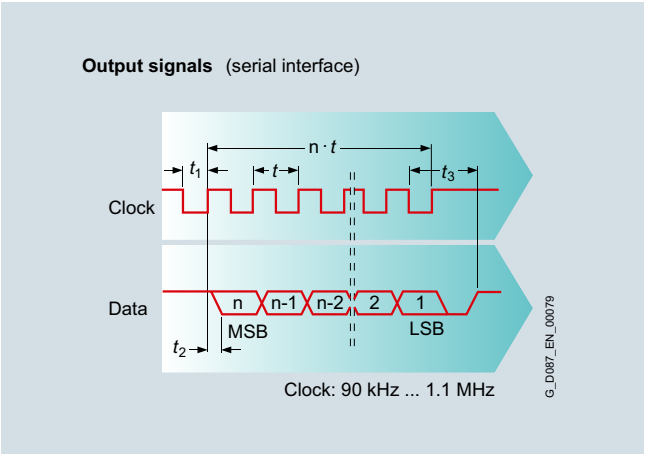


Fig. 2/26 Output signals

2

Operation of geared motors on a frequency inverter

It is possible in principle to operate the geared motors on a frequency inverter.

Please note the following supplementary conditions:

- Maximum speed of the geared motor in the field-weakening range
- Maximum speed of the brake, see page 9/31
- Speed limits of the backstop, see page 9/50

Motor characteristic

During the acceleration process, frequency inverters shift the speed-torque characteristic of the three-phase asynchronous motor over the traversing range to enable jerk-free acceleration. This enables the motor to be operated at different speeds (e.g. rapid traverse/creep speed), but also protects the mechanical components of the plant and gearbox.

Two main motor operating ranges are applicable for inverter operation:

Constant flux (constant torque)

For frequency inverters with an unregulated DC link the output voltage can be as high as the line-side input voltage minus any voltage drops in the inverter.
If the maximum output voltage has not yet been achieved, the inverter output voltage can be increased as the motor speed increases until **V/f = constant** applies. As a consequence, the magnetic flux, the motor current, and therefore the transferred **continuous torque are constant** (provided that the motor is adequately cooled –> in the case of self-cooling, the torque must be reduced in accordance with the motor characteristic at low speeds due to the reduced cooling). Alternatively, if a separately driven fan is used, the full motor torque can be utilized.

Field-weakening range

If the speed increases further when the maximum output voltage has been reached, V/f ≠ remains constant. The magnetic flux reduces with increasing motor speed, the motor current and therefore the transferred continuous torque reduces with respect to 1/n, and the breakdown torque reduces according to $1/n^2$ (see motor characteristic). The motor can be operated in the field-weakening range at constant power as far as the limit of stability (see under "Mechanical load, grease service life").

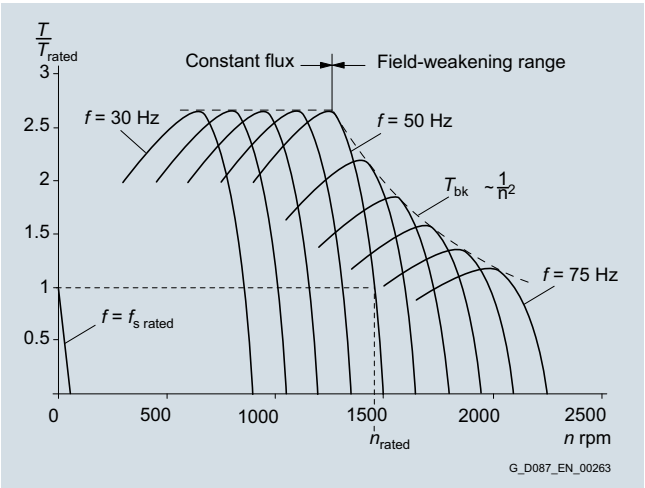


Fig. 2/27 Example for a 4-pole, three-phase asynchronous motor

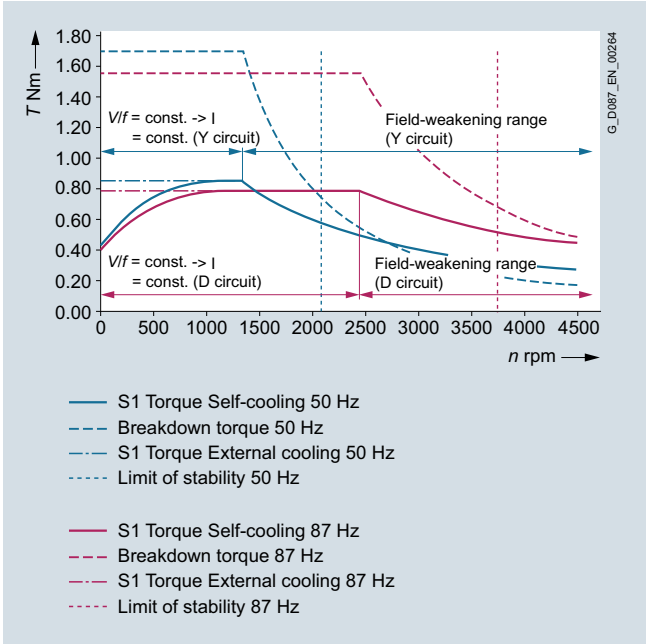


Fig. 2/28 Torque-speed characteristic for asynchronous motor (based on the example of LA63ME4)

Utilization in accordance with temperature class F

For rated power and line operation, the motor is utilized in accordance with temperature class B (130 °C maximum permissible constant temperature referred to a maximum cooling air temperature of 40 °C).
Siemens motors are designed as standard to temperature class F (155 °C maximum permissible constant temperature referred to a maximum cooling air temperature of 40 °C).

For inverter operation at reduced output voltage, the power reserve of the motor can be used to achieve the rated power.

In this case, the rated torque is applied to the motor and the frequency inverter outputs a frequency at which the motor achieves rated speed.

At this operating point the slip and current input are higher than under line operation, so that the constant motor temperature increases accordingly. Prerequisite for utilization of the motor in accordance with temperature class F is that the frequency inverter is capable of outputting a sufficiently high level of current:

$I_{FUoutRated} \geq I_{Motor\ Rated\ Inc}$

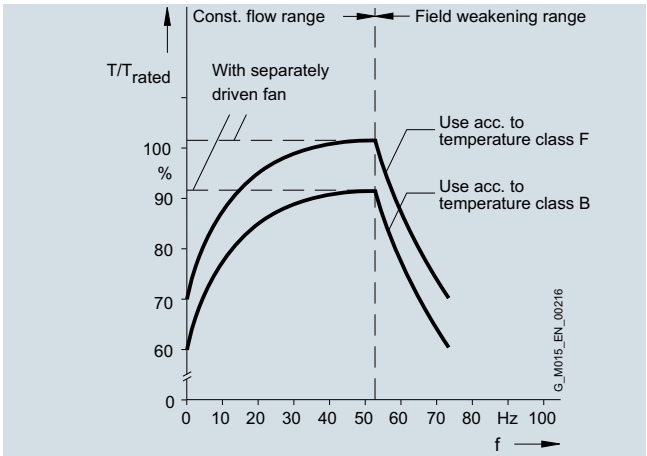


Fig. 2/29

Peak load / acceleration torque

Based on experience, a safety margin of 30 % must be maintained from the breakdown torque:

$T_{max.} = 0.7 \times T_{Bk}$

The engineering software "Sizer for Siemens Drives" incorporates a safety margin for the actual breakdown torque when the breakdown torque characteristic is displayed.

At a sufficiently high level of inverter output current, the motor can therefore be accelerated with approximately 0.7 times its breakdown torque.

When operating with a high switching frequency, the motor's acceleration torque may have to be limited to its rated torque. As a general rule, the rms current must not exceed the rated motor current. It is recommended that the respective traversing cycle is entered in the engineering software "Sizer for Siemens Drives", because the rms values will then be calculated automatically and represented in combination with the respective motor characteristic.

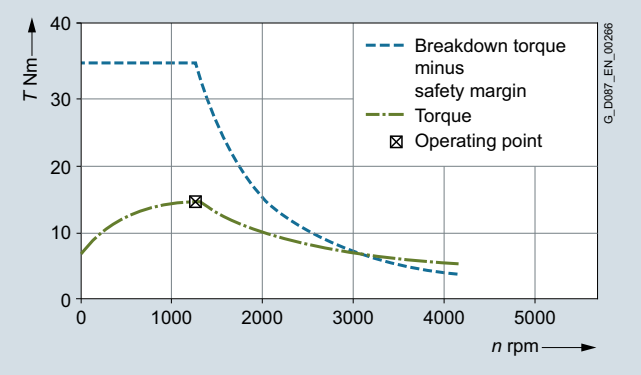


Fig. 2/30

Permissible voltage stress

More stress is placed on the insulation of the motor winding with inverter operation than with line operation. The voltage stress also depends on the type of inverter used. The inverter subjects the motor winding to stress specially as voltage pulses are quickly switched.

The maximum voltage is influenced by the rise time of the pulses, the cable length and the type of cable used between motor and inverter.

Output filters at the inverter can reduce the maximum motor voltage to uncritical values. When using output filters, the control type, pulse frequency, output frequency, and limit torque that can be realized need to be observed, among other factors.

With inverters without output filters, impermissible voltage peaks can occur even with a relatively short motor cable. Regenerative operation, in particular, can stress the motor insulation. This stress occurs predominantly during vertical motion and is dependent on the line voltage, inverter type, cable length, and cable type.

Bearing currents

Additional bearing currents can flow when motors are operated from inverters. They are mainly caused by the steep voltage rises which occur during switching. Without output filters, significant voltage variations can occur at the winding terminals. This phenomenon mainly occurs for larger machines.

EMC-compliant installation of the drive system is a basic prerequisite for preventing premature bearing damage as a result of bearing currents.

Important measures for reducing bearing currents are:

- Using cables with a symmetrical cable cross-section.
- Using grounding cables with low impedance over a wide frequency range (0 Hz up to approximately 70 MHz), e.g. braided copper straps, HF finely-stranded conductors
- Separate HF equipotential-bonding cable between motor housing and driven machine
- Separate HF equipotential-bonding cable between motor housing and inverter PE busbar
- 360° HF contact of the cable shield at the motor housing and the inverter PE busbar. This can be achieved using EMC glands at the motor and EMC shield clips at the inverter, for example.
- Use of motor reactors
- Common-mode filters at the inverter output.
- Insulated motor bearing at the non-drive end (NDE).

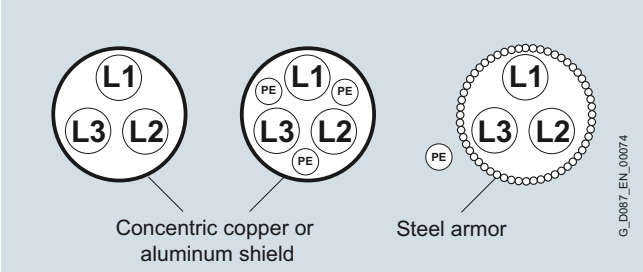
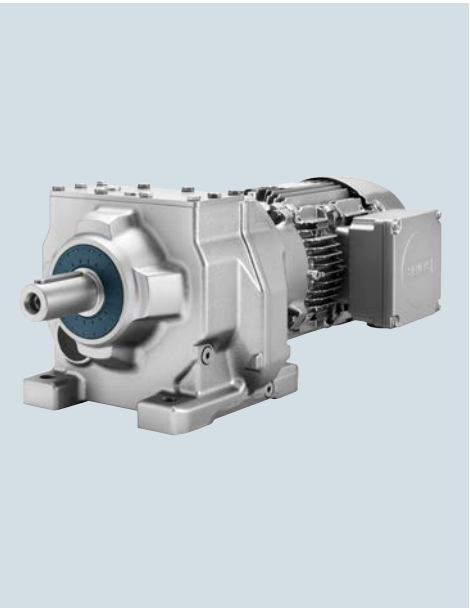


Fig. 2/31 Motors connected to an inverter

Mechanical load, grease service life

High speeds that exceed the rated speed and the resulting increased vibration alter the mechanical smooth running operation and the bearings are subject to increased mechanical stress. This reduces the grease service life and the bearing service life.

More detailed information on request.



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3/310 Helical tandem geared motors
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Orientation

SIMOGEAR helical geared motor Z and D

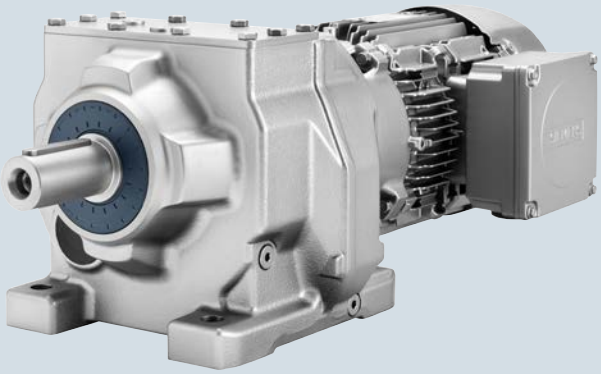


Fig. 3/1 Helical geared motor Z and D

SIMOGEAR helical geared motor E

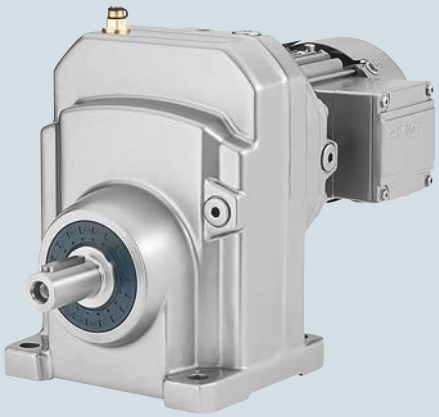


Fig. 3/2 Helical geared motor E

Gearbox designation	Number of frame sizes	Maximum output torque	Gear ratio	Maximum motor power
		T_{2N}	i	P_1
		Nm	-	kW
Z19 … Z189 (2-stage)	13	100 … 19 000	3.4 … 57	55
D19 … D189 (3-stage)	13	100 … 19 000	36 … 328	55
E39 ... E149 (1-stage)	7	30 ... 1 490	1.29 ... 9.79	55
D-29-Z19 ... D.189-D69 (4-stage to 6-stage)	12	140 ... 19 000	325 ... 27 816	7.5

SIMOGEAR helical geared motors are available in the following versions:

Transmission stages

- 2-stage or 3-stage helical geared motors
- 1-stage helical geared motors for high output speeds
- 4-stage to 6-stage helical geared motors for very low output speeds

Versions

- Foot-mounted design
- Flange-mounted design with or without VLplus and XLplus reinforced bearing systems
- Design with integrated housing flange
- Combined foot/flange-mounted design
- Cooling tower version

Selection and ordering data

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**D.19-LHN63MB4**							
	7.5	114	184.86	1 300	0.88	8	**2KJ4201 - ■ BC21 - ■ ■ Q1**	
	8.5	101	163.69	1 600	0.99	8	**2KJ4201 - ■ BC21 - ■ ■ P1**	
	9.8	88	142.23	1 900	1.1	8	**2KJ4201 - ■ BC21 - ■ ■ N1**	
	11	80	129.3	2 000	1.3	8	**2KJ4201 - ■ BC21 - ■ ■ M1**	
	13	68	110.02	2 200	1.5	8	**2KJ4201 - ■ BC21 - ■ ■ L1**	
	14	62	100.02	2 300	1.6	8	**2KJ4201 - ■ BC21 - ■ ■ K1**	
	16	54	87.21	2 300	1.9	8	**2KJ4201 - ■ BC21 - ■ ■ J1**	
	18	48	78.07	2 300	2.1	8	**2KJ4201 - ■ BC21 - ■ ■ H1**	
	20	43	69.32	2 400	2.3	8	**2KJ4201 - ■ BC21 - ■ ■ G1**	
	22	39	63.99	2 400	2.5	8	**2KJ4201 - ■ BC21 - ■ ■ F1**	
	25	34	55.59	2 400	2.9	8	**2KJ4201 - ■ BC21 - ■ ■ E1**	
	29	30	48.3	2 400	3.4	8	**2KJ4201 - ■ BC21 - ■ ■ D1**	
	32	27	43.61	2 500	3.7	8	**2KJ4201 - ■ BC21 - ■ ■ C1**	
	34	25	41.04	2 500	4.0	8	**2KJ4201 - ■ BC21 - ■ ■ B1**	
	D.19-LHN63ME6							
	6.9	125	129.3	1 100	0.8	8	**2KJ4201 - ■ BF21 - ■ ■ M1**	**P01**
	Z.19-LHN63MB4							
	40	22	34.97	2 500	4.6	8	**2KJ4101 - ■ BC21 - ■ ■ W1**	
	45	19	30.97	2 500	5.2	8	**2KJ4101 - ■ BC21 - ■ ■ V1**	
	52	17	26.91	2 500	6.0	8	**2KJ4101 - ■ BC21 - ■ ■ U1**	
	57	15	24.46	2 500	6.6	8	**2KJ4101 - ■ BC21 - ■ ■ T1**	
	67	13	20.82	2 500	7.8	8	**2KJ4101 - ■ BC21 - ■ ■ S1**	
	74	12	18.92	2 500	8.6	8	**2KJ4101 - ■ BC21 - ■ ■ R1**	
	85	10	16.5	2 400	9.7	8	**2KJ4101 - ■ BC21 - ■ ■ Q1**	
	94	9.1	14.77	2 300	10	8	**2KJ4101 - ■ BC21 - ■ ■ P1**	
	106	8.1	13.12	2 200	11	8	**2KJ4101 - ■ BC21 - ■ ■ N1**	
	115	7.5	12.11	2 200	12	8	**2KJ4101 - ■ BC21 - ■ ■ M1**	
	133	6.5	10.52	2 100	13	8	**2KJ4101 - ■ BC21 - ■ ■ L1**	
	153	5.6	9.14	2 000	14	8	**2KJ4101 - ■ BC21 - ■ ■ K1**	
	169	5.1	8.25	1 900	15	8	**2KJ4101 - ■ BC21 - ■ ■ J1**	
	180	4.8	7.76	1 900	15	8	**2KJ4101 - ■ BC21 - ■ ■ H1**	
	223	3.9	6.25	1 700	14	8	**2KJ4101 - ■ BC21 - ■ ■ F1**	
	D.29-LHN63MB4							
	6.4	134	217.89	3 800	1.0	10	**2KJ4202 - ■ BC21 - ■ ■ Q1**	
	7.2	119	192.93	4 000	1.2	10	**2KJ4202 - ■ BC21 - ■ ■ P1**	
	8.3	103	167.63	4 000	1.4	10	**2KJ4202 - ■ BC21 - ■ ■ N1**	
	9.2	94	152.39	4 000	1.5	10	**2KJ4202 - ■ BC21 - ■ ■ M1**	
	11	80	129.68	4 000	1.8	10	**2KJ4202 - ■ BC21 - ■ ■ L1**	
	12	73	117.89	4 000	1.9	10	**2KJ4202 - ■ BC21 - ■ ■ K1**	
	14	63	102.79	4 000	2.2	10	**2KJ4202 - ■ BC21 - ■ ■ J1**	
	15	57	92.01	4 000	2.5	10	**2KJ4202 - ■ BC21 - ■ ■ H1**	
	17	50	81.71	4 000	2.8	10	**2KJ4202 - ■ BC21 - ■ ■ G1**	
	18	46	75.42	4 000	3.0	10	**2KJ4202 - ■ BC21 - ■ ■ F1**	
	21	40	65.52	4 000	3.5	10	**2KJ4202 - ■ BC21 - ■ ■ E1**	
	25	35	56.93	4 000	4.0	10	**2KJ4202 - ■ BC21 - ■ ■ D1**	
	27	32	51.4	4 000	4.4	10	**2KJ4202 - ■ BC21 - ■ ■ C1**	
	29	30	48.37	4 000	4.7	10	**2KJ4202 - ■ BC21 - ■ ■ B1**	

Article No. supplement		
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Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

3

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**D.29-LHN63ME6**							
	5.3	162	167.63	3 000	0.86	10	**2KJ4202 - ■ BF21 - ■ ■ N1**	**P01**
	5.8	147	152.39	3 300	0.95	10	**2KJ4202 - ■ BF21 - ■ ■ M1**	**P01**
	Z.29-LHN63MB4							
	34	26	41.4	4 000	5.5	10	**2KJ4102 - ■ BC21 - ■ ■ A2**	
	38	23	36.72	4 000	6.2	10	**2KJ4102 - ■ BC21 - ■ ■ X1**	
	44	20	31.86	4 000	7.1	10	**2KJ4102 - ■ BC21 - ■ ■ W1**	
	48	18	28.96	4 000	7.8	10	**2KJ4102 - ■ BC21 - ■ ■ V1**	
	56	15	24.84	4 000	9.1	10	**2KJ4102 - ■ BC21 - ■ ■ U1**	
	62	14	22.58	4 000	10	10	**2KJ4102 - ■ BC21 - ■ ■ T1**	
	70	12	19.8	3 800	12	10	**2KJ4102 - ■ BC21 - ■ ■ S1**	
	79	11	17.67	3 700	13	10	**2KJ4102 - ■ BC21 - ■ ■ R1**	
	89	9.7	15.75	3 500	14	10	**2KJ4102 - ■ BC21 - ■ ■ Q1**	
	96	9	14.54	3 400	13	10	**2KJ4102 - ■ BC21 - ■ ■ P1**	
	D.39-LHN63MB4							
	5.9	145	235.29	5 700	1.4	11	**2KJ4203 - ■ BC21 - ■ ■ R1**	
	6.7	129	208.69	5 800	1.6	11	**2KJ4203 - ■ BC21 - ■ ■ Q1**	
	7.7	112	181.07	5 800	1.8	11	**2KJ4203 - ■ BC21 - ■ ■ P1**	
	8.5	101	164.61	5 800	2.0	11	**2KJ4203 - ■ BC21 - ■ ■ N1**	
	D.39-LHN63ME6							
	3.8	225	235.29	3 450	0.88	11	**2KJ4203 - ■ BF21 - ■ ■ R1**	**P01**
	4.3	200	208.69	4 100	0.99	11	**2KJ4203 - ■ BF21 - ■ ■ Q1**	**P01**
	4.9	175	181.07	4 700	1.1	11	**2KJ4203 - ■ BF21 - ■ ■ P1**	**P01**
	5.4	159	164.61	5 220	1.3	11	**2KJ4203 - ■ BF21 - ■ ■ N1**	**P01**
	D.49-LHN63MB4							
	5	173	280.89	6 200	1.8	21	**2KJ4204 - ■ BC21 - ■ ■ S1**	
	5.6	154	249.76	6 200	2.1	21	**2KJ4204 - ■ BC21 - ■ ■ R1**	
	D.49-LHN63ME6							
	3.2	270	280.89	6 000	1.2	21	**2KJ4204 - ■ BF21 - ■ ■ S1**	**P01**
	3.6	240	249.76	6 000	1.3	21	**2KJ4204 - ■ BF21 - ■ ■ R1**	**P01**
	4.1	210	219.3	6 100	1.5	21	**2KJ4204 - ■ BF21 - ■ ■ Q1**	**P01**
	4.5	193	199.36	6 100	1.7	21	**2KJ4204 - ■ BF21 - ■ ■ P1**	**P01**
	D.59-LHN63ME6							
	2.9	295	307.02	7 900	1.5	23	**2KJ4205 - ■ BF21 - ■ ■ S1**	**P01**
	3.3	260	272.99	7 900	1.7	23	**2KJ4205 - ■ BF21 - ■ ■ R1**	**P01**
	3.7	230	239.7	8 000	1.9	23	**2KJ4205 - ■ BF21 - ■ ■ Q1**	**P01**
	D.69-LHN63ME6							
	2.7	315	328.49	11 400	1.9	28	**2KJ4206 - ■ BF21 - ■ ■ S1**	**P01**
	Z.29-Z19-LHN63MB4							
	3.6	165	386	3 000	0.85	12	**2KJ4120 - ■ BC21 - ■ ■ E1**	
	4.2	143	335.06	3 600	0.98	12	**2KJ4120 - ■ BC21 - ■ ■ D1**	
	4.8	124	291.15	4 000	1.1	12	**2KJ4120 - ■ BC21 - ■ ■ C1**	
	5.3	112	262.85	4 000	1.2	12	**2KJ4120 - ■ BC21 - ■ ■ B1**	
	5.6	106	247.38	4 000	1.3	12	**2KJ4120 - ■ BC21 - ■ ■ A1**	
	Z.39-Z19-LHN63MB4							
	2.4	245	573	3 200	0.82	14	**2KJ4122 - ■ BC21 - ■ ■ J1**	
	2.6	225	529	3 700	0.88	14	**2KJ4122 - ■ BC21 - ■ ■ H1**	
	3	196	459	4 400	1.0	14	**2KJ4122 - ■ BC21 - ■ ■ G1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.09	**Z.39-Z19-LHN63MB4**							
	3.5	171	399	5 000	1.2	14	**2KJ4122 - ■ BC21 - ■ ■ F1**	
	3.9	154	360	5 500	1.3	14	**2KJ4122 - ■ BC21 - ■ ■ E1**	
	4.1	145	339.16	5 700	1.4	14	**2KJ4122 - ■ BC21 - ■ ■ D1**	
	4.7	126	295.68	5 800	1.6	14	**2KJ4122 - ■ BC21 - ■ ■ C1**	
	5.1	117	272.8	5 800	1.7	14	**2KJ4122 - ■ BC21 - ■ ■ B1**	
	5.9	101	236.97	5 800	2.0	14	**2KJ4122 - ■ BC21 - ■ ■ A1**	
	Z.49-Z19-LHN63MB4							
	1.6	365	860	5 800	0.87	24	**2KJ4124 - ■ BC21 - ■ ■ L1**	
	1.8	325	770	5 800	0.97	24	**2KJ4124 - ■ BC21 - ■ ■ K1**	
	2	290	684	5 900	1.1	24	**2KJ4124 - ■ BC21 - ■ ■ J1**	
	2.2	270	631	6 000	1.2	24	**2KJ4124 - ■ BC21 - ■ ■ H1**	
	2.5	230	548	6 000	1.4	24	**2KJ4124 - ■ BC21 - ■ ■ G1**	
	2.9	200	476	6 100	1.6	24	**2KJ4124 - ■ BC21 - ■ ■ F1**	
	3.2	184	430	6 100	1.7	24	**2KJ4124 - ■ BC21 - ■ ■ E1**	
	3.4	173	405	6 200	1.8	24	**2KJ4124 - ■ BC21 - ■ ■ D1**	
	D.59-Z19-LHN63MB4							
	1.9	310	739	7 800	1.4	26	**2KJ4226 - ■ BC21 - ■ ■ J1**	
	2.2	270	642	7 900	1.7	26	**2KJ4226 - ■ BC21 - ■ ■ H1**	
	2.4	245	580	7 900	1.8	26	**2KJ4226 - ■ BC21 - ■ ■ G1**	
	2.6	230	546	8 000	1.9	26	**2KJ4226 - ■ BC21 - ■ ■ F1**	
	Z.59-Z19-LHN63MB4							
	1.1	540	1 267	7 400	0.83	26	**2KJ4126 - ■ BC21 - ■ ■ D1**	
	1.3	460	1 078	7 600	0.98	26	**2KJ4126 - ■ BC21 - ■ ■ C1**	
	1.4	415	980	7 700	1.1	26	**2KJ4126 - ■ BC21 - ■ ■ B1**	
	1.6	365	855	7 800	1.2	26	**2KJ4126 - ■ BC21 - ■ ■ A1**	
	D.69-Z19-LHN63MB4							
	0.91	645	1 532	10 900	0.93	31	**2KJ4228 - ■ BC21 - ■ ■ Q1**	
	1	560	1 332	11 000	1.1	31	**2KJ4228 - ■ BC21 - ■ ■ P1**	
	1.2	475	1 131	11 200	1.3	31	**2KJ4228 - ■ BC21 - ■ ■ M1**	
	1.2	505	1 202	11 100	1.2	31	**2KJ4228 - ■ BC21 - ■ ■ N1**	
	1.4	415	986	11 200	1.4	31	**2KJ4228 - ■ BC21 - ■ ■ L1**	
	1.5	385	910	11 300	1.6	31	**2KJ4228 - ■ BC21 - ■ ■ K1**	
	1.8	335	791	11 400	1.8	31	**2KJ4228 - ■ BC21 - ■ ■ J1**	
	Z.69-Z19-LHN63MB4							
	0.81	730	1 717	10 700	0.82	31	**2KJ4128 - ■ BC21 - ■ ■ A1**	
	Z.79-Z39-LHN63MB4							
	0.63	945	2 210	13 200	0.89	43	**2KJ4131 - ■ BC21 - ■ ■ S1**	
	0.72	825	1 940	13 400	1.0	43	**2KJ4131 - ■ BC21 - ■ ■ R1**	
	0.79	750	1 764	13 500	1.1	43	**2KJ4131 - ■ BC21 - ■ ■ Q1**	
	0.92	645	1 509	13 600	1.3	43	**2KJ4131 - ■ BC21 - ■ ■ P1**	
	1	585	1 372	13 700	1.4	43	**2KJ4131 - ■ BC21 - ■ ■ N1**	
	1.2	515	1 213	13 800	1.6	43	**2KJ4131 - ■ BC21 - ■ ■ M1**	
	1.3	470	1 102	13 900	1.8	43	**2KJ4131 - ■ BC21 - ■ ■ L1**	
	1.4	410	966	13 900	2.0	43	**2KJ4131 - ■ BC21 - ■ ■ K1**	
	Z.89-D39-LHN63MB4							
	0.29	2 000	4 739	18 500	0.84	67	**2KJ4134 - ■ BC21 - ■ ■ D1**	
	0.34	1 750	4 149	18 500	0.96	67	**2KJ4134 - ■ BC21 - ■ ■ C1**	
	0.38	1 540	3 638	18 500	1.1	67	**2KJ4134 - ■ BC21 - ■ ■ B1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.09	**Z.89-Z39-LHN63MB4**							
	0.43	1 370	3 209	18 500	1.2	67	**2KJ4133 - ■ BC21 - ■ ■ N1**	
	0.49	1 220	2 853	18 500	1.4	67	**2KJ4133 - ■ BC21 - ■ ■ M1**	
	0.56	1 070	2 505	18 500	1.6	67	**2KJ4133 - ■ BC21 - ■ ■ L1**	
	0.61	970	2 278	18 500	1.7	67	**2KJ4133 - ■ BC21 - ■ ■ K1**	
	0.72	830	1 949	18 500	2.0	67	**2KJ4133 - ■ BC21 - ■ ■ J1**	
	D.109-D39-LHN63MB4							
	0.16	3 690	8 817	20 100	0.84	111	**2KJ4236 - ■ BC21 - ■ ■ D1**	
	0.18	3 230	7 719	20 200	0.96	111	**2KJ4236 - ■ BC21 - ■ ■ C1**	
	0.21	2 830	6 768	20 200	1.1	111	**2KJ4236 - ■ BC21 - ■ ■ B1**	
	D.109-Z39-LHN63MB4							
	0.23	2 520	5 970	20 200	1.2	110	**2KJ4235 - ■ BC21 - ■ ■ A2**	
	0.26	2 240	5 308	20 200	1.4	110	**2KJ4235 - ■ BC21 - ■ ■ X1**	
	0.3	1 970	4 661	20 200	1.6	110	**2KJ4235 - ■ BC21 - ■ ■ W1**	
	0.33	1 790	4 237	20 200	1.7	110	**2KJ4235 - ■ BC21 - ■ ■ V1**	
	0.38	1 530	3 625	20 200	2.0	110	**2KJ4235 - ■ BC21 - ■ ■ U1**	
	D.129-D49-LHN63MB4							
	0.1	5 970	14 250	26 500	0.84	185	**2KJ4238 - ■ BC21 - ■ ■ H1**	
	0.11	5 220	12 482	26 900	0.96	185	**2KJ4238 - ■ BC21 - ■ ■ G1**	
	0.12	4 820	11 522	27 100	1.0	185	**2KJ4238 - ■ BC21 - ■ ■ F1**	
	0.14	4 270	10 201	27 400	1.2	185	**2KJ4238 - ■ BC21 - ■ ■ E1**	
	0.16	3 550	8 490	27 900	1.4	185	**2KJ4238 - ■ BC21 - ■ ■ D1**	
	0.17	3 340	7 991	28 000	1.5	185	**2KJ4238 - ■ BC21 - ■ ■ C1**	
	0.19	3 000	7 160	28 200	1.7	185	**2KJ4238 - ■ BC21 - ■ ■ B1**	
	D.129-Z49-LHN63MB4							
	0.23	2 520	5 963	28 500	2.0	195	**2KJ4237 - ■ BC21 - ■ ■ B2**	
	D.149-D49-LHN63MB4							
	0.06	9 200	21 982	50 600	0.87	271	**2KJ4241 - ■ BC21 - ■ ■ M1**	
	0.07	7 870	18 807	51 200	1.0	271	**2KJ4241 - ■ BC21 - ■ ■ L1**	
	0.08	7 160	17 097	51 600	1.1	271	**2KJ4241 - ■ BC21 - ■ ■ K1**	
	0.09	6 330	15 112	52 000	1.3	271	**2KJ4241 - ■ BC21 - ■ ■ J1**	
	0.1	5 750	13 739	52 200	1.4	271	**2KJ4241 - ■ BC21 - ■ ■ H1**	
	0.12	5 040	12 034	52 600	1.6	271	**2KJ4241 - ■ BC21 - ■ ■ G1**	
	0.13	4 650	11 108	52 800	1.7	271	**2KJ4241 - ■ BC21 - ■ ■ F1**	
	0.14	4 120	9 835	53 000	1.9	271	**2KJ4241 - ■ BC21 - ■ ■ E1**	
	D.169-D69-LHN63MB4							
	0.06	9 770	23 323	71 700	1.4	460	**2KJ4243 - ■ BC21 - ■ ■ N1**	
	0.07	8 880	21 203	72 000	1.6	460	**2KJ4243 - ■ BC21 - ■ ■ M1**	
	0.08	6 900	16 491	72 800	2.0	460	**2KJ4243 - ■ BC21 - ■ ■ K1**	
	0.08	7 600	18 140	72 500	1.8	460	**2KJ4243 - ■ BC21 - ■ ■ L1**	
	D.189-D69-LHN63MB4							
	0.05	11 600	27 816	107 000	1.6	674	**2KJ4245 - ■ BC21 - ■ ■ P1**	
	0.06	9 300	22 204	107 000	2.0	674	**2KJ4245 - ■ BC21 - ■ ■ M1**	
	0.06	10 200	24 424	107 000	1.9	674	**2KJ4245 - ■ BC21 - ■ ■ N1**	
0.12	**D.19-LHN63MC4**							
	9.4	122	142.23	1 200	0.82	8	**2KJ4201 - ■ BD21 - ■ ■ N1**	
	10	111	129.3	1 400	0.9	8	**2KJ4201 - ■ BD21 - ■ ■ M1**	
	12	94	110.02	1 700	1.1	8	**2KJ4201 - ■ BD21 - ■ ■ L1**	
	13	86	100.02	1 900	1.2	8	**2KJ4201 - ■ BD21 - ■ ■ K1**	
	15	75	87.21	2 100	1.3	8	**2KJ4201 - ■ BD21 - ■ ■ J1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**D.19-LHN63MC4**							
	17	67	78.07	2 300	1.5	8	**2KJ4201 - ■ BD21 - ■ ■ H1**	
	19	60	69.32	2 300	1.7	8	**2KJ4201 - ■ BD21 - ■ ■ G1**	
	21	55	63.99	2 300	1.8	8	**2KJ4201 - ■ BD21 - ■ ■ F1**	
	24	48	55.59	2 300	2.1	8	**2KJ4201 - ■ BD21 - ■ ■ E1**	
	28	42	48.3	2 400	2.4	8	**2KJ4201 - ■ BD21 - ■ ■ D1**	
	31	37	43.61	2 400	2.7	8	**2KJ4201 - ■ BD21 - ■ ■ C1**	
	33	35	41.04	2 400	2.8	8	**2KJ4201 - ■ BD21 - ■ ■ B1**	
	Z.19-LHN63MC4							
	38	30	34.97	2 400	3.3	8	**2KJ4101 - ■ BD21 - ■ ■ W1**	
	43	27	30.97	2 500	3.8	8	**2KJ4101 - ■ BD21 - ■ ■ V1**	
	50	23	26.91	2 500	4.3	8	**2KJ4101 - ■ BD21 - ■ ■ U1**	
	55	21	24.46	2 500	4.8	8	**2KJ4101 - ■ BD21 - ■ ■ T1**	
	64	18	20.82	2 500	5.6	8	**2KJ4101 - ■ BD21 - ■ ■ S1**	
	71	16	18.92	2 500	6.2	8	**2KJ4101 - ■ BD21 - ■ ■ R1**	
	81	14	16.5	2 400	7.0	8	**2KJ4101 - ■ BD21 - ■ ■ Q1**	
	90	13	14.77	2 300	7.5	8	**2KJ4101 - ■ BD21 - ■ ■ P1**	
	102	11	13.12	2 200	8.1	8	**2KJ4101 - ■ BD21 - ■ ■ N1**	
	110	10	12.11	2 200	8.5	8	**2KJ4101 - ■ BD21 - ■ ■ M1**	
	127	9	10.52	2 100	9.2	8	**2KJ4101 - ■ BD21 - ■ ■ L1**	
	146	7.8	9.14	2 000	9.9	8	**2KJ4101 - ■ BD21 - ■ ■ K1**	
	162	7.1	8.25	1 900	10	8	**2KJ4101 - ■ BD21 - ■ ■ J1**	
	172	6.7	7.76	1 900	11	8	**2KJ4101 - ■ BD21 - ■ ■ H1**	
	197	5.8	6.77	1 800	12	8	**2KJ4101 - ■ BD21 - ■ ■ G1**	
	214	5.4	6.25	1 700	10	8	**2KJ4101 - ■ BD21 - ■ ■ F1**	
	246	4.7	5.43	1 700	11	8	**2KJ4101 - ■ BD21 - ■ ■ E1**	
	283	4	4.71	1 600	12	8	**2KJ4101 - ■ BD21 - ■ ■ D1**	
	313	3.7	4.26	1 500	13	8	**2KJ4101 - ■ BD21 - ■ ■ C1**	
	333	3.4	4.01	1 500	13	8	**2KJ4101 - ■ BD21 - ■ ■ B1**	
	D.29-LHN63MC4							
	6.9	166	192.93	3 000	0.85	9	**2KJ4202 - ■ BD21 - ■ ■ P1**	
	8	144	167.63	3 600	0.97	9	**2KJ4202 - ■ BD21 - ■ ■ N1**	
	8.8	131	152.39	3 900	1.1	9	**2KJ4202 - ■ BD21 - ■ ■ M1**	
	10	111	129.68	4 000	1.3	9	**2KJ4202 - ■ BD21 - ■ ■ L1**	
	11	101	117.89	4 000	1.4	9	**2KJ4202 - ■ BD21 - ■ ■ K1**	
	13	88	102.79	4 000	1.6	9	**2KJ4202 - ■ BD21 - ■ ■ J1**	
	15	79	92.01	4 000	1.8	9	**2KJ4202 - ■ BD21 - ■ ■ H1**	
	16	70	81.71	4 000	2.0	9	**2KJ4202 - ■ BD21 - ■ ■ G1**	
	18	65	75.42	4 000	2.2	9	**2KJ4202 - ■ BD21 - ■ ■ F1**	
	20	56	65.52	4 000	2.5	9	**2KJ4202 - ■ BD21 - ■ ■ E1**	
	23	49	56.93	4 000	2.9	9	**2KJ4202 - ■ BD21 - ■ ■ D1**	
	26	44	51.4	4 000	3.2	9	**2KJ4202 - ■ BD21 - ■ ■ C1**	
	28	42	48.37	4 000	3.4	9	**2KJ4202 - ■ BD21 - ■ ■ B1**	
	Z.29-LHN63MC4							
	32	36	41.4	4 000	3.9	9	**2KJ4102 - ■ BD21 - ■ ■ A2**	
	36	32	36.72	4 000	4.4	9	**2KJ4102 - ■ BD21 - ■ ■ X1**	
	42	27	31.86	4 000	5.1	9	**2KJ4102 - ■ BD21 - ■ ■ W1**	
	46	25	28.96	4 000	5.6	9	**2KJ4102 - ■ BD21 - ■ ■ V1**	
	54	21	24.84	4 000	6.6	9	**2KJ4102 - ■ BD21 - ■ ■ U1**	
	59	19	22.58	4 000	7.2	9	**2KJ4102 - ■ BD21 - ■ ■ T1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.12	**Z.29-LHN63MC4**							
	67	17	19.8	3 800	8.2	9	**2KJ4102 - ■ BD21 - ■ ■ S1**	
	76	15	17.67	3 700	9.2	9	**2KJ4102 - ■ BD21 - ■ ■ R1**	
	85	14	15.75	3 600	10	9	**2KJ4102 - ■ BD21 - ■ ■ Q1**	
	92	12	14.54	3 500	9.6	9	**2KJ4102 - ■ BD21 - ■ ■ P1**	
	105	11	12.73	3 300	13	9	**2KJ4102 - ■ BD21 - ■ ■ N1**	
	120	9.6	11.16	3 200	15	9	**2KJ4102 - ■ BD21 - ■ ■ M1**	
	193	5.9	6.92	2 700	13	9	**2KJ4102 - ■ BD21 - ■ ■ G1**	
	D.39-LHN63MC4							
	5.7	200	235.29	4 300	0.99	11	**2KJ4203 - ■ BD21 - ■ ■ R1**	
	6.4	179	208.69	4 800	1.1	11	**2KJ4203 - ■ BD21 - ■ ■ Q1**	
	7.4	155	181.07	5 400	1.3	11	**2KJ4203 - ■ BD21 - ■ ■ P1**	
	8.1	141	164.61	5 800	1.4	11	**2KJ4203 - ■ BD21 - ■ ■ N1**	
	9.5	121	141.17	5 800	1.7	11	**2KJ4203 - ■ BD21 - ■ ■ M1**	
	10	110	128.34	5 800	1.8	11	**2KJ4203 - ■ BD21 - ■ ■ L1**	
	12	97	112.53	5 800	2.1	11	**2KJ4203 - ■ BD21 - ■ ■ K1**	
	D.39-LHN63MF6							
	4.9	235	181.07	3 400	0.85	12	**2KJ4203 - ■ BG21 - ■ ■ P1**	**P01**
	5.3	210	164.61	4 100	0.93	12	**2KJ4203 - ■ BG21 - ■ ■ N1**	**P01**
	E.39-LHN63MC4							
	145	7.9	9.22	3 000	3.8	11	**2KJ4001 - ■ BD21 - ■ ■ S1**	
	D.49-LHN63MC4							
	4.8	240	280.89	6 000	1.3	21	**2KJ4204 - ■ BD21 - ■ ■ S1**	
	5.3	210	249.76	6 100	1.5	21	**2KJ4204 - ■ BD21 - ■ ■ R1**	
	6.1	188	219.3	6 100	1.7	21	**2KJ4204 - ■ BD21 - ■ ■ Q1**	
	6.7	171	199.36	6 200	1.9	21	**2KJ4204 - ■ BD21 - ■ ■ P1**	
	D.49-LHN63MF6							
	3.1	365	280.89	4 600	0.87	22	**2KJ4204 - ■ BG21 - ■ ■ S1**	**P01**
	3.5	325	249.76	5 600	0.98	22	**2KJ4204 - ■ BG21 - ■ ■ R1**	**P01**
	4	285	219.3	5 900	1.1	22	**2KJ4204 - ■ BG21 - ■ ■ Q1**	**P01**
	4.4	260	199.36	6 000	1.2	22	**2KJ4204 - ■ BG21 - ■ ■ P1**	**P01**
	D.59-LHN63MC4							
	4.3	260	307.02	7 900	1.7	23	**2KJ4205 - ■ BD21 - ■ ■ S1**	
	4.9	230	272.99	8 000	1.9	23	**2KJ4205 - ■ BD21 - ■ ■ R1**	
	D.59-LHN63MF6							
	2.9	400	307.02	7 700	1.1	24	**2KJ4205 - ■ BG21 - ■ ■ S1**	**P01**
	3.2	355	272.99	7 800	1.3	24	**2KJ4205 - ■ BG21 - ■ ■ R1**	**P01**
	3.7	310	239.7	7 800	1.4	24	**2KJ4205 - ■ BG21 - ■ ■ Q1**	**P01**
	4	280	217.91	7 900	1.6	24	**2KJ4205 - ■ BG21 - ■ ■ P1**	**P01**
	D.69-LHN63MF6							
	2.7	425	328.49	11 200	1.4	28	**2KJ4206 - ■ BG21 - ■ ■ S1**	**P01**
	3	380	292.08	11 300	1.6	28	**2KJ4206 - ■ BG21 - ■ ■ R1**	**P01**
	3.4	330	256.46	11 400	1.8	28	**2KJ4206 - ■ BG21 - ■ ■ Q1**	**P01**
	3.8	300	233.14	11 400	2.0	28	**2KJ4206 - ■ BG21 - ■ ■ P1**	**P01**
	Z.29-Z19-LHN63MC4							
	5.1	172	262.85	2 800	0.82	12	**2KJ4120 - ■ BD21 - ■ ■ B1**	
	5.4	161	247.38	3 100	0.87	12	**2KJ4120 - ■ BD21 - ■ ■ A1**	
	Z.39-Z19-LHN63MC4							
	3.7	235	360	3 400	0.85	14	**2KJ4122 - ■ BD21 - ■ ■ E1**	
	3.9	220	339.16	3 800	0.9	14	**2KJ4122 - ■ BD21 - ■ ■ D1**	
	4.5	193	295.68	4 500	1.0	14	**2KJ4122 - ■ BD21 - ■ ■ C1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.12	**Z.39-Z19-LHN63MC4**							
	4.9	178	272.8	4 900	1.1	14	**2KJ4122 - ■ BD21 - ■ ■ B1**	
	5.6	155	236.97	5 400	1.3	14	**2KJ4122 - ■ BD21 - ■ ■ A1**	
	Z.49-Z19-LHN63MC4							
	2.4	355	548	5 800	0.89	23	**2KJ4124 - ■ BD21 - ■ ■ G1**	
	2.8	310	476	5 900	1.0	23	**2KJ4124 - ■ BD21 - ■ ■ F1**	
	3.1	280	430	5 900	1.1	23	**2KJ4124 - ■ BD21 - ■ ■ E1**	
	3.3	260	405	6 000	1.2	23	**2KJ4124 - ■ BD21 - ■ ■ D1**	
	3.8	230	353	6 000	1.4	23	**2KJ4124 - ■ BD21 - ■ ■ C1**	
	4.1	210	325.62	6 100	1.5	23	**2KJ4124 - ■ BD21 - ■ ■ B1**	
	4.7	185	282.85	6 100	1.7	23	**2KJ4124 - ■ BD21 - ■ ■ A1**	
	D.59-Z19-LHN63MC4							
	1.8	475	739	7 600	0.94	26	**2KJ4226 - ■ BD21 - ■ ■ J1**	
	2.1	415	642	7 700	1.1	26	**2KJ4226 - ■ BD21 - ■ ■ H1**	
	2.3	375	580	7 700	1.2	26	**2KJ4226 - ■ BD21 - ■ ■ G1**	
	2.4	350	546	7 800	1.3	26	**2KJ4226 - ■ BD21 - ■ ■ F1**	
	2.6	325	507	7 800	1.4	26	**2KJ4226 - ■ BD21 - ■ ■ E1**	
	3	280	440	7 900	1.6	26	**2KJ4226 - ■ BD21 - ■ ■ D1**	
	3.5	245	383	7 900	1.8	26	**2KJ4226 - ■ BD21 - ■ ■ C1**	
	3.9	220	345.36	8 000	2.0	26	**2KJ4226 - ■ BD21 - ■ ■ B1**	
	Z.59-Z19-LHN63MC4							
	1.6	555	855	7 300	0.81	26	**2KJ4126 - ■ BD21 - ■ ■ A1**	
	D.69-Z19-LHN63MC4							
	1.2	730	1 131	10 700	0.82	30	**2KJ4228 - ■ BD21 - ■ ■ M1**	
	1.4	635	986	10 900	0.94	30	**2KJ4228 - ■ BD21 - ■ ■ L1**	
	1.5	585	910	11 000	1.0	30	**2KJ4228 - ■ BD21 - ■ ■ K1**	
	1.7	510	791	11 100	1.2	30	**2KJ4228 - ■ BD21 - ■ ■ J1**	
	1.9	440	687	11 200	1.4	30	**2KJ4228 - ■ BD21 - ■ ■ H1**	
	2.2	400	620	11 300	1.5	30	**2KJ4228 - ■ BD21 - ■ ■ G1**	
	2.3	375	584	11 300	1.6	30	**2KJ4228 - ■ BD21 - ■ ■ F1**	
	2.5	350	542	11 300	1.7	30	**2KJ4228 - ■ BD21 - ■ ■ E1**	
	2.8	300	471	11 400	2.0	30	**2KJ4228 - ■ BD21 - ■ ■ D1**	
	Z.79-Z39-LHN63MC4							
	0.88	985	1 509	13 200	0.85	43	**2KJ4131 - ■ BD21 - ■ ■ P1**	
	0.97	895	1 372	13 100	0.94	43	**2KJ4131 - ■ BD21 - ■ ■ N1**	
	1.1	790	1 213	13 400	1.1	43	**2KJ4131 - ■ BD21 - ■ ■ M1**	
	1.2	715	1 102	13 500	1.2	43	**2KJ4131 - ■ BD21 - ■ ■ L1**	
	1.4	630	966	13 700	1.3	43	**2KJ4131 - ■ BD21 - ■ ■ K1**	
	1.5	580	891	13 700	1.4	43	**2KJ4131 - ■ BD21 - ■ ■ J1**	
	1.7	515	789	13 800	1.6	43	**2KJ4131 - ■ BD21 - ■ ■ H1**	
	2	425	657	13 900	2.0	43	**2KJ4131 - ■ BD21 - ■ ■ G1**	
	Z.89-Z39-LHN63MC4							
	0.42	2 090	3 209	18 000	0.8	67	**2KJ4133 - ■ BD21 - ■ ■ N1**	
	0.47	1 860	2 853	18 500	0.9	67	**2KJ4133 - ■ BD21 - ■ ■ M1**	
	0.53	1 630	2 505	18 500	1.0	67	**2KJ4133 - ■ BD21 - ■ ■ L1**	
	0.59	1 480	2 278	18 500	1.1	67	**2KJ4133 - ■ BD21 - ■ ■ K1**	
	0.68	1 270	1 949	18 500	1.3	67	**2KJ4133 - ■ BD21 - ■ ■ J1**	
	0.75	1 150	1 771	18 500	1.5	67	**2KJ4133 - ■ BD21 - ■ ■ H1**	
	0.85	1 020	1 566	18 500	1.6	67	**2KJ4133 - ■ BD21 - ■ ■ G1**	
	0.94	925	1 423	18 500	1.8	67	**2KJ4133 - ■ BD21 - ■ ■ F1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**D.109-Z39-LHN63MC4**							
	0.22	3 850	5 970	20 000	0.8	110	**2KJ4235 - ■ BD21 - ■ ■ A2**	
	0.25	3 430	5 308	20 200	0.9	110	**2KJ4235 - ■ BD21 - ■ ■ X1**	
	0.29	3 010	4 661	20 200	1.0	110	**2KJ4235 - ■ BD21 - ■ ■ W1**	
	0.32	2 730	4 237	20 200	1.1	110	**2KJ4235 - ■ BD21 - ■ ■ V1**	
	0.37	2 340	3 625	20 200	1.3	110	**2KJ4235 - ■ BD21 - ■ ■ U1**	
	0.41	2 130	3 296	20 200	1.5	110	**2KJ4235 - ■ BD21 - ■ ■ T1**	
	0.46	1 880	2 913	20 200	1.6	110	**2KJ4235 - ■ BD21 - ■ ■ S1**	
	0.5	1 710	2 648	20 200	1.8	110	**2KJ4235 - ■ BD21 - ■ ■ R1**	
	D.129-D49-LHN63MC4							
	0.16	5 430	8 490	26 800	0.92	185	**2KJ4238 - ■ BD21 - ■ ■ D1**	
	0.17	5 110	7 991	26 900	0.98	185	**2KJ4238 - ■ BD21 - ■ ■ C1**	
	0.19	4 580	7 160	27 300	1.1	185	**2KJ4238 - ■ BD21 - ■ ■ B1**	
	D.129-Z49-LHN63MC4							
	0.22	3 850	5 963	27 700	1.3	194	**2KJ4237 - ■ BD21 - ■ ■ B2**	
	0.25	3 500	5 420	27 900	1.4	194	**2KJ4237 - ■ BD21 - ■ ■ A2**	
	0.29	2 970	4 610	28 200	1.7	194	**2KJ4237 - ■ BD21 - ■ ■ X1**	
	0.32	2 700	4 191	28 400	1.8	194	**2KJ4237 - ■ BD21 - ■ ■ W1**	
	D.149-D49-LHN63MC4							
	0.09	9 660	15 112	50 300	0.83	271	**2KJ4241 - ■ BD21 - ■ ■ J1**	
	0.1	8 790	13 739	50 800	0.91	271	**2KJ4241 - ■ BD21 - ■ ■ H1**	
	0.11	7 700	12 034	51 300	1.0	271	**2KJ4241 - ■ BD21 - ■ ■ G1**	
	0.12	7 100	11 108	51 600	1.1	271	**2KJ4241 - ■ BD21 - ■ ■ F1**	
	0.14	6 290	9 835	52 000	1.3	271	**2KJ4241 - ■ BD21 - ■ ■ E1**	
	0.16	5 230	8 186	52 500	1.5	271	**2KJ4241 - ■ BD21 - ■ ■ D1**	
	0.17	4 920	7 704	52 600	1.6	271	**2KJ4241 - ■ BD21 - ■ ■ C1**	
	0.19	4 410	6 903	52 900	1.8	271	**2KJ4241 - ■ BD21 - ■ ■ B1**	
	D.169-D69-LHN63MC4							
	0.06	13 500	21 203	70 300	1.0	460	**2KJ4243 - ■ BD21 - ■ ■ M1**	
	0.06	14 900	23 323	69 800	0.94	460	**2KJ4243 - ■ BD21 - ■ ■ N1**	
	0.07	11 600	18 140	71 000	1.2	460	**2KJ4243 - ■ BD21 - ■ ■ L1**	
	0.08	10 500	16 491	71 400	1.3	460	**2KJ4243 - ■ BD21 - ■ ■ K1**	
	0.09	9 320	14 577	71 900	1.5	460	**2KJ4243 - ■ BD21 - ■ ■ J1**	
	0.1	8 470	13 252	72 200	1.7	460	**2KJ4243 - ■ BD21 - ■ ■ H1**	
	0.12	6 850	10 715	72 800	2.0	460	**2KJ4243 - ■ BD21 - ■ ■ F1**	
	0.12	7 420	11 608	72 600	1.9	460	**2KJ4243 - ■ BD21 - ■ ■ G1**	
	D.189-D69-LHN63MC4							
	0.05	15 600	24 424	107 000	1.2	673	**2KJ4245 - ■ BD21 - ■ ■ N1**	
	0.05	17 700	27 816	107 000	1.1	673	**2KJ4245 - ■ BD21 - ■ ■ P1**	
	0.06	14 200	22 204	107 000	1.3	673	**2KJ4245 - ■ BD21 - ■ ■ M1**	
	0.07	12 100	18 996	107 000	1.6	673	**2KJ4245 - ■ BD21 - ■ ■ L1**	
	0.08	11 000	17 269	107 000	1.7	673	**2KJ4245 - ■ BD21 - ■ ■ K1**	
	0.09	9 760	15 265	107 000	1.9	673	**2KJ4245 - ■ BD21 - ■ ■ J1**	
0.18	**D.19-LHN63MD4**							
	15	111	87.21	1 400	0.9	8	**2KJ4201 - ■ BE21 - ■ ■ J1**	
	17	99	78.07	1 600	1.0	8	**2KJ4201 - ■ BE21 - ■ ■ H1**	
	19	88	69.32	1 900	1.1	8	**2KJ4201 - ■ BE21 - ■ ■ G1**	
	21	82	63.99	2 000	1.2	8	**2KJ4201 - ■ BE21 - ■ ■ F1**	
	24	71	55.59	2 200	1.4	8	**2KJ4201 - ■ BE21 - ■ ■ E1**	
	28	62	48.3	2 300	1.6	8	**2KJ4201 - ■ BE21 - ■ ■ D1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.18	**D.19-LHN63MD4**							
	31	56	43.61	2 300	1.8	8	**2KJ4201 - ■ BE21 - ■ ■ C1**	
	33	52	41.04	2 300	1.9	8	**2KJ4201 - ■ BE21 - ■ ■ B1**	
	Z.19-LHN63MA2							
	169	10	16.5	1 900	9.7	8	**2KJ4101 - ■ BB21 - ■ ■ Q1**	**P00**
	189	9.1	14.77	1 800	10	8	**2KJ4101 - ■ BB21 - ■ ■ P1**	**P00**
	213	8.1	13.12	1 700	11	8	**2KJ4101 - ■ BB21 - ■ ■ N1**	**P00**
	230	7.5	12.11	1 700	12	8	**2KJ4101 - ■ BB21 - ■ ■ M1**	**P00**
	265	6.5	10.52	1 600	13	8	**2KJ4101 - ■ BB21 - ■ ■ L1**	**P00**
	305	5.6	9.14	1 500	14	8	**2KJ4101 - ■ BB21 - ■ ■ K1**	**P00**
	338	5.1	8.25	1 500	15	8	**2KJ4101 - ■ BB21 - ■ ■ J1**	**P00**
	360	4.8	7.76	1 500	15	8	**2KJ4101 - ■ BB21 - ■ ■ H1**	**P00**
	446	3.9	6.25	1 300	14	8	**2KJ4101 - ■ BB21 - ■ ■ F1**	**P00**
	Z.19-LHN63MD4							
	39	44	34.97	2 400	2.2	8	**2KJ4101 - ■ BE21 - ■ ■ W1**	
	44	39	30.97	2 400	2.5	8	**2KJ4101 - ■ BE21 - ■ ■ V1**	
	50	34	26.91	2 400	2.9	8	**2KJ4101 - ■ BE21 - ■ ■ U1**	
	55	31	24.46	2 400	3.2	8	**2KJ4101 - ■ BE21 - ■ ■ T1**	
	65	26	20.82	2 500	3.8	8	**2KJ4101 - ■ BE21 - ■ ■ S1**	
	71	24	18.92	2 400	4.2	8	**2KJ4101 - ■ BE21 - ■ ■ R1**	
	82	21	16.5	2 300	4.7	8	**2KJ4101 - ■ BE21 - ■ ■ Q1**	
	91	19	14.77	2 300	5.1	8	**2KJ4101 - ■ BE21 - ■ ■ P1**	
	103	17	13.12	2 200	5.4	8	**2KJ4101 - ■ BE21 - ■ ■ N1**	
	111	15	12.11	2 100	5.7	8	**2KJ4101 - ■ BE21 - ■ ■ M1**	
	128	13	10.52	2 000	6.2	8	**2KJ4101 - ■ BE21 - ■ ■ L1**	
	148	12	9.14	1 900	6.7	8	**2KJ4101 - ■ BE21 - ■ ■ K1**	
	164	10	8.25	1 900	7.0	8	**2KJ4101 - ■ BE21 - ■ ■ J1**	
	174	9.9	7.76	1 800	7.4	8	**2KJ4101 - ■ BE21 - ■ ■ H1**	
	199	8.6	6.77	1 800	7.9	8	**2KJ4101 - ■ BE21 - ■ ■ G1**	
	216	8	6.25	1 700	7.0	8	**2KJ4101 - ■ BE21 - ■ ■ F1**	
	249	6.9	5.43	1 600	7.7	8	**2KJ4101 - ■ BE21 - ■ ■ E1**	
	287	6	4.71	1 600	8.2	8	**2KJ4101 - ■ BE21 - ■ ■ D1**	
	317	5.4	4.26	1 500	8.7	8	**2KJ4101 - ■ BE21 - ■ ■ C1**	
	337	5.1	4.01	1 500	9.0	8	**2KJ4101 - ■ BE21 - ■ ■ B1**	
	D.29-LHN63MD4							
	10	165	129.68	3 000	0.85	10	**2KJ4202 - ■ BE21 - ■ ■ L1**	
	11	150	117.89	3 400	0.93	10	**2KJ4202 - ■ BE21 - ■ ■ K1**	
	13	131	102.79	3 900	1.1	10	**2KJ4202 - ■ BE21 - ■ ■ J1**	
	15	117	92.01	4 000	1.2	10	**2KJ4202 - ■ BE21 - ■ ■ H1**	
	17	104	81.71	4 000	1.3	10	**2KJ4202 - ■ BE21 - ■ ■ G1**	
	18	96	75.42	4 000	1.5	10	**2KJ4202 - ■ BE21 - ■ ■ F1**	
	21	83	65.52	4 000	1.7	10	**2KJ4202 - ■ BE21 - ■ ■ E1**	
	24	72	56.93	4 000	1.9	10	**2KJ4202 - ■ BE21 - ■ ■ D1**	
	26	65	51.4	4 000	2.1	10	**2KJ4202 - ■ BE21 - ■ ■ C1**	
	28	62	48.37	4 000	2.3	10	**2KJ4202 - ■ BE21 - ■ ■ B1**	
	Z.29-LHN63MA2							
	158	11	17.67	2 900	13	9	**2KJ4102 - ■ BB21 - ■ ■ R1**	**P00**
	177	9.7	15.75	2 800	14	9	**2KJ4102 - ■ BB21 - ■ ■ Q1**	**P00**
	192	9	14.54	2 700	13	9	**2KJ4102 - ■ BB21 - ■ ■ P1**	**P00**

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.18	**Z.29-LHN63MD4**							
	33	53	41.4	4 000	2.7	9	**2KJ4102 - ■ BE21 - ■ ■ A2**	
	37	47	36.72	4 000	3.0	9	**2KJ4102 - ■ BE21 - ■ ■ X1**	
	42	41	31.86	4 000	3.5	9	**2KJ4102 - ■ BE21 - ■ ■ W1**	
	47	37	28.96	4 000	3.8	9	**2KJ4102 - ■ BE21 - ■ ■ V1**	
	54	32	24.84	4 000	4.4	9	**2KJ4102 - ■ BE21 - ■ ■ U1**	
	60	29	22.58	3 900	4.9	9	**2KJ4102 - ■ BE21 - ■ ■ T1**	
	68	25	19.8	3 800	5.6	9	**2KJ4102 - ■ BE21 - ■ ■ S1**	
	76	22	17.67	3 700	6.2	9	**2KJ4102 - ■ BE21 - ■ ■ R1**	
	86	20	15.75	3 500	7.0	9	**2KJ4102 - ■ BE21 - ■ ■ Q1**	
	93	18	14.54	3 400	6.5	9	**2KJ4102 - ■ BE21 - ■ ■ P1**	
	106	16	12.73	3 300	8.6	9	**2KJ4102 - ■ BE21 - ■ ■ N1**	
	121	14	11.16	3 200	9.9	9	**2KJ4102 - ■ BE21 - ■ ■ M1**	
	133	13	10.12	3 100	11	9	**2KJ4102 - ■ BE21 - ■ ■ L1**	
	142	12	9.53	3 000	12	9	**2KJ4102 - ■ BE21 - ■ ■ K1**	
	161	11	8.4	2 900	13	9	**2KJ4102 - ■ BE21 - ■ ■ J1**	
	185	9.3	7.29	2 700	14	9	**2KJ4102 - ■ BE21 - ■ ■ H1**	
	195	8.8	6.92	2 700	8.5	9	**2KJ4102 - ■ BE21 - ■ ■ G1**	
	223	7.7	6.06	2 600	13	9	**2KJ4102 - ■ BE21 - ■ ■ F1**	
	254	6.8	5.31	2 500	14	9	**2KJ4102 - ■ BE21 - ■ ■ E1**	
	280	6.1	4.82	2 400	14	9	**2KJ4102 - ■ BE21 - ■ ■ D1**	
	297	5.8	4.54	2 300	14	9	**2KJ4102 - ■ BE21 - ■ ■ C1**	
	338	5.1	4	2 200	15	9	**2KJ4102 - ■ BE21 - ■ ■ B1**	
	D.39-LHN63MD4							
	7.5	230	181.07	3 600	0.87	11	**2KJ4203 - ■ BE21 - ■ ■ P1**	
	8.2	210	164.61	4 100	0.95	11	**2KJ4203 - ■ BE21 - ■ ■ N1**	
	9.6	180	141.17	4 800	1.1	11	**2KJ4203 - ■ BE21 - ■ ■ M1**	
	11	163	128.34	5 200	1.2	11	**2KJ4203 - ■ BE21 - ■ ■ L1**	
	12	143	112.53	5 700	1.4	11	**2KJ4203 - ■ BE21 - ■ ■ K1**	
	13	128	100.44	5 800	1.6	11	**2KJ4203 - ■ BE21 - ■ ■ J1**	
	15	114	89.51	5 800	1.8	11	**2KJ4203 - ■ BE21 - ■ ■ H1**	
	16	105	82.63	5 800	1.9	11	**2KJ4203 - ■ BE21 - ■ ■ G1**	
	19	92	72.34	5 800	2.2	11	**2KJ4203 - ■ BE21 - ■ ■ F1**	
	E.39-LHN63MD4							
	146	12	9.22	3 000	2.6	12	**2KJ4001 - ■ BE21 - ■ ■ S1**	
	165	10	8.2	3 000	3.3	12	**2KJ4001 - ■ BE21 - ■ ■ R1**	
	D.49-LHN63MD4							
	4.8	355	280.89	4 800	0.89	21	**2KJ4204 - ■ BE21 - ■ ■ S1**	
	5.4	315	249.76	5 900	1.0	21	**2KJ4204 - ■ BE21 - ■ ■ R1**	
	6.2	275	219.3	5 900	1.1	21	**2KJ4204 - ■ BE21 - ■ ■ Q1**	
	6.8	250	199.36	6 000	1.3	21	**2KJ4204 - ■ BE21 - ■ ■ P1**	
	7.9	215	170.57	6 100	1.5	21	**2KJ4204 - ■ BE21 - ■ ■ N1**	
	8.7	197	155.06	6 100	1.6	21	**2KJ4204 - ■ BE21 - ■ ■ M1**	
	9.8	175	137.06	6 200	1.8	21	**2KJ4204 - ■ BE21 - ■ ■ L1**	
	11	159	124.6	6 200	2.0	21	**2KJ4204 - ■ BE21 - ■ ■ K1**	
	D.49-LHN71MD6							
	4.5	385	199.36	4 100	0.83	23	**2KJ4204 - ■ CE21 - ■ ■ P1**	**P01**
	D.59-LHN63MD4							
	4.4	390	307.02	7 700	1.2	23	**2KJ4205 - ■ BE21 - ■ ■ S1**	
	4.9	345	272.99	7 800	1.3	23	**2KJ4205 - ■ BE21 - ■ ■ R1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.18	**D.59-LHN63MD4**							
	5.6	305	239.7	7 900	1.5	23	**2KJ4205 - ■ BE21 - ■ ■ Q1**	
	6.2	275	217.91	7 900	1.6	23	**2KJ4205 - ■ BE21 - ■ ■ P1**	
	7.2	235	186.43	8 000	1.9	23	**2KJ4205 - ■ BE21 - ■ ■ N1**	
	8	215	169.48	8 000	2.1	23	**2KJ4205 - ■ BE21 - ■ ■ M1**	
	D.59-LHN71MD6							
	3.3	525	272.99	6 300	0.85	26	**2KJ4205 - ■ CE21 - ■ ■ R1**	**P01**
	3.7	460	239.7	7 600	0.97	26	**2KJ4205 - ■ CE21 - ■ ■ Q1**	**P01**
	4.1	420	217.91	7 700	1.1	26	**2KJ4205 - ■ CE21 - ■ ■ P1**	**P01**
	D.69-LHN63MD4							
	4.1	415	328.49	11 200	1.4	28	**2KJ4206 - ■ BE21 - ■ ■ S1**	
	4.6	370	292.08	11 300	1.6	28	**2KJ4206 - ■ BE21 - ■ ■ R1**	
	5.3	325	256.46	11 400	1.8	28	**2KJ4206 - ■ BE21 - ■ ■ Q1**	
	5.8	295	233.14	11 400	2.0	28	**2KJ4206 - ■ BE21 - ■ ■ P1**	
	D.69-LHN71MD6							
	2.7	630	328.49	10 900	0.95	30	**2KJ4206 - ■ CE21 - ■ ■ S1**	**P01**
	3	560	292.08	11 000	1.1	30	**2KJ4206 - ■ CE21 - ■ ■ R1**	**P01**
	3.5	495	256.46	11 100	1.2	30	**2KJ4206 - ■ CE21 - ■ ■ Q1**	**P01**
	3.8	450	233.14	11 200	1.3	30	**2KJ4206 - ■ CE21 - ■ ■ P1**	**P01**
	D.79-LHN71MD6							
	2.7	635	330.23	13 600	1.3	40	**2KJ4207 - ■ CE21 - ■ ■ S1**	**P01**
	3	580	300.21	13 700	1.4	40	**2KJ4207 - ■ CE21 - ■ ■ R1**	**P01**
	3.5	490	255.33	13 800	1.7	40	**2KJ4207 - ■ CE21 - ■ ■ Q1**	**P01**
	3.8	445	232.12	13 900	1.9	40	**2KJ4207 - ■ CE21 - ■ ■ P1**	**P01**
	Z.39-Z19-LHN63MD4							
	5.7	250	236.97	3 100	0.8	14	**2KJ4122 - ■ BE21 - ■ ■ A1**	
	Z.49-Z19-LHN63MD4							
	3.8	370	353	5 800	0.86	24	**2KJ4124 - ■ BE21 - ■ ■ C1**	
	4.1	340	325.62	5 800	0.93	24	**2KJ4124 - ■ BE21 - ■ ■ B1**	
	4.8	295	282.85	5 900	1.1	24	**2KJ4124 - ■ BE21 - ■ ■ A1**	
	D.59-Z19-LHN63MD4							
	2.7	525	507	6 700	0.85	26	**2KJ4226 - ■ BE21 - ■ ■ E1**	
	3.1	455	440	7 600	0.98	26	**2KJ4226 - ■ BE21 - ■ ■ D1**	
	3.5	395	383	7 700	1.1	26	**2KJ4226 - ■ BE21 - ■ ■ C1**	
	3.9	360	345.36	7 800	1.2	26	**2KJ4226 - ■ BE21 - ■ ■ B1**	
	4.2	335	325.05	7 800	1.3	26	**2KJ4226 - ■ BE21 - ■ ■ A1**	
	D.69-Z19-LHN63MD4							
	2	715	687	10 700	0.84	30	**2KJ4228 - ■ BE21 - ■ ■ H1**	
	2.2	645	620	10 900	0.93	30	**2KJ4228 - ■ BE21 - ■ ■ G1**	
	2.3	605	584	11 000	0.99	30	**2KJ4228 - ■ BE21 - ■ ■ F1**	
	2.5	565	542	11 000	1.1	30	**2KJ4228 - ■ BE21 - ■ ■ E1**	
	2.9	490	471	11 100	1.2	30	**2KJ4228 - ■ BE21 - ■ ■ D1**	
	3.3	425	409	11 200	1.4	30	**2KJ4228 - ■ BE21 - ■ ■ C1**	
	3.6	385	370	11 300	1.6	30	**2KJ4228 - ■ BE21 - ■ ■ B1**	
	3.9	360	347.77	11 300	1.7	30	**2KJ4228 - ■ BE21 - ■ ■ A1**	
	Z.79-Z39-LHN63MD4							
	1.4	1 010	966	13 200	0.83	43	**2KJ4131 - ■ BE21 - ■ ■ K1**	
	1.5	935	891	12 500	0.9	43	**2KJ4131 - ■ BE21 - ■ ■ J1**	
	1.7	830	789	13 400	1.0	43	**2KJ4131 - ■ BE21 - ■ ■ H1**	
	2.1	690	657	13 600	1.2	43	**2KJ4131 - ■ BE21 - ■ ■ G1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.18	**Z.79-Z39-LHN63MD4**							
	2.2	650	618	13 600	1.3	43	**2KJ4131 - ■ BE21 - ■ ■ F1**	
	2.4	580	554	13 700	1.4	43	**2KJ4131 - ■ BE21 - ■ ■ E1**	
	2.9	495	472	13 800	1.7	43	**2KJ4131 - ■ BE21 - ■ ■ D1**	
	3	475	455	13 900	1.8	43	**2KJ4131 - ■ BE21 - ■ ■ C1**	
	Z.89-Z39-LHN63MD4							
	0.69	2 050	1 949	18 200	0.82	67	**2KJ4133 - ■ BE21 - ■ ■ J1**	
	0.76	1 860	1 771	18 500	0.9	67	**2KJ4133 - ■ BE21 - ■ ■ H1**	
	0.86	1 640	1 566	18 500	1.0	67	**2KJ4133 - ■ BE21 - ■ ■ G1**	
	0.95	1 490	1 423	18 500	1.1	67	**2KJ4133 - ■ BE21 - ■ ■ F1**	
	1.1	1 310	1 247	18 500	1.3	67	**2KJ4133 - ■ BE21 - ■ ■ E1**	
	1.2	1 210	1 151	18 500	1.4	67	**2KJ4133 - ■ BE21 - ■ ■ D1**	
	1.3	1 070	1 019	18 500	1.6	67	**2KJ4133 - ■ BE21 - ■ ■ C1**	
	1.6	890	848	18 500	1.9	67	**2KJ4133 - ■ BE21 - ■ ■ B1**	
	1.7	840	798	18 500	2.0	67	**2KJ4133 - ■ BE21 - ■ ■ A1**	
	D.109-Z39-LHN63MD4							
	0.37	3 780	3 625	20 100	0.82	110	**2KJ4235 - ■ BE21 - ■ ■ U1**	
	0.41	3 430	3 296	20 200	0.9	110	**2KJ4235 - ■ BE21 - ■ ■ T1**	
	0.46	3 030	2 913	20 200	1.0	110	**2KJ4235 - ■ BE21 - ■ ■ S1**	
	0.51	2 760	2 648	20 200	1.1	110	**2KJ4235 - ■ BE21 - ■ ■ R1**	
	0.58	2 410	2 320	20 200	1.3	110	**2KJ4235 - ■ BE21 - ■ ■ Q1**	
	0.63	2 230	2 141	20 200	1.4	110	**2KJ4235 - ■ BE21 - ■ ■ P1**	
	0.71	1 970	1 896	20 200	1.6	110	**2KJ4235 - ■ BE21 - ■ ■ N1**	
	0.86	1 640	1 578	20 200	1.9	110	**2KJ4235 - ■ BE21 - ■ ■ M1**	
	0.91	1 540	1 485	20 200	2.0	110	**2KJ4235 - ■ BE21 - ■ ■ L1**	
	D.129-Z49-LHN63MD4							
	0.23	6 210	5 963	26 300	0.8	195	**2KJ4237 - ■ BE21 - ■ ■ B2**	
	0.25	5 650	5 420	26 600	0.88	195	**2KJ4237 - ■ BE21 - ■ ■ A2**	
	0.29	4 800	4 610	27 100	1.0	195	**2KJ4237 - ■ BE21 - ■ ■ X1**	
	0.32	4 370	4 191	27 400	1.1	195	**2KJ4237 - ■ BE21 - ■ ■ W1**	
	0.36	3 890	3 739	27 700	1.3	195	**2KJ4237 - ■ BE21 - ■ ■ V1**	
	0.4	3 490	3 353	27 900	1.4	195	**2KJ4237 - ■ BE21 - ■ ■ U1**	
	0.45	3 150	3 022	28 100	1.6	195	**2KJ4237 - ■ BE21 - ■ ■ T1**	
	0.48	2 900	2 790	28 300	1.7	195	**2KJ4237 - ■ BE21 - ■ ■ S1**	
	0.53	2 650	2 547	28 400	1.9	195	**2KJ4237 - ■ BE21 - ■ ■ R1**	
	D.149-D49-LHN63MD4							
	0.16	8 450	8 186	51 000	0.95	271	**2KJ4241 - ■ BE21 - ■ ■ D1**	
	0.18	7 950	7 704	51 200	1.0	271	**2KJ4241 - ■ BE21 - ■ ■ C1**	
	0.2	7 120	6 903	51 500	1.1	271	**2KJ4241 - ■ BE21 - ■ ■ B1**	
	D.149-Z49-LHN63MD4							
	0.23	5 990	5 749	52 100	1.3	271	**2KJ4240 - ■ BE21 - ■ ■ B2**	
	0.26	5 440	5 226	52 400	1.5	271	**2KJ4240 - ■ BE21 - ■ ■ A2**	
	0.3	4 630	4 445	52 800	1.7	271	**2KJ4240 - ■ BE21 - ■ ■ X1**	
	0.33	4 210	4 041	53 000	1.9	271	**2KJ4240 - ■ BE21 - ■ ■ W1**	
	D.169-D69-LHN63MD4							
	0.08	17 000	16 491	69 000	0.82	460	**2KJ4243 - ■ BE21 - ■ ■ K1**	
	0.09	15 000	14 577	69 700	0.93	460	**2KJ4243 - ■ BE21 - ■ ■ J1**	
	0.1	13 600	13 252	70 300	1.0	460	**2KJ4243 - ■ BE21 - ■ ■ H1**	
	0.12	11 900	11 608	70 900	1.2	460	**2KJ4243 - ■ BE21 - ■ ■ G1**	
	0.13	11 000	10 715	71 200	1.3	460	**2KJ4243 - ■ BE21 - ■ ■ F1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.18	**D.169-D69-LHN63MD4**							
	0.14	9 790	9 487	71 700	1.4	460	**2KJ4243 - ■ BE21 - ■ ■ E1**	
	0.17	8 150	7 896	72 300	1.7	460	**2KJ4243 - ■ BE21 - ■ ■ D1**	
	0.18	7 670	7 431	72 500	1.8	460	**2KJ4243 - ■ BE21 - ■ ■ C1**	
	0.2	6 870	6 659	72 800	2.0	460	**2KJ4243 - ■ BE21 - ■ ■ B1**	
	D.189-D69-LHN63MD4							
	0.06	22 900	22 204	107 000	0.83	673	**2KJ4245 - ■ BE21 - ■ ■ M1**	
	0.07	19 600	18 996	107 000	0.97	673	**2KJ4245 - ■ BE21 - ■ ■ L1**	
	0.08	17 800	17 269	107 000	1.1	673	**2KJ4245 - ■ BE21 - ■ ■ K1**	
	0.09	15 700	15 265	107 000	1.2	673	**2KJ4245 - ■ BE21 - ■ ■ J1**	
	0.1	14 300	13 877	107 000	1.3	673	**2KJ4245 - ■ BE21 - ■ ■ H1**	
	0.11	12 500	12 155	107 000	1.5	673	**2KJ4245 - ■ BE21 - ■ ■ G1**	
	0.12	11 500	11 220	107 000	1.6	673	**2KJ4245 - ■ BE21 - ■ ■ F1**	
	0.14	10 200	9 934	107 000	1.9	673	**2KJ4245 - ■ BE21 - ■ ■ E1**	
0.25	**D.19-LHN71MB4**							
	20	122	69.32	1 200	0.82	10	**2KJ4201 - ■ CC21 - ■ ■ G1**	
	21	113	63.99	1 300	0.89	10	**2KJ4201 - ■ CC21 - ■ ■ F1**	
	24	98	55.59	1 600	1.0	10	**2KJ4201 - ■ CC21 - ■ ■ E1**	
	28	85	48.3	1 900	1.2	10	**2KJ4201 - ■ CC21 - ■ ■ D1**	
	31	77	43.61	2 100	1.3	10	**2KJ4201 - ■ CC21 - ■ ■ C1**	
	33	72	41.04	2 200	1.4	10	**2KJ4201 - ■ CC21 - ■ ■ B1**	
	Z.19-LHN63MB2							
	169	14	16.5	1 800	7.0	8	**2KJ4101 - ■ BC21 - ■ ■ Q1**	**P00**
	189	13	14.77	1 800	7.5	8	**2KJ4101 - ■ BC21 - ■ ■ P1**	**P00**
	213	11	13.12	1 700	8.1	8	**2KJ4101 - ■ BC21 - ■ ■ N1**	**P00**
	230	10	12.11	1 700	8.5	8	**2KJ4101 - ■ BC21 - ■ ■ M1**	**P00**
	265	9	10.52	1 600	9.2	8	**2KJ4101 - ■ BC21 - ■ ■ L1**	**P00**
	305	7.8	9.14	1 500	10	8	**2KJ4101 - ■ BC21 - ■ ■ K1**	**P00**
	338	7.1	8.25	1 500	10	8	**2KJ4101 - ■ BC21 - ■ ■ J1**	**P00**
	360	6.6	7.76	1 400	11	8	**2KJ4101 - ■ BC21 - ■ ■ H1**	**P00**
	412	5.8	6.77	1 400	12	8	**2KJ4101 - ■ BC21 - ■ ■ G1**	**P00**
	446	5.3	6.25	1 300	10	8	**2KJ4101 - ■ BC21 - ■ ■ F1**	**P00**
	514	4.6	5.43	1 300	11	8	**2KJ4101 - ■ BC21 - ■ ■ E1**	**P00**
	592	4	4.71	1 200	12	8	**2KJ4101 - ■ BC21 - ■ ■ D1**	**P00**
	655	3.6	4.26	1 200	13	8	**2KJ4101 - ■ BC21 - ■ ■ C1**	**P00**
	696	3.4	4.01	1 200	13	8	**2KJ4101 - ■ BC21 - ■ ■ B1**	**P00**
	Z.19-LHN71MB4							
	39	62	34.97	2 300	1.6	10	**2KJ4101 - ■ CC21 - ■ ■ W1**	
	44	55	30.97	2 300	1.8	10	**2KJ4101 - ■ CC21 - ■ ■ V1**	
	50	47	26.91	2 400	2.1	10	**2KJ4101 - ■ CC21 - ■ ■ U1**	
	55	43	24.46	2 400	2.3	10	**2KJ4101 - ■ CC21 - ■ ■ T1**	
	65	37	20.82	2 400	2.7	10	**2KJ4101 - ■ CC21 - ■ ■ S1**	
	72	33	18.92	2 400	3.0	10	**2KJ4101 - ■ CC21 - ■ ■ R1**	
	82	29	16.5	2 300	3.4	10	**2KJ4101 - ■ CC21 - ■ ■ Q1**	
	92	26	14.77	2 200	3.7	10	**2KJ4101 - ■ CC21 - ■ ■ P1**	
	103	23	13.12	2 100	3.9	10	**2KJ4101 - ■ CC21 - ■ ■ N1**	
	112	21	12.11	2 100	4.1	10	**2KJ4101 - ■ CC21 - ■ ■ M1**	
	129	18	10.52	2 000	4.5	10	**2KJ4101 - ■ CC21 - ■ ■ L1**	
	148	16	9.14	1 900	4.8	10	**2KJ4101 - ■ CC21 - ■ ■ K1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**Z.19-LHN71MB4**							
	164	14	8.25	1 900	5.1	10	**2KJ4101 - ■ CC21 - ■ ■ J1**	
	175	14	7.76	1 800	5.3	10	**2KJ4101 - ■ CC21 - ■ ■ H1**	
	200	12	6.77	1 700	5.7	10	**2KJ4101 - ■ CC21 - ■ ■ G1**	
	217	11	6.25	1 700	5.1	10	**2KJ4101 - ■ CC21 - ■ ■ F1**	
	250	9.6	5.43	1 600	5.5	10	**2KJ4101 - ■ CC21 - ■ ■ E1**	
	288	8.3	4.71	1 500	5.9	10	**2KJ4101 - ■ CC21 - ■ ■ D1**	
	318	7.5	4.26	1 500	6.3	10	**2KJ4101 - ■ CC21 - ■ ■ C1**	
	338	7.1	4.01	1 500	6.5	10	**2KJ4101 - ■ CC21 - ■ ■ B1**	
	D.29-LHN71MB4							
	15	162	92.01	3 100	0.86	11	**2KJ4202 - ■ CC21 - ■ ■ H1**	
	17	144	81.71	3 600	0.97	11	**2KJ4202 - ■ CC21 - ■ ■ G1**	
	18	133	75.42	3 800	1.1	11	**2KJ4202 - ■ CC21 - ■ ■ F1**	
	21	115	65.52	4 000	1.2	11	**2KJ4202 - ■ CC21 - ■ ■ E1**	
	24	100	56.93	4 000	1.4	11	**2KJ4202 - ■ CC21 - ■ ■ D1**	
	26	91	51.4	4 000	1.5	11	**2KJ4202 - ■ CC21 - ■ ■ C1**	
	28	85	48.37	4 000	1.6	11	**2KJ4202 - ■ CC21 - ■ ■ B1**	
	Z.29-LHN63MB2							
	158	15	17.67	2 900	9.3	10	**2KJ4102 - ■ BC21 - ■ ■ R1**	**P00**
	177	14	15.75	2 800	10	10	**2KJ4102 - ■ BC21 - ■ ■ Q1**	**P00**
	192	12	14.54	2 700	9.6	10	**2KJ4102 - ■ BC21 - ■ ■ P1**	**P00**
	219	11	12.73	2 600	13	10	**2KJ4102 - ■ BC21 - ■ ■ N1**	**P00**
	250	9.6	11.16	2 500	15	10	**2KJ4102 - ■ BC21 - ■ ■ M1**	**P00**
	403	5.9	6.92	2 100	13	10	**2KJ4102 - ■ BC21 - ■ ■ G1**	**P00**
	Z.29-LHN71MB4							
	33	73	41.4	4 000	1.9	11	**2KJ4102 - ■ CC21 - ■ ■ A2**	
	37	65	36.72	4 000	2.2	11	**2KJ4102 - ■ CC21 - ■ ■ X1**	
	43	56	31.86	4 000	2.5	11	**2KJ4102 - ■ CC21 - ■ ■ W1**	
	47	51	28.96	4 000	2.7	11	**2KJ4102 - ■ CC21 - ■ ■ V1**	
	55	44	24.84	4 000	3.2	11	**2KJ4102 - ■ CC21 - ■ ■ U1**	
	60	40	22.58	3 900	3.5	11	**2KJ4102 - ■ CC21 - ■ ■ T1**	
	68	35	19.8	3 700	4.0	11	**2KJ4102 - ■ CC21 - ■ ■ S1**	
	77	31	17.67	3 600	4.5	11	**2KJ4102 - ■ CC21 - ■ ■ R1**	
	86	28	15.75	3 500	5.0	11	**2KJ4102 - ■ CC21 - ■ ■ Q1**	
	93	26	14.54	3 400	4.7	11	**2KJ4102 - ■ CC21 - ■ ■ P1**	
	106	22	12.73	3 300	6.2	11	**2KJ4102 - ■ CC21 - ■ ■ N1**	
	121	20	11.16	3 100	7.1	11	**2KJ4102 - ■ CC21 - ■ ■ M1**	
	134	18	10.12	3 000	7.9	11	**2KJ4102 - ■ CC21 - ■ ■ L1**	
	142	17	9.53	3 000	8.3	11	**2KJ4102 - ■ CC21 - ■ ■ K1**	
	161	15	8.4	2 800	9.3	11	**2KJ4102 - ■ CC21 - ■ ■ J1**	
	186	13	7.29	2 700	10	11	**2KJ4102 - ■ CC21 - ■ ■ H1**	
	196	12	6.92	2 700	6.2	11	**2KJ4102 - ■ CC21 - ■ ■ G1**	
	224	11	6.06	2 500	9.4	11	**2KJ4102 - ■ CC21 - ■ ■ F1**	
	255	9.4	5.31	2 400	9.7	11	**2KJ4102 - ■ CC21 - ■ ■ E1**	
	281	8.5	4.82	2 400	10	11	**2KJ4102 - ■ CC21 - ■ ■ D1**	
	298	8	4.54	2 300	10	11	**2KJ4102 - ■ CC21 - ■ ■ C1**	
	339	7	4	2 200	11	11	**2KJ4102 - ■ CC21 - ■ ■ B1**	
	390	6.1	3.47	2 100	11	11	**2KJ4102 - ■ CC21 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**D.39-LHN71MB4**							
	9.6	245	141.17	3 200	0.8	13	**2KJ4203 - ■ CC21 - ■ ■ M1**	
	11	225	128.34	3 700	0.88	13	**2KJ4203 - ■ CC21 - ■ ■ L1**	
	12	198	112.53	4 400	1.0	13	**2KJ4203 - ■ CC21 - ■ ■ K1**	
	13	177	100.44	4 900	1.1	13	**2KJ4203 - ■ CC21 - ■ ■ J1**	
	15	158	89.51	5 400	1.3	13	**2KJ4203 - ■ CC21 - ■ ■ H1**	
	16	146	82.63	5 700	1.4	13	**2KJ4203 - ■ CC21 - ■ ■ G1**	
	19	127	72.34	5 800	1.6	13	**2KJ4203 - ■ CC21 - ■ ■ F1**	
	21	112	63.43	5 800	1.8	13	**2KJ4203 - ■ CC21 - ■ ■ E1**	
	E.39-LHN71MB4							
	147	16	9.22	3 000	1.8	13	**2KJ4001 - ■ CC21 - ■ ■ S1**	
	165	14	8.2	3 000	2.4	13	**2KJ4001 - ■ CC21 - ■ ■ R1**	
	188	13	7.2	3 000	3.2	13	**2KJ4001 - ■ CC21 - ■ ■ Q1**	
	207	12	6.55	3 000	3.5	13	**2KJ4001 - ■ CC21 - ■ ■ P1**	
	242	9.9	5.6	3 000	4.1	13	**2KJ4001 - ■ CC21 - ■ ■ N1**	
	266	9	5.09	3 000	4.5	13	**2KJ4001 - ■ CC21 - ■ ■ M1**	
	Z.39-LHN71MB4							
	24	99	55.95	5 800	2.0	13	**2KJ4103 - ■ CC21 - ■ ■ A2**	
	27	88	49.75	5 800	2.3	13	**2KJ4103 - ■ CC21 - ■ ■ X1**	
	D.49-LHN71MB4							
	6.2	385	219.3	4 100	0.83	23	**2KJ4204 - ■ CC21 - ■ ■ Q1**	
	6.8	350	199.36	5 000	0.91	23	**2KJ4204 - ■ CC21 - ■ ■ P1**	
	7.9	300	170.57	5 900	1.1	23	**2KJ4204 - ■ CC21 - ■ ■ N1**	
	8.7	270	155.06	6 000	1.2	23	**2KJ4204 - ■ CC21 - ■ ■ M1**	
	9.9	240	137.06	6 000	1.3	23	**2KJ4204 - ■ CC21 - ■ ■ L1**	
	11	220	124.6	6 100	1.5	23	**2KJ4204 - ■ CC21 - ■ ■ K1**	
	12	192	109.14	6 100	1.7	23	**2KJ4204 - ■ CC21 - ■ ■ J1**	
	13	178	100.75	6 100	1.8	23	**2KJ4204 - ■ CC21 - ■ ■ H1**	
	15	157	89.2	6 200	2.0	23	**2KJ4204 - ■ CC21 - ■ ■ G1**	
	D.59-LHN71MB4							
	4.4	540	307.02	6 400	0.83	25	**2KJ4205 - ■ CC21 - ■ ■ S1**	
	5	480	272.99	7 500	0.94	25	**2KJ4205 - ■ CC21 - ■ ■ R1**	
	5.7	420	239.7	7 700	1.1	25	**2KJ4205 - ■ CC21 - ■ ■ Q1**	
	6.2	380	217.91	7 700	1.2	25	**2KJ4205 - ■ CC21 - ■ ■ P1**	
	7.3	325	186.43	7 800	1.4	25	**2KJ4205 - ■ CC21 - ■ ■ N1**	
	8	295	169.48	7 900	1.5	25	**2KJ4205 - ■ CC21 - ■ ■ M1**	
	9	260	149.81	7 900	1.7	25	**2KJ4205 - ■ CC21 - ■ ■ L1**	
	9.9	240	136.19	8 000	1.9	25	**2KJ4205 - ■ CC21 - ■ ■ K1**	
	11	210	119.3	8 000	2.1	25	**2KJ4205 - ■ CC21 - ■ ■ J1**	
	D.69-LHN71MB4							
	4.1	575	328.49	11 000	1.0	30	**2KJ4206 - ■ CC21 - ■ ■ S1**	
	4.6	515	292.08	11 100	1.2	30	**2KJ4206 - ■ CC21 - ■ ■ R1**	
	5.3	450	256.46	11 200	1.3	30	**2KJ4206 - ■ CC21 - ■ ■ Q1**	
	5.8	410	233.14	11 300	1.5	30	**2KJ4206 - ■ CC21 - ■ ■ P1**	
	6.8	350	199.47	11 300	1.7	30	**2KJ4206 - ■ CC21 - ■ ■ N1**	
	7.5	320	181.33	11 400	1.9	30	**2KJ4206 - ■ CC21 - ■ ■ M1**	
	8.5	280	160.29	11 500	2.1	30	**2KJ4206 - ■ CC21 - ■ ■ L1**	
	D.69-LHN71MF6							
	3.4	695	256.46	10 800	0.86	31	**2KJ4206 - ■ CG21 - ■ ■ Q1**	**P01**
	3.8	630	233.14	10 900	0.95	31	**2KJ4206 - ■ CG21 - ■ ■ P1**	**P01**

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.25	**D.79-LHN71MB4**							
	4.1	580	330.23	13 700	1.4	40	**2KJ4207 - ■ CC21 - ■ ■ S1**	
	4.5	525	300.21	13 800	1.6	40	**2KJ4207 - ■ CC21 - ■ ■ R1**	
	5.3	450	255.33	13 900	1.9	40	**2KJ4207 - ■ CC21 - ■ ■ Q1**	
	5.8	405	232.12	13 900	2.1	40	**2KJ4207 - ■ CC21 - ■ ■ P1**	
	D.79-LHN71MF6							
	2.7	895	330.23	12 800	0.94	41	**2KJ4207 - ■ CG21 - ■ ■ S1**	**P01**
	2.9	810	300.21	13 400	1.0	41	**2KJ4207 - ■ CG21 - ■ ■ R1**	**P01**
	3.4	690	255.33	13 600	1.2	41	**2KJ4207 - ■ CG21 - ■ ■ Q1**	**P01**
	3.8	630	232.12	13 700	1.3	41	**2KJ4207 - ■ CG21 - ■ ■ P1**	**P01**
	D.59-Z19-LHN71MB4							
	3.9	520	345.36	6 800	0.86	27	**2KJ4226 - ■ CC21 - ■ ■ B1**	
	4.2	490	325.05	7 300	0.92	27	**2KJ4226 - ■ CC21 - ■ ■ A1**	
	D.69-Z19-LHN71MB4							
	2.9	710	471	10 700	0.84	32	**2KJ4228 - ■ CC21 - ■ ■ D1**	
	3.3	615	409	10 900	0.97	32	**2KJ4228 - ■ CC21 - ■ ■ C1**	
	3.7	555	370	11 000	1.1	32	**2KJ4228 - ■ CC21 - ■ ■ B1**	
	3.9	520	347.77	11 100	1.1	32	**2KJ4228 - ■ CC21 - ■ ■ A1**	
	Z.79-Z39-LHN71MB4							
	2.1	1 000	657	13 200	0.84	45	**2KJ4131 - ■ CC21 - ■ ■ G1**	
	2.2	940	618	13 300	0.89	45	**2KJ4131 - ■ CC21 - ■ ■ F1**	
	2.4	840	554	13 400	1.0	45	**2KJ4131 - ■ CC21 - ■ ■ E1**	
	2.9	715	472	13 500	1.2	45	**2KJ4131 - ■ CC21 - ■ ■ D1**	
	3	690	455	13 600	1.2	45	**2KJ4131 - ■ CC21 - ■ ■ C1**	
	3.6	575	379	13 700	1.5	45	**2KJ4131 - ■ CC21 - ■ ■ B1**	
	D.89-Z39-LHN71MB4							
	1.9	1 070	715	18 500	1.6	70	**2KJ4233 - ■ CC21 - ■ ■ H1**	
	2	1 010	673	18 500	1.7	70	**2KJ4233 - ■ CC21 - ■ ■ G1**	
	2.2	905	603	18 500	1.8	70	**2KJ4233 - ■ CC21 - ■ ■ F1**	
	Z.89-Z39-LHN71MB4							
	1.1	1 900	1 247	18 500	0.88	69	**2KJ4133 - ■ CC21 - ■ ■ E1**	
	1.2	1 750	1 151	18 500	0.96	69	**2KJ4133 - ■ CC21 - ■ ■ D1**	
	1.3	1 550	1 019	18 500	1.1	69	**2KJ4133 - ■ CC21 - ■ ■ C1**	
	1.6	1 290	848	18 500	1.3	69	**2KJ4133 - ■ CC21 - ■ ■ B1**	
	1.7	1 210	798	18 500	1.4	69	**2KJ4133 - ■ CC21 - ■ ■ A1**	
	D.109-Z39-LHN71MB4							
	0.58	3 490	2 320	20 200	0.89	112	**2KJ4235 - ■ CC21 - ■ ■ Q1**	
	0.63	3 220	2 141	20 200	0.96	112	**2KJ4235 - ■ CC21 - ■ ■ P1**	
	0.71	2 850	1 896	20 200	1.1	112	**2KJ4235 - ■ CC21 - ■ ■ N1**	
	0.86	2 380	1 578	20 200	1.3	112	**2KJ4235 - ■ CC21 - ■ ■ M1**	
	0.91	2 230	1 485	20 200	1.4	112	**2KJ4235 - ■ CC21 - ■ ■ L1**	
	1	2 000	1 331	20 200	1.5	112	**2KJ4235 - ■ CC21 - ■ ■ K1**	
	1.2	1 700	1 133	20 200	1.8	112	**2KJ4235 - ■ CC21 - ■ ■ J1**	
	D.129-Z49-LHN71MB4							
	0.36	5 630	3 739	26 600	0.89	197	**2KJ4237 - ■ CC21 - ■ ■ V1**	
	0.4	5 050	3 353	27 000	0.99	197	**2KJ4237 - ■ CC21 - ■ ■ U1**	
	0.45	4 550	3 022	27 300	1.1	197	**2KJ4237 - ■ CC21 - ■ ■ T1**	
	0.49	4 200	2 790	27 500	1.2	197	**2KJ4237 - ■ CC21 - ■ ■ S1**	
	0.53	3 840	2 547	27 700	1.3	197	**2KJ4237 - ■ CC21 - ■ ■ R1**	
	0.64	3 180	2 113	28 100	1.6	197	**2KJ4237 - ■ CC21 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**D.129-Z49-LHN71MB4**							
	0.68	3 000	1 989	28 200	1.7	197	**2KJ4237 - ■ CC21 - ■ ■ P1**	
	0.72	2 830	1 878	28 300	1.8	197	**2KJ4237 - ■ CC21 - ■ ■ N1**	
	D.149-Z49-LHN71MB4							
	0.24	8 670	5 749	50 800	0.92	273	**2KJ4240 - ■ CC21 - ■ ■ B2**	
	0.26	7 880	5 226	51 200	1.0	273	**2KJ4240 - ■ CC21 - ■ ■ A2**	
	0.3	6 700	4 445	51 800	1.2	273	**2KJ4240 - ■ CC21 - ■ ■ X1**	
	0.34	6 090	4 041	52 100	1.3	273	**2KJ4240 - ■ CC21 - ■ ■ W1**	
	0.38	5 430	3 605	52 400	1.5	273	**2KJ4240 - ■ CC21 - ■ ■ V1**	
	0.42	4 870	3 233	52 700	1.6	273	**2KJ4240 - ■ CC21 - ■ ■ U1**	
	0.46	4 390	2 914	52 900	1.8	273	**2KJ4240 - ■ CC21 - ■ ■ T1**	
	0.5	4 050	2 690	53 100	2.0	273	**2KJ4240 - ■ CC21 - ■ ■ S1**	
	D.169-D69-LHN71MB4							
	0.12	17 300	11 608	68 900	0.81	462	**2KJ4243 - ■ CC21 - ■ ■ G1**	
	0.13	15 900	10 715	69 400	0.88	462	**2KJ4243 - ■ CC21 - ■ ■ F1**	
	0.14	14 100	9 487	70 100	0.99	462	**2KJ4243 - ■ CC21 - ■ ■ E1**	
	0.17	11 700	7 896	71 000	1.2	462	**2KJ4243 - ■ CC21 - ■ ■ D1**	
	0.18	11 000	7 431	71 200	1.3	462	**2KJ4243 - ■ CC21 - ■ ■ C1**	
	0.2	9 940	6 659	71 600	1.4	462	**2KJ4243 - ■ CC21 - ■ ■ B1**	
	D.169-Z69-LHN71MB4							
	0.24	8 360	5 545	72 200	1.7	462	**2KJ4242 - ■ CC21 - ■ ■ A2**	
	0.27	7 600	5 041	72 500	1.8	462	**2KJ4242 - ■ CC21 - ■ ■ X1**	
	D.189-D69-LHN71MB4							
	0.09	22 700	15 265	107 000	0.83	675	**2KJ4245 - ■ CC21 - ■ ■ J1**	
	0.1	20 700	13 877	107 000	0.92	675	**2KJ4245 - ■ CC21 - ■ ■ H1**	
	0.11	18 100	12 155	107 000	1.0	675	**2KJ4245 - ■ CC21 - ■ ■ G1**	
	0.12	16 700	11 220	107 000	1.1	675	**2KJ4245 - ■ CC21 - ■ ■ F1**	
	0.14	14 800	9 934	107 000	1.3	675	**2KJ4245 - ■ CC21 - ■ ■ E1**	
	0.16	12 300	8 269	107 000	1.5	675	**2KJ4245 - ■ CC21 - ■ ■ D1**	
	0.17	11 600	7 782	107 000	1.6	675	**2KJ4245 - ■ CC21 - ■ ■ C1**	
	0.19	10 400	6 973	107 000	1.8	675	**2KJ4245 - ■ CC21 - ■ ■ B1**	
0.37	**D.19-LHN71MD4**							
	28	125	48.3	1 100	0.8	10	**2KJ4201 - ■ CE21 - ■ ■ D1**	
	31	113	43.61	1 300	0.88	10	**2KJ4201 - ■ CE21 - ■ ■ C1**	
	33	107	41.04	1 500	0.94	10	**2KJ4201 - ■ CE21 - ■ ■ B1**	
	Z.19-LHN71MA2							
	171	21	16.5	1 800	4.8	9	**2KJ4101 - ■ CB21 - ■ ■ Q1**	**P00**
	191	18	14.77	1 700	5.1	9	**2KJ4101 - ■ CB21 - ■ ■ P1**	**P00**
	215	16	13.12	1 700	5.5	9	**2KJ4101 - ■ CB21 - ■ ■ N1**	**P00**
	233	15	12.11	1 600	5.8	9	**2KJ4101 - ■ CB21 - ■ ■ M1**	**P00**
	268	13	10.52	1 600	6.3	9	**2KJ4101 - ■ CB21 - ■ ■ L1**	**P00**
	309	12	9.14	1 500	6.8	9	**2KJ4101 - ■ CB21 - ■ ■ K1**	**P00**
	342	10	8.25	1 500	7.2	9	**2KJ4101 - ■ CB21 - ■ ■ J1**	**P00**
	363	9.7	7.76	1 400	7.5	9	**2KJ4101 - ■ CB21 - ■ ■ H1**	**P00**
	417	8.5	6.77	1 400	8.0	9	**2KJ4101 - ■ CB21 - ■ ■ G1**	**P00**
	451	7.8	6.25	1 300	7.2	9	**2KJ4101 - ■ CB21 - ■ ■ F1**	**P00**
	519	6.8	5.43	1 200	7.8	9	**2KJ4101 - ■ CB21 - ■ ■ E1**	**P00**
	599	5.9	4.71	1 200	8.3	9	**2KJ4101 - ■ CB21 - ■ ■ D1**	**P00**
	662	5.3	4.26	1 200	8.8	9	**2KJ4101 - ■ CB21 - ■ ■ C1**	**P00**
	703	5	4.01	1 100	9.2	9	**2KJ4101 - ■ CB21 - ■ ■ B1**	**P00**

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.37	**Z.19-LHN71MD4**							
	39	91	34.97	1 800	1.1	10	**2KJ4101 - ■ CE21 - ■ ■ W1**	
	44	80	30.97	2 000	1.2	10	**2KJ4101 - ■ CE21 - ■ ■ V1**	
	51	70	26.91	2 200	1.4	10	**2KJ4101 - ■ CE21 - ■ ■ U1**	
	56	64	24.46	2 300	1.6	10	**2KJ4101 - ■ CE21 - ■ ■ T1**	
	65	54	20.82	2 300	1.8	10	**2KJ4101 - ■ CE21 - ■ ■ S1**	
	72	49	18.92	2 300	2.0	10	**2KJ4101 - ■ CE21 - ■ ■ R1**	
	82	43	16.5	2 200	2.3	10	**2KJ4101 - ■ CE21 - ■ ■ Q1**	
	92	38	14.77	2 100	2.5	10	**2KJ4101 - ■ CE21 - ■ ■ P1**	
	104	34	13.12	2 100	2.7	10	**2KJ4101 - ■ CE21 - ■ ■ N1**	
	112	32	12.11	2 000	2.8	10	**2KJ4101 - ■ CE21 - ■ ■ M1**	
	129	27	10.52	1 900	3.0	10	**2KJ4101 - ■ CE21 - ■ ■ L1**	
	149	24	9.14	1 900	3.3	10	**2KJ4101 - ■ CE21 - ■ ■ K1**	
	165	21	8.25	1 800	3.5	10	**2KJ4101 - ■ CE21 - ■ ■ J1**	
	175	20	7.76	1 800	3.6	10	**2KJ4101 - ■ CE21 - ■ ■ H1**	
	201	18	6.77	1 700	3.9	10	**2KJ4101 - ■ CE21 - ■ ■ G1**	
	218	16	6.25	1 600	3.4	10	**2KJ4101 - ■ CE21 - ■ ■ F1**	
	250	14	5.43	1 500	3.8	10	**2KJ4101 - ■ CE21 - ■ ■ E1**	
	289	12	4.71	1 500	4.0	10	**2KJ4101 - ■ CE21 - ■ ■ D1**	
	319	11	4.26	1 400	4.2	10	**2KJ4101 - ■ CE21 - ■ ■ C1**	
	339	10	4.01	1 400	4.4	10	**2KJ4101 - ■ CE21 - ■ ■ B1**	
	D.29-LHN71MD4							
	21	170	65.52	2 900	0.82	12	**2KJ4202 - ■ CE21 - ■ ■ E1**	
	24	148	56.93	3 400	0.95	12	**2KJ4202 - ■ CE21 - ■ ■ D1**	
	26	134	51.4	3 800	1.0	12	**2KJ4202 - ■ CE21 - ■ ■ C1**	
	28	126	48.37	4 000	1.1	12	**2KJ4202 - ■ CE21 - ■ ■ B1**	
	Z.29-LHN71MA2							
	160	22	17.67	2 800	6.3	11	**2KJ4102 - ■ CB21 - ■ ■ R1**	**P00**
	179	20	15.75	2 700	7.1	11	**2KJ4102 - ■ CB21 - ■ ■ Q1**	**P00**
	194	18	14.54	2 700	6.6	11	**2KJ4102 - ■ CB21 - ■ ■ P1**	**P00**
	222	16	12.73	2 500	8.8	11	**2KJ4102 - ■ CB21 - ■ ■ N1**	**P00**
	253	14	11.16	2 400	10	11	**2KJ4102 - ■ CB21 - ■ ■ M1**	**P00**
	279	13	10.12	2 400	11	11	**2KJ4102 - ■ CB21 - ■ ■ L1**	**P00**
	296	12	9.53	2 300	12	11	**2KJ4102 - ■ CB21 - ■ ■ K1**	**P00**
	336	10	8.4	2 200	13	11	**2KJ4102 - ■ CB21 - ■ ■ J1**	**P00**
	387	9.1	7.29	2 100	14	11	**2KJ4102 - ■ CB21 - ■ ■ H1**	**P00**
	408	8.7	6.92	2 100	8.6	11	**2KJ4102 - ■ CB21 - ■ ■ G1**	**P00**
	465	7.6	6.06	2 000	13	11	**2KJ4102 - ■ CB21 - ■ ■ F1**	**P00**
	531	6.7	5.31	1 900	14	11	**2KJ4102 - ■ CB21 - ■ ■ E1**	**P00**
	585	6	4.82	1 800	14	11	**2KJ4102 - ■ CB21 - ■ ■ D1**	**P00**
	621	5.7	4.54	1 800	15	11	**2KJ4102 - ■ CB21 - ■ ■ C1**	**P00**
	705	5	4	1 700	15	11	**2KJ4102 - ■ CB21 - ■ ■ B1**	**P00**
	Z.29-LHN71MD4							
	33	108	41.4	4 000	1.3	12	**2KJ4102 - ■ CE21 - ■ ■ A2**	
	37	95	36.72	4 000	1.5	12	**2KJ4102 - ■ CE21 - ■ ■ X1**	
	43	83	31.86	4 000	1.7	12	**2KJ4102 - ■ CE21 - ■ ■ W1**	
	47	75	28.96	4 000	1.9	12	**2KJ4102 - ■ CE21 - ■ ■ V1**	
	55	64	24.84	3 900	2.2	12	**2KJ4102 - ■ CE21 - ■ ■ U1**	
	60	59	22.58	3 800	2.4	12	**2KJ4102 - ■ CE21 - ■ ■ T1**	
	69	51	19.8	3 600	2.7	12	**2KJ4102 - ■ CE21 - ■ ■ S1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.37	**Z.29-LHN71MD4**							
	77	46	17.67	3 500	3.0	12	**2KJ4102 - ■ CE21 - ■ ■ R1**	
	86	41	15.75	3 400	3.4	12	**2KJ4102 - ■ CE21 - ■ ■ Q1**	
	94	38	14.54	3 300	3.2	12	**2KJ4102 - ■ CE21 - ■ ■ P1**	
	107	33	12.73	3 200	4.2	12	**2KJ4102 - ■ CE21 - ■ ■ N1**	
	122	29	11.16	3 100	4.8	12	**2KJ4102 - ■ CE21 - ■ ■ M1**	
	134	26	10.12	3 000	5.3	12	**2KJ4102 - ■ CE21 - ■ ■ L1**	
	143	25	9.53	2 900	5.7	12	**2KJ4102 - ■ CE21 - ■ ■ K1**	
	162	22	8.4	2 800	6.3	12	**2KJ4102 - ■ CE21 - ■ ■ J1**	
	187	19	7.29	2 700	6.9	12	**2KJ4102 - ■ CE21 - ■ ■ H1**	
	197	18	6.92	2 600	4.2	12	**2KJ4102 - ■ CE21 - ■ ■ G1**	
	224	16	6.06	2 500	6.4	12	**2KJ4102 - ■ CE21 - ■ ■ F1**	
	256	14	5.31	2 400	6.6	12	**2KJ4102 - ■ CE21 - ■ ■ E1**	
	282	12	4.82	2 300	6.9	12	**2KJ4102 - ■ CE21 - ■ ■ D1**	
	300	12	4.54	2 300	7.1	12	**2KJ4102 - ■ CE21 - ■ ■ C1**	
	340	10	4	2 200	7.3	12	**2KJ4102 - ■ CE21 - ■ ■ B1**	
	392	9	3.47	2 100	7.8	12	**2KJ4102 - ■ CE21 - ■ ■ A1**	
	D.39-LHN71MD4							
	15	230	89.51	3 600	0.86	14	**2KJ4203 - ■ CE21 - ■ ■ H1**	
	16	215	82.63	3 900	0.93	14	**2KJ4203 - ■ CE21 - ■ ■ G1**	
	19	188	72.34	4 600	1.1	14	**2KJ4203 - ■ CE21 - ■ ■ F1**	
	21	165	63.43	5 200	1.2	14	**2KJ4203 - ■ CE21 - ■ ■ E1**	
	E.39-LHN71MD4							
	148	24	9.22	3 000	1.3	14	**2KJ4001 - ■ CE21 - ■ ■ S1**	
	166	21	8.2	3 000	1.6	14	**2KJ4001 - ■ CE21 - ■ ■ R1**	
	189	19	7.2	3 000	2.1	14	**2KJ4001 - ■ CE21 - ■ ■ Q1**	
	208	17	6.55	3 000	2.4	14	**2KJ4001 - ■ CE21 - ■ ■ P1**	
	243	14	5.6	3 000	2.7	14	**2KJ4001 - ■ CE21 - ■ ■ N1**	
	267	13	5.09	3 000	3.0	14	**2KJ4001 - ■ CE21 - ■ ■ M1**	
	302	12	4.5	3 000	4.1	14	**2KJ4001 - ■ CE21 - ■ ■ L1**	
	333	11	4.09	3 000	4.5	14	**2KJ4001 - ■ CE21 - ■ ■ K1**	
	Z.39-LHN71MD4							
	24	145	55.95	5 700	1.4	13	**2KJ4103 - ■ CE21 - ■ ■ A2**	
	27	129	49.75	5 800	1.5	13	**2KJ4103 - ■ CE21 - ■ ■ X1**	
	31	113	43.68	5 800	1.8	13	**2KJ4103 - ■ CE21 - ■ ■ W1**	
	34	103	39.71	5 800	1.9	13	**2KJ4103 - ■ CE21 - ■ ■ V1**	
	40	88	33.97	5 800	2.3	13	**2KJ4103 - ■ CE21 - ■ ■ U1**	
	44	80	30.88	5 800	2.5	13	**2KJ4103 - ■ CE21 - ■ ■ T1**	
	50	71	27.3	5 800	2.8	13	**2KJ4103 - ■ CE21 - ■ ■ S1**	
	D.49-LHN71MD4							
	9.9	355	137.06	4 800	0.9	23	**2KJ4204 - ■ CE21 - ■ ■ L1**	
	11	320	124.6	5 700	0.99	23	**2KJ4204 - ■ CE21 - ■ ■ K1**	
	12	280	109.14	5 900	1.1	23	**2KJ4204 - ■ CE21 - ■ ■ J1**	
	13	260	100.75	6 000	1.2	23	**2KJ4204 - ■ CE21 - ■ ■ H1**	
	15	230	89.2	6 000	1.4	23	**2KJ4204 - ■ CE21 - ■ ■ G1**	
	18	193	74.24	6 100	1.7	23	**2KJ4204 - ■ CE21 - ■ ■ F1**	
	19	182	69.88	6 100	1.8	23	**2KJ4204 - ■ CE21 - ■ ■ E1**	
	22	163	62.61	6 200	2.0	23	**2KJ4204 - ■ CE21 - ■ ■ D1**	
	E.49-LHN71MD4							
	140	25	9.7	4 000	3.4	19	**2KJ4002 - ■ CE21 - ■ ■ S1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.37	**Z.49-LHN71MD4**							
	26	135	52.14	6 200	2.4	23	**2KJ4104 - ■ CE21 - ■ ■ B2**	
	D.59-LHN71MD4							
	7.3	480	186.43	7 500	0.93	26	**2KJ4205 - ■ CE21 - ■ ■ N1**	
	8	440	169.48	7 600	1.0	26	**2KJ4205 - ■ CE21 - ■ ■ M1**	
	9.1	385	149.81	7 700	1.2	26	**2KJ4205 - ■ CE21 - ■ ■ L1**	
	10	350	136.19	7 800	1.3	26	**2KJ4205 - ■ CE21 - ■ ■ K1**	
	11	310	119.3	7 800	1.5	26	**2KJ4205 - ■ CE21 - ■ ■ J1**	
	12	285	110.12	7 900	1.6	26	**2KJ4205 - ■ CE21 - ■ ■ H1**	
	14	250	97.5	7 900	1.8	26	**2KJ4205 - ■ CE21 - ■ ■ G1**	
	17	210	81.15	8 000	2.1	26	**2KJ4205 - ■ CE21 - ■ ■ F1**	
	18	198	76.38	8 000	2.3	26	**2KJ4205 - ■ CE21 - ■ ■ E1**	
	D.69-LHN71MD4							
	5.3	665	256.46	10 800	0.9	30	**2KJ4206 - ■ CE21 - ■ ■ Q1**	
	5.8	605	233.14	11 000	0.99	30	**2KJ4206 - ■ CE21 - ■ ■ P1**	
	6.8	515	199.47	11 100	1.2	30	**2KJ4206 - ■ CE21 - ■ ■ N1**	
	7.5	470	181.33	11 200	1.3	30	**2KJ4206 - ■ CE21 - ■ ■ M1**	
	8.5	415	160.29	11 200	1.4	30	**2KJ4206 - ■ CE21 - ■ ■ L1**	
	9.3	375	145.71	11 300	1.6	30	**2KJ4206 - ■ CE21 - ■ ■ K1**	
	11	330	127.63	11 400	1.8	30	**2KJ4206 - ■ CE21 - ■ ■ J1**	
	12	305	117.82	11 400	2.0	30	**2KJ4206 - ■ CE21 - ■ ■ H1**	
	13	270	104.31	11 500	2.2	30	**2KJ4206 - ■ CE21 - ■ ■ G1**	
	D.79-LHN71MD4							
	4.1	855	330.23	13 400	0.98	40	**2KJ4207 - ■ CE21 - ■ ■ S1**	
	4.5	780	300.21	13 500	1.1	40	**2KJ4207 - ■ CE21 - ■ ■ R1**	
	5.3	660	255.33	13 600	1.3	40	**2KJ4207 - ■ CE21 - ■ ■ Q1**	
	5.9	600	232.12	13 700	1.4	40	**2KJ4207 - ■ CE21 - ■ ■ P1**	
	6.6	535	207.1	13 800	1.6	40	**2KJ4207 - ■ CE21 - ■ ■ N1**	
	7.3	480	185.7	13 800	1.7	40	**2KJ4207 - ■ CE21 - ■ ■ M1**	
	8.1	435	167.39	13 900	1.9	40	**2KJ4207 - ■ CE21 - ■ ■ L1**	
	8.8	400	154.51	13 900	2.1	40	**2KJ4207 - ■ CE21 - ■ ■ K1**	
	Z.79-Z39-LHN71MD4							
	3.6	880	379	13 300	0.95	45	**2KJ4131 - ■ CE21 - ■ ■ B1**	
	D.89-Z39-LHN71MD4							
	1.9	1 640	715	18 500	1.0	70	**2KJ4233 - ■ CE21 - ■ ■ H1**	
	2	1 550	673	18 500	1.1	70	**2KJ4233 - ■ CE21 - ■ ■ G1**	
	2.3	1 380	603	18 500	1.2	70	**2KJ4233 - ■ CE21 - ■ ■ F1**	
	2.7	1 180	513	18 500	1.4	70	**2KJ4233 - ■ CE21 - ■ ■ E1**	
	2.8	1 100	480	18 500	1.5	70	**2KJ4233 - ■ CE21 - ■ ■ D1**	
	3	1 040	452	18 500	1.6	70	**2KJ4233 - ■ CE21 - ■ ■ C1**	
	3.4	930	405	18 500	1.8	70	**2KJ4233 - ■ CE21 - ■ ■ B1**	
	Z.89-Z39-LHN71MD4							
	1.6	1 970	848	18 500	0.85	70	**2KJ4133 - ■ CE21 - ■ ■ B1**	
	1.7	1 850	798	18 500	0.9	70	**2KJ4133 - ■ CE21 - ■ ■ A1**	
	D.109-Z39-LHN71MD4							
	0.86	3 630	1 578	20 200	0.85	113	**2KJ4235 - ■ CE21 - ■ ■ M1**	
	0.92	3 420	1 485	20 200	0.91	113	**2KJ4235 - ■ CE21 - ■ ■ L1**	
	1	3 060	1 331	20 200	1.0	113	**2KJ4235 - ■ CE21 - ■ ■ K1**	
	1.2	2 610	1 133	20 200	1.2	113	**2KJ4235 - ■ CE21 - ■ ■ J1**	
	2	1 590	690	20 200	2.0	113	**2KJ4235 - ■ CE21 - ■ ■ F1**	

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.37	**D.129-Z49-LHN71MD4**							
	0.53	5 860	2 547	26 500	0.85	197	**2KJ4237 - ■ CE21 - ■ ■ R1**	
	0.64	4 860	2 113	27 100	1.0	197	**2KJ4237 - ■ CE21 - ■ ■ Q1**	
	0.68	4 580	1 989	27 300	1.1	197	**2KJ4237 - ■ CE21 - ■ ■ P1**	
	0.72	4 320	1 878	27 400	1.2	197	**2KJ4237 - ■ CE21 - ■ ■ N1**	
	0.85	3 680	1 598	27 800	1.4	197	**2KJ4237 - ■ CE21 - ■ ■ M1**	
	D.149-Z49-LHN71MD4							
	0.34	9 310	4 041	50 500	0.86	273	**2KJ4240 - ■ CE21 - ■ ■ W1**	
	0.38	8 300	3 605	51 000	0.96	273	**2KJ4240 - ■ CE21 - ■ ■ V1**	
	0.42	7 440	3 233	51 400	1.1	273	**2KJ4240 - ■ CE21 - ■ ■ U1**	
	0.47	6 710	2 914	51 800	1.2	273	**2KJ4240 - ■ CE21 - ■ ■ T1**	
	0.51	6 190	2 690	52 000	1.3	273	**2KJ4240 - ■ CE21 - ■ ■ S1**	
	0.55	5 650	2 455	52 300	1.4	273	**2KJ4240 - ■ CE21 - ■ ■ R1**	
	0.67	4 690	2 037	52 700	1.7	273	**2KJ4240 - ■ CE21 - ■ ■ Q1**	
	0.71	4 410	1 917	52 900	1.8	273	**2KJ4240 - ■ CE21 - ■ ■ P1**	
	0.75	4 170	1 811	53 000	1.9	273	**2KJ4240 - ■ CE21 - ■ ■ N1**	
	D.169-D69-LHN71MD4							
	0.18	16 900	7 431	69 000	0.83	463	**2KJ4243 - ■ CE21 - ■ ■ C1**	
	0.2	15 100	6 659	69 700	0.92	463	**2KJ4243 - ■ CE21 - ■ ■ B1**	
	D.169-Z69-LHN71MD4							
	0.25	12 700	5 545	70 600	1.1	462	**2KJ4242 - ■ CE21 - ■ ■ A2**	
	0.27	11 600	5 041	71 000	1.2	462	**2KJ4242 - ■ CE21 - ■ ■ X1**	
	0.32	9 870	4 287	71 700	1.4	462	**2KJ4242 - ■ CE21 - ■ ■ W1**	
	0.35	8 980	3 898	72 000	1.6	462	**2KJ4242 - ■ CE21 - ■ ■ V1**	
	0.39	8 010	3 478	72 400	1.7	462	**2KJ4242 - ■ CE21 - ■ ■ U1**	
	0.44	7 180	3 118	72 700	1.9	462	**2KJ4242 - ■ CE21 - ■ ■ T1**	
	D.189-D69-LHN71MD4							
	0.14	22 600	9 934	107 000	0.84	676	**2KJ4245 - ■ CE21 - ■ ■ E1**	
	0.16	18 800	8 269	107 000	1.0	676	**2KJ4245 - ■ CE21 - ■ ■ D1**	
	0.17	17 700	7 782	107 000	1.1	676	**2KJ4245 - ■ CE21 - ■ ■ C1**	
	0.2	15 900	6 973	107 000	1.2	676	**2KJ4245 - ■ CE21 - ■ ■ B1**	
	D.189-Z69-LHN71MD4							
	0.23	13 300	5 807	107 000	1.4	676	**2KJ4244 - ■ CE21 - ■ ■ A2**	
	0.26	12 100	5 279	107 000	1.6	676	**2KJ4244 - ■ CE21 - ■ ■ X1**	
	0.3	10 300	4 490	107 000	1.8	676	**2KJ4244 - ■ CE21 - ■ ■ W1**	
	0.33	9 400	4 082	107 000	2.0	676	**2KJ4244 - ■ CE21 - ■ ■ V1**	
0.55	**Z.19-LHN71MC2**							
	171	31	16.5	1 700	3.2	10	**2KJ4101 - ■ CD21 - ■ ■ Q1**	**P00**
	191	28	14.77	1 700	3.5	10	**2KJ4101 - ■ CD21 - ■ ■ P1**	**P00**
	215	24	13.12	1 600	3.7	10	**2KJ4101 - ■ CD21 - ■ ■ N1**	**P00**
	233	23	12.11	1 600	3.9	10	**2KJ4101 - ■ CD21 - ■ ■ M1**	**P00**
	268	20	10.52	1 500	4.2	10	**2KJ4101 - ■ CD21 - ■ ■ L1**	**P00**
	309	17	9.14	1 500	4.6	10	**2KJ4101 - ■ CD21 - ■ ■ K1**	**P00**
	342	15	8.25	1 400	4.8	10	**2KJ4101 - ■ CD21 - ■ ■ J1**	**P00**
	363	14	7.76	1 400	5.1	10	**2KJ4101 - ■ CD21 - ■ ■ H1**	**P00**
	417	13	6.77	1 300	5.4	10	**2KJ4101 - ■ CD21 - ■ ■ G1**	**P00**
	451	12	6.25	1 300	4.8	10	**2KJ4101 - ■ CD21 - ■ ■ F1**	**P00**
	519	10	5.43	1 200	5.2	10	**2KJ4101 - ■ CD21 - ■ ■ E1**	**P00**
	599	8.8	4.71	1 200	5.6	10	**2KJ4101 - ■ CD21 - ■ ■ D1**	**P00**
	662	7.9	4.26	1 100	5.9	10	**2KJ4101 - ■ CD21 - ■ ■ C1**	**P00**

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**Z.19-LHN71MC2**							
	703	7.5	4.01	1 100	6.2	10	**2KJ4101 - ■ CD21 - ■ ■ B1**	**P00**
	Z.19-LHN71ME4							
	43	122	30.97	1 200	0.82	11	**2KJ4101 - ■ CF21 - ■ ■ V1**	
	50	106	26.91	1 500	0.94	11	**2KJ4101 - ■ CF21 - ■ ■ U1**	
	55	96	24.46	1 700	1.0	11	**2KJ4101 - ■ CF21 - ■ ■ T1**	
	64	82	20.82	2 000	1.2	11	**2KJ4101 - ■ CF21 - ■ ■ S1**	
	71	74	18.92	2 100	1.3	11	**2KJ4101 - ■ CF21 - ■ ■ R1**	
	81	65	16.5	2 000	1.5	11	**2KJ4101 - ■ CF21 - ■ ■ Q1**	
	90	58	14.77	2 000	1.6	11	**2KJ4101 - ■ CF21 - ■ ■ P1**	
	102	52	13.12	1 900	1.8	11	**2KJ4101 - ■ CF21 - ■ ■ N1**	
	110	48	12.11	1 900	1.8	11	**2KJ4101 - ■ CF21 - ■ ■ M1**	
	127	41	10.52	1 900	2.0	11	**2KJ4101 - ■ CF21 - ■ ■ L1**	
	146	36	9.14	1 800	2.2	11	**2KJ4101 - ■ CF21 - ■ ■ K1**	
	162	32	8.25	1 700	2.3	11	**2KJ4101 - ■ CF21 - ■ ■ J1**	
	172	30	7.76	1 700	2.4	11	**2KJ4101 - ■ CF21 - ■ ■ H1**	
	197	27	6.77	1 600	2.6	11	**2KJ4101 - ■ CF21 - ■ ■ G1**	
	214	25	6.25	1 500	2.3	11	**2KJ4101 - ■ CF21 - ■ ■ F1**	
	246	21	5.43	1 500	2.5	11	**2KJ4101 - ■ CF21 - ■ ■ E1**	
	283	18	4.71	1 400	2.6	11	**2KJ4101 - ■ CF21 - ■ ■ D1**	
	313	17	4.26	1 400	2.8	11	**2KJ4101 - ■ CF21 - ■ ■ C1**	
	333	16	4.01	1 400	2.9	11	**2KJ4101 - ■ CF21 - ■ ■ B1**	
	Z.29-LHN71MC2							
	194	27	14.54	2 600	4.4	11	**2KJ4102 - ■ CD21 - ■ ■ P1**	**P00**
	Z.29-LHN71ME4							
	32	163	41.4	3 100	0.86	12	**2KJ4102 - ■ CF21 - ■ ■ A2**	
	36	144	36.72	3 600	0.97	12	**2KJ4102 - ■ CF21 - ■ ■ X1**	
	42	125	31.86	3 900	1.1	12	**2KJ4102 - ■ CF21 - ■ ■ W1**	
	46	114	28.96	3 800	1.2	12	**2KJ4102 - ■ CF21 - ■ ■ V1**	
	54	98	24.84	3 700	1.4	12	**2KJ4102 - ■ CF21 - ■ ■ U1**	
	59	89	22.58	3 600	1.6	12	**2KJ4102 - ■ CF21 - ■ ■ T1**	
	67	78	19.8	3 500	1.8	12	**2KJ4102 - ■ CF21 - ■ ■ S1**	
	76	70	17.67	3 400	2.0	12	**2KJ4102 - ■ CF21 - ■ ■ R1**	
	85	62	15.75	3 300	2.3	12	**2KJ4102 - ■ CF21 - ■ ■ Q1**	
	92	57	14.54	3 200	2.1	12	**2KJ4102 - ■ CF21 - ■ ■ P1**	
	105	50	12.73	3 100	2.8	12	**2KJ4102 - ■ CF21 - ■ ■ N1**	
	120	44	11.16	3 000	3.2	12	**2KJ4102 - ■ CF21 - ■ ■ M1**	
	132	40	10.12	2 900	3.5	12	**2KJ4102 - ■ CF21 - ■ ■ L1**	
	140	38	9.53	2 900	3.7	12	**2KJ4102 - ■ CF21 - ■ ■ K1**	
	193	27	6.92	2 600	2.8	12	**2KJ4102 - ■ CF21 - ■ ■ G1**	
	220	24	6.06	2 500	4.2	12	**2KJ4102 - ■ CF21 - ■ ■ F1**	
	251	21	5.31	2 400	4.4	12	**2KJ4102 - ■ CF21 - ■ ■ E1**	
	277	19	4.82	2 300	4.5	12	**2KJ4102 - ■ CF21 - ■ ■ D1**	
	294	18	4.54	2 300	4.7	12	**2KJ4102 - ■ CF21 - ■ ■ C1**	
	334	16	4	2 200	4.8	12	**2KJ4102 - ■ CF21 - ■ ■ B1**	
	385	14	3.47	2 100	5.1	12	**2KJ4102 - ■ CF21 - ■ ■ A1**	
	D.39-LHN71ME4							
	21	250	63.43	3 100	0.8	14	**2KJ4203 - ■ CF21 - ■ ■ E1**	
	E.39-LHN71ME4							
	145	36	9.22	3 000	0.83	14	**2KJ4001 - ■ CF21 - ■ ■ S1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**E.39-LHN71ME4**							
	163	32	8.2	3 000	1.1	14	**2KJ4001 - ■ CF21 - ■ ■ R1**	
	185	28	7.2	3 000	1.4	14	**2KJ4001 - ■ CF21 - ■ ■ Q1**	
	204	26	6.55	3 000	1.6	14	**2KJ4001 - ■ CF21 - ■ ■ P1**	
	238	22	5.6	3 000	1.8	14	**2KJ4001 - ■ CF21 - ■ ■ N1**	
	262	20	5.09	3 000	2.0	14	**2KJ4001 - ■ CF21 - ■ ■ M1**	
	297	18	4.5	3 000	2.7	14	**2KJ4001 - ■ CF21 - ■ ■ L1**	
	326	16	4.09	3 000	3.0	14	**2KJ4001 - ■ CF21 - ■ ■ K1**	
	373	14	3.58	3 000	4.1	14	**2KJ4001 - ■ CF21 - ■ ■ J1**	
	403	13	3.31	3 000	4.5	14	**2KJ4001 - ■ CF21 - ■ ■ H1**	
	456	12	2.93	3 000	5.6	14	**2KJ4001 - ■ CF21 - ■ ■ G1**	
	Z.39-LHN71ME4							
	24	220	55.95	3 800	0.91	14	**2KJ4103 - ■ CF21 - ■ ■ A2**	
	27	196	49.75	4 400	1.0	14	**2KJ4103 - ■ CF21 - ■ ■ X1**	
	31	172	43.68	5 000	1.2	14	**2KJ4103 - ■ CF21 - ■ ■ W1**	
	34	156	39.71	5 100	1.3	14	**2KJ4103 - ■ CF21 - ■ ■ V1**	
	39	134	33.97	5 200	1.5	14	**2KJ4103 - ■ CF21 - ■ ■ U1**	
	43	121	30.88	5 300	1.6	14	**2KJ4103 - ■ CF21 - ■ ■ T1**	
	49	107	27.3	5 300	1.9	14	**2KJ4103 - ■ CF21 - ■ ■ S1**	
	54	98	24.82	5 200	2.0	14	**2KJ4103 - ■ CF21 - ■ ■ R1**	
	61	86	21.74	5 200	2.3	14	**2KJ4103 - ■ CF21 - ■ ■ Q1**	
	67	79	20.07	5 200	2.5	14	**2KJ4103 - ■ CF21 - ■ ■ P1**	
	75	70	17.77	5 100	2.9	14	**2KJ4103 - ■ CF21 - ■ ■ N1**	
	90	58	14.79	4 800	3.3	14	**2KJ4103 - ■ CF21 - ■ ■ M1**	
	D.49-LHN71ME4							
	13	395	100.75	4 100	0.81	24	**2KJ4204 - ■ CF21 - ■ ■ H1**	
	15	350	89.2	5 000	0.91	24	**2KJ4204 - ■ CF21 - ■ ■ G1**	
	18	290	74.24	5 900	1.1	24	**2KJ4204 - ■ CF21 - ■ ■ F1**	
	19	275	69.88	5 900	1.2	24	**2KJ4204 - ■ CF21 - ■ ■ E1**	
	21	245	62.61	6 000	1.3	24	**2KJ4204 - ■ CF21 - ■ ■ D1**	
	E.49-LHN71ME4							
	138	38	9.7	4 000	2.3	20	**2KJ4002 - ■ CF21 - ■ ■ S1**	
	151	35	8.82	4 000	3.1	20	**2KJ4002 - ■ CF21 - ■ ■ R1**	
	178	30	7.5	4 000	3.6	20	**2KJ4002 - ■ CF21 - ■ ■ Q1**	
	196	27	6.82	4 000	3.9	20	**2KJ4002 - ■ CF21 - ■ ■ P1**	
	220	24	6.08	4 000	4.3	20	**2KJ4002 - ■ CF21 - ■ ■ N1**	
	Z.49-LHN71ME4							
	26	205	52.14	6 100	1.6	24	**2KJ4104 - ■ CF21 - ■ ■ B2**	
	28	186	47.4	6 100	1.7	24	**2KJ4104 - ■ CF21 - ■ ■ A2**	
	33	159	40.31	6 200	2.0	24	**2KJ4104 - ■ CF21 - ■ ■ X1**	
	36	144	36.65	6 200	2.2	24	**2KJ4104 - ■ CF21 - ■ ■ W1**	
	41	129	32.7	6 200	2.5	24	**2KJ4104 - ■ CF21 - ■ ■ V1**	
	46	115	29.32	6 200	2.8	24	**2KJ4104 - ■ CF21 - ■ ■ U1**	
	D.59-LHN71ME4							
	9.8	535	136.19	6 500	0.84	26	**2KJ4205 - ■ CF21 - ■ ■ K1**	
	11	465	119.3	7 300	0.96	26	**2KJ4205 - ■ CF21 - ■ ■ J1**	
	12	430	110.12	7 700	1.0	26	**2KJ4205 - ■ CF21 - ■ ■ H1**	
	14	380	97.5	7 700	1.2	26	**2KJ4205 - ■ CF21 - ■ ■ G1**	
	16	315	81.15	7 800	1.4	26	**2KJ4205 - ■ CF21 - ■ ■ F1**	
	17	300	76.38	7 900	1.5	26	**2KJ4205 - ■ CF21 - ■ ■ E1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**Z.59-LHN71ME4**							
	20	265	68.43	7 900	1.7	26	**2KJ4205 - ■ CF21 - ■ ■ D1**	
	23	220	56.99	8 000	2.0	26	**2KJ4105 - ■ CF21 - ■ ■ A2**	
	26	200	51.81	8 000	2.2	26	**2KJ4105 - ■ CF21 - ■ ■ X1**	
	D.69-LHN71ME4							
	7.4	710	181.33	10 700	0.84	31	**2KJ4206 - ■ CF21 - ■ ■ M1**	
	8.3	630	160.29	10 900	0.95	31	**2KJ4206 - ■ CF21 - ■ ■ L1**	
	9.2	570	145.71	11 000	1.0	31	**2KJ4206 - ■ CF21 - ■ ■ K1**	
	10	500	127.63	11 100	1.2	31	**2KJ4206 - ■ CF21 - ■ ■ J1**	
	11	460	117.82	11 200	1.3	31	**2KJ4206 - ■ CF21 - ■ ■ H1**	
	13	410	104.31	11 300	1.5	31	**2KJ4206 - ■ CF21 - ■ ■ G1**	
	15	340	86.82	11 400	1.8	31	**2KJ4206 - ■ CF21 - ■ ■ F1**	
	16	320	81.71	11 400	1.9	31	**2KJ4206 - ■ CF21 - ■ ■ E1**	
	18	285	73.22	11 400	2.1	31	**2KJ4206 - ■ CF21 - ■ ■ D1**	
	21	245	62.33	11 500	2.4	31	**2KJ4206 - ■ CF21 - ■ ■ C1**	
	E.69-LHN71ME4							
	144	37	9.3	6 100	3.3	27	**2KJ4003 - ■ CF21 - ■ ■ S1**	
	158	33	8.45	6 100	3.2	27	**2KJ4003 - ■ CF21 - ■ ■ R1**	
	D.79-LHN71ME4							
	5.2	1 000	255.33	11 500	0.84	41	**2KJ4207 - ■ CF21 - ■ ■ Q1**	
	5.8	910	232.12	12 800	0.92	41	**2KJ4207 - ■ CF21 - ■ ■ P1**	
	6.4	815	207.1	13 400	1.0	41	**2KJ4207 - ■ CF21 - ■ ■ N1**	
	7.2	730	185.7	13 500	1.1	41	**2KJ4207 - ■ CF21 - ■ ■ M1**	
	8	655	167.39	13 600	1.3	41	**2KJ4207 - ■ CF21 - ■ ■ L1**	
	8.6	605	154.51	13 700	1.4	41	**2KJ4207 - ■ CF21 - ■ ■ K1**	
	9.5	555	141.04	13 700	1.5	41	**2KJ4207 - ■ CF21 - ■ ■ J1**	
	11	460	117.03	13 900	1.8	41	**2KJ4207 - ■ CF21 - ■ ■ H1**	
	12	430	110.14	13 900	1.9	41	**2KJ4207 - ■ CF21 - ■ ■ G1**	
	13	405	104.03	13 900	2.1	41	**2KJ4207 - ■ CF21 - ■ ■ F1**	
	Z.19-LHN80MD4E							
	46	115	30.97	1 200	0.87	14	**2KJ4101 - ■ DD22 - ■ ■ V1**	
	53	100	26.91	1 500	1.0	14	**2KJ4101 - ■ DD22 - ■ ■ U1**	
	58	90	24.46	1 700	1.1	14	**2KJ4101 - ■ DD22 - ■ ■ T1**	
	68	77	20.82	2 000	1.3	14	**2KJ4101 - ■ DD22 - ■ ■ S1**	
	75	70	18.92	2 000	1.4	14	**2KJ4101 - ■ DD22 - ■ ■ R1**	
	86	61	16.5	2 000	1.6	14	**2KJ4101 - ■ DD22 - ■ ■ Q1**	
	96	55	14.77	2 000	1.7	14	**2KJ4101 - ■ DD22 - ■ ■ P1**	
	108	48	13.12	1 900	1.9	14	**2KJ4101 - ■ DD22 - ■ ■ N1**	
	117	45	12.11	1 900	2.0	14	**2KJ4101 - ■ DD22 - ■ ■ M1**	
	135	39	10.52	1 800	2.1	14	**2KJ4101 - ■ DD22 - ■ ■ L1**	
	155	34	9.14	1 700	2.3	14	**2KJ4101 - ■ DD22 - ■ ■ K1**	
	172	30	8.25	1 700	2.4	14	**2KJ4101 - ■ DD22 - ■ ■ J1**	
	183	29	7.76	1 700	2.5	14	**2KJ4101 - ■ DD22 - ■ ■ H1**	
	210	25	6.77	1 600	2.7	14	**2KJ4101 - ■ DD22 - ■ ■ G1**	
	227	23	6.25	1 500	2.4	14	**2KJ4101 - ■ DD22 - ■ ■ F1**	
	262	20	5.43	1 400	2.6	14	**2KJ4101 - ■ DD22 - ■ ■ E1**	
	301	17	4.71	1 400	2.8	14	**2KJ4101 - ■ DD22 - ■ ■ D1**	
	333	16	4.26	1 400	3.0	14	**2KJ4101 - ■ DD22 - ■ ■ C1**	
	354	15	4.01	1 300	3.1	14	**2KJ4101 - ■ DD22 - ■ ■ B1**	
	407	13	3.49	1 300	3.3	14	**2KJ4101 - ■ DD22 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**Z.19-LHN80MH6E**							
	43	123	20.82	2 000	0.81	15	**2KJ4101 - ■ DG22 - ■ ■ S1**	**P01**
	D.29-LHN80MD4E							
	34	156	42.17	3 100	0.9	16	**2KJ4202 - ■ DD22 - ■ ■ A1**	
	Z.29-LHN80MD4E							
	39	136	36.72	3 600	1.0	16	**2KJ4102 - ■ DD22 - ■ ■ X1**	
	45	118	31.86	3 800	1.2	16	**2KJ4102 - ■ DD22 - ■ ■ W1**	
	49	107	28.96	3 800	1.3	16	**2KJ4102 - ■ DD22 - ■ ■ V1**	
	57	92	24.84	3 600	1.5	16	**2KJ4102 - ■ DD22 - ■ ■ U1**	
	63	84	22.58	3 500	1.7	16	**2KJ4102 - ■ DD22 - ■ ■ T1**	
	72	73	19.8	3 400	1.9	16	**2KJ4102 - ■ DD22 - ■ ■ S1**	
	80	65	17.67	3 300	2.1	16	**2KJ4102 - ■ DD22 - ■ ■ R1**	
	90	58	15.75	3 200	2.4	16	**2KJ4102 - ■ DD22 - ■ ■ Q1**	
	98	54	14.54	3 200	2.2	16	**2KJ4102 - ■ DD22 - ■ ■ P1**	
	112	47	12.73	3 000	3.0	16	**2KJ4102 - ■ DD22 - ■ ■ N1**	
	127	41	11.16	2 900	3.4	16	**2KJ4102 - ■ DD22 - ■ ■ M1**	
	140	37	10.12	2 900	3.7	16	**2KJ4102 - ■ DD22 - ■ ■ L1**	
	149	35	9.53	2 800	4.0	16	**2KJ4102 - ■ DD22 - ■ ■ K1**	
	205	26	6.92	2 500	2.9	16	**2KJ4102 - ■ DD22 - ■ ■ G1**	
	234	22	6.06	2 400	4.5	16	**2KJ4102 - ■ DD22 - ■ ■ F1**	
	267	20	5.31	2 300	4.6	16	**2KJ4102 - ■ DD22 - ■ ■ E1**	
	295	18	4.82	2 300	4.8	16	**2KJ4102 - ■ DD22 - ■ ■ D1**	
	313	17	4.54	2 200	5.0	16	**2KJ4102 - ■ DD22 - ■ ■ C1**	
	355	15	4	2 100	5.1	16	**2KJ4102 - ■ DD22 - ■ ■ B1**	
	409	13	3.47	2 000	5.5	16	**2KJ4102 - ■ DD22 - ■ ■ A1**	
	Z.29-LHN80MH6E							
	31	171	28.96	4 000	0.82	17	**2KJ4102 - ■ DG22 - ■ ■ V1**	**P01**
	D.39-LHN80MD4E							
	22	235	63.43	3 200	0.85	18	**2KJ4203 - ■ DD22 - ■ ■ E1**	
	25	210	57.54	3 800	0.94	18	**2KJ4203 - ■ DD22 - ■ ■ D1**	
	E.39-LHN80MD4E							
	173	30	8.2	3 000	1.1	18	**2KJ4001 - ■ DD22 - ■ ■ R1**	
	197	27	7.2	3 000	1.5	18	**2KJ4001 - ■ DD22 - ■ ■ Q1**	
	217	24	6.55	3 000	1.7	18	**2KJ4001 - ■ DD22 - ■ ■ P1**	
	254	21	5.6	3 000	1.9	18	**2KJ4001 - ■ DD22 - ■ ■ N1**	
	279	19	5.09	3 000	2.1	18	**2KJ4001 - ■ DD22 - ■ ■ M1**	
	316	17	4.5	3 000	2.9	18	**2KJ4001 - ■ DD22 - ■ ■ L1**	
	347	15	4.09	3 000	3.2	18	**2KJ4001 - ■ DD22 - ■ ■ K1**	
	397	13	3.58	3 000	4.4	18	**2KJ4001 - ■ DD22 - ■ ■ J1**	
	429	12	3.31	3 000	4.7	18	**2KJ4001 - ■ DD22 - ■ ■ H1**	
	Z.39-LHN80MD4E							
	29	184	49.75	4 600	1.1	17	**2KJ4103 - ■ DD22 - ■ ■ X1**	
	33	162	43.68	4 900	1.2	17	**2KJ4103 - ■ DD22 - ■ ■ W1**	
	36	147	39.71	5 000	1.4	17	**2KJ4103 - ■ DD22 - ■ ■ V1**	
	42	126	33.97	5 100	1.6	17	**2KJ4103 - ■ DD22 - ■ ■ U1**	
	46	114	30.88	5 200	1.8	17	**2KJ4103 - ■ DD22 - ■ ■ T1**	
	52	101	27.3	5 200	2.0	17	**2KJ4103 - ■ DD22 - ■ ■ S1**	
	57	92	24.82	5 200	2.2	17	**2KJ4103 - ■ DD22 - ■ ■ R1**	
	65	80	21.74	5 100	2.5	17	**2KJ4103 - ■ DD22 - ■ ■ Q1**	
	71	74	20.07	5 100	2.7	17	**2KJ4103 - ■ DD22 - ■ ■ P1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**Z.39-LHN80MD4E**							
	80	66	17.77	5 000	3.0	17	**2KJ4103 - ■ DD22 - ■ ■ N1**	
	D.49-LHN80MD4E							
	14	370	100.75	4 100	0.86	28	**2KJ4204 - ■ DD22 - ■ ■ H1**	
	16	330	89.2	5 200	0.97	28	**2KJ4204 - ■ DD22 - ■ ■ G1**	
	19	275	74.24	5 900	1.2	28	**2KJ4204 - ■ DD22 - ■ ■ F1**	
	20	255	69.88	6 000	1.2	28	**2KJ4204 - ■ DD22 - ■ ■ E1**	
	23	230	62.61	6 000	1.4	28	**2KJ4204 - ■ DD22 - ■ ■ D1**	
	E.49-LHN80MD4E							
	146	36	9.7	4 000	2.4	24	**2KJ4002 - ■ DD22 - ■ ■ S1**	
	161	33	8.82	4 000	3.3	24	**2KJ4002 - ■ DD22 - ■ ■ R1**	
	189	28	7.5	4 000	3.9	24	**2KJ4002 - ■ DD22 - ■ ■ Q1**	
	208	25	6.82	4 000	4.1	24	**2KJ4002 - ■ DD22 - ■ ■ P1**	
	234	22	6.08	4 000	4.6	24	**2KJ4002 - ■ DD22 - ■ ■ N1**	
	Z.49-LHN80MD4E							
	27	193	52.14	6 100	1.7	28	**2KJ4104 - ■ DD22 - ■ ■ B2**	
	30	175	47.4	6 100	1.8	28	**2KJ4104 - ■ DD22 - ■ ■ A2**	
	35	149	40.31	6 200	2.1	28	**2KJ4104 - ■ DD22 - ■ ■ X1**	
	39	136	36.65	6 200	2.4	28	**2KJ4104 - ■ DD22 - ■ ■ W1**	
	43	121	32.7	6 300	2.6	28	**2KJ4104 - ■ DD22 - ■ ■ V1**	
	D.59-LHN80MD4E							
	9.5	550	149.81	5 800	0.81	30	**2KJ4205 - ■ DD22 - ■ ■ L1**	
	10	500	136.19	6 800	0.89	30	**2KJ4205 - ■ DD22 - ■ ■ K1**	
	12	440	119.3	7 600	1.0	30	**2KJ4205 - ■ DD22 - ■ ■ J1**	
	13	405	110.12	7 700	1.1	30	**2KJ4205 - ■ DD22 - ■ ■ H1**	
	15	360	97.5	7 700	1.2	30	**2KJ4205 - ■ DD22 - ■ ■ G1**	
	17	300	81.15	7 800	1.5	30	**2KJ4205 - ■ DD22 - ■ ■ F1**	
	19	280	76.38	7 900	1.6	30	**2KJ4205 - ■ DD22 - ■ ■ E1**	
	21	250	68.43	7 900	1.8	30	**2KJ4205 - ■ DD22 - ■ ■ D1**	
	Z.59-LHN80MD4E							
	25	210	56.99	8 000	2.1	30	**2KJ4105 - ■ DD22 - ■ ■ A2**	
	27	192	51.81	8 000	2.3	30	**2KJ4105 - ■ DD22 - ■ ■ X1**	
	D.69-LHN80MD4E							
	7.1	735	199.47	10 600	0.81	35	**2KJ4206 - ■ DD22 - ■ ■ N1**	
	7.8	670	181.33	10 800	0.89	35	**2KJ4206 - ■ DD22 - ■ ■ M1**	
	8.9	590	160.29	10 900	1.0	35	**2KJ4206 - ■ DD22 - ■ ■ L1**	
	9.7	535	145.71	11 000	1.1	35	**2KJ4206 - ■ DD22 - ■ ■ K1**	
	11	470	127.63	11 100	1.3	35	**2KJ4206 - ■ DD22 - ■ ■ J1**	
	12	435	117.82	11 200	1.4	35	**2KJ4206 - ■ DD22 - ■ ■ H1**	
	14	385	104.31	11 300	1.6	35	**2KJ4206 - ■ DD22 - ■ ■ G1**	
	16	320	86.82	11 400	1.9	35	**2KJ4206 - ■ DD22 - ■ ■ F1**	
	17	300	81.71	11 400	2.0	35	**2KJ4206 - ■ DD22 - ■ ■ E1**	
	19	270	73.22	11 500	2.2	35	**2KJ4206 - ■ DD22 - ■ ■ D1**	
	E.69-LHN80MD4E							
	153	34	9.3	6 100	3.5	31	**2KJ4003 - ■ DD22 - ■ ■ S1**	
	168	31	8.45	6 100	3.4	31	**2KJ4003 - ■ DD22 - ■ ■ R1**	
	D.79-LHN80MD4E							
	5.6	940	255.33	11 800	0.89	45	**2KJ4207 - ■ DD22 - ■ ■ Q1**	
	6.1	855	232.12	13 200	0.98	45	**2KJ4207 - ■ DD22 - ■ ■ P1**	
	6.9	765	207.1	13 400	1.1	45	**2KJ4207 - ■ DD22 - ■ ■ N1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**D.79-LHN80MD4E**							
	7.6	685	185.7	13 500	1.2	45	**2KJ4207 - ■ DD22 - ■ ■ M1**	
	8.5	615	167.39	13 600	1.4	45	**2KJ4207 - ■ DD22 - ■ ■ L1**	
	9.2	570	154.51	13 700	1.5	45	**2KJ4207 - ■ DD22 - ■ ■ K1**	
	10	520	141.04	13 800	1.6	45	**2KJ4207 - ■ DD22 - ■ ■ J1**	
	12	430	117.03	13 900	1.9	45	**2KJ4207 - ■ DD22 - ■ ■ H1**	
	13	405	110.14	13 900	2.1	45	**2KJ4207 - ■ DD22 - ■ ■ G1**	
	14	385	104.03	14 000	2.2	45	**2KJ4207 - ■ DD22 - ■ ■ F1**	
	D.79-LHN80MH6E							
	5.3	985	167.39	13 600	0.85	46	**2KJ4207 - ■ DG22 - ■ ■ L1**	**P01**
	D.89-LHN80MD4E							
	4.6	1 150	311.6	18 500	1.5	68	**2KJ4208 - ■ DD22 - ■ ■ S1**	
	5	1 040	283.28	18 500	1.6	68	**2KJ4208 - ■ DD22 - ■ ■ R1**	
	5.6	940	254.09	18 500	1.8	68	**2KJ4208 - ■ DD22 - ■ ■ Q1**	
	6.2	845	228.45	18 500	2.0	68	**2KJ4208 - ■ DD22 - ■ ■ P1**	
	D.89-LHN80MH6E							
	2.9	1 830	311.6	18 500	0.91	69	**2KJ4208 - ■ DG22 - ■ ■ S1**	**P01**
	3.1	1 670	283.28	18 500	1.0	69	**2KJ4208 - ■ DG22 - ■ ■ R1**	**P01**
	3.5	1 500	254.09	18 500	1.1	69	**2KJ4208 - ■ DG22 - ■ ■ Q1**	**P01**
	3.9	1 340	228.45	18 500	1.2	69	**2KJ4208 - ■ DG22 - ■ ■ P1**	**P01**
	4.3	1 210	206.62	18 500	1.4	69	**2KJ4208 - ■ DG22 - ■ ■ N1**	**P01**
	6.5	810	137.97	18 500	2.1	69	**2KJ4208 - ■ DG22 - ■ ■ J1**	**P01**
	D.89-Z39-LHN71ME4							
	2.6	1 830	513	18 500	0.92	71	**2KJ4233 - ■ CF21 - ■ ■ E1**	
	2.8	1 710	480	18 500	0.98	71	**2KJ4233 - ■ CF21 - ■ ■ D1**	
	3	1 610	452	18 500	1.0	71	**2KJ4233 - ■ CF21 - ■ ■ C1**	
	3.3	1 440	405	18 500	1.2	71	**2KJ4233 - ■ CF21 - ■ ■ B1**	
	3.9	1 230	344.83	18 500	1.4	71	**2KJ4233 - ■ CF21 - ■ ■ A1**	
	D.89-Z39-LHN80MD4E							
	2.4	2 020	603	18 400	0.83	74	**2KJ4233 - ■ DD22 - ■ ■ F1**	
	2.8	1 720	513	18 500	0.98	74	**2KJ4233 - ■ DD22 - ■ ■ E1**	
	3	1 610	480	18 500	1.0	74	**2KJ4233 - ■ DD22 - ■ ■ D1**	
	3.1	1 510	452	18 500	1.1	74	**2KJ4233 - ■ DD22 - ■ ■ C1**	
	3.5	1 360	405	18 500	1.2	74	**2KJ4233 - ■ DD22 - ■ ■ B1**	
	4.1	1 150	344.83	18 500	1.5	74	**2KJ4233 - ■ DD22 - ■ ■ A1**	
	D.109-Z39-LHN71ME4							
	1.9	2 460	690	20 200	1.3	113	**2KJ4235 - ■ CF21 - ■ ■ F1**	
	2.1	2 310	649	20 200	1.3	113	**2KJ4235 - ■ CF21 - ■ ■ E1**	
	2.3	2 070	582	20 200	1.5	113	**2KJ4235 - ■ CF21 - ■ ■ D1**	
	2.7	1 760	495	20 200	1.8	113	**2KJ4235 - ■ CF21 - ■ ■ C1**	
	D.129-Z49-LHN71ME4							
	0.84	5 700	1 598	26 600	0.88	198	**2KJ4237 - ■ CF21 - ■ ■ M1**	
	1.5	3 110	873	28 100	1.6	198	**2KJ4237 - ■ CF21 - ■ ■ G1**	
	1.6	2 940	825	28 200	1.7	198	**2KJ4237 - ■ CF21 - ■ ■ F1**	
	1.9	2 500	702	28 500	2.0	198	**2KJ4237 - ■ CF21 - ■ ■ E1**	
	D.149-Z49-LHN71ME4							
	0.5	9 600	2 690	50 400	0.83	274	**2KJ4240 - ■ CF21 - ■ ■ S1**	
	0.54	8 760	2 455	50 800	0.91	274	**2KJ4240 - ■ CF21 - ■ ■ R1**	
	0.66	7 270	2 037	51 500	1.1	274	**2KJ4240 - ■ CF21 - ■ ■ Q1**	
	0.7	6 840	1 917	51 700	1.2	274	**2KJ4240 - ■ CF21 - ■ ■ P1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**D.149-Z49-LHN71ME4**							
	0.74	6 460	1 811	51 900	1.2	274	**2KJ4240 - ■ CF21 - ■ ■ N1**	
	0.87	5 500	1 541	52 400	1.5	274	**2KJ4240 - ■ CF21 - ■ ■ M1**	
	D.169-Z69-LHN71ME4							
	0.31	15 300	4 287	69 600	0.91	463	**2KJ4242 - ■ CF21 - ■ ■ W1**	
	0.34	13 900	3 898	70 200	1.0	463	**2KJ4242 - ■ CF21 - ■ ■ V1**	
	0.38	12 400	3 478	70 700	1.1	463	**2KJ4242 - ■ CF21 - ■ ■ U1**	
	0.43	11 100	3 118	71 200	1.3	463	**2KJ4242 - ■ CF21 - ■ ■ T1**	
	0.47	10 000	2 811	71 600	1.4	463	**2KJ4242 - ■ CF21 - ■ ■ S1**	
	0.51	9 260	2 594	71 900	1.5	463	**2KJ4242 - ■ CF21 - ■ ■ R1**	
	0.56	8 450	2 368	72 200	1.7	463	**2KJ4242 - ■ CF21 - ■ ■ Q1**	
	0.68	7 010	1 965	72 700	2.0	463	**2KJ4242 - ■ CF21 - ■ ■ P1**	
	D.189-Z69-LHN71ME4							
	0.23	20 700	5 807	107 000	0.92	676	**2KJ4244 - ■ CF21 - ■ ■ A2**	
	0.25	18 800	5 279	107 000	1.0	676	**2KJ4244 - ■ CF21 - ■ ■ X1**	
	0.3	16 000	4 490	107 000	1.2	676	**2KJ4244 - ■ CF21 - ■ ■ W1**	
	0.33	14 500	4 082	107 000	1.3	676	**2KJ4244 - ■ CF21 - ■ ■ V1**	
	0.37	13 000	3 642	107 000	1.5	676	**2KJ4244 - ■ CF21 - ■ ■ U1**	
	0.41	11 600	3 265	107 000	1.6	676	**2KJ4244 - ■ CF21 - ■ ■ T1**	
	0.45	10 500	2 943	107 000	1.8	676	**2KJ4244 - ■ CF21 - ■ ■ S1**	
	0.49	9 700	2 717	107 000	2.0	676	**2KJ4244 - ■ CF21 - ■ ■ R1**	
	D.109-Z39-LHN80MD4E							
	1.3	3 800	1 133	20 100	0.81	117	**2KJ4235 - ■ DD22 - ■ ■ J1**	
	1.5	3 260	971	20 200	0.95	117	**2KJ4235 - ■ DD22 - ■ ■ H1**	
	1.7	2 800	836	20 200	1.1	117	**2KJ4235 - ■ DD22 - ■ ■ G1**	
	2.1	2 310	690	20 200	1.3	117	**2KJ4235 - ■ DD22 - ■ ■ F1**	
	2.2	2 170	649	20 200	1.4	117	**2KJ4235 - ■ DD22 - ■ ■ E1**	
	2.4	1 950	582	20 200	1.6	117	**2KJ4235 - ■ DD22 - ■ ■ D1**	
	2.9	1 660	495	20 200	1.9	117	**2KJ4235 - ■ DD22 - ■ ■ C1**	
	D.129-Z49-LHN80MD4E							
	0.89	5 360	1 598	26 800	0.93	202	**2KJ4237 - ■ DD22 - ■ ■ M1**	
	1	4 590	1 369	27 300	1.1	202	**2KJ4237 - ■ DD22 - ■ ■ L1**	
	1.2	4 040	1 204	27 600	1.2	202	**2KJ4237 - ■ DD22 - ■ ■ K1**	
	1.4	3 410	1 016	28 000	1.5	202	**2KJ4237 - ■ DD22 - ■ ■ J1**	
	1.6	2 930	873	28 200	1.7	202	**2KJ4237 - ■ DD22 - ■ ■ G1**	
	1.6	2 970	885	28 200	1.7	202	**2KJ4237 - ■ DD22 - ■ ■ H1**	
	1.7	2 770	825	28 300	1.8	202	**2KJ4237 - ■ DD22 - ■ ■ F1**	
	D.149-Z49-LHN80MD4E							
	0.49	9 780	2 914	50 300	0.82	278	**2KJ4240 - ■ DD22 - ■ ■ T1**	
	0.53	9 030	2 690	50 700	0.89	278	**2KJ4240 - ■ DD22 - ■ ■ S1**	
	0.58	8 240	2 455	51 100	0.97	278	**2KJ4240 - ■ DD22 - ■ ■ R1**	
	0.7	6 840	2 037	51 700	1.2	278	**2KJ4240 - ■ DD22 - ■ ■ Q1**	
	0.74	6 430	1 917	51 900	1.2	278	**2KJ4240 - ■ DD22 - ■ ■ P1**	
	0.78	6 080	1 811	52 100	1.3	278	**2KJ4240 - ■ DD22 - ■ ■ N1**	
	0.92	5 170	1 541	52 500	1.5	278	**2KJ4240 - ■ DD22 - ■ ■ M1**	
	1.1	4 430	1 320	52 900	1.8	278	**2KJ4240 - ■ DD22 - ■ ■ L1**	
	D.169-Z69-LHN80MD4E							
	0.28	16 900	5 041	69 000	0.83	467	**2KJ4242 - ■ DD22 - ■ ■ X1**	
	0.33	14 300	4 287	70 000	0.97	467	**2KJ4242 - ■ DD22 - ■ ■ W1**	
	0.36	13 000	3 898	70 500	1.1	467	**2KJ4242 - ■ DD22 - ■ ■ V1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**D.169-Z69-LHN80MD4E**							
	0.41	11 600	3 478	71 000	1.2	467	**2KJ4242 - ■ DD22 - ■ ■ U1**	
	0.46	10 400	3 118	71 500	1.3	467	**2KJ4242 - ■ DD22 - ■ ■ T1**	
	0.51	9 430	2 811	71 800	1.5	467	**2KJ4242 - ■ DD22 - ■ ■ S1**	
	0.55	8 710	2 594	72 100	1.6	467	**2KJ4242 - ■ DD22 - ■ ■ R1**	
	0.6	7 950	2 368	72 400	1.8	467	**2KJ4242 - ■ DD22 - ■ ■ Q1**	
	D.189-D69-LHN80MD4E							
	0.2	23 100	6 973	107 000	0.82	680	**2KJ4245 - ■ DD22 - ■ ■ B1**	
	D.189-Z69-LHN80MD4E							
	0.24	19 400	5 807	107 000	0.97	680	**2KJ4244 - ■ DD22 - ■ ■ A2**	
	0.27	17 700	5 279	107 000	1.1	680	**2KJ4244 - ■ DD22 - ■ ■ X1**	
	0.32	15 000	4 490	107 000	1.3	680	**2KJ4244 - ■ DD22 - ■ ■ W1**	
	0.35	13 700	4 082	107 000	1.4	680	**2KJ4244 - ■ DD22 - ■ ■ V1**	
	0.39	12 200	3 642	107 000	1.6	680	**2KJ4244 - ■ DD22 - ■ ■ U1**	
	0.43	10 900	3 265	107 000	1.7	680	**2KJ4244 - ■ DD22 - ■ ■ T1**	
	0.48	9 880	2 943	107 000	1.9	680	**2KJ4244 - ■ DD22 - ■ ■ S1**	
0.75	**Z.19-LHN80MB2E**							
	171	42	16.5	1 500	2.4	20	**2KJ4101 - ■ DC22 - ■ ■ Q1**	**P00**
	191	38	14.77	1 500	2.5	20	**2KJ4101 - ■ DC22 - ■ ■ P1**	**P00**
	215	33	13.12	1 400	2.7	20	**2KJ4101 - ■ DC22 - ■ ■ N1**	**P00**
	233	31	12.11	1 400	2.9	20	**2KJ4101 - ■ DC22 - ■ ■ M1**	**P00**
	268	27	10.52	1 400	3.1	20	**2KJ4101 - ■ DC22 - ■ ■ L1**	**P00**
	309	23	9.14	1 300	3.4	20	**2KJ4101 - ■ DC22 - ■ ■ K1**	**P00**
	342	21	8.25	1 300	3.5	20	**2KJ4101 - ■ DC22 - ■ ■ J1**	**P00**
	363	20	7.76	1 300	3.7	20	**2KJ4101 - ■ DC22 - ■ ■ H1**	**P00**
	417	17	6.77	1 200	4.0	20	**2KJ4101 - ■ DC22 - ■ ■ G1**	**P00**
	451	16	6.25	1 100	3.5	20	**2KJ4101 - ■ DC22 - ■ ■ F1**	**P00**
	519	14	5.43	1 100	3.8	20	**2KJ4101 - ■ DC22 - ■ ■ E1**	**P00**
	599	12	4.71	1 100	4.1	20	**2KJ4101 - ■ DC22 - ■ ■ D1**	**P00**
	662	11	4.26	1 000	4.3	20	**2KJ4101 - ■ DC22 - ■ ■ C1**	**P00**
	703	10	4.01	1 000	4.5	20	**2KJ4101 - ■ DC22 - ■ ■ B1**	**P00**
	808	8.9	3.49	1 000	4.9	20	**2KJ4101 - ■ DC22 - ■ ■ A1**	**P00**
	Z.19-LHN80MG4E							
	58	123	24.46	1 300	0.81	21	**2KJ4101 - ■ DF22 - ■ ■ T1**	
	68	105	20.82	1 500	0.95	21	**2KJ4101 - ■ DF22 - ■ ■ S1**	
	75	95	18.92	1 700	1.0	21	**2KJ4101 - ■ DF22 - ■ ■ R1**	
	86	83	16.5	1 900	1.2	21	**2KJ4101 - ■ DF22 - ■ ■ Q1**	
	96	74	14.77	2 000	1.3	21	**2KJ4101 - ■ DF22 - ■ ■ P1**	
	108	66	13.12	1 900	1.4	21	**2KJ4101 - ■ DF22 - ■ ■ N1**	
	117	61	12.11	1 900	1.4	21	**2KJ4101 - ■ DF22 - ■ ■ M1**	
	135	53	10.52	1 800	1.6	21	**2KJ4101 - ■ DF22 - ■ ■ L1**	
	155	46	9.14	1 700	1.7	21	**2KJ4101 - ■ DF22 - ■ ■ K1**	
	172	42	8.25	1 700	1.8	21	**2KJ4101 - ■ DF22 - ■ ■ J1**	
	183	39	7.76	1 700	1.9	21	**2KJ4101 - ■ DF22 - ■ ■ H1**	
	210	34	6.77	1 600	2.0	21	**2KJ4101 - ■ DF22 - ■ ■ G1**	
	227	32	6.25	1 500	1.8	21	**2KJ4101 - ■ DF22 - ■ ■ F1**	
	262	27	5.43	1 400	1.9	21	**2KJ4101 - ■ DF22 - ■ ■ E1**	
	301	24	4.71	1 400	2.1	21	**2KJ4101 - ■ DF22 - ■ ■ D1**	
	333	22	4.26	1 400	2.2	21	**2KJ4101 - ■ DF22 - ■ ■ C1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**Z.19-LHN80MG4E**							
	354	20	4.01	1 300	2.3	21	**2KJ4101 - ■ DF22 - ■ ■ B1**	
	407	18	3.49	1 300	2.4	21	**2KJ4101 - ■ DF22 - ■ ■ A1**	
	Z.29-LHN80MB2E							
	160	45	17.67	2 600	3.1	21	**2KJ4102 - ■ DC22 - ■ ■ R1**	**P00**
	179	40	15.75	2 500	3.5	21	**2KJ4102 - ■ DC22 - ■ ■ Q1**	**P00**
	194	37	14.54	2 400	3.2	21	**2KJ4102 - ■ DC22 - ■ ■ P1**	**P00**
	222	32	12.73	2 400	4.3	21	**2KJ4102 - ■ DC22 - ■ ■ N1**	**P00**
	408	18	6.92	2 000	4.3	21	**2KJ4102 - ■ DC22 - ■ ■ G1**	**P00**
	Z.29-LHN80MG4E							
	45	161	31.86	2 300	0.87	23	**2KJ4102 - ■ DF22 - ■ ■ W1**	
	49	146	28.96	2 600	0.96	23	**2KJ4102 - ■ DF22 - ■ ■ V1**	
	57	125	24.84	3 000	1.1	23	**2KJ4102 - ■ DF22 - ■ ■ U1**	
	63	114	22.58	3 200	1.2	23	**2KJ4102 - ■ DF22 - ■ ■ T1**	
	72	100	19.8	3 200	1.4	23	**2KJ4102 - ■ DF22 - ■ ■ S1**	
	80	89	17.67	3 300	1.6	23	**2KJ4102 - ■ DF22 - ■ ■ R1**	
	90	79	15.75	3 200	1.8	23	**2KJ4102 - ■ DF22 - ■ ■ Q1**	
	98	73	14.54	3 200	1.6	23	**2KJ4102 - ■ DF22 - ■ ■ P1**	
	112	64	12.73	3 000	2.2	23	**2KJ4102 - ■ DF22 - ■ ■ N1**	
	127	56	11.16	2 900	2.5	23	**2KJ4102 - ■ DF22 - ■ ■ M1**	
	140	51	10.12	2 900	2.7	23	**2KJ4102 - ■ DF22 - ■ ■ L1**	
	149	48	9.53	2 800	2.9	23	**2KJ4102 - ■ DF22 - ■ ■ K1**	
	169	42	8.4	2 700	3.3	23	**2KJ4102 - ■ DF22 - ■ ■ J1**	
	195	37	7.29	2 600	3.5	23	**2KJ4102 - ■ DF22 - ■ ■ H1**	
	205	35	6.92	2 500	2.1	23	**2KJ4102 - ■ DF22 - ■ ■ G1**	
	234	31	6.06	2 400	3.3	23	**2KJ4102 - ■ DF22 - ■ ■ F1**	
	267	27	5.31	2 300	3.4	23	**2KJ4102 - ■ DF22 - ■ ■ E1**	
	295	24	4.82	2 300	3.5	23	**2KJ4102 - ■ DF22 - ■ ■ D1**	
	313	23	4.54	2 200	3.7	23	**2KJ4102 - ■ DF22 - ■ ■ C1**	
	355	20	4	2 100	3.8	23	**2KJ4102 - ■ DF22 - ■ ■ B1**	
	409	18	3.47	2 000	4.0	23	**2KJ4102 - ■ DF22 - ■ ■ A1**	
	E.39-LHN80MG4E							
	173	41	8.2	3 000	0.82	25	**2KJ4001 - ■ DF22 - ■ ■ R1**	
	197	36	7.2	3 000	1.1	25	**2KJ4001 - ■ DF22 - ■ ■ Q1**	
	217	33	6.55	3 000	1.2	25	**2KJ4001 - ■ DF22 - ■ ■ P1**	
	254	28	5.6	3 000	1.4	25	**2KJ4001 - ■ DF22 - ■ ■ N1**	
	279	26	5.09	3 000	1.6	25	**2KJ4001 - ■ DF22 - ■ ■ M1**	
	316	23	4.5	3 000	2.1	25	**2KJ4001 - ■ DF22 - ■ ■ L1**	
	347	21	4.09	3 000	2.3	25	**2KJ4001 - ■ DF22 - ■ ■ K1**	
	397	18	3.58	3 000	3.2	25	**2KJ4001 - ■ DF22 - ■ ■ J1**	
	429	17	3.31	3 000	3.5	25	**2KJ4001 - ■ DF22 - ■ ■ H1**	
	485	15	2.93	3 000	4.4	25	**2KJ4001 - ■ DF22 - ■ ■ G1**	
	582	12	2.44	3 000	5.3	25	**2KJ4001 - ■ DF22 - ■ ■ F1**	
	620	12	2.29	2 900	5.7	25	**2KJ4001 - ■ DF22 - ■ ■ E1**	
	Z.39-LHN80MG4E							
	29	250	49.75	2 200	0.8	24	**2KJ4103 - ■ DF22 - ■ ■ X1**	
	33	220	43.68	2 800	0.91	24	**2KJ4103 - ■ DF22 - ■ ■ W1**	
	36	200	39.71	3 200	1.0	24	**2KJ4103 - ■ DF22 - ■ ■ V1**	
	42	171	33.97	3 700	1.2	24	**2KJ4103 - ■ DF22 - ■ ■ U1**	
	46	156	30.88	4 000	1.3	24	**2KJ4103 - ■ DF22 - ■ ■ T1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**Z.39-LHN80MG4E**							
	52	138	27.3	4 400	1.5	24	**2KJ4103 - ■ DF22 - ■ ■ S1**	
	57	125	24.82	4 600	1.6	24	**2KJ4103 - ■ DF22 - ■ ■ R1**	
	65	110	21.74	4 900	1.8	24	**2KJ4103 - ■ DF22 - ■ ■ Q1**	
	71	101	20.07	5 100	2.0	24	**2KJ4103 - ■ DF22 - ■ ■ P1**	
	80	90	17.77	5 000	2.2	24	**2KJ4103 - ■ DF22 - ■ ■ N1**	
	96	75	14.79	4 700	2.6	24	**2KJ4103 - ■ DF22 - ■ ■ M1**	
	102	70	13.92	4 600	2.7	24	**2KJ4103 - ■ DF22 - ■ ■ L1**	
	114	63	12.47	4 500	2.9	24	**2KJ4103 - ■ DF22 - ■ ■ K1**	
	134	54	10.62	4 300	3.2	24	**2KJ4103 - ■ DF22 - ■ ■ J1**	
	156	46	9.1	4 100	3.4	24	**2KJ4103 - ■ DF22 - ■ ■ H1**	
	181	40	7.84	3 900	3.7	24	**2KJ4103 - ■ DF22 - ■ ■ G1**	
	220	33	6.46	3 700	4.5	24	**2KJ4103 - ■ DF22 - ■ ■ F1**	
	D.49-LHN80MG4E							
	19	370	74.24	3 200	0.85	35	**2KJ4204 - ■ DF22 - ■ ■ F1**	
	20	350	69.88	3 600	0.91	35	**2KJ4204 - ■ DF22 - ■ ■ E1**	
	23	315	62.61	4 300	1.0	35	**2KJ4204 - ■ DF22 - ■ ■ D1**	
	E.49-LHN80MG4E							
	146	49	9.7	4 000	1.8	31	**2KJ4002 - ■ DF22 - ■ ■ S1**	
	161	44	8.82	4 000	2.4	31	**2KJ4002 - ■ DF22 - ■ ■ R1**	
	189	38	7.5	4 000	2.8	31	**2KJ4002 - ■ DF22 - ■ ■ Q1**	
	208	34	6.82	4 000	3.0	31	**2KJ4002 - ■ DF22 - ■ ■ P1**	
	234	31	6.08	4 000	3.4	31	**2KJ4002 - ■ DF22 - ■ ■ N1**	
	261	28	5.45	4 000	3.7	31	**2KJ4002 - ■ DF22 - ■ ■ M1**	
	289	25	4.92	4 000	4.1	31	**2KJ4002 - ■ DF22 - ■ ■ L1**	
	313	23	4.54	4 000	4.5	31	**2KJ4002 - ■ DF22 - ■ ■ K1**	
	343	21	4.14	4 000	4.9	31	**2KJ4002 - ■ DF22 - ■ ■ J1**	
	Z.49-LHN80MG4E							
	27	260	52.14	4 900	1.2	34	**2KJ4104 - ■ DF22 - ■ ■ B2**	
	30	235	47.4	5 000	1.3	34	**2KJ4104 - ■ DF22 - ■ ■ A2**	
	35	200	40.31	5 100	1.6	34	**2KJ4104 - ■ DF22 - ■ ■ X1**	
	39	185	36.65	5 100	1.7	34	**2KJ4104 - ■ DF22 - ■ ■ W1**	
	43	165	32.7	5 200	1.9	34	**2KJ4104 - ■ DF22 - ■ ■ V1**	
	48	148	29.32	5 300	2.2	34	**2KJ4104 - ■ DF22 - ■ ■ U1**	
	54	133	26.43	5 300	2.4	34	**2KJ4104 - ■ DF22 - ■ ■ T1**	
	58	123	24.39	5 300	2.6	34	**2KJ4104 - ■ DF22 - ■ ■ S1**	
	64	112	22.27	5 400	2.8	34	**2KJ4104 - ■ DF22 - ■ ■ R1**	
	D.59-LHN80MG4E							
	13	555	110.12	4 500	0.81	37	**2KJ4205 - ■ DF22 - ■ ■ H1**	
	15	490	97.5	5 400	0.92	37	**2KJ4205 - ■ DF22 - ■ ■ G1**	
	17	405	81.15	5 900	1.1	37	**2KJ4205 - ■ DF22 - ■ ■ F1**	
	19	385	76.38	6 000	1.2	37	**2KJ4205 - ■ DF22 - ■ ■ E1**	
	21	345	68.43	6 100	1.3	37	**2KJ4205 - ■ DF22 - ■ ■ D1**	
	Z.59-LHN80MG4E							
	25	285	56.99	6 300	1.6	37	**2KJ4105 - ■ DF22 - ■ ■ A2**	
	27	260	51.81	6 400	1.7	37	**2KJ4105 - ■ DF22 - ■ ■ X1**	
	32	220	44.06	6 500	2.0	37	**2KJ4105 - ■ DF22 - ■ ■ W1**	
	35	200	40.06	6 500	2.2	37	**2KJ4105 - ■ DF22 - ■ ■ V1**	
	40	180	35.74	6 600	2.5	37	**2KJ4105 - ■ DF22 - ■ ■ U1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**D.69-LHN80MG4E**							
	9.7	735	145.71	8 800	0.82	42	**2KJ4206 - ■ DF22 - ■ ■ K1**	
	11	640	127.63	9 500	0.93	42	**2KJ4206 - ■ DF22 - ■ ■ J1**	
	12	590	117.82	9 600	1.0	42	**2KJ4206 - ■ DF22 - ■ ■ H1**	
	14	525	104.31	9 700	1.1	42	**2KJ4206 - ■ DF22 - ■ ■ G1**	
	16	435	86.82	9 700	1.4	42	**2KJ4206 - ■ DF22 - ■ ■ F1**	
	17	410	81.71	9 800	1.5	42	**2KJ4206 - ■ DF22 - ■ ■ E1**	
	19	365	73.22	9 800	1.6	42	**2KJ4206 - ■ DF22 - ■ ■ D1**	
	E.69-LHN80MG4E							
	153	47	9.3	6 100	2.6	38	**2KJ4003 - ■ DF22 - ■ ■ S1**	
	168	43	8.45	6 100	2.5	38	**2KJ4003 - ■ DF22 - ■ ■ R1**	
	Z.69-LHN80MG4E							
	23	305	60.97	9 900	2.0	41	**2KJ4106 - ■ DF22 - ■ ■ A2**	
	26	280	55.43	9 900	2.1	41	**2KJ4106 - ■ DF22 - ■ ■ X1**	
	30	235	47.14	9 900	2.5	41	**2KJ4106 - ■ DF22 - ■ ■ W1**	
	D.79-LHN80MG4E							
	6.9	1 040	207.1	7 900	0.8	52	**2KJ4207 - ■ DF22 - ■ ■ N1**	
	7.6	935	185.7	9 200	0.9	52	**2KJ4207 - ■ DF22 - ■ ■ M1**	
	8.5	840	167.39	10 200	0.99	52	**2KJ4207 - ■ DF22 - ■ ■ L1**	
	9.2	775	154.51	11 000	1.1	52	**2KJ4207 - ■ DF22 - ■ ■ K1**	
	10	710	141.04	11 800	1.2	52	**2KJ4207 - ■ DF22 - ■ ■ J1**	
	12	590	117.03	11 900	1.4	52	**2KJ4207 - ■ DF22 - ■ ■ H1**	
	13	555	110.14	11 900	1.5	52	**2KJ4207 - ■ DF22 - ■ ■ G1**	
	14	525	104.03	12 000	1.6	52	**2KJ4207 - ■ DF22 - ■ ■ F1**	
	16	445	88.52	12 000	1.9	52	**2KJ4207 - ■ DF22 - ■ ■ E1**	
	19	380	75.83	12 100	2.2	52	**2KJ4207 - ■ DF22 - ■ ■ D1**	
	D.89-LHN80MG4E							
	4.6	1 570	311.6	17 800	1.1	75	**2KJ4208 - ■ DF22 - ■ ■ S1**	
	5	1 420	283.28	17 900	1.2	75	**2KJ4208 - ■ DF22 - ■ ■ R1**	
	5.6	1 280	254.09	18 000	1.3	75	**2KJ4208 - ■ DF22 - ■ ■ Q1**	
	6.2	1 150	228.45	18 100	1.5	75	**2KJ4208 - ■ DF22 - ■ ■ P1**	
	6.9	1 040	206.62	18 200	1.6	75	**2KJ4208 - ■ DF22 - ■ ■ N1**	
	7.4	960	190.73	18 200	1.7	75	**2KJ4208 - ■ DF22 - ■ ■ M1**	
	8.1	880	174.71	18 300	1.9	75	**2KJ4208 - ■ DF22 - ■ ■ L1**	
	D.89-LHN90SH6E							
	3.7	1 930	254.09	18 000	0.87	82	**2KJ4208 - ■ EC22 - ■ ■ Q1**	**P01**
	4.1	1 740	228.45	18 100	0.97	82	**2KJ4208 - ■ EC22 - ■ ■ P1**	**P01**
	D.109-LHN90SH6E							
	2.7	2 650	348.88	18 700	1.2	124	**2KJ4210 - ■ EC22 - ■ ■ T1**	**P01**
	3	2 400	314.98	18 800	1.3	124	**2KJ4210 - ■ EC22 - ■ ■ S1**	**P01**
	3.3	2 170	285.72	18 900	1.4	124	**2KJ4210 - ■ EC22 - ■ ■ R1**	**P01**
	3.6	2 010	263.74	18 900	1.5	124	**2KJ4210 - ■ EC22 - ■ ■ Q1**	**P01**
	3.9	1 820	239.75	19 000	1.7	124	**2KJ4210 - ■ EC22 - ■ ■ P1**	**P01**
	D.129-LHN90SH6E							
	2.5	2 840	373	24 900	1.8	187	**2KJ4211 - ■ EC22 - ■ ■ S1**	**P01**
	2.7	2 620	344.17	25 000	1.9	187	**2KJ4211 - ■ EC22 - ■ ■ R1**	**P01**
	D.89-Z39-LHN80MG4E							
	3.1	2 090	452	18 000	0.8	81	**2KJ4233 - ■ DF22 - ■ ■ C1**	
	3.5	1 870	405	18 500	0.89	81	**2KJ4233 - ■ DF22 - ■ ■ B1**	
	4.1	1 590	344.83	18 500	1.1	81	**2KJ4233 - ■ DF22 - ■ ■ A1**	

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P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**D.109-Z39-LHN80MG4E**							
	1.7	3 870	836	20 000	0.8	123	**2KJ4235 - ■ DF22 - ■ ■ G1**	
	2.1	3 190	690	20 200	0.97	123	**2KJ4235 - ■ DF22 - ■ ■ F1**	
	2.2	3 000	649	20 200	1.0	123	**2KJ4235 - ■ DF22 - ■ ■ E1**	
	2.4	2 690	582	20 200	1.1	123	**2KJ4235 - ■ DF22 - ■ ■ D1**	
	2.9	2 290	495	20 200	1.4	123	**2KJ4235 - ■ DF22 - ■ ■ C1**	
	3.3	1 960	424	20 200	1.6	123	**2KJ4235 - ■ DF22 - ■ ■ B1**	
	3.9	1 690	366	20 200	1.8	123	**2KJ4235 - ■ DF22 - ■ ■ A1**	
	D.129-Z49-LHN80MG4E							
	1.2	5 580	1 204	26 700	0.9	208	**2KJ4237 - ■ DF22 - ■ ■ K1**	
	1.4	4 710	1 016	27 200	1.1	208	**2KJ4237 - ■ DF22 - ■ ■ J1**	
	1.6	4 040	873	27 600	1.2	208	**2KJ4237 - ■ DF22 - ■ ■ G1**	
	1.6	4 100	885	27 500	1.2	208	**2KJ4237 - ■ DF22 - ■ ■ H1**	
	1.7	3 820	825	27 700	1.3	208	**2KJ4237 - ■ DF22 - ■ ■ F1**	
	2	3 250	702	28 000	1.5	208	**2KJ4237 - ■ DF22 - ■ ■ E1**	
	2.4	2 780	601	28 300	1.8	208	**2KJ4237 - ■ DF22 - ■ ■ D1**	
	2.7	2 450	529	28 500	2.0	208	**2KJ4237 - ■ DF22 - ■ ■ C1**	
	D.149-Z49-LHN80MG4E							
	0.7	9 440	2 037	50 500	0.85	285	**2KJ4240 - ■ DF22 - ■ ■ Q1**	
	0.74	8 880	1 917	50 700	0.9	285	**2KJ4240 - ■ DF22 - ■ ■ P1**	
	0.78	8 390	1 811	51 000	0.95	285	**2KJ4240 - ■ DF22 - ■ ■ N1**	
	0.92	7 140	1 541	51 500	1.1	285	**2KJ4240 - ■ DF22 - ■ ■ M1**	
	1.1	6 120	1 320	52 100	1.3	285	**2KJ4240 - ■ DF22 - ■ ■ L1**	
	1.2	5 380	1 161	52 400	1.5	285	**2KJ4240 - ■ DF22 - ■ ■ K1**	
	1.5	4 540	979	52 800	1.8	285	**2KJ4240 - ■ DF22 - ■ ■ J1**	
	1.7	3 900	842	53 100	2.0	285	**2KJ4240 - ■ DF22 - ■ ■ G1**	
	1.7	3 950	853	53 100	2.0	285	**2KJ4240 - ■ DF22 - ■ ■ H1**	
	D.169-Z69-LHN80MG4E							
	0.41	16 100	3 478	69 300	0.87	474	**2KJ4242 - ■ DF22 - ■ ■ U1**	
	0.46	14 400	3 118	70 000	0.97	474	**2KJ4242 - ■ DF22 - ■ ■ T1**	
	0.51	13 000	2 811	70 500	1.1	474	**2KJ4242 - ■ DF22 - ■ ■ S1**	
	0.55	12 000	2 594	70 900	1.2	474	**2KJ4242 - ■ DF22 - ■ ■ R1**	
	0.6	10 900	2 368	71 300	1.3	474	**2KJ4242 - ■ DF22 - ■ ■ Q1**	
	0.72	9 110	1 965	71 900	1.5	474	**2KJ4242 - ■ DF22 - ■ ■ P1**	
	0.77	8 570	1 849	72 200	1.6	474	**2KJ4242 - ■ DF22 - ■ ■ N1**	
	0.81	8 100	1 747	72 300	1.7	474	**2KJ4242 - ■ DF22 - ■ ■ M1**	
	0.96	6 890	1 486	72 800	2.0	474	**2KJ4242 - ■ DF22 - ■ ■ L1**	
	D.189-Z69-LHN80MG4E							
	0.32	20 800	4 490	107 000	0.91	687	**2KJ4244 - ■ DF22 - ■ ■ W1**	
	0.35	18 900	4 082	107 000	1.0	687	**2KJ4244 - ■ DF22 - ■ ■ V1**	
	0.39	16 800	3 642	107 000	1.1	687	**2KJ4244 - ■ DF22 - ■ ■ U1**	
	0.43	15 100	3 265	107 000	1.3	687	**2KJ4244 - ■ DF22 - ■ ■ T1**	
	0.48	13 600	2 943	107 000	1.4	687	**2KJ4244 - ■ DF22 - ■ ■ S1**	
	0.52	12 500	2 717	107 000	1.5	687	**2KJ4244 - ■ DF22 - ■ ■ R1**	
	0.57	11 500	2 480	107 000	1.7	687	**2KJ4244 - ■ DF22 - ■ ■ Q1**	
	0.69	9 540	2 058	107 000	2.0	687	**2KJ4244 - ■ DF22 - ■ ■ P1**	
1.1	**Z.19-LHN80MF2E**							
	151	70	18.92	1 500	1.4	22	**2KJ4101 - ■ DN22 - ■ ■ R1**	**P00**
	173	61	16.5	1 500	1.6	22	**2KJ4101 - ■ DN22 - ■ ■ Q1**	**P00**
	193	54	14.77	1 500	1.7	22	**2KJ4101 - ■ DN22 - ■ ■ P1**	**P00**

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**Z.19-LHN80MF2E**							
	217	48	13.12	1 400	1.9	22	**2KJ4101 - ■ DN22 - ■ ■ N1**	**P00**
	235	45	12.11	1 400	2.0	22	**2KJ4101 - ■ DN22 - ■ ■ M1**	**P00**
	271	39	10.52	1 400	2.1	22	**2KJ4101 - ■ DN22 - ■ ■ L1**	**P00**
	312	34	9.14	1 300	2.3	22	**2KJ4101 - ■ DN22 - ■ ■ K1**	**P00**
	345	30	8.25	1 300	2.4	22	**2KJ4101 - ■ DN22 - ■ ■ J1**	**P00**
	367	29	7.76	1 300	2.6	22	**2KJ4101 - ■ DN22 - ■ ■ H1**	**P00**
	421	25	6.77	1 200	2.7	22	**2KJ4101 - ■ DN22 - ■ ■ G1**	**P00**
	456	23	6.25	1 100	2.4	22	**2KJ4101 - ■ DN22 - ■ ■ F1**	**P00**
	525	20	5.43	1 100	2.6	22	**2KJ4101 - ■ DN22 - ■ ■ E1**	**P00**
	605	17	4.71	1 100	2.8	22	**2KJ4101 - ■ DN22 - ■ ■ D1**	**P00**
	669	16	4.26	1 000	3.0	22	**2KJ4101 - ■ DN22 - ■ ■ C1**	**P00**
	711	15	4.01	1 000	3.1	22	**2KJ4101 - ■ DN22 - ■ ■ B1**	**P00**
	817	13	3.49	1 000	3.3	22	**2KJ4101 - ■ DN22 - ■ ■ A1**	**P00**
	Z.29-LHN80MF2E							
	161	65	17.67	2 500	2.1	23	**2KJ4102 - ■ DN22 - ■ ■ R1**	**P00**
	181	58	15.75	2 500	2.4	23	**2KJ4102 - ■ DN22 - ■ ■ Q1**	**P00**
	196	54	14.54	2 400	2.2	23	**2KJ4102 - ■ DN22 - ■ ■ P1**	**P00**
	224	47	12.73	2 300	3.0	23	**2KJ4102 - ■ DN22 - ■ ■ N1**	**P00**
	255	41	11.16	2 300	3.4	23	**2KJ4102 - ■ DN22 - ■ ■ M1**	**P00**
	282	37	10.12	2 200	3.8	23	**2KJ4102 - ■ DN22 - ■ ■ L1**	**P00**
	299	35	9.53	2 200	4.0	23	**2KJ4102 - ■ DN22 - ■ ■ K1**	**P00**
	339	31	8.4	2 100	4.5	23	**2KJ4102 - ■ DN22 - ■ ■ J1**	**P00**
	391	27	7.29	2 000	4.8	23	**2KJ4102 - ■ DN22 - ■ ■ H1**	**P00**
	412	26	6.92	1 900	2.9	23	**2KJ4102 - ■ DN22 - ■ ■ G1**	**P00**
	470	22	6.06	1 900	4.5	23	**2KJ4102 - ■ DN22 - ■ ■ F1**	**P00**
	537	20	5.31	1 800	4.6	23	**2KJ4102 - ■ DN22 - ■ ■ E1**	**P00**
	591	18	4.82	1 800	4.8	23	**2KJ4102 - ■ DN22 - ■ ■ D1**	**P00**
	628	17	4.54	1 700	5.0	23	**2KJ4102 - ■ DN22 - ■ ■ C1**	**P00**
	712	15	4	1 700	5.2	23	**2KJ4102 - ■ DN22 - ■ ■ B1**	**P00**
	821	13	3.47	1 600	5.5	23	**2KJ4102 - ■ DN22 - ■ ■ A1**	**P00**
	Z.29-LHN90SH4E							
	63	167	22.58	3 200	0.84	30	**2KJ4102 - ■ EL22 - ■ ■ T1**	
	72	146	19.8	3 200	0.96	30	**2KJ4102 - ■ EL22 - ■ ■ S1**	
	80	131	17.67	3 300	1.1	30	**2KJ4102 - ■ EL22 - ■ ■ R1**	
	90	117	15.75	3 200	1.2	30	**2KJ4102 - ■ EL22 - ■ ■ Q1**	
	98	108	14.54	3 200	1.1	30	**2KJ4102 - ■ EL22 - ■ ■ P1**	
	112	94	12.73	3 000	1.5	30	**2KJ4102 - ■ EL22 - ■ ■ N1**	
	127	83	11.16	2 900	1.7	30	**2KJ4102 - ■ EL22 - ■ ■ M1**	
	140	75	10.12	2 900	1.9	30	**2KJ4102 - ■ EL22 - ■ ■ L1**	
	149	70	9.53	2 800	2.0	30	**2KJ4102 - ■ EL22 - ■ ■ K1**	
	169	62	8.4	2 700	2.2	30	**2KJ4102 - ■ EL22 - ■ ■ J1**	
	195	54	7.29	2 600	2.4	30	**2KJ4102 - ■ EL22 - ■ ■ H1**	
	205	51	6.92	2 500	1.5	30	**2KJ4102 - ■ EL22 - ■ ■ G1**	
	234	45	6.06	2 400	2.2	30	**2KJ4102 - ■ EL22 - ■ ■ F1**	
	267	39	5.31	2 300	2.3	30	**2KJ4102 - ■ EL22 - ■ ■ E1**	
	295	36	4.82	2 300	2.4	30	**2KJ4102 - ■ EL22 - ■ ■ D1**	
	313	34	4.54	2 200	2.5	30	**2KJ4102 - ■ EL22 - ■ ■ C1**	
	355	30	4	2 100	2.6	30	**2KJ4102 - ■ EL22 - ■ ■ B1**	
	409	26	3.47	2 000	2.7	30	**2KJ4102 - ■ EL22 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**E.39-LHN90SH4E**							
	217	48	6.55	3 000	0.83	32	**2KJ4001 - ■ EL22 - ■ ■ P1**	
	254	41	5.6	3 000	0.97	32	**2KJ4001 - ■ EL22 - ■ ■ N1**	
	279	38	5.09	3 000	1.1	32	**2KJ4001 - ■ EL22 - ■ ■ M1**	
	316	33	4.5	3 000	1.4	32	**2KJ4001 - ■ EL22 - ■ ■ L1**	
	347	30	4.09	3 000	1.6	32	**2KJ4001 - ■ EL22 - ■ ■ K1**	
	397	26	3.58	3 000	2.2	32	**2KJ4001 - ■ EL22 - ■ ■ J1**	
	429	24	3.31	3 000	2.4	32	**2KJ4001 - ■ EL22 - ■ ■ H1**	
	485	22	2.93	3 000	3.0	32	**2KJ4001 - ■ EL22 - ■ ■ G1**	
	582	18	2.44	3 000	3.6	32	**2KJ4001 - ■ EL22 - ■ ■ F1**	
	620	17	2.29	2 900	3.9	32	**2KJ4001 - ■ EL22 - ■ ■ E1**	
	689	15	2.06	2 800	4.3	32	**2KJ4001 - ■ EL22 - ■ ■ D1**	
	811	13	1.75	2 700	5.1	32	**2KJ4001 - ■ EL22 - ■ ■ C1**	
	947	11	1.5	2 500	5.5	32	**2KJ4001 - ■ EL22 - ■ ■ B1**	
	1 101	9.5	1.29	2 400	5.7	32	**2KJ4001 - ■ EL22 - ■ ■ A1**	
	Z.39-LHN80MF2E							
	160	66	17.77	3 600	3.1	25	**2KJ4103 - ■ DN22 - ■ ■ N1**	**P00**
	193	54	14.79	3 600	3.5	25	**2KJ4103 - ■ DN22 - ■ ■ M1**	**P00**
	205	51	13.92	3 600	3.7	25	**2KJ4103 - ■ DN22 - ■ ■ L1**	**P00**
	229	46	12.47	3 500	3.9	25	**2KJ4103 - ■ DN22 - ■ ■ K1**	**P00**
	268	39	10.62	3 300	4.3	25	**2KJ4103 - ■ DN22 - ■ ■ J1**	**P00**
	313	34	9.1	3 200	4.7	25	**2KJ4103 - ■ DN22 - ■ ■ H1**	**P00**
	364	29	7.84	3 000	5.1	25	**2KJ4103 - ■ DN22 - ■ ■ G1**	**P00**
	Z.39-LHN90SH4E							
	42	250	33.97	3 700	0.8	31	**2KJ4103 - ■ EL22 - ■ ■ U1**	
	46	225	30.88	4 000	0.88	31	**2KJ4103 - ■ EL22 - ■ ■ T1**	
	52	200	27.3	4 400	0.99	31	**2KJ4103 - ■ EL22 - ■ ■ S1**	
	57	184	24.82	4 600	1.1	31	**2KJ4103 - ■ EL22 - ■ ■ R1**	
	65	161	21.74	4 900	1.2	31	**2KJ4103 - ■ EL22 - ■ ■ Q1**	
	71	148	20.07	5 100	1.3	31	**2KJ4103 - ■ EL22 - ■ ■ P1**	
	80	131	17.77	5 000	1.5	31	**2KJ4103 - ■ EL22 - ■ ■ N1**	
	96	109	14.79	4 700	1.8	31	**2KJ4103 - ■ EL22 - ■ ■ M1**	
	102	103	13.92	4 600	1.8	31	**2KJ4103 - ■ EL22 - ■ ■ L1**	
	114	92	12.47	4 500	2.0	31	**2KJ4103 - ■ EL22 - ■ ■ K1**	
	134	79	10.62	4 300	2.2	31	**2KJ4103 - ■ EL22 - ■ ■ J1**	
	156	67	9.1	4 100	2.3	31	**2KJ4103 - ■ EL22 - ■ ■ H1**	
	181	58	7.84	3 900	2.6	31	**2KJ4103 - ■ EL22 - ■ ■ G1**	
	220	48	6.46	3 700	3.1	31	**2KJ4103 - ■ EL22 - ■ ■ F1**	
	234	45	6.08	3 600	3.3	31	**2KJ4103 - ■ EL22 - ■ ■ E1**	
	261	40	5.45	3 500	3.5	31	**2KJ4103 - ■ EL22 - ■ ■ D1**	
	306	34	4.64	3 300	3.8	31	**2KJ4103 - ■ EL22 - ■ ■ C1**	
	357	29	3.98	3 100	4.1	31	**2KJ4103 - ■ EL22 - ■ ■ B1**	
	414	25	3.43	3 000	4.4	31	**2KJ4103 - ■ EL22 - ■ ■ A1**	
	E.49-LHN90SH4E							
	146	72	9.7	4 000	1.2	36	**2KJ4002 - ■ EL22 - ■ ■ S1**	
	161	65	8.82	4 000	1.7	36	**2KJ4002 - ■ EL22 - ■ ■ R1**	
	189	56	7.5	4 000	1.9	36	**2KJ4002 - ■ EL22 - ■ ■ Q1**	
	208	50	6.82	4 000	2.1	36	**2KJ4002 - ■ EL22 - ■ ■ P1**	
	234	45	6.08	4 000	2.3	36	**2KJ4002 - ■ EL22 - ■ ■ N1**	
	261	40	5.45	4 000	2.6	36	**2KJ4002 - ■ EL22 - ■ ■ M1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**E.49-LHN90SH4E**							
	289	36	4.92	4 000	2.8	36	**2KJ4002 - ■ EL22 - ■ ■ L1**	
	313	34	4.54	4 000	3.0	36	**2KJ4002 - ■ EL22 - ■ ■ K1**	
	343	31	4.14	4 000	3.3	36	**2KJ4002 - ■ EL22 - ■ ■ J1**	
	413	25	3.44	4 000	4.0	36	**2KJ4002 - ■ EL22 - ■ ■ H1**	
	438	24	3.24	4 000	4.2	36	**2KJ4002 - ■ EL22 - ■ ■ G1**	
	464	23	3.06	4 000	4.5	36	**2KJ4002 - ■ EL22 - ■ ■ F1**	
	546	19	2.6	4 000	5.3	36	**2KJ4002 - ■ EL22 - ■ ■ E1**	
	Z.49-LHN90SH4E							
	27	385	52.14	4 900	0.83	40	**2KJ4104 - ■ EL22 - ■ ■ B2**	
	30	350	47.4	5 000	0.91	40	**2KJ4104 - ■ EL22 - ■ ■ A2**	
	35	295	40.31	5 100	1.1	40	**2KJ4104 - ■ EL22 - ■ ■ X1**	
	39	270	36.65	5 100	1.2	40	**2KJ4104 - ■ EL22 - ■ ■ W1**	
	43	240	32.7	5 200	1.3	40	**2KJ4104 - ■ EL22 - ■ ■ V1**	
	48	215	29.32	5 300	1.5	40	**2KJ4104 - ■ EL22 - ■ ■ U1**	
	54	196	26.43	5 300	1.6	40	**2KJ4104 - ■ EL22 - ■ ■ T1**	
	58	180	24.39	5 300	1.8	40	**2KJ4104 - ■ EL22 - ■ ■ S1**	
	64	165	22.27	5 400	1.9	40	**2KJ4104 - ■ EL22 - ■ ■ R1**	
	77	137	18.48	5 300	2.3	40	**2KJ4104 - ■ EL22 - ■ ■ Q1**	
	82	129	17.39	5 200	2.5	40	**2KJ4104 - ■ EL22 - ■ ■ P1**	
	86	121	16.42	5 200	2.6	40	**2KJ4104 - ■ EL22 - ■ ■ N1**	
	102	103	13.98	4 900	3.1	40	**2KJ4104 - ■ EL22 - ■ ■ M1**	
	119	89	11.97	4 700	3.6	40	**2KJ4104 - ■ EL22 - ■ ■ L1**	
	D.59-LHN90SH4E							
	19	565	76.38	6 000	0.8	43	**2KJ4205 - ■ EL22 - ■ ■ E1**	
	21	505	68.43	6 100	0.89	43	**2KJ4205 - ■ EL22 - ■ ■ D1**	
	Z.59-LHN90SH4E							
	25	420	56.99	6 300	1.1	42	**2KJ4105 - ■ EL22 - ■ ■ A2**	
	27	380	51.81	6 400	1.2	42	**2KJ4105 - ■ EL22 - ■ ■ X1**	
	32	325	44.06	6 500	1.4	42	**2KJ4105 - ■ EL22 - ■ ■ W1**	
	35	295	40.06	6 500	1.5	42	**2KJ4105 - ■ EL22 - ■ ■ V1**	
	40	260	35.74	6 600	1.7	42	**2KJ4105 - ■ EL22 - ■ ■ U1**	
	44	235	32.05	6 700	1.9	42	**2KJ4105 - ■ EL22 - ■ ■ T1**	
	49	210	28.89	6 700	2.1	42	**2KJ4105 - ■ EL22 - ■ ■ S1**	
	53	197	26.66	6 700	2.3	42	**2KJ4105 - ■ EL22 - ■ ■ R1**	
	58	180	24.34	6 800	2.5	42	**2KJ4105 - ■ EL22 - ■ ■ Q1**	
	70	149	20.2	6 700	3.0	42	**2KJ4105 - ■ EL22 - ■ ■ P1**	
	75	141	19.01	6 600	3.2	42	**2KJ4105 - ■ EL22 - ■ ■ N1**	
	D.69-LHN90SH4E							
	16	640	86.82	9 700	0.93	47	**2KJ4206 - ■ EL22 - ■ ■ F1**	
	17	600	81.71	9 800	0.99	47	**2KJ4206 - ■ EL22 - ■ ■ E1**	
	19	540	73.22	9 800	1.1	47	**2KJ4206 - ■ EL22 - ■ ■ D1**	
	E.69-LHN90SH4E							
	153	69	9.3	6 100	1.7	43	**2KJ4003 - ■ EL22 - ■ ■ S1**	
	168	62	8.45	6 100	1.7	43	**2KJ4003 - ■ EL22 - ■ ■ R1**	
	187	56	7.58	6 100	3.7	43	**2KJ4003 - ■ EL22 - ■ ■ Q1**	
	208	50	6.82	6 100	3.4	43	**2KJ4003 - ■ EL22 - ■ ■ P1**	
	230	46	6.17	6 100	4.5	43	**2KJ4003 - ■ EL22 - ■ ■ N1**	
	250	42	5.69	6 100	3.9	43	**2KJ4003 - ■ EL22 - ■ ■ M1**	

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P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**Z.69-LHN90SH4E**							
	23	450	60.97	9 900	1.3	47	**2KJ4106 - ■ EL22 - ■ ■ A2**	
	26	410	55.43	9 900	1.5	47	**2KJ4106 - ■ EL22 - ■ ■ X1**	
	30	345	47.14	9 900	1.7	47	**2KJ4106 - ■ EL22 - ■ ■ W1**	
	33	315	42.86	10 000	1.9	47	**2KJ4106 - ■ EL22 - ■ ■ V1**	
	37	280	38.24	10 000	2.1	47	**2KJ4106 - ■ EL22 - ■ ■ U1**	
	41	250	34.29	10 000	2.4	47	**2KJ4106 - ■ EL22 - ■ ■ T1**	
	46	225	30.9	10 000	2.6	47	**2KJ4106 - ■ EL22 - ■ ■ S1**	
	50	210	28.53	10 000	2.8	47	**2KJ4106 - ■ EL22 - ■ ■ R1**	
	D.79-LHN90SH4E							
	10	1 040	141.04	11 800	0.81	59	**2KJ4207 - ■ EL22 - ■ ■ J1**	
	12	865	117.03	11 900	0.97	59	**2KJ4207 - ■ EL22 - ■ ■ H1**	
	13	815	110.14	11 900	1.0	59	**2KJ4207 - ■ EL22 - ■ ■ G1**	
	14	770	104.03	12 000	1.1	59	**2KJ4207 - ■ EL22 - ■ ■ F1**	
	16	655	88.52	12 000	1.3	59	**2KJ4207 - ■ EL22 - ■ ■ E1**	
	19	560	75.83	12 100	1.5	59	**2KJ4207 - ■ EL22 - ■ ■ D1**	
	21	490	66.67	12 100	1.7	59	**2KJ4207 - ■ EL22 - ■ ■ C1**	
	Z.79-LHN90SH4E							
	26	400	54.47	12 200	2.1	58	**2KJ4107 - ■ EL22 - ■ ■ A2**	
	29	365	49.52	12 200	2.3	58	**2KJ4107 - ■ EL22 - ■ ■ X1**	
	D.89-LHN90SH4E							
	5	2 090	283.28	17 900	0.8	82	**2KJ4208 - ■ EL22 - ■ ■ R1**	
	5.6	1 880	254.09	18 000	0.89	82	**2KJ4208 - ■ EL22 - ■ ■ Q1**	
	6.2	1 690	228.45	18 100	0.99	82	**2KJ4208 - ■ EL22 - ■ ■ P1**	
	6.9	1 520	206.62	18 200	1.1	82	**2KJ4208 - ■ EL22 - ■ ■ N1**	
	7.4	1 410	190.73	18 200	1.2	82	**2KJ4208 - ■ EL22 - ■ ■ M1**	
	8.1	1 290	174.71	18 300	1.3	82	**2KJ4208 - ■ EL22 - ■ ■ L1**	
	9.7	1 080	146.59	18 400	1.5	82	**2KJ4208 - ■ EL22 - ■ ■ K1**	
	10	1 020	137.97	18 400	1.6	82	**2KJ4208 - ■ EL22 - ■ ■ J1**	
	11	935	126.58	18 500	1.8	82	**2KJ4208 - ■ EL22 - ■ ■ H1**	
	13	815	110.57	18 500	2.1	82	**2KJ4208 - ■ EL22 - ■ ■ G1**	
	E.89-LHN90SH4E							
	147	72	9.67	8 000	3.9	59	**2KJ4004 - ■ EL22 - ■ ■ T1**	
	D.109-LHN90LK6E							
	2.7	3 850	348.88	18 700	0.8	125	**2KJ4210 - ■ EQ22 - ■ ■ T1**	**P01**
	3	3 480	314.98	18 800	0.89	125	**2KJ4210 - ■ EQ22 - ■ ■ S1**	**P01**
	3.3	3 150	285.72	18 900	0.98	125	**2KJ4210 - ■ EQ22 - ■ ■ R1**	**P01**
	3.6	2 910	263.74	18 900	1.1	125	**2KJ4210 - ■ EQ22 - ■ ■ Q1**	**P01**
	D.109-LHN90SH4E							
	4.1	2 580	348.88	18 700	1.2	124	**2KJ4210 - ■ EL22 - ■ ■ T1**	
	4.5	2 330	314.98	18 800	1.3	124	**2KJ4210 - ■ EL22 - ■ ■ S1**	
	5	2 110	285.72	18 900	1.5	124	**2KJ4210 - ■ EL22 - ■ ■ R1**	
	5.4	1 950	263.74	18 900	1.6	124	**2KJ4210 - ■ EL22 - ■ ■ Q1**	
	5.9	1 770	239.75	19 000	1.7	124	**2KJ4210 - ■ EL22 - ■ ■ P1**	
	7	1 500	203.01	19 100	2.1	124	**2KJ4210 - ■ EL22 - ■ ■ N1**	
	D.129-LHN90LK6E							
	2.5	4 120	373	24 900	1.2	188	**2KJ4211 - ■ EQ22 - ■ ■ S1**	**P01**
	2.8	3 800	344.17	25 000	1.3	188	**2KJ4211 - ■ EQ22 - ■ ■ R1**	**P01**
	3	3 500	316.9	25 100	1.4	188	**2KJ4211 - ■ EQ22 - ■ ■ Q1**	**P01**
	3.5	2 980	270.24	25 100	1.7	188	**2KJ4211 - ■ EQ22 - ■ ■ P1**	**P01**

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**D.129-LHN90SH4E**							
	3.8	2 750	373	24 900	1.8	187	**2KJ4211 - ■ EL22 - ■ ■ S1**	
	4.1	2 540	344.17	25 000	2.0	187	**2KJ4211 - ■ EL22 - ■ ■ R1**	
	D.109-Z39-LHN90SH4E							
	2.9	3 400	495	20 200	0.91	131	**2KJ4235 - ■ EL22 - ■ ■ C1**	
	3.3	2 910	424	20 200	1.1	131	**2KJ4235 - ■ EL22 - ■ ■ B1**	
	3.9	2 510	366	20 200	1.2	131	**2KJ4235 - ■ EL22 - ■ ■ A1**	
	D.129-Z49-LHN90SH4E							
	1.6	6 000	873	26 400	0.83	214	**2KJ4237 - ■ EL22 - ■ ■ G1**	
	1.6	6 080	885	26 400	0.82	214	**2KJ4237 - ■ EL22 - ■ ■ H1**	
	1.7	5 670	825	26 600	0.88	214	**2KJ4237 - ■ EL22 - ■ ■ F1**	
	2	4 820	702	27 100	1.0	214	**2KJ4237 - ■ EL22 - ■ ■ E1**	
	2.4	4 130	601	27 500	1.2	214	**2KJ4237 - ■ EL22 - ■ ■ D1**	
	2.7	3 630	529	27 800	1.4	214	**2KJ4237 - ■ EL22 - ■ ■ C1**	
	3.2	3 060	446	28 200	1.6	214	**2KJ4237 - ■ EL22 - ■ ■ B1**	
	3.7	2 670	389	28 400	1.9	214	**2KJ4237 - ■ EL22 - ■ ■ A1**	
	D.149-Z49-LHN90SH4E							
	1.1	9 070	1 320	50 700	0.88	290	**2KJ4240 - ■ EL22 - ■ ■ L1**	
	1.2	7 980	1 161	51 200	1.0	290	**2KJ4240 - ■ EL22 - ■ ■ K1**	
	1.5	6 730	979	51 800	1.2	290	**2KJ4240 - ■ EL22 - ■ ■ J1**	
	1.7	5 780	842	52 200	1.4	290	**2KJ4240 - ■ EL22 - ■ ■ G1**	
	1.7	5 860	853	52 200	1.4	290	**2KJ4240 - ■ EL22 - ■ ■ H1**	
	1.8	5 460	795	52 400	1.5	290	**2KJ4240 - ■ EL22 - ■ ■ F1**	
	2.1	4 650	677	52 800	1.7	290	**2KJ4240 - ■ EL22 - ■ ■ E1**	
	2.4	3 980	580	53 100	2.0	290	**2KJ4240 - ■ EL22 - ■ ■ D1**	
	D.169-Z69-LHN90SH4E							
	0.6	16 200	2 368	69 300	0.86	479	**2KJ4242 - ■ EL22 - ■ ■ Q1**	
	0.72	13 500	1 965	70 300	1.0	479	**2KJ4242 - ■ EL22 - ■ ■ P1**	
	0.77	12 700	1 849	70 600	1.1	479	**2KJ4242 - ■ EL22 - ■ ■ N1**	
	0.81	12 000	1 747	70 900	1.2	479	**2KJ4242 - ■ EL22 - ■ ■ M1**	
	0.96	10 200	1 486	71 500	1.4	479	**2KJ4242 - ■ EL22 - ■ ■ L1**	
	1.1	8 750	1 273	72 100	1.6	479	**2KJ4242 - ■ EL22 - ■ ■ K1**	
	1.3	7 690	1 119	72 500	1.8	479	**2KJ4242 - ■ EL22 - ■ ■ J1**	
	D.189-Z69-LHN90SH4E							
	0.43	22 400	3 265	107 000	0.85	693	**2KJ4244 - ■ EL22 - ■ ■ T1**	
	0.48	20 200	2 943	107 000	0.94	693	**2KJ4244 - ■ EL22 - ■ ■ S1**	
	0.52	18 600	2 717	107 000	1.0	693	**2KJ4244 - ■ EL22 - ■ ■ R1**	
	0.57	17 000	2 480	107 000	1.1	693	**2KJ4244 - ■ EL22 - ■ ■ Q1**	
	0.69	14 100	2 058	107 000	1.3	693	**2KJ4244 - ■ EL22 - ■ ■ P1**	
	0.73	13 300	1 937	107 000	1.4	693	**2KJ4244 - ■ EL22 - ■ ■ N1**	
	0.78	12 500	1 829	107 000	1.5	693	**2KJ4244 - ■ EL22 - ■ ■ M1**	
	0.91	10 600	1 556	107 000	1.8	693	**2KJ4244 - ■ EL22 - ■ ■ L1**	
1.5	**Z.29-LHN90LJ4E**							
	90	159	15.75	3 200	0.88	31	**2KJ4102 - ■ EP22 - ■ ■ Q1**	
	98	147	14.54	3 200	0.82	31	**2KJ4102 - ■ EP22 - ■ ■ P1**	
	112	128	12.73	3 000	1.1	31	**2KJ4102 - ■ EP22 - ■ ■ N1**	
	127	113	11.16	2 900	1.2	31	**2KJ4102 - ■ EP22 - ■ ■ M1**	
	140	102	10.12	2 900	1.4	31	**2KJ4102 - ■ EP22 - ■ ■ L1**	
	149	96	9.53	2 800	1.5	31	**2KJ4102 - ■ EP22 - ■ ■ K1**	
	169	85	8.4	2 700	1.6	31	**2KJ4102 - ■ EP22 - ■ ■ J1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**Z.29-LHN90LJ4E**							
	195	74	7.29	2 600	1.8	31	**2KJ4102 - ■ EP22 - ■ ■ H1**	
	205	70	6.92	2 500	1.1	31	**2KJ4102 - ■ EP22 - ■ ■ G1**	
	234	61	6.06	2 400	1.6	31	**2KJ4102 - ■ EP22 - ■ ■ F1**	
	267	54	5.31	2 300	1.7	31	**2KJ4102 - ■ EP22 - ■ ■ E1**	
	295	49	4.82	2 300	1.8	31	**2KJ4102 - ■ EP22 - ■ ■ D1**	
	313	46	4.54	2 200	1.8	31	**2KJ4102 - ■ EP22 - ■ ■ C1**	
	355	40	4	2 100	1.9	31	**2KJ4102 - ■ EP22 - ■ ■ B1**	
	409	35	3.47	2 000	2.0	31	**2KJ4102 - ■ EP22 - ■ ■ A1**	
	Z.29-LHN90SF2E							
	162	88	17.67	2 500	1.6	30	**2KJ4102 - ■ EK22 - ■ ■ R1**	**P00**
	182	79	15.75	2 500	1.8	30	**2KJ4102 - ■ EK22 - ■ ■ Q1**	**P00**
	197	73	14.54	2 400	1.7	30	**2KJ4102 - ■ EK22 - ■ ■ P1**	**P00**
	225	64	12.73	2 300	2.2	30	**2KJ4102 - ■ EK22 - ■ ■ N1**	**P00**
	257	56	11.16	2 300	2.5	30	**2KJ4102 - ■ EK22 - ■ ■ M1**	**P00**
	284	50	10.12	2 200	2.8	30	**2KJ4102 - ■ EK22 - ■ ■ L1**	**P00**
	301	48	9.53	2 200	2.9	30	**2KJ4102 - ■ EK22 - ■ ■ K1**	**P00**
	342	42	8.4	2 100	3.3	30	**2KJ4102 - ■ EK22 - ■ ■ J1**	**P00**
	394	36	7.29	2 000	3.6	30	**2KJ4102 - ■ EK22 - ■ ■ H1**	**P00**
	415	34	6.92	1 900	2.2	30	**2KJ4102 - ■ EK22 - ■ ■ G1**	**P00**
	474	30	6.06	1 900	3.3	30	**2KJ4102 - ■ EK22 - ■ ■ F1**	**P00**
	540	26	5.31	1 800	3.4	30	**2KJ4102 - ■ EK22 - ■ ■ E1**	**P00**
	595	24	4.82	1 800	3.6	30	**2KJ4102 - ■ EK22 - ■ ■ D1**	**P00**
	632	23	4.54	1 700	3.7	30	**2KJ4102 - ■ EK22 - ■ ■ C1**	**P00**
	718	20	4	1 700	3.8	30	**2KJ4102 - ■ EK22 - ■ ■ B1**	**P00**
	827	17	3.47	1 600	4.0	30	**2KJ4102 - ■ EK22 - ■ ■ A1**	**P00**
	E.39-LHN90LJ4E							
	316	45	4.5	3 000	1.1	33	**2KJ4001 - ■ EP22 - ■ ■ L1**	
	347	41	4.09	3 000	1.2	33	**2KJ4001 - ■ EP22 - ■ ■ K1**	
	397	36	3.58	3 000	1.6	33	**2KJ4001 - ■ EP22 - ■ ■ J1**	
	429	33	3.31	3 000	1.7	33	**2KJ4001 - ■ EP22 - ■ ■ H1**	
	485	30	2.93	3 000	2.2	33	**2KJ4001 - ■ EP22 - ■ ■ G1**	
	582	25	2.44	3 000	2.6	33	**2KJ4001 - ■ EP22 - ■ ■ F1**	
	620	23	2.29	2 900	2.9	33	**2KJ4001 - ■ EP22 - ■ ■ E1**	
	689	21	2.06	2 800	3.2	33	**2KJ4001 - ■ EP22 - ■ ■ D1**	
	811	18	1.75	2 700	3.7	33	**2KJ4001 - ■ EP22 - ■ ■ C1**	
	947	15	1.5	2 500	4.0	33	**2KJ4001 - ■ EP22 - ■ ■ B1**	
	1 101	13	1.29	2 400	4.1	33	**2KJ4001 - ■ EP22 - ■ ■ A1**	
	Z.39-LHN90LJ4E							
	57	250	24.82	4 600	0.8	32	**2KJ4103 - ■ EP22 - ■ ■ R1**	
	65	215	21.74	4 900	0.91	32	**2KJ4103 - ■ EP22 - ■ ■ Q1**	
	71	200	20.07	5 100	0.99	32	**2KJ4103 - ■ EP22 - ■ ■ P1**	
	80	179	17.77	5 000	1.1	32	**2KJ4103 - ■ EP22 - ■ ■ N1**	
	96	149	14.79	4 700	1.3	32	**2KJ4103 - ■ EP22 - ■ ■ M1**	
	102	140	13.92	4 600	1.3	32	**2KJ4103 - ■ EP22 - ■ ■ L1**	
	114	126	12.47	4 500	1.4	32	**2KJ4103 - ■ EP22 - ■ ■ K1**	
	134	107	10.62	4 300	1.6	32	**2KJ4103 - ■ EP22 - ■ ■ J1**	
	156	92	9.1	4 100	1.7	32	**2KJ4103 - ■ EP22 - ■ ■ H1**	
	181	79	7.84	3 900	1.9	32	**2KJ4103 - ■ EP22 - ■ ■ G1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**Z.39-LHN90LJ4E**							
	220	65	6.46	3 700	2.2	32	**2KJ4103 - ■ EP22 - ■ ■ F1**	
	234	61	6.08	3 600	2.4	32	**2KJ4103 - ■ EP22 - ■ ■ E1**	
	261	55	5.45	3 500	2.5	32	**2KJ4103 - ■ EP22 - ■ ■ D1**	
	306	47	4.64	3 300	2.8	32	**2KJ4103 - ■ EP22 - ■ ■ C1**	
	357	40	3.98	3 100	3.0	32	**2KJ4103 - ■ EP22 - ■ ■ B1**	
	414	35	3.43	3 000	3.2	32	**2KJ4103 - ■ EP22 - ■ ■ A1**	
	Z.39-LHN90SF2E							
	162	89	17.77	3 600	2.3	32	**2KJ4103 - ■ EK22 - ■ ■ N1**	**P00**
	194	74	14.79	3 600	2.6	32	**2KJ4103 - ■ EK22 - ■ ■ M1**	**P00**
	206	70	13.92	3 600	2.7	32	**2KJ4103 - ■ EK22 - ■ ■ L1**	**P00**
	230	62	12.47	3 500	2.9	32	**2KJ4103 - ■ EK22 - ■ ■ K1**	**P00**
	270	53	10.62	3 300	3.2	32	**2KJ4103 - ■ EK22 - ■ ■ J1**	**P00**
	315	45	9.1	3 200	3.5	32	**2KJ4103 - ■ EK22 - ■ ■ H1**	**P00**
	366	39	7.84	3 000	3.8	32	**2KJ4103 - ■ EK22 - ■ ■ G1**	**P00**
	444	32	6.46	2 900	4.5	32	**2KJ4103 - ■ EK22 - ■ ■ F1**	**P00**
	472	30	6.08	2 800	4.8	32	**2KJ4103 - ■ EK22 - ■ ■ E1**	**P00**
	527	27	5.45	2 700	5.1	32	**2KJ4103 - ■ EK22 - ■ ■ D1**	**P00**
	619	23	4.64	2 600	5.6	32	**2KJ4103 - ■ EK22 - ■ ■ C1**	**P00**
	721	20	3.98	2 400	6.1	32	**2KJ4103 - ■ EK22 - ■ ■ B1**	**P00**
	E.49-LHN90LJ4E							
	146	98	9.7	4 000	0.88	37	**2KJ4002 - ■ EP22 - ■ ■ S1**	
	161	89	8.82	4 000	1.2	37	**2KJ4002 - ■ EP22 - ■ ■ R1**	
	189	76	7.5	4 000	1.4	37	**2KJ4002 - ■ EP22 - ■ ■ Q1**	
	208	69	6.82	4 000	1.5	37	**2KJ4002 - ■ EP22 - ■ ■ P1**	
	234	61	6.08	4 000	1.7	37	**2KJ4002 - ■ EP22 - ■ ■ N1**	
	261	55	5.45	4 000	1.9	37	**2KJ4002 - ■ EP22 - ■ ■ M1**	
	289	50	4.92	4 000	2.1	37	**2KJ4002 - ■ EP22 - ■ ■ L1**	
	313	46	4.54	4 000	2.2	37	**2KJ4002 - ■ EP22 - ■ ■ K1**	
	343	42	4.14	4 000	2.4	37	**2KJ4002 - ■ EP22 - ■ ■ J1**	
	413	35	3.44	4 000	2.9	37	**2KJ4002 - ■ EP22 - ■ ■ H1**	
	438	33	3.24	4 000	3.1	37	**2KJ4002 - ■ EP22 - ■ ■ G1**	
	464	31	3.06	4 000	3.3	37	**2KJ4002 - ■ EP22 - ■ ■ F1**	
	546	26	2.6	4 000	3.9	37	**2KJ4002 - ■ EP22 - ■ ■ E1**	
	637	22	2.23	3 800	4.5	37	**2KJ4002 - ■ EP22 - ■ ■ D1**	
	724	20	1.96	3 600	5.2	37	**2KJ4002 - ■ EP22 - ■ ■ C1**	
	861	17	1.65	3 400	6.2	37	**2KJ4002 - ■ EP22 - ■ ■ B1**	
	Z.49-LHN90LJ4E							
	39	370	36.65	5 100	0.87	41	**2KJ4104 - ■ EP22 - ■ ■ W1**	
	43	330	32.7	5 200	0.97	41	**2KJ4104 - ■ EP22 - ■ ■ V1**	
	48	295	29.32	5 300	1.1	41	**2KJ4104 - ■ EP22 - ■ ■ U1**	
	54	265	26.43	5 300	1.2	41	**2KJ4104 - ■ EP22 - ■ ■ T1**	
	58	245	24.39	5 300	1.3	41	**2KJ4104 - ■ EP22 - ■ ■ S1**	
	64	225	22.27	5 400	1.4	41	**2KJ4104 - ■ EP22 - ■ ■ R1**	
	77	186	18.48	5 300	1.7	41	**2KJ4104 - ■ EP22 - ■ ■ Q1**	
	82	175	17.39	5 200	1.8	41	**2KJ4104 - ■ EP22 - ■ ■ P1**	
	86	166	16.42	5 200	1.9	41	**2KJ4104 - ■ EP22 - ■ ■ N1**	
	102	141	13.98	4 900	2.3	41	**2KJ4104 - ■ EP22 - ■ ■ M1**	
	119	121	11.97	4 700	2.7	41	**2KJ4104 - ■ EP22 - ■ ■ L1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**Z.49-LHN90LJ4E**							
	135	106	10.53	4 500	3.0	41	**2KJ4104 - ■ EP22 - ■ ■ K1**	
	160	90	8.88	4 300	3.6	41	**2KJ4104 - ■ EP22 - ■ ■ J1**	
	183	78	7.74	4 100	4.1	41	**2KJ4104 - ■ EP22 - ■ ■ H1**	
	186	77	7.64	4 000	3.8	41	**2KJ4104 - ■ EP22 - ■ ■ G1**	
	197	73	7.21	4 000	4.0	41	**2KJ4104 - ■ EP22 - ■ ■ F1**	
	231	62	6.14	3 800	4.3	41	**2KJ4104 - ■ EP22 - ■ ■ E1**	
	270	53	5.26	3 600	4.6	41	**2KJ4104 - ■ EP22 - ■ ■ D1**	
	307	47	4.62	3 400	4.8	41	**2KJ4104 - ■ EP22 - ■ ■ C1**	
	364	39	3.9	3 300	5.2	41	**2KJ4104 - ■ EP22 - ■ ■ B1**	
	Z.49-LHN90SF2E							
	155	92	18.48	4 200	3.5	41	**2KJ4104 - ■ EK22 - ■ ■ Q1**	**P00**
	165	87	17.39	4 100	3.7	41	**2KJ4104 - ■ EK22 - ■ ■ P1**	**P00**
	175	82	16.42	4 000	3.9	41	**2KJ4104 - ■ EK22 - ■ ■ N1**	**P00**
	Z.59-LHN90LJ4E							
	27	520	51.81	6 400	0.86	43	**2KJ4105 - ■ EP22 - ■ ■ X1**	
	32	440	44.06	6 500	1.0	43	**2KJ4105 - ■ EP22 - ■ ■ W1**	
	35	400	40.06	6 500	1.1	43	**2KJ4105 - ■ EP22 - ■ ■ V1**	
	40	360	35.74	6 600	1.2	43	**2KJ4105 - ■ EP22 - ■ ■ U1**	
	44	320	32.05	6 700	1.4	43	**2KJ4105 - ■ EP22 - ■ ■ T1**	
	49	290	28.89	6 700	1.5	43	**2KJ4105 - ■ EP22 - ■ ■ S1**	
	53	265	26.66	6 700	1.7	43	**2KJ4105 - ■ EP22 - ■ ■ R1**	
	58	245	24.34	6 800	1.8	43	**2KJ4105 - ■ EP22 - ■ ■ Q1**	
	70	200	20.2	6 700	2.2	43	**2KJ4105 - ■ EP22 - ■ ■ P1**	
	75	192	19.01	6 600	2.3	43	**2KJ4105 - ■ EP22 - ■ ■ N1**	
	79	181	17.95	6 500	2.5	43	**2KJ4105 - ■ EP22 - ■ ■ M1**	
	93	154	15.27	6 200	2.9	43	**2KJ4105 - ■ EP22 - ■ ■ L1**	
	108	132	13.09	5 900	3.4	43	**2KJ4105 - ■ EP22 - ■ ■ K1**	
	D.69-LHN90LJ4E							
	19	735	73.22	9 800	0.81	48	**2KJ4206 - ■ EP22 - ■ ■ D1**	
	E.69-LHN90LJ4E							
	153	94	9.3	6 100	1.3	44	**2KJ4003 - ■ EP22 - ■ ■ S1**	
	168	85	8.45	6 100	1.2	44	**2KJ4003 - ■ EP22 - ■ ■ R1**	
	187	76	7.58	6 100	2.7	44	**2KJ4003 - ■ EP22 - ■ ■ Q1**	
	208	69	6.82	6 100	2.5	44	**2KJ4003 - ■ EP22 - ■ ■ P1**	
	230	62	6.17	6 100	3.3	44	**2KJ4003 - ■ EP22 - ■ ■ N1**	
	250	57	5.69	6 100	2.9	44	**2KJ4003 - ■ EP22 - ■ ■ M1**	
	273	53	5.21	6 100	3.8	44	**2KJ4003 - ■ EP22 - ■ ■ L1**	
	324	44	4.38	6 100	4.5	44	**2KJ4003 - ■ EP22 - ■ ■ K1**	
	345	42	4.12	6 100	4.0	44	**2KJ4003 - ■ EP22 - ■ ■ J1**	
	376	38	3.78	6 100	5.2	44	**2KJ4003 - ■ EP22 - ■ ■ H1**	
	Z.69-LHN90LJ4E							
	23	615	60.97	9 900	0.98	48	**2KJ4106 - ■ EP22 - ■ ■ A2**	
	26	555	55.43	9 900	1.1	48	**2KJ4106 - ■ EP22 - ■ ■ X1**	
	30	475	47.14	9 900	1.3	48	**2KJ4106 - ■ EP22 - ■ ■ W1**	
	33	430	42.86	10 000	1.4	48	**2KJ4106 - ■ EP22 - ■ ■ V1**	
	37	385	38.24	10 000	1.6	48	**2KJ4106 - ■ EP22 - ■ ■ U1**	
	41	345	34.29	10 000	1.7	48	**2KJ4106 - ■ EP22 - ■ ■ T1**	
	46	310	30.9	10 000	1.9	48	**2KJ4106 - ■ EP22 - ■ ■ S1**	
	50	285	28.53	10 000	2.1	48	**2KJ4106 - ■ EP22 - ■ ■ R1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**Z.69-LHN90LJ4E**							
	55	260	26.04	10 000	2.3	48	**2KJ4106 - ■ EP22 - ■ ■ Q1**	
	66	215	21.61	10 100	2.8	48	**2KJ4106 - ■ EP22 - ■ ■ P1**	
	70	205	20.34	10 100	2.9	48	**2KJ4106 - ■ EP22 - ■ ■ N1**	
	74	194	19.21	10 100	3.1	48	**2KJ4106 - ■ EP22 - ■ ■ M1**	
	D.79-LHN90LJ4E							
	14	1 040	104.03	12 000	0.8	60	**2KJ4207 - ■ EP22 - ■ ■ F1**	
	16	890	88.52	12 000	0.94	60	**2KJ4207 - ■ EP22 - ■ ■ E1**	
	19	765	75.83	12 100	1.1	60	**2KJ4207 - ■ EP22 - ■ ■ D1**	
	21	670	66.67	12 100	1.2	60	**2KJ4207 - ■ EP22 - ■ ■ C1**	
	Z.79-LHN90LJ4E							
	26	545	54.47	12 200	1.5	59	**2KJ4107 - ■ EP22 - ■ ■ A2**	
	29	500	49.52	12 200	1.7	59	**2KJ4107 - ■ EP22 - ■ ■ X1**	
	32	445	44.42	12 200	1.9	59	**2KJ4107 - ■ EP22 - ■ ■ W1**	
	36	400	39.94	12 200	2.1	59	**2KJ4107 - ■ EP22 - ■ ■ V1**	
	39	360	36.12	12 200	2.3	59	**2KJ4107 - ■ EP22 - ■ ■ U1**	
	43	335	33.34	12 300	2.5	59	**2KJ4107 - ■ EP22 - ■ ■ T1**	
	46	305	30.54	12 300	2.7	59	**2KJ4107 - ■ EP22 - ■ ■ S1**	
	D.89-LHN90LJ4E							
	6.9	2 080	206.62	18 200	0.81	83	**2KJ4208 - ■ EP22 - ■ ■ N1**	
	7.4	1 920	190.73	18 200	0.87	83	**2KJ4208 - ■ EP22 - ■ ■ M1**	
	8.1	1 760	174.71	18 300	0.95	83	**2KJ4208 - ■ EP22 - ■ ■ L1**	
	9.7	1 470	146.59	18 400	1.1	83	**2KJ4208 - ■ EP22 - ■ ■ K1**	
	10	1 390	137.97	18 400	1.2	83	**2KJ4208 - ■ EP22 - ■ ■ J1**	
	11	1 270	126.58	18 500	1.3	83	**2KJ4208 - ■ EP22 - ■ ■ H1**	
	13	1 110	110.57	18 500	1.5	83	**2KJ4208 - ■ EP22 - ■ ■ G1**	
	14	995	98.99	18 500	1.7	83	**2KJ4208 - ■ EP22 - ■ ■ F1**	
	16	870	86.56	18 500	1.9	83	**2KJ4208 - ■ EP22 - ■ ■ E1**	
	19	750	74.3	18 500	2.2	83	**2KJ4208 - ■ EP22 - ■ ■ D1**	
	E.89-LHN90LJ4E							
	147	98	9.67	8 000	2.9	60	**2KJ4004 - ■ EP22 - ■ ■ T1**	
	163	88	8.73	8 000	3.2	60	**2KJ4004 - ■ EP22 - ■ ■ S1**	
	179	80	7.92	8 000	3.5	60	**2KJ4004 - ■ EP22 - ■ ■ R1**	
	194	74	7.31	8 000	3.5	60	**2KJ4004 - ■ EP22 - ■ ■ Q1**	
	214	67	6.64	8 000	3.9	60	**2KJ4004 - ■ EP22 - ■ ■ P1**	
	268	53	5.29	8 000	3.9	60	**2KJ4004 - ■ EP22 - ■ ■ M1**	
	D.109-LHN90LJ4E							
	4.1	3 520	348.88	18 700	0.88	125	**2KJ4210 - ■ EP22 - ■ ■ T1**	
	4.5	3 170	314.98	18 800	0.98	125	**2KJ4210 - ■ EP22 - ■ ■ S1**	
	5	2 880	285.72	18 900	1.1	125	**2KJ4210 - ■ EP22 - ■ ■ R1**	
	5.4	2 660	263.74	18 900	1.2	125	**2KJ4210 - ■ EP22 - ■ ■ Q1**	
	5.9	2 410	239.75	19 000	1.3	125	**2KJ4210 - ■ EP22 - ■ ■ P1**	
	7	2 040	203.01	19 100	1.5	125	**2KJ4210 - ■ EP22 - ■ ■ N1**	
	7.4	1 920	191.07	19 100	1.6	125	**2KJ4210 - ■ EP22 - ■ ■ M1**	
	8	1 780	176.45	19 200	1.7	125	**2KJ4210 - ■ EP22 - ■ ■ L1**	
	9	1 580	157	19 200	2.0	125	**2KJ4210 - ■ EP22 - ■ ■ K1**	
	10	1 400	139.44	19 300	2.2	125	**2KJ4210 - ■ EP22 - ■ ■ J1**	
	D.129-LHN90LJ4E							
	3.8	3 760	373	24 900	1.3	188	**2KJ4211 - ■ EP22 - ■ ■ S1**	
	4.1	3 470	344.17	25 000	1.4	188	**2KJ4211 - ■ EP22 - ■ ■ R1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**D.129-LHN90LJ4E**							
	4.5	3 190	316.9	25 100	1.6	188	**2KJ4211 - ■ EP22 - ■ ■ Q1**	
	5.3	2 720	270.24	25 100	1.8	188	**2KJ4211 - ■ EP22 - ■ ■ P1**	
	5.6	2 560	254.34	25 200	1.9	188	**2KJ4211 - ■ EP22 - ■ ■ N1**	
	6	2 380	236.03	25 200	2.1	188	**2KJ4211 - ■ EP22 - ■ ■ M1**	
	D.129-LHN100LD6E							
	2.5	5 620	373	24 900	0.89	198	**2KJ4211 - ■ FL22 - ■ ■ S1**	**P01**
	2.8	5 190	344.17	25 000	0.96	198	**2KJ4211 - ■ FL22 - ■ ■ R1**	**P01**
	3	4 770	316.9	25 100	1.0	198	**2KJ4211 - ■ FL22 - ■ ■ Q1**	**P01**
	3.5	4 070	270.24	25 100	1.2	198	**2KJ4211 - ■ FL22 - ■ ■ P1**	**P01**
	D.149-LHN100LD6E							
	2.9	4 950	328.38	46 600	1.6	282	**2KJ4212 - ■ FL22 - ■ ■ W1**	**P01**
	3.4	4 230	281.04	46 700	1.9	282	**2KJ4212 - ■ FL22 - ■ ■ V1**	**P01**
	3.6	3 980	264.51	46 700	2.0	282	**2KJ4212 - ■ FL22 - ■ ■ U1**	**P01**
	D.109-Z39-LHN90LJ4E							
	3.9	3 450	366	20 200	0.9	132	**2KJ4235 - ■ EP22 - ■ ■ A1**	
	D.129-Z49-LHN90LJ4E							
	2.4	5 670	601	26 600	0.88	215	**2KJ4237 - ■ EP22 - ■ ■ D1**	
	2.7	4 990	529	27 000	1.0	215	**2KJ4237 - ■ EP22 - ■ ■ C1**	
	3.2	4 200	446	27 500	1.2	215	**2KJ4237 - ■ EP22 - ■ ■ B1**	
	3.7	3 670	389	27 800	1.4	215	**2KJ4237 - ■ EP22 - ■ ■ A1**	
	D.149-Z49-LHN90LJ4E							
	1.5	9 230	979	50 600	0.87	291	**2KJ4240 - ■ EP22 - ■ ■ J1**	
	1.7	7 940	842	51 200	1.0	291	**2KJ4240 - ■ EP22 - ■ ■ G1**	
	1.7	8 040	853	51 100	0.99	291	**2KJ4240 - ■ EP22 - ■ ■ H1**	
	1.8	7 500	795	51 400	1.1	291	**2KJ4240 - ■ EP22 - ■ ■ F1**	
	2.1	6 380	677	51 900	1.3	291	**2KJ4240 - ■ EP22 - ■ ■ E1**	
	2.4	5 470	580	52 400	1.5	291	**2KJ4240 - ■ EP22 - ■ ■ D1**	
	2.8	4 810	510	52 700	1.7	291	**2KJ4240 - ■ EP22 - ■ ■ C1**	
	3.3	4 050	430	53 100	2.0	291	**2KJ4240 - ■ EP22 - ■ ■ B1**	
	D.169-Z69-LHN90LJ4E							
	0.77	17 400	1 849	68 900	0.8	480	**2KJ4242 - ■ EP22 - ■ ■ N1**	
	0.81	16 400	1 747	69 200	0.85	480	**2KJ4242 - ■ EP22 - ■ ■ M1**	
	0.96	14 000	1 486	70 100	1.0	480	**2KJ4242 - ■ EP22 - ■ ■ L1**	
	1.1	12 000	1 273	70 900	1.2	480	**2KJ4242 - ■ EP22 - ■ ■ K1**	
	1.3	10 500	1 119	71 400	1.3	480	**2KJ4242 - ■ EP22 - ■ ■ J1**	
	1.5	8 900	944	72 000	1.6	480	**2KJ4242 - ■ EP22 - ■ ■ H1**	
	1.7	7 760	823	72 500	1.8	480	**2KJ4242 - ■ EP22 - ■ ■ G1**	
	1.8	7 290	773	72 600	1.9	480	**2KJ4242 - ■ EP22 - ■ ■ F1**	
	D.189-Z69-LHN90LJ4E							
	0.57	23 300	2 480	107 000	0.81	694	**2KJ4244 - ■ EP22 - ■ ■ Q1**	
	0.69	19 400	2 058	107 000	0.98	694	**2KJ4244 - ■ EP22 - ■ ■ P1**	
	0.73	18 200	1 937	107 000	1.0	694	**2KJ4244 - ■ EP22 - ■ ■ N1**	
	0.78	17 200	1 829	107 000	1.1	694	**2KJ4244 - ■ EP22 - ■ ■ M1**	
	0.91	14 600	1 556	107 000	1.3	694	**2KJ4244 - ■ EP22 - ■ ■ L1**	
	1.1	12 500	1 333	107 000	1.5	694	**2KJ4244 - ■ EP22 - ■ ■ K1**	
	1.2	11 000	1 172	107 000	1.7	694	**2KJ4244 - ■ EP22 - ■ ■ J1**	
	1.4	9 330	989	107 000	2.0	694	**2KJ4244 - ■ EP22 - ■ ■ H1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**Z.29-LHN90LG2E**							
	161	130	17.67	2 500	1.1	31	**2KJ4102 - ■ EN22 - ■ ■ R1**	**P00**
	181	116	15.75	2 500	1.2	31	**2KJ4102 - ■ EN22 - ■ ■ Q1**	**P00**
	196	107	14.54	2 400	1.1	31	**2KJ4102 - ■ EN22 - ■ ■ P1**	**P00**
	224	94	12.73	2 300	1.5	31	**2KJ4102 - ■ EN22 - ■ ■ N1**	**P00**
	255	82	11.16	2 300	1.7	31	**2KJ4102 - ■ EN22 - ■ ■ M1**	**P00**
	282	75	10.12	2 200	1.9	31	**2KJ4102 - ■ EN22 - ■ ■ L1**	**P00**
	299	70	9.53	2 200	2.0	31	**2KJ4102 - ■ EN22 - ■ ■ K1**	**P00**
	339	62	8.4	2 100	2.2	31	**2KJ4102 - ■ EN22 - ■ ■ J1**	**P00**
	391	54	7.29	2 000	2.4	31	**2KJ4102 - ■ EN22 - ■ ■ H1**	**P00**
	412	51	6.92	1 900	1.5	31	**2KJ4102 - ■ EN22 - ■ ■ G1**	**P00**
	470	45	6.06	1 900	2.2	31	**2KJ4102 - ■ EN22 - ■ ■ F1**	**P00**
	537	39	5.31	1 800	2.3	31	**2KJ4102 - ■ EN22 - ■ ■ E1**	**P00**
	591	36	4.82	1 800	2.4	31	**2KJ4102 - ■ EN22 - ■ ■ D1**	**P00**
	628	34	4.54	1 700	2.5	31	**2KJ4102 - ■ EN22 - ■ ■ C1**	**P00**
	712	30	4	1 700	2.6	31	**2KJ4102 - ■ EN22 - ■ ■ B1**	**P00**
	821	26	3.47	1 600	2.7	31	**2KJ4102 - ■ EN22 - ■ ■ A1**	**P00**
	Z.39-LHN90LG2E							
	160	131	17.77	3 600	1.5	32	**2KJ4103 - ■ EN22 - ■ ■ N1**	**P00**
	193	109	14.79	3 600	1.8	32	**2KJ4103 - ■ EN22 - ■ ■ M1**	**P00**
	205	103	13.92	3 600	1.8	32	**2KJ4103 - ■ EN22 - ■ ■ L1**	**P00**
	229	92	12.47	3 500	2.0	32	**2KJ4103 - ■ EN22 - ■ ■ K1**	**P00**
	268	78	10.62	3 300	2.2	32	**2KJ4103 - ■ EN22 - ■ ■ J1**	**P00**
	313	67	9.1	3 200	2.4	32	**2KJ4103 - ■ EN22 - ■ ■ H1**	**P00**
	364	58	7.84	3 000	2.6	32	**2KJ4103 - ■ EN22 - ■ ■ G1**	**P00**
	441	48	6.46	2 900	3.1	32	**2KJ4103 - ■ EN22 - ■ ■ F1**	**P00**
	469	45	6.08	2 800	3.3	32	**2KJ4103 - ■ EN22 - ■ ■ E1**	**P00**
	523	40	5.45	2 700	3.5	32	**2KJ4103 - ■ EN22 - ■ ■ D1**	**P00**
	614	34	4.64	2 600	3.8	32	**2KJ4103 - ■ EN22 - ■ ■ C1**	**P00**
	716	29	3.98	2 500	4.1	32	**2KJ4103 - ■ EN22 - ■ ■ B1**	**P00**
	831	25	3.43	2 300	4.4	32	**2KJ4103 - ■ EN22 - ■ ■ A1**	**P00**
	Z.49-LHN90LG2E							
	154	136	18.48	4 200	2.3	41	**2KJ4104 - ■ EN22 - ■ ■ Q1**	**P00**
	164	128	17.39	4 100	2.5	41	**2KJ4104 - ■ EN22 - ■ ■ P1**	**P00**
	174	121	16.42	4 000	2.6	41	**2KJ4104 - ■ EN22 - ■ ■ N1**	**P00**
	204	103	13.98	3 800	3.1	41	**2KJ4104 - ■ EN22 - ■ ■ M1**	**P00**
	238	88	11.97	3 700	3.6	41	**2KJ4104 - ■ EN22 - ■ ■ L1**	**P00**
	271	78	10.53	3 500	4.1	41	**2KJ4104 - ■ EN22 - ■ ■ K1**	**P00**
	321	66	8.88	3 300	4.9	41	**2KJ4104 - ■ EN22 - ■ ■ J1**	**P00**
	373	56	7.64	3 200	5.2	41	**2KJ4104 - ■ EN22 - ■ ■ G1**	**P00**
	Z.59-LHN90LG2E							
	150	140	19.01	5 200	3.2	43	**2KJ4105 - ■ EN22 - ■ ■ N1**	**P00**
	159	132	17.95	5 100	3.4	43	**2KJ4105 - ■ EN22 - ■ ■ M1**	**P00**
	187	113	15.27	4 800	4.0	43	**2KJ4105 - ■ EN22 - ■ ■ L1**	**P00**
	Z.29-LHN100LD4E							
	129	163	11.16	2 900	0.86	38	**2KJ4102 - ■ FL22 - ■ ■ M1**	
	142	148	10.12	2 800	0.94	38	**2KJ4102 - ■ FL22 - ■ ■ L1**	
	151	140	9.53	2 800	1.0	38	**2KJ4102 - ■ FL22 - ■ ■ K1**	
	171	123	8.4	2 700	1.1	38	**2KJ4102 - ■ FL22 - ■ ■ J1**	
	197	107	7.29	2 600	1.2	38	**2KJ4102 - ■ FL22 - ■ ■ H1**	

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**Z.29-LHN100LD4E**							
	237	89	6.06	2 400	1.1	38	**2KJ4102 - ■ FL22 - ■ ■ F1**	
	270	78	5.31	2 300	1.2	38	**2KJ4102 - ■ FL22 - ■ ■ E1**	
	298	71	4.82	2 300	1.2	38	**2KJ4102 - ■ FL22 - ■ ■ D1**	
	316	66	4.54	2 200	1.3	38	**2KJ4102 - ■ FL22 - ■ ■ C1**	
	359	59	4	2 100	1.3	38	**2KJ4102 - ■ FL22 - ■ ■ B1**	
	414	51	3.47	2 000	1.4	38	**2KJ4102 - ■ FL22 - ■ ■ A1**	
	E.39-LHN100LD4E							
	351	60	4.09	3 000	0.8	41	**2KJ4001 - ■ FL22 - ■ ■ K1**	
	401	52	3.58	3 000	1.1	41	**2KJ4001 - ■ FL22 - ■ ■ J1**	
	434	48	3.31	3 000	1.2	41	**2KJ4001 - ■ FL22 - ■ ■ H1**	
	490	43	2.93	3 000	1.5	41	**2KJ4001 - ■ FL22 - ■ ■ G1**	
	588	36	2.44	3 000	1.8	41	**2KJ4001 - ■ FL22 - ■ ■ F1**	
	627	34	2.29	2 900	2.0	41	**2KJ4001 - ■ FL22 - ■ ■ E1**	
	697	30	2.06	2 800	2.2	41	**2KJ4001 - ■ FL22 - ■ ■ D1**	
	820	26	1.75	2 700	2.6	41	**2KJ4001 - ■ FL22 - ■ ■ C1**	
	957	22	1.5	2 500	2.8	41	**2KJ4001 - ■ FL22 - ■ ■ B1**	
	1 112	19	1.29	2 400	2.9	41	**2KJ4001 - ■ FL22 - ■ ■ A1**	
	Z.39-LHN100LD4E							
	97	215	14.79	4 700	0.89	40	**2KJ4103 - ■ FL22 - ■ ■ M1**	
	103	200	13.92	4 600	0.93	40	**2KJ4103 - ■ FL22 - ■ ■ L1**	
	115	183	12.47	4 500	0.99	40	**2KJ4103 - ■ FL22 - ■ ■ K1**	
	135	155	10.62	4 200	1.1	40	**2KJ4103 - ■ FL22 - ■ ■ J1**	
	158	133	9.1	4 000	1.2	40	**2KJ4103 - ■ FL22 - ■ ■ H1**	
	183	115	7.84	3 900	1.3	40	**2KJ4103 - ■ FL22 - ■ ■ G1**	
	222	95	6.46	3 600	1.5	40	**2KJ4103 - ■ FL22 - ■ ■ F1**	
	E.49-LHN100LD4E							
	236	89	6.08	3 600	1.7	40	**2KJ4103 - ■ FL22 - ■ ■ E1**	
	263	80	5.45	3 400	1.8	40	**2KJ4103 - ■ FL22 - ■ ■ D1**	
	309	68	4.64	3 300	1.9	40	**2KJ4103 - ■ FL22 - ■ ■ C1**	
	361	58	3.98	3 100	2.1	40	**2KJ4103 - ■ FL22 - ■ ■ B1**	
	418	50	3.43	3 000	2.2	40	**2KJ4103 - ■ FL22 - ■ ■ A1**	
	236	89	6.08	4 000	1.2	48	**2KJ4002 - ■ FL22 - ■ ■ N1**	
	263	80	5.45	4 000	1.3	48	**2KJ4002 - ■ FL22 - ■ ■ M1**	
	292	72	4.92	4 000	1.4	48	**2KJ4002 - ■ FL22 - ■ ■ L1**	
	316	66	4.54	4 000	1.5	48	**2KJ4002 - ■ FL22 - ■ ■ K1**	
	347	61	4.14	4 000	1.7	48	**2KJ4002 - ■ FL22 - ■ ■ J1**	
	417	50	3.44	4 000	2.0	48	**2KJ4002 - ■ FL22 - ■ ■ H1**	
	443	47	3.24	4 000	2.1	48	**2KJ4002 - ■ FL22 - ■ ■ G1**	
	469	45	3.06	4 000	2.3	48	**2KJ4002 - ■ FL22 - ■ ■ F1**	
	552	38	2.6	3 900	2.7	48	**2KJ4002 - ■ FL22 - ■ ■ E1**	
	643	33	2.23	3 700	3.1	48	**2KJ4002 - ■ FL22 - ■ ■ D1**	
	732	29	1.96	3 600	3.6	48	**2KJ4002 - ■ FL22 - ■ ■ C1**	
	870	24	1.65	3 400	4.3	48	**2KJ4002 - ■ FL22 - ■ ■ B1**	
	997	21	1.44	3 200	4.8	48	**2KJ4002 - ■ FL22 - ■ ■ A1**	
	Z.49-LHN100LD4E							
	54	385	26.43	5 300	0.83	52	**2KJ4104 - ■ FL22 - ■ ■ T1**	
	59	355	24.39	5 300	0.9	52	**2KJ4104 - ■ FL22 - ■ ■ S1**	
	64	325	22.27	5 400	0.98	52	**2KJ4104 - ■ FL22 - ■ ■ R1**	
	78	270	18.48	5 300	1.2	52	**2KJ4104 - ■ FL22 - ■ ■ Q1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**Z.49-LHN100LD4E**							
	83	255	17.39	5 200	1.3	52	**2KJ4104 - ■ FL22 - ■ ■ P1**	
	87	240	16.42	5 100	1.3	52	**2KJ4104 - ■ FL22 - ■ ■ N1**	
	103	205	13.98	4 900	1.6	52	**2KJ4104 - ■ FL22 - ■ ■ M1**	
	120	175	11.97	4 700	1.8	52	**2KJ4104 - ■ FL22 - ■ ■ L1**	
	136	154	10.53	4 500	2.1	52	**2KJ4104 - ■ FL22 - ■ ■ K1**	
	162	130	8.88	4 200	2.5	52	**2KJ4104 - ■ FL22 - ■ ■ J1**	
	185	113	7.74	4 100	2.8	52	**2KJ4104 - ■ FL22 - ■ ■ H1**	
	188	112	7.64	4 000	2.6	52	**2KJ4104 - ■ FL22 - ■ ■ G1**	
	199	106	7.21	4 000	2.7	52	**2KJ4104 - ■ FL22 - ■ ■ F1**	
	234	90	6.14	3 800	2.9	52	**2KJ4104 - ■ FL22 - ■ ■ E1**	
	273	77	5.26	3 600	3.2	52	**2KJ4104 - ■ FL22 - ■ ■ D1**	
	311	68	4.62	3 400	3.3	52	**2KJ4104 - ■ FL22 - ■ ■ C1**	
	368	57	3.9	3 200	3.6	52	**2KJ4104 - ■ FL22 - ■ ■ B1**	
	422	50	3.4	3 100	3.8	52	**2KJ4104 - ■ FL22 - ■ ■ A1**	
	Z.59-LHN100LD4E							
	40	520	35.74	6 600	0.86	54	**2KJ4105 - ■ FL22 - ■ ■ U1**	
	45	465	32.05	6 700	0.96	54	**2KJ4105 - ■ FL22 - ■ ■ T1**	
	50	420	28.89	6 700	1.1	54	**2KJ4105 - ■ FL22 - ■ ■ S1**	
	54	390	26.66	6 700	1.2	54	**2KJ4105 - ■ FL22 - ■ ■ R1**	
	59	355	24.34	6 800	1.3	54	**2KJ4105 - ■ FL22 - ■ ■ Q1**	
	71	295	20.2	6 700	1.5	54	**2KJ4105 - ■ FL22 - ■ ■ P1**	
	75	275	19.01	6 600	1.6	54	**2KJ4105 - ■ FL22 - ■ ■ N1**	
	80	260	17.95	6 500	1.7	54	**2KJ4105 - ■ FL22 - ■ ■ M1**	
	94	220	15.27	6 100	2.0	54	**2KJ4105 - ■ FL22 - ■ ■ L1**	
	110	192	13.09	5 800	2.3	54	**2KJ4105 - ■ FL22 - ■ ■ K1**	
	125	169	11.51	5 600	2.7	54	**2KJ4105 - ■ FL22 - ■ ■ J1**	
	148	142	9.71	5 300	3.2	54	**2KJ4105 - ■ FL22 - ■ ■ H1**	
	170	124	8.46	5 100	3.6	54	**2KJ4105 - ■ FL22 - ■ ■ G1**	
	178	118	8.07	5 000	3.5	54	**2KJ4105 - ■ FL22 - ■ ■ F1**	
	209	100	6.86	4 800	4.1	54	**2KJ4105 - ■ FL22 - ■ ■ E1**	
	D.69-LHN100LD4E							
	31	670	46.01	9 900	0.89	59	**2KJ4206 - ■ FL22 - ■ ■ A1**	
	E.69-LHN100LD4E							
	189	111	7.58	6 100	1.8	55	**2KJ4003 - ■ FL22 - ■ ■ Q1**	
	210	100	6.82	6 100	1.7	55	**2KJ4003 - ■ FL22 - ■ ■ P1**	
	233	90	6.17	6 100	2.3	55	**2KJ4003 - ■ FL22 - ■ ■ N1**	
	252	83	5.69	6 100	2.0	55	**2KJ4003 - ■ FL22 - ■ ■ M1**	
	275	76	5.21	6 100	2.6	55	**2KJ4003 - ■ FL22 - ■ ■ L1**	
	328	64	4.38	6 100	3.1	55	**2KJ4003 - ■ FL22 - ■ ■ K1**	
	348	60	4.12	6 100	2.7	55	**2KJ4003 - ■ FL22 - ■ ■ J1**	
	380	55	3.78	6 100	3.6	55	**2KJ4003 - ■ FL22 - ■ ■ H1**	
	435	48	3.3	6 100	4.1	55	**2KJ4003 - ■ FL22 - ■ ■ G1**	
	486	43	2.95	6 100	4.6	55	**2KJ4003 - ■ FL22 - ■ ■ F1**	
	556	38	2.58	6 100	5.2	55	**2KJ4003 - ■ FL22 - ■ ■ E1**	
	646	32	2.22	6 100	6.0	55	**2KJ4003 - ■ FL22 - ■ ■ D1**	
	Z.69-LHN100LD4E							
	38	560	38.24	10 000	1.1	59	**2KJ4106 - ■ FL22 - ■ ■ U1**	
	42	500	34.29	10 000	1.2	59	**2KJ4106 - ■ FL22 - ■ ■ T1**	
	46	450	30.9	10 000	1.3	59	**2KJ4106 - ■ FL22 - ■ ■ S1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**Z.69-LHN100LD4E**							
	50	415	28.53	10 000	1.4	59	**2KJ4106 - ■ FL22 - ■ ■ R1**	
	55	380	26.04	10 000	1.6	59	**2KJ4106 - ■ FL22 - ■ ■ Q1**	
	66	315	21.61	10 100	1.9	59	**2KJ4106 - ■ FL22 - ■ ■ P1**	
	71	295	20.34	10 100	2.0	59	**2KJ4106 - ■ FL22 - ■ ■ N1**	
	75	280	19.21	10 100	2.1	59	**2KJ4106 - ■ FL22 - ■ ■ M1**	
	88	235	16.34	10 100	2.5	59	**2KJ4106 - ■ FL22 - ■ ■ L1**	
	102	205	14	10 100	2.9	59	**2KJ4106 - ■ FL22 - ■ ■ K1**	
	117	180	12.31	10 100	3.3	59	**2KJ4106 - ■ FL22 - ■ ■ J1**	
	138	152	10.39	10 000	3.9	59	**2KJ4106 - ■ FL22 - ■ ■ H1**	
	169	124	8.5	9 400	3.6	59	**2KJ4106 - ■ FL22 - ■ ■ F1**	
	198	106	7.23	8 900	4.2	59	**2KJ4106 - ■ FL22 - ■ ■ E1**	
	D.79-LHN100LD4E							
	22	975	66.67	12 100	0.86	69	**2KJ4207 - ■ FL22 - ■ ■ C1**	
	26	820	56.25	12 200	1.0	69	**2KJ4207 - ■ FL22 - ■ ■ B1**	
	29	715	49.02	12 200	1.2	69	**2KJ4207 - ■ FL22 - ■ ■ A1**	
	Z.79-LHN100LD4E							
	32	650	44.42	12 200	1.3	68	**2KJ4107 - ■ FL22 - ■ ■ W1**	
	36	585	39.94	12 200	1.4	68	**2KJ4107 - ■ FL22 - ■ ■ V1**	
	40	525	36.12	12 200	1.6	68	**2KJ4107 - ■ FL22 - ■ ■ U1**	
	43	485	33.34	12 300	1.7	68	**2KJ4107 - ■ FL22 - ■ ■ T1**	
	47	445	30.54	12 300	1.9	68	**2KJ4107 - ■ FL22 - ■ ■ S1**	
	56	375	25.62	12 300	2.2	68	**2KJ4107 - ■ FL22 - ■ ■ R1**	
	59	350	24.12	12 300	2.4	68	**2KJ4107 - ■ FL22 - ■ ■ Q1**	
	65	320	22.13	12 300	2.6	68	**2KJ4107 - ■ FL22 - ■ ■ P1**	
	74	280	19.33	12 300	3.0	68	**2KJ4107 - ■ FL22 - ■ ■ N1**	
	83	250	17.31	12 300	3.3	68	**2KJ4107 - ■ FL22 - ■ ■ M1**	
	D.89-LHN100LD4E							
	10	2 020	137.97	18 400	0.83	92	**2KJ4208 - ■ FL22 - ■ ■ J1**	
	11	1 850	126.58	18 500	0.91	92	**2KJ4208 - ■ FL22 - ■ ■ H1**	
	13	1 610	110.57	18 500	1.0	92	**2KJ4208 - ■ FL22 - ■ ■ G1**	
	14	1 440	98.99	18 500	1.2	92	**2KJ4208 - ■ FL22 - ■ ■ F1**	
	17	1 260	86.56	18 500	1.3	92	**2KJ4208 - ■ FL22 - ■ ■ E1**	
	19	1 080	74.3	18 500	1.5	92	**2KJ4208 - ■ FL22 - ■ ■ D1**	
	22	960	65.67	18 500	1.7	92	**2KJ4208 - ■ FL22 - ■ ■ C1**	
	E.89-LHN100LD4E							
	148	142	9.67	8 000	2.0	69	**2KJ4004 - ■ FL22 - ■ ■ T1**	
	164	128	8.73	8 000	2.2	69	**2KJ4004 - ■ FL22 - ■ ■ S1**	
	181	116	7.92	8 000	2.4	69	**2KJ4004 - ■ FL22 - ■ ■ R1**	
	196	107	7.31	8 000	2.4	69	**2KJ4004 - ■ FL22 - ■ ■ Q1**	
	216	97	6.64	8 000	2.7	69	**2KJ4004 - ■ FL22 - ■ ■ P1**	
	255	82	5.62	8 000	3.9	69	**2KJ4004 - ■ FL22 - ■ ■ N1**	
	271	78	5.29	8 000	2.7	69	**2KJ4004 - ■ FL22 - ■ ■ M1**	
	293	72	4.89	8 000	5.0	69	**2KJ4004 - ■ FL22 - ■ ■ L1**	
	Z.89-LHN100LD4E							
	25	840	57.36	18 500	2.0	91	**2KJ4108 - ■ FL22 - ■ ■ A2**	
	28	755	51.78	18 500	2.2	91	**2KJ4108 - ■ FL22 - ■ ■ X1**	
	31	685	46.97	18 500	2.4	91	**2KJ4108 - ■ FL22 - ■ ■ W1**	
	33	635	43.36	18 500	2.6	91	**2KJ4108 - ■ FL22 - ■ ■ V1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**D.129-LHN112MC6**							
	3.5	6 070	270.24	26 400	0.82	215	**2KJ4211 - ■ GH21 - ■ ■ P1**	**P01**
	D.149-LHN112MC6							
	2.8	7 370	328.38	51 500	1.1	301	**2KJ4212 - ■ GH21 - ■ ■ W1**	**P01**
	3.3	6 310	281.04	52 000	1.3	301	**2KJ4212 - ■ GH21 - ■ ■ V1**	**P01**
	3.5	5 940	264.51	52 100	1.3	301	**2KJ4212 - ■ GH21 - ■ ■ U1**	**P01**
	3.8	5 570	247.95	52 300	1.4	301	**2KJ4212 - ■ GH21 - ■ ■ T1**	**P01**
	D.169-LHN112MC6							
	2.9	7 350	327.18	72 600	1.9	479	**2KJ4213 - ■ GH21 - ■ ■ V1**	**P01**
	3.1	6 860	305.28	72 800	2.0	479	**2KJ4213 - ■ GH21 - ■ ■ U1**	**P01**
	D.109-LHN100LD4E							
	5.4	3 860	263.74	18 900	0.8	134	**2KJ4210 - ■ FL22 - ■ ■ Q1**	
	6	3 510	239.75	19 000	0.88	134	**2KJ4210 - ■ FL22 - ■ ■ P1**	
	7.1	2 970	203.01	19 100	1.0	134	**2KJ4210 - ■ FL22 - ■ ■ N1**	
	7.5	2 790	191.07	19 100	1.1	134	**2KJ4210 - ■ FL22 - ■ ■ M1**	
	8.1	2 580	176.45	19 200	1.2	134	**2KJ4210 - ■ FL22 - ■ ■ L1**	
	9.1	2 290	157	19 200	1.3	134	**2KJ4210 - ■ FL22 - ■ ■ K1**	
	10	2 040	139.44	19 300	1.5	134	**2KJ4210 - ■ FL22 - ■ ■ J1**	
	11	1 820	124.82	19 300	1.7	134	**2KJ4210 - ■ FL22 - ■ ■ H1**	
	13	1 560	106.7	19 300	2.0	134	**2KJ4210 - ■ FL22 - ■ ■ G1**	
	15	1 390	95.28	19 400	2.2	134	**2KJ4210 - ■ FL22 - ■ ■ F1**	
	D.129-LHN100LD4E							
	3.8	5 460	373	24 900	0.92	198	**2KJ4211 - ■ FL22 - ■ ■ S1**	
	4.2	5 030	344.17	25 000	0.99	198	**2KJ4211 - ■ FL22 - ■ ■ R1**	
	4.5	4 640	316.9	25 100	1.1	198	**2KJ4211 - ■ FL22 - ■ ■ Q1**	
	5.3	3 950	270.24	25 100	1.3	198	**2KJ4211 - ■ FL22 - ■ ■ P1**	
	5.6	3 720	254.34	25 200	1.3	198	**2KJ4211 - ■ FL22 - ■ ■ N1**	
	6.1	3 450	236.03	25 200	1.4	198	**2KJ4211 - ■ FL22 - ■ ■ M1**	
	6.9	3 050	208.67	25 300	1.6	198	**2KJ4211 - ■ FL22 - ■ ■ L1**	
	7.7	2 720	186.28	25 300	1.8	198	**2KJ4211 - ■ FL22 - ■ ■ K1**	
	8.6	2 450	167.63	25 300	2.0	198	**2KJ4211 - ■ FL22 - ■ ■ J1**	
	D.149-LHN100LD4E							
	4.4	4 800	328.38	46 600	1.7	282	**2KJ4212 - ■ FL22 - ■ ■ W1**	
	5.1	4 110	281.04	46 700	1.9	282	**2KJ4212 - ■ FL22 - ■ ■ V1**	
	5.4	3 870	264.51	46 700	2.1	282	**2KJ4212 - ■ FL22 - ■ ■ U1**	
	D.189-Z69-LHN100LD4							
	0.92	21 500	1 556	107 000	0.88	693	**2KJ4244 - ■ FK21 - ■ ■ L1**	
	1.1	18 400	1 333	107 000	1.0	693	**2KJ4244 - ■ FK21 - ■ ■ K1**	
	1.2	16 200	1 172	107 000	1.2	693	**2KJ4244 - ■ FK21 - ■ ■ J1**	
	1.4	13 700	989	107 000	1.4	693	**2KJ4244 - ■ FK21 - ■ ■ H1**	
	1.7	11 900	862	107 000	1.6	693	**2KJ4244 - ■ FK21 - ■ ■ G1**	
	1.8	11 200	810	107 000	1.7	693	**2KJ4244 - ■ FK21 - ■ ■ F1**	
	2.1	9 550	689	107 000	2.0	693	**2KJ4244 - ■ FK21 - ■ ■ E1**	
	D.129-Z49-LHN100LD4E							
	3.2	6 130	446	26 400	0.81	226	**2KJ4237 - ■ FL22 - ■ ■ B1**	
	3.7	5 350	389	26 800	0.93	226	**2KJ4237 - ■ FL22 - ■ ■ A1**	
	D.149-Z49-LHN100LD4E							
	2.1	9 310	677	50 500	0.86	302	**2KJ4240 - ■ FL22 - ■ ■ E1**	
	2.5	7 980	580	51 200	1.0	302	**2KJ4240 - ■ FL22 - ■ ■ D1**	
	2.8	7 020	510	51 600	1.1	302	**2KJ4240 - ■ FL22 - ■ ■ C1**	

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**D.149-Z49-LHN100LD4E**							
	3.3	5 910	430	52 200	1.4	302	**2KJ4240 - ■ FL22 - ■ ■ B1**	
	3.8	5 160	375	52 500	1.5	302	**2KJ4240 - ■ FL22 - ■ ■ A1**	
	D.169-Z69-LHN100LD4E							
	1.1	17 500	1 273	68 800	0.8	491	**2KJ4242 - ■ FL22 - ■ ■ K1**	
	1.3	15 400	1 119	69 600	0.91	491	**2KJ4242 - ■ FL22 - ■ ■ J1**	
	1.5	12 900	944	70 500	1.1	491	**2KJ4242 - ■ FL22 - ■ ■ H1**	
	1.7	11 300	823	71 100	1.2	491	**2KJ4242 - ■ FL22 - ■ ■ G1**	
	1.9	10 600	773	71 400	1.3	491	**2KJ4242 - ■ FL22 - ■ ■ F1**	
	2.2	9 050	658	72 000	1.5	491	**2KJ4242 - ■ FL22 - ■ ■ E1**	
	2.5	7 760	564	72 500	1.8	491	**2KJ4242 - ■ FL22 - ■ ■ D1**	
	D.189-Z69-LHN100LD4E							
	0.92	21 400	1 556	107 000	0.89	704	**2KJ4244 - ■ FL22 - ■ ■ L1**	
	1.1	18 300	1 333	107 000	1.0	704	**2KJ4244 - ■ FL22 - ■ ■ K1**	
	1.2	16 100	1 172	107 000	1.2	704	**2KJ4244 - ■ FL22 - ■ ■ J1**	
	1.5	13 600	989	107 000	1.4	704	**2KJ4244 - ■ FL22 - ■ ■ H1**	
	1.7	11 800	862	107 000	1.6	704	**2KJ4244 - ■ FL22 - ■ ■ G1**	
	1.8	11 100	810	107 000	1.7	704	**2KJ4244 - ■ FL22 - ■ ■ F1**	
	2.1	9 480	689	107 000	2.0	704	**2KJ4244 - ■ FL22 - ■ ■ E1**	
3	**Z.29-LHN100LJ4E**							
	171	168	8.4	2 700	0.82	37	**2KJ4102 - ■ FM22 - ■ ■ J1**	
	197	146	7.29	2 600	0.89	37	**2KJ4102 - ■ FM22 - ■ ■ H1**	
	237	121	6.06	2 400	0.83	37	**2KJ4102 - ■ FM22 - ■ ■ F1**	
	270	106	5.31	2 300	0.86	37	**2KJ4102 - ■ FM22 - ■ ■ E1**	
	298	96	4.82	2 300	0.89	37	**2KJ4102 - ■ FM22 - ■ ■ D1**	
	316	91	4.54	2 200	0.93	37	**2KJ4102 - ■ FM22 - ■ ■ C1**	
	359	80	4	2 100	0.95	37	**2KJ4102 - ■ FM22 - ■ ■ B1**	
	414	69	3.47	2 000	1.0	37	**2KJ4102 - ■ FM22 - ■ ■ A1**	
	E.39-LHN100LJ4E							
	401	72	3.58	3 000	0.81	40	**2KJ4001 - ■ FM22 - ■ ■ J1**	
	434	66	3.31	3 000	0.88	40	**2KJ4001 - ■ FM22 - ■ ■ H1**	
	490	58	2.93	3 000	1.1	40	**2KJ4001 - ■ FM22 - ■ ■ G1**	
	697	41	2.06	2 800	1.6	40	**2KJ4001 - ■ FM22 - ■ ■ D1**	
	820	35	1.75	2 700	1.9	40	**2KJ4001 - ■ FM22 - ■ ■ C1**	
	957	30	1.5	2 500	2.0	40	**2KJ4001 - ■ FM22 - ■ ■ B1**	
	1 112	26	1.29	2 400	2.1	40	**2KJ4001 - ■ FM22 - ■ ■ A1**	
	Z.39-LHN100LJ4E							
	135	210	10.62	4 200	0.8	39	**2KJ4103 - ■ FM22 - ■ ■ J1**	
	158	182	9.1	4 000	0.87	39	**2KJ4103 - ■ FM22 - ■ ■ H1**	
	183	157	7.84	3 900	0.95	39	**2KJ4103 - ■ FM22 - ■ ■ G1**	
	222	129	6.46	3 600	1.1	39	**2KJ4103 - ■ FM22 - ■ ■ F1**	
	236	121	6.08	3 600	1.2	39	**2KJ4103 - ■ FM22 - ■ ■ E1**	
	263	109	5.45	3 400	1.3	39	**2KJ4103 - ■ FM22 - ■ ■ D1**	
	309	93	4.64	3 300	1.4	39	**2KJ4103 - ■ FM22 - ■ ■ C1**	
	361	80	3.98	3 100	1.5	39	**2KJ4103 - ■ FM22 - ■ ■ B1**	
	418	68	3.43	3 000	1.6	39	**2KJ4103 - ■ FM22 - ■ ■ A1**	
	E.49-LHN100LJ4E							
	236	121	6.08	4 000	0.86	47	**2KJ4002 - ■ FM22 - ■ ■ N1**	
	263	109	5.45	4 000	0.95	47	**2KJ4002 - ■ FM22 - ■ ■ M1**	
	292	98	4.92	4 000	1.0	47	**2KJ4002 - ■ FM22 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**E.49-LHN100LJ4E**							
	316	91	4.54	4 000	1.1	47	**2KJ4002 - ■ FM22 - ■ ■ K1**	
	347	83	4.14	4 000	1.2	47	**2KJ4002 - ■ FM22 - ■ ■ J1**	
	417	69	3.44	4 000	1.5	47	**2KJ4002 - ■ FM22 - ■ ■ H1**	
	443	65	3.24	4 000	1.6	47	**2KJ4002 - ■ FM22 - ■ ■ G1**	
	469	61	3.06	4 000	1.7	47	**2KJ4002 - ■ FM22 - ■ ■ F1**	
	552	52	2.6	3 900	2.0	47	**2KJ4002 - ■ FM22 - ■ ■ E1**	
	643	44	2.23	3 700	2.3	47	**2KJ4002 - ■ FM22 - ■ ■ D1**	
	732	39	1.96	3 600	2.6	47	**2KJ4002 - ■ FM22 - ■ ■ C1**	
	870	33	1.65	3 400	3.1	47	**2KJ4002 - ■ FM22 - ■ ■ B1**	
	997	29	1.44	3 200	3.5	47	**2KJ4002 - ■ FM22 - ■ ■ A1**	
	Z.49-LHN100LJ4E							
	78	365	18.48	5 300	0.87	51	**2KJ4104 - ■ FM22 - ■ ■ Q1**	
	83	345	17.39	5 200	0.92	51	**2KJ4104 - ■ FM22 - ■ ■ P1**	
	87	325	16.42	5 100	0.98	51	**2KJ4104 - ■ FM22 - ■ ■ N1**	
	103	275	13.98	4 900	1.1	51	**2KJ4104 - ■ FM22 - ■ ■ M1**	
	120	235	11.97	4 700	1.3	51	**2KJ4104 - ■ FM22 - ■ ■ L1**	
	136	210	10.53	4 500	1.5	51	**2KJ4104 - ■ FM22 - ■ ■ K1**	
	162	177	8.88	4 200	1.8	51	**2KJ4104 - ■ FM22 - ■ ■ J1**	
	185	155	7.74	4 100	2.1	51	**2KJ4104 - ■ FM22 - ■ ■ H1**	
	188	153	7.64	4 000	1.9	51	**2KJ4104 - ■ FM22 - ■ ■ G1**	
	199	144	7.21	4 000	2.0	51	**2KJ4104 - ■ FM22 - ■ ■ F1**	
	234	123	6.14	3 800	2.2	51	**2KJ4104 - ■ FM22 - ■ ■ E1**	
	273	105	5.26	3 600	2.3	51	**2KJ4104 - ■ FM22 - ■ ■ D1**	
	311	92	4.62	3 400	2.4	51	**2KJ4104 - ■ FM22 - ■ ■ C1**	
	368	78	3.9	3 200	2.6	51	**2KJ4104 - ■ FM22 - ■ ■ B1**	
	422	68	3.4	3 100	2.8	51	**2KJ4104 - ■ FM22 - ■ ■ A1**	
	Z.59-LHN100LJ4E							
	54	530	26.66	7 300	0.85	53	**2KJ4105 - ■ FM22 - ■ ■ R1**	
	59	485	24.34	7 100	0.93	53	**2KJ4105 - ■ FM22 - ■ ■ Q1**	
	71	400	20.2	6 700	1.1	53	**2KJ4105 - ■ FM22 - ■ ■ P1**	
	75	380	19.01	6 600	1.2	53	**2KJ4105 - ■ FM22 - ■ ■ N1**	
	80	355	17.95	6 500	1.3	53	**2KJ4105 - ■ FM22 - ■ ■ M1**	
	94	305	15.27	6 100	1.5	53	**2KJ4105 - ■ FM22 - ■ ■ L1**	
	110	260	13.09	5 800	1.7	53	**2KJ4105 - ■ FM22 - ■ ■ K1**	
	125	230	11.51	5 600	2.0	53	**2KJ4105 - ■ FM22 - ■ ■ J1**	
	148	194	9.71	5 300	2.3	53	**2KJ4105 - ■ FM22 - ■ ■ H1**	
	170	169	8.46	5 100	2.7	53	**2KJ4105 - ■ FM22 - ■ ■ G1**	
	178	161	8.07	5 000	2.5	53	**2KJ4105 - ■ FM22 - ■ ■ F1**	
	209	137	6.86	4 800	3.0	53	**2KJ4105 - ■ FM22 - ■ ■ E1**	
	244	117	5.88	4 500	3.5	53	**2KJ4105 - ■ FM22 - ■ ■ D1**	
	278	103	5.17	4 300	4.0	53	**2KJ4105 - ■ FM22 - ■ ■ C1**	
	329	87	4.36	4 100	4.7	53	**2KJ4105 - ■ FM22 - ■ ■ B1**	
	378	76	3.8	3 900	5.3	53	**2KJ4105 - ■ FM22 - ■ ■ A1**	
	E.69-LHN100LJ4E							
	189	151	7.58	6 100	1.4	54	**2KJ4003 - ■ FM22 - ■ ■ Q1**	
	210	136	6.82	6 100	1.2	54	**2KJ4003 - ■ FM22 - ■ ■ P1**	
	233	123	6.17	6 100	1.7	54	**2KJ4003 - ■ FM22 - ■ ■ N1**	
	252	114	5.69	6 100	1.5	54	**2KJ4003 - ■ FM22 - ■ ■ M1**	
	275	104	5.21	6 100	1.9	54	**2KJ4003 - ■ FM22 - ■ ■ L1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
3	**E.69-LHN100LJ4E**							
	328	87	4.38	6 100	2.3	54	**2KJ4003 - ■ FM22 - ■ ■ K1**	
	348	82	4.12	6 100	2.0	54	**2KJ4003 - ■ FM22 - ■ ■ J1**	
	380	76	3.78	6 100	2.7	54	**2KJ4003 - ■ FM22 - ■ ■ H1**	
	435	66	3.3	6 100	3.0	54	**2KJ4003 - ■ FM22 - ■ ■ G1**	
	486	59	2.95	6 100	3.4	54	**2KJ4003 - ■ FM22 - ■ ■ F1**	
	556	52	2.58	6 100	3.8	54	**2KJ4003 - ■ FM22 - ■ ■ E1**	
	646	44	2.22	6 100	4.4	54	**2KJ4003 - ■ FM22 - ■ ■ D1**	
	732	39	1.96	6 100	5.0	54	**2KJ4003 - ■ FM22 - ■ ■ C1**	
	859	33	1.67	6 100	5.9	54	**2KJ4003 - ■ FM22 - ■ ■ B1**	
	Z.69-LHN100LJ4E							
	42	685	34.29	11 700	0.88	58	**2KJ4106 - ■ FM22 - ■ ■ T1**	
	46	615	30.9	11 700	0.97	58	**2KJ4106 - ■ FM22 - ■ ■ S1**	
	50	570	28.53	11 700	1.1	58	**2KJ4106 - ■ FM22 - ■ ■ R1**	
	55	520	26.04	11 700	1.2	58	**2KJ4106 - ■ FM22 - ■ ■ Q1**	
	66	430	21.61	11 800	1.4	58	**2KJ4106 - ■ FM22 - ■ ■ P1**	
	71	405	20.34	11 800	1.5	58	**2KJ4106 - ■ FM22 - ■ ■ N1**	
	75	380	19.21	11 800	1.6	58	**2KJ4106 - ■ FM22 - ■ ■ M1**	
	88	325	16.34	11 600	1.8	58	**2KJ4106 - ■ FM22 - ■ ■ L1**	
	102	280	14	11 100	2.1	58	**2KJ4106 - ■ FM22 - ■ ■ K1**	
	117	245	12.31	10 600	2.4	58	**2KJ4106 - ■ FM22 - ■ ■ J1**	
	138	205	10.39	10 000	2.9	58	**2KJ4106 - ■ FM22 - ■ ■ H1**	
	159	181	9.05	9 600	3.3	58	**2KJ4106 - ■ FM22 - ■ ■ G1**	
	169	170	8.5	9 400	2.6	58	**2KJ4106 - ■ FM22 - ■ ■ F1**	
	198	144	7.23	8 900	3.1	58	**2KJ4106 - ■ FM22 - ■ ■ E1**	
	231	124	6.2	8 500	3.6	58	**2KJ4106 - ■ FM22 - ■ ■ D1**	
	263	109	5.45	8 100	3.9	58	**2KJ4106 - ■ FM22 - ■ ■ C1**	
	312	92	4.6	7 700	4.9	58	**2KJ4106 - ■ FM22 - ■ ■ B1**	
	D.79-LHN100LJ4E							
	29	975	49.02	14 200	0.86	68	**2KJ4207 - ■ FM22 - ■ ■ A1**	
	Z.79-LHN100LJ4E							
	32	885	44.42	14 200	0.95	67	**2KJ4107 - ■ FM22 - ■ ■ W1**	
	36	795	39.94	14 300	1.1	67	**2KJ4107 - ■ FM22 - ■ ■ V1**	
	40	720	36.12	14 300	1.2	67	**2KJ4107 - ■ FM22 - ■ ■ U1**	
	43	665	33.34	14 300	1.3	67	**2KJ4107 - ■ FM22 - ■ ■ T1**	
	47	610	30.54	14 300	1.4	67	**2KJ4107 - ■ FM22 - ■ ■ S1**	
	56	510	25.62	14 300	1.6	67	**2KJ4107 - ■ FM22 - ■ ■ R1**	
	59	480	24.12	14 300	1.7	67	**2KJ4107 - ■ FM22 - ■ ■ Q1**	
	65	440	22.13	14 400	1.9	67	**2KJ4107 - ■ FM22 - ■ ■ P1**	
	74	385	19.33	14 300	2.2	67	**2KJ4107 - ■ FM22 - ■ ■ N1**	
	83	345	17.31	13 800	2.4	67	**2KJ4107 - ■ FM22 - ■ ■ M1**	
	95	300	15.13	13 200	2.8	67	**2KJ4107 - ■ FM22 - ■ ■ L1**	
	110	255	12.99	12 600	3.2	67	**2KJ4107 - ■ FM22 - ■ ■ K1**	
	125	225	11.48	12 100	3.7	67	**2KJ4107 - ■ FM22 - ■ ■ J1**	
	D.89-LHN100LJ4E							
	14	1 970	98.99	18 500	0.85	91	**2KJ4208 - ■ FM22 - ■ ■ F1**	
	17	1 720	86.56	18 500	0.97	91	**2KJ4208 - ■ FM22 - ■ ■ E1**	
	19	1 480	74.3	18 500	1.1	91	**2KJ4208 - ■ FM22 - ■ ■ D1**	
	22	1 310	65.67	18 500	1.3	91	**2KJ4208 - ■ FM22 - ■ ■ C1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**E.89-LHN100LJ4E**							
	148	193	9.67	8 000	1.5	68	**2KJ4004 - ■ FM22 - ■ ■ T1**	
	164	174	8.73	8 000	1.6	68	**2KJ4004 - ■ FM22 - ■ ■ S1**	
	181	158	7.92	8 000	1.8	68	**2KJ4004 - ■ FM22 - ■ ■ R1**	
	196	146	7.31	8 000	1.8	68	**2KJ4004 - ■ FM22 - ■ ■ Q1**	
	216	133	6.64	8 000	2.0	68	**2KJ4004 - ■ FM22 - ■ ■ P1**	
	255	112	5.62	8 000	2.9	68	**2KJ4004 - ■ FM22 - ■ ■ N1**	
	271	106	5.29	8 000	2.0	68	**2KJ4004 - ■ FM22 - ■ ■ M1**	
	293	98	4.89	8 000	3.7	68	**2KJ4004 - ■ FM22 - ■ ■ L1**	
	330	87	4.35	8 000	4.1	68	**2KJ4004 - ■ FM22 - ■ ■ K1**	
	372	77	3.86	8 000	4.7	68	**2KJ4004 - ■ FM22 - ■ ■ J1**	
	415	69	3.46	8 000	5.3	68	**2KJ4004 - ■ FM22 - ■ ■ H1**	
	Z.89-LHN100LJ4E							
	25	1 140	57.36	18 500	1.5	90	**2KJ4108 - ■ FM22 - ■ ■ A2**	
	28	1 030	51.78	18 500	1.6	90	**2KJ4108 - ■ FM22 - ■ ■ X1**	
	31	935	46.97	18 500	1.8	90	**2KJ4108 - ■ FM22 - ■ ■ W1**	
	33	865	43.36	18 500	1.9	90	**2KJ4108 - ■ FM22 - ■ ■ V1**	
	36	785	39.41	18 500	2.1	90	**2KJ4108 - ■ FM22 - ■ ■ U1**	
	43	665	33.38	18 500	2.5	90	**2KJ4108 - ■ FM22 - ■ ■ T1**	
	46	625	31.41	18 500	2.7	90	**2KJ4108 - ■ FM22 - ■ ■ S1**	
	D.149-LHN132SC6							
	2.9	9 800	328.38	50 300	0.82	322	**2KJ4212 - ■ HE21 - ■ ■ W1**	**P01**
	3.4	8 380	281.04	51 000	0.95	322	**2KJ4212 - ■ HE21 - ■ ■ V1**	**P01**
	3.6	7 890	264.51	51 200	1.0	322	**2KJ4212 - ■ HE21 - ■ ■ U1**	**P01**
	3.9	7 400	247.95	51 500	1.1	322	**2KJ4212 - ■ HE21 - ■ ■ T1**	**P01**
	D.169-LHN132SC6							
	2.9	9 760	327.18	71 700	1.4	500	**2KJ4213 - ■ HE21 - ■ ■ V1**	**P01**
	3.1	9 110	305.28	71 900	1.5	500	**2KJ4213 - ■ HE21 - ■ ■ U1**	**P01**
	3.5	8 100	271.4	72 300	1.7	500	**2KJ4213 - ■ HE21 - ■ ■ T1**	**P01**
	3.9	7 270	243.68	72 600	1.9	500	**2KJ4213 - ■ HE21 - ■ ■ S1**	**P01**
	D.189-LHN132SC6							
	3.1	9 360	313.63	107 000	2.0	713	**2KJ4214 - ■ HE21 - ■ ■ T1**	**P01**
	D.109-LHN100LJ4E							
	7.5	3 810	191.07	20 200	0.81	133	**2KJ4210 - ■ FM22 - ■ ■ M1**	
	8.1	3 520	176.45	20 200	0.88	133	**2KJ4210 - ■ FM22 - ■ ■ L1**	
	9.1	3 130	157	20 200	0.99	133	**2KJ4210 - ■ FM22 - ■ ■ K1**	
	10	2 780	139.44	20 200	1.1	133	**2KJ4210 - ■ FM22 - ■ ■ J1**	
	11	2 490	124.82	20 200	1.2	133	**2KJ4210 - ■ FM22 - ■ ■ H1**	
	13	2 130	106.7	20 200	1.5	133	**2KJ4210 - ■ FM22 - ■ ■ G1**	
	15	1 900	95.28	20 200	1.6	133	**2KJ4210 - ■ FM22 - ■ ■ F1**	
	17	1 680	84.21	20 200	1.8	133	**2KJ4210 - ■ FM22 - ■ ■ E1**	
	19	1 470	73.9	20 200	2.1	133	**2KJ4210 - ■ FM22 - ■ ■ D1**	
	22	1 280	64.34	20 200	2.4	133	**2KJ4210 - ■ FM22 - ■ ■ C1**	
	E.109-LHN100LJ4E							
	200	144	7.19	10 500	3.9	92	**2KJ4005 - ■ FM22 - ■ ■ Q1**	
	212	135	6.76	10 500	4.2	92	**2KJ4005 - ■ FM22 - ■ ■ P1**	
	229	125	6.28	10 500	4.5	92	**2KJ4005 - ■ FM22 - ■ ■ N1**	
	D.129-LHN100LJ4E							
	5.3	5 390	270.24	29 300	0.93	197	**2KJ4211 - ■ FM22 - ■ ■ P1**	
	5.6	5 070	254.34	29 300	0.98	197	**2KJ4211 - ■ FM22 - ■ ■ N1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
3	**D.129-LHN100LJ4E**							
	6.1	4 710	236.03	29 300	1.1	197	**2KJ4211 - ■ FM22 - ■ ■ M1**	
	6.9	4 160	208.67	29 300	1.2	197	**2KJ4211 - ■ FM22 - ■ ■ L1**	
	7.7	3 710	186.28	29 300	1.3	197	**2KJ4211 - ■ FM22 - ■ ■ K1**	
	8.6	3 340	167.63	29 300	1.5	197	**2KJ4211 - ■ FM22 - ■ ■ J1**	
	9.9	2 900	145.49	29 300	1.7	197	**2KJ4211 - ■ FM22 - ■ ■ H1**	
	11	2 610	130.84	29 300	1.9	197	**2KJ4211 - ■ FM22 - ■ ■ G1**	
	13	2 280	114.36	29 300	2.2	197	**2KJ4211 - ■ FM22 - ■ ■ F1**	
	E.129-LHN100LJ4E							
	147	195	9.79	13 500	3.4	117	**2KJ4006 - ■ FM22 - ■ ■ T1**	
	171	167	8.38	13 500	4.0	117	**2KJ4006 - ■ FM22 - ■ ■ S1**	
	182	157	7.88	13 500	4.2	117	**2KJ4006 - ■ FM22 - ■ ■ R1**	
	D.149-LHN100LJ4E							
	4.4	6 550	328.38	54 400	1.2	281	**2KJ4212 - ■ FM22 - ■ ■ W1**	
	5.1	5 610	281.04	54 500	1.4	281	**2KJ4212 - ■ FM22 - ■ ■ V1**	
	5.4	5 280	264.51	54 600	1.5	281	**2KJ4212 - ■ FM22 - ■ ■ U1**	
	5.8	4 950	247.95	54 600	1.6	281	**2KJ4212 - ■ FM22 - ■ ■ T1**	
	6.5	4 380	219.8	54 700	1.8	281	**2KJ4212 - ■ FM22 - ■ ■ S1**	
	7.3	3 890	195.24	54 700	2.1	281	**2KJ4212 - ■ FM22 - ■ ■ R1**	
	D.149-Z49-LHN100LJ4E							
	2.8	9 600	510	50 400	0.83	301	**2KJ4240 - ■ FM22 - ■ ■ C1**	
	3.3	8 090	430	51 100	0.99	301	**2KJ4240 - ■ FM22 - ■ ■ B1**	
	3.8	7 060	375	51 600	1.1	301	**2KJ4240 - ■ FM22 - ■ ■ A1**	
	D.169-Z69-LHN100LJ4E							
	1.7	15 400	823	69 600	0.9	490	**2KJ4242 - ■ FM22 - ■ ■ G1**	
	1.9	14 500	773	69 900	0.96	490	**2KJ4242 - ■ FM22 - ■ ■ F1**	
	2.2	12 300	658	70 800	1.1	490	**2KJ4242 - ■ FM22 - ■ ■ E1**	
	2.5	10 600	564	71 400	1.3	490	**2KJ4242 - ■ FM22 - ■ ■ D1**	
	2.9	9 330	496	71 900	1.5	490	**2KJ4242 - ■ FM22 - ■ ■ C1**	
	3.4	7 870	418	72 400	1.8	490	**2KJ4242 - ■ FM22 - ■ ■ B1**	
	3.9	6 850	364	72 800	2.0	490	**2KJ4242 - ■ FM22 - ■ ■ A1**	
	D.189-Z69-LHN100LJ4E							
	1.2	22 000	1 172	107 000	0.86	703	**2KJ4244 - ■ FM22 - ■ ■ J1**	
	1.5	18 600	989	107 000	1.0	703	**2KJ4244 - ■ FM22 - ■ ■ H1**	
	1.7	16 200	862	107 000	1.2	703	**2KJ4244 - ■ FM22 - ■ ■ G1**	
	1.8	15 200	810	107 000	1.2	703	**2KJ4244 - ■ FM22 - ■ ■ F1**	
	2.1	12 900	689	107 000	1.5	703	**2KJ4244 - ■ FM22 - ■ ■ E1**	
	2.4	11 100	590	107 000	1.7	703	**2KJ4244 - ■ FM22 - ■ ■ D1**	
	2.8	9 770	519	107 000	1.9	703	**2KJ4244 - ■ FM22 - ■ ■ C1**	
4	**E.39-LHN112MF4**							
	493	78	2.93	800	0.84	63	**2KJ4001 - ■ GJ21 - ■ ■ G1**	
	963	40	1.5	1 500	1.5	63	**2KJ4001 - ■ GJ21 - ■ ■ B1**	
	1 120	34	1.29	1 600	1.6	63	**2KJ4001 - ■ GJ21 - ■ ■ A1**	
	Z.39-LHN112MF4							
	224	171	6.46	100	0.85	62	**2KJ4103 - ■ GJ21 - ■ ■ F1**	
	238	161	6.08	100	0.91	62	**2KJ4103 - ■ GJ21 - ■ ■ E1**	
	265	144	5.45	100	0.97	62	**2KJ4103 - ■ GJ21 - ■ ■ D1**	
	311	123	4.64	400	1.1	62	**2KJ4103 - ■ GJ21 - ■ ■ C1**	
	363	105	3.98	800	1.2	62	**2KJ4103 - ■ GJ21 - ■ ■ B1**	
	421	91	3.43	1 000	1.2	62	**2KJ4103 - ■ GJ21 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**E.49-LHN112MF4**							
	318	120	4.54	3 700	0.85	68	**2KJ4002 - ■ GJ21 - ■ ■ K1**	
	349	109	4.14	3 900	0.93	68	**2KJ4002 - ■ GJ21 - ■ ■ J1**	
	420	91	3.44	3 800	1.1	68	**2KJ4002 - ■ GJ21 - ■ ■ H1**	
	446	86	3.24	3 700	1.2	68	**2KJ4002 - ■ GJ21 - ■ ■ G1**	
	472	81	3.06	3 700	1.2	68	**2KJ4002 - ■ GJ21 - ■ ■ F1**	
	556	69	2.6	3 500	1.5	68	**2KJ4002 - ■ GJ21 - ■ ■ E1**	
	648	59	2.23	3 400	1.7	68	**2KJ4002 - ■ GJ21 - ■ ■ D1**	
	737	52	1.96	3 300	2.0	68	**2KJ4002 - ■ GJ21 - ■ ■ C1**	
	876	44	1.65	3 100	2.4	68	**2KJ4002 - ■ GJ21 - ■ ■ B1**	
	1 003	38	1.44	3 000	2.7	68	**2KJ4002 - ■ GJ21 - ■ ■ A1**	
	Z.49-LHN112MF4							
	103	370	13.98	3 600	0.87	72	**2KJ4104 - ■ GJ21 - ■ ■ M1**	
	121	315	11.97	3 600	1.0	72	**2KJ4104 - ■ GJ21 - ■ ■ L1**	
	137	275	10.53	3 500	1.1	72	**2KJ4104 - ■ GJ21 - ■ ■ K1**	
	163	235	8.88	3 400	1.4	72	**2KJ4104 - ■ GJ21 - ■ ■ J1**	
	187	205	7.74	3 400	1.6	72	**2KJ4104 - ■ GJ21 - ■ ■ H1**	
	189	200	7.64	3 300	1.5	72	**2KJ4104 - ■ GJ21 - ■ ■ G1**	
	200	191	7.21	3 200	1.5	72	**2KJ4104 - ■ GJ21 - ■ ■ F1**	
	235	162	6.14	3 200	1.6	72	**2KJ4104 - ■ GJ21 - ■ ■ E1**	
	275	139	5.26	2 600	1.8	72	**2KJ4104 - ■ GJ21 - ■ ■ D1**	
	313	122	4.62	2 900	1.8	72	**2KJ4104 - ■ GJ21 - ■ ■ C1**	
	371	103	3.9	2 900	2.0	72	**2KJ4104 - ■ GJ21 - ■ ■ B1**	
	425	90	3.4	2 800	2.1	72	**2KJ4104 - ■ GJ21 - ■ ■ A1**	
	Z.59-LHN112MF4							
	72	530	20.2	4 900	0.84	74	**2KJ4105 - ■ GJ21 - ■ ■ P1**	
	76	500	19.01	4 900	0.9	74	**2KJ4105 - ■ GJ21 - ■ ■ N1**	
	81	475	17.95	4 800	0.95	74	**2KJ4105 - ■ GJ21 - ■ ■ M1**	
	95	400	15.27	4 000	1.1	74	**2KJ4105 - ■ GJ21 - ■ ■ L1**	
	110	345	13.09	4 400	1.3	74	**2KJ4105 - ■ GJ21 - ■ ■ K1**	
	126	300	11.51	4 600	1.5	74	**2KJ4105 - ■ GJ21 - ■ ■ J1**	
	149	255	9.71	4 500	1.8	74	**2KJ4105 - ■ GJ21 - ■ ■ H1**	
	171	220	8.46	4 300	2.0	74	**2KJ4105 - ■ GJ21 - ■ ■ G1**	
	179	210	8.07	4 300	1.9	74	**2KJ4105 - ■ GJ21 - ■ ■ F1**	
	211	181	6.86	4 100	2.3	74	**2KJ4105 - ■ GJ21 - ■ ■ E1**	
	246	155	5.88	4 000	2.6	74	**2KJ4105 - ■ GJ21 - ■ ■ D1**	
	279	137	5.17	3 800	3.0	74	**2KJ4105 - ■ GJ21 - ■ ■ C1**	
	331	115	4.36	3 700	3.5	74	**2KJ4105 - ■ GJ21 - ■ ■ B1**	
	380	100	3.8	3 600	4.0	74	**2KJ4105 - ■ GJ21 - ■ ■ A1**	
	E.69-LHN112MF4							
	191	200	7.58	6 100	1.0	75	**2KJ4003 - ■ GJ21 - ■ ■ Q1**	
	212	180	6.82	6 100	0.94	75	**2KJ4003 - ■ GJ21 - ■ ■ P1**	
	234	163	6.17	6 100	1.3	75	**2KJ4003 - ■ GJ21 - ■ ■ N1**	
	254	150	5.69	6 100	1.1	75	**2KJ4003 - ■ GJ21 - ■ ■ M1**	
	277	138	5.21	6 100	1.5	75	**2KJ4003 - ■ GJ21 - ■ ■ L1**	
	330	116	4.38	6 100	1.7	75	**2KJ4003 - ■ GJ21 - ■ ■ K1**	
	351	109	4.12	6 100	1.5	75	**2KJ4003 - ■ GJ21 - ■ ■ J1**	
	382	100	3.78	6 100	2.0	75	**2KJ4003 - ■ GJ21 - ■ ■ H1**	
	438	87	3.3	6 100	2.3	75	**2KJ4003 - ■ GJ21 - ■ ■ G1**	
	490	78	2.95	6 100	2.6	75	**2KJ4003 - ■ GJ21 - ■ ■ F1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**E.69-LHN112MF4**							
	560	68	2.58	6 100	2.9	75	**2KJ4003 - ■ GJ21 - ■ ■ E1**	
	651	59	2.22	6 100	3.3	75	**2KJ4003 - ■ GJ21 - ■ ■ D1**	
	737	52	1.96	6 100	3.8	75	**2KJ4003 - ■ GJ21 - ■ ■ C1**	
	865	44	1.67	6 100	4.4	75	**2KJ4003 - ■ GJ21 - ■ ■ B1**	
	1 010	38	1.43	6 100	5.2	75	**2KJ4003 - ■ GJ21 - ■ ■ A1**	
	Z.69-LHN112MF4							
	51	750	28.53	10 600	0.8	79	**2KJ4106 - ■ GJ21 - ■ ■ R1**	
	55	685	26.04	7 500	0.87	79	**2KJ4106 - ■ GJ21 - ■ ■ Q1**	
	67	570	21.61	8 500	1.1	79	**2KJ4106 - ■ GJ21 - ■ ■ P1**	
	71	535	20.34	8 800	1.1	79	**2KJ4106 - ■ GJ21 - ■ ■ N1**	
	75	505	19.21	9 100	1.2	79	**2KJ4106 - ■ GJ21 - ■ ■ M1**	
	88	430	16.34	9 600	1.4	79	**2KJ4106 - ■ GJ21 - ■ ■ L1**	
	103	370	14	9 900	1.6	79	**2KJ4106 - ■ GJ21 - ■ ■ K1**	
	117	325	12.31	9 700	1.8	79	**2KJ4106 - ■ GJ21 - ■ ■ J1**	
	139	275	10.39	9 200	2.2	79	**2KJ4106 - ■ GJ21 - ■ ■ H1**	
	160	235	9.05	8 900	2.5	79	**2KJ4106 - ■ GJ21 - ■ ■ G1**	
	170	225	8.5	8 700	2.0	79	**2KJ4106 - ■ GJ21 - ■ ■ F1**	
	200	191	7.23	8 300	2.3	79	**2KJ4106 - ■ GJ21 - ■ ■ E1**	
	233	164	6.2	8 000	2.7	79	**2KJ4106 - ■ GJ21 - ■ ■ D1**	
	265	144	5.45	7 700	3.0	79	**2KJ4106 - ■ GJ21 - ■ ■ C1**	
	314	122	4.6	7 300	3.7	79	**2KJ4106 - ■ GJ21 - ■ ■ B1**	
	360	106	4.01	7 000	4.2	79	**2KJ4106 - ■ GJ21 - ■ ■ A1**	
	Z.79-LHN112MF4							
	36	1 050	39.94	13 100	0.8	88	**2KJ4107 - ■ GJ21 - ■ ■ V1**	
	40	955	36.12	13 200	0.88	88	**2KJ4107 - ■ GJ21 - ■ ■ U1**	
	43	880	33.34	13 300	0.95	88	**2KJ4107 - ■ GJ21 - ■ ■ T1**	
	47	805	30.54	13 400	1.0	88	**2KJ4107 - ■ GJ21 - ■ ■ S1**	
	56	675	25.62	10 200	1.2	88	**2KJ4107 - ■ GJ21 - ■ ■ R1**	
	60	635	24.12	10 400	1.3	88	**2KJ4107 - ■ GJ21 - ■ ■ Q1**	
	65	585	22.13	10 600	1.4	88	**2KJ4107 - ■ GJ21 - ■ ■ P1**	
	75	510	19.33	10 800	1.6	88	**2KJ4107 - ■ GJ21 - ■ ■ N1**	
	83	455	17.31	11 000	1.8	88	**2KJ4107 - ■ GJ21 - ■ ■ M1**	
	96	400	15.13	11 000	2.1	88	**2KJ4107 - ■ GJ21 - ■ ■ L1**	
	111	340	12.99	11 100	2.4	88	**2KJ4107 - ■ GJ21 - ■ ■ K1**	
	126	300	11.48	11 000	2.8	88	**2KJ4107 - ■ GJ21 - ■ ■ J1**	
	148	255	9.76	10 800	3.2	88	**2KJ4107 - ■ GJ21 - ■ ■ H1**	
	173	220	8.37	10 300	3.6	88	**2KJ4107 - ■ GJ21 - ■ ■ G1**	
	176	215	8.19	9 900	3.3	88	**2KJ4107 - ■ GJ21 - ■ ■ F1**	
	202	189	7.16	9 800	3.9	88	**2KJ4107 - ■ GJ21 - ■ ■ E1**	
	235	163	6.15	9 300	4.4	88	**2KJ4107 - ■ GJ21 - ■ ■ D1**	
	266	144	5.43	9 000	4.8	88	**2KJ4107 - ■ GJ21 - ■ ■ C1**	
	D.89-LHN112MF4							
	19	1 960	74.3	18 500	0.86	111	**2KJ4208 - ■ GJ21 - ■ ■ D1**	
	22	1 730	65.67	18 500	0.97	111	**2KJ4208 - ■ GJ21 - ■ ■ C1**	
	E.89-LHN112MF4							
	149	255	9.67	8 000	1.1	88	**2KJ4004 - ■ GJ21 - ■ ■ T1**	
	166	230	8.73	8 000	1.2	88	**2KJ4004 - ■ GJ21 - ■ ■ S1**	
	182	205	7.92	8 000	1.3	88	**2KJ4004 - ■ GJ21 - ■ ■ R1**	
	198	193	7.31	8 000	1.3	88	**2KJ4004 - ■ GJ21 - ■ ■ Q1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**E.89-LHN112MF4**							
	218	176	6.64	8 000	1.5	88	**2KJ4004 - ■ GJ21 - ■ ■ P1**	
	257	149	5.62	8 000	2.2	88	**2KJ4004 - ■ GJ21 - ■ ■ N1**	
	273	140	5.29	8 000	1.5	88	**2KJ4004 - ■ GJ21 - ■ ■ M1**	
	296	129	4.89	8 000	2.8	88	**2KJ4004 - ■ GJ21 - ■ ■ L1**	
	332	115	4.35	8 000	3.1	88	**2KJ4004 - ■ GJ21 - ■ ■ K1**	
	374	102	3.86	8 000	3.5	88	**2KJ4004 - ■ GJ21 - ■ ■ J1**	
	418	92	3.46	8 000	4.0	88	**2KJ4004 - ■ GJ21 - ■ ■ H1**	
	488	78	2.96	8 000	4.6	88	**2KJ4004 - ■ GJ21 - ■ ■ G1**	
	547	70	2.64	8 000	5.2	88	**2KJ4004 - ■ GJ21 - ■ ■ F1**	
	620	62	2.33	8 000	5.8	88	**2KJ4004 - ■ GJ21 - ■ ■ E1**	
	Z.89-LHN112MF4							
	25	1 510	57.36	18 500	1.1	110	**2KJ4108 - ■ GJ21 - ■ ■ A2**	
	28	1 360	51.78	18 500	1.2	110	**2KJ4108 - ■ GJ21 - ■ ■ X1**	
	31	1 240	46.97	18 500	1.4	110	**2KJ4108 - ■ GJ21 - ■ ■ W1**	
	33	1 140	43.36	18 500	1.5	110	**2KJ4108 - ■ GJ21 - ■ ■ V1**	
	37	1 040	39.41	18 500	1.6	110	**2KJ4108 - ■ GJ21 - ■ ■ U1**	
	43	880	33.38	18 500	1.9	110	**2KJ4108 - ■ GJ21 - ■ ■ T1**	
	46	830	31.41	18 500	2.0	110	**2KJ4108 - ■ GJ21 - ■ ■ S1**	
	50	765	29.01	18 500	2.2	110	**2KJ4108 - ■ GJ21 - ■ ■ R1**	
	56	680	25.81	18 500	2.5	110	**2KJ4108 - ■ GJ21 - ■ ■ Q1**	
	63	605	22.92	18 500	2.8	110	**2KJ4108 - ■ GJ21 - ■ ■ P1**	
	70	540	20.52	18 500	3.1	110	**2KJ4108 - ■ GJ21 - ■ ■ N1**	
	D.109-LHN112MF4							
	10	3 680	139.44	20 100	0.84	153	**2KJ4210 - ■ GJ21 - ■ ■ J1**	
	12	3 300	124.82	20 200	0.94	153	**2KJ4210 - ■ GJ21 - ■ ■ H1**	
	14	2 820	106.7	20 200	1.1	153	**2KJ4210 - ■ GJ21 - ■ ■ G1**	
	15	2 510	95.28	20 200	1.2	153	**2KJ4210 - ■ GJ21 - ■ ■ F1**	
	17	2 220	84.21	20 200	1.4	153	**2KJ4210 - ■ GJ21 - ■ ■ E1**	
	20	1 950	73.9	20 200	1.6	153	**2KJ4210 - ■ GJ21 - ■ ■ D1**	
	22	1 700	64.34	20 200	1.8	153	**2KJ4210 - ■ GJ21 - ■ ■ C1**	
	E.109-LHN112MF4							
	201	190	7.19	10 500	3.0	112	**2KJ4005 - ■ GJ21 - ■ ■ Q1**	
	214	179	6.76	10 500	3.2	112	**2KJ4005 - ■ GJ21 - ■ ■ P1**	
	230	166	6.28	10 500	3.4	112	**2KJ4005 - ■ GJ21 - ■ ■ N1**	
	260	147	5.55	10 500	3.8	112	**2KJ4005 - ■ GJ21 - ■ ■ M1**	
	292	131	4.95	10 500	4.3	112	**2KJ4005 - ■ GJ21 - ■ ■ L1**	
	324	118	4.46	10 500	4.7	112	**2KJ4005 - ■ GJ21 - ■ ■ K1**	
	Z.109-LHN112MF4							
	28	1 350	51.17	20 200	2.3	151	**2KJ4110 - ■ GJ21 - ■ ■ X1**	
	D.129-LHN112MF4							
	6.1	6 240	236.03	26 300	0.8	217	**2KJ4211 - ■ GJ21 - ■ ■ M1**	
	6.9	5 510	208.67	26 700	0.91	217	**2KJ4211 - ■ GJ21 - ■ ■ L1**	
	7.8	4 920	186.28	27 100	1.0	217	**2KJ4211 - ■ GJ21 - ■ ■ K1**	
	8.6	4 430	167.63	27 400	1.1	217	**2KJ4211 - ■ GJ21 - ■ ■ J1**	
	9.9	3 840	145.49	27 700	1.3	217	**2KJ4211 - ■ GJ21 - ■ ■ H1**	
	11	3 450	130.84	27 900	1.4	217	**2KJ4211 - ■ GJ21 - ■ ■ G1**	
	13	3 020	114.36	28 200	1.7	217	**2KJ4211 - ■ GJ21 - ■ ■ F1**	
	14	2 690	102.05	28 400	1.9	217	**2KJ4211 - ■ GJ21 - ■ ■ E1**	
	16	2 370	89.91	28 500	2.1	217	**2KJ4211 - ■ GJ21 - ■ ■ D1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**E.129-LHN112MF4**							
	148	255	9.79	13 500	2.6	137	**2KJ4006 - ■ GJ21 - ■ ■ T1**	
	172	220	8.38	13 500	3.0	137	**2KJ4006 - ■ GJ21 - ■ ■ S1**	
	183	205	7.88	13 500	3.2	137	**2KJ4006 - ■ GJ21 - ■ ■ R1**	
	196	195	7.39	13 500	4.1	137	**2KJ4006 - ■ GJ21 - ■ ■ Q1**	
	D.149-LHN112MF4							
	4.4	8 680	328.38	50 800	0.92	303	**2KJ4212 - ■ GJ21 - ■ ■ W1**	
	5.1	7 430	281.04	51 400	1.1	303	**2KJ4212 - ■ GJ21 - ■ ■ V1**	
	5.5	6 990	264.51	51 600	1.1	303	**2KJ4212 - ■ GJ21 - ■ ■ U1**	
	5.8	6 550	247.95	51 900	1.2	303	**2KJ4212 - ■ GJ21 - ■ ■ T1**	
	6.6	5 810	219.8	52 200	1.4	303	**2KJ4212 - ■ GJ21 - ■ ■ S1**	
	7.4	5 160	195.24	52 500	1.5	303	**2KJ4212 - ■ GJ21 - ■ ■ R1**	
	8.2	4 650	176.18	52 800	1.7	303	**2KJ4212 - ■ GJ21 - ■ ■ Q1**	
	9.3	4 120	156.11	53 000	1.9	303	**2KJ4212 - ■ GJ21 - ■ ■ P1**	
	10	3 650	138.26	53 200	2.2	303	**2KJ4212 - ■ GJ21 - ■ ■ N1**	
	D.149-LHN132MB6							
	3.9	9 860	247.95	50 300	0.81	325	**2KJ4212 - ■ HH21 - ■ ■ T1**	**P01**
	D.169-LHN112MF4							
	4.4	8 640	327.18	72 100	1.6	481	**2KJ4213 - ■ GJ21 - ■ ■ V1**	
	4.7	8 070	305.28	72 300	1.7	481	**2KJ4213 - ■ GJ21 - ■ ■ U1**	
	5.3	7 170	271.4	72 700	2.0	481	**2KJ4213 - ■ GJ21 - ■ ■ T1**	
	D.169-LHN132MB6							
	2.9	13 000	327.18	70 500	1.1	503	**2KJ4213 - ■ HH21 - ■ ■ V1**	**P01**
	3.1	12 100	305.28	70 800	1.2	503	**2KJ4213 - ■ HH21 - ■ ■ U1**	**P01**
	3.5	10 700	271.4	71 300	1.3	503	**2KJ4213 - ■ HH21 - ■ ■ T1**	**P01**
	3.9	9 690	243.68	71 700	1.4	503	**2KJ4213 - ■ HH21 - ■ ■ S1**	**P01**
	D.189-LHN132MB6							
	3.1	12 400	313.63	107 000	1.5	716	**2KJ4214 - ■ HH21 - ■ ■ T1**	**P01**
	3.4	11 100	280.59	107 000	1.7	716	**2KJ4214 - ■ HH21 - ■ ■ S1**	**P01**
	3.8	10 000	253.06	107 000	1.9	716	**2KJ4214 - ■ HH21 - ■ ■ R1**	**P01**
	D.149-Z49-LHN112MF4							
	3.9	9 360	375	50 500	0.85	322	**2KJ4240 - ■ GJ21 - ■ ■ A1**	
	D.169-Z69-LHN112MF4							
	2.2	16 400	658	69 200	0.85	511	**2KJ4242 - ■ GJ21 - ■ ■ E1**	
	2.6	14 000	564	70 100	0.99	511	**2KJ4242 - ■ GJ21 - ■ ■ D1**	
	2.9	12 300	496	70 800	1.1	511	**2KJ4242 - ■ GJ21 - ■ ■ C1**	
	3.5	10 400	418	71 500	1.3	511	**2KJ4242 - ■ GJ21 - ■ ■ B1**	
	4	9 090	364	72 000	1.5	511	**2KJ4242 - ■ GJ21 - ■ ■ A1**	
	D.189-Z69-LHN112MF4							
	1.7	21 500	862	107 000	0.88	724	**2KJ4244 - ■ GJ21 - ■ ■ G1**	
	1.8	20 200	810	107 000	0.94	724	**2KJ4244 - ■ GJ21 - ■ ■ F1**	
	2.1	17 200	689	107 000	1.1	724	**2KJ4244 - ■ GJ21 - ■ ■ E1**	
	2.4	14 700	590	107 000	1.3	724	**2KJ4244 - ■ GJ21 - ■ ■ D1**	
	2.8	12 900	519	107 000	1.5	724	**2KJ4244 - ■ GJ21 - ■ ■ C1**	
	3.3	10 900	438	107 000	1.7	724	**2KJ4244 - ■ GJ21 - ■ ■ B1**	
	3.8	9 540	382	107 000	2.0	724	**2KJ4244 - ■ GJ21 - ■ ■ A1**	
5.5	**E.49-LHN132SH4**							
	420	125	3.44	2 400	0.81	89	**2KJ4002 - ■ HF21 - ■ ■ H1**	
	446	118	3.24	2 600	0.86	89	**2KJ4002 - ■ HF21 - ■ ■ G1**	
	472	111	3.06	2 700	0.91	89	**2KJ4002 - ■ HF21 - ■ ■ F1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
5.5	**E.49-LHN132SH4**							
	556	94	2.6	2 900	1.1	89	**2KJ4002 - ■ HF21 - ■ ■ E1**	
	876	60	1.65	3 000	1.7	89	**2KJ4002 - ■ HF21 - ■ ■ B1**	
	1 003	52	1.44	2 900	1.9	89	**2KJ4002 - ■ HF21 - ■ ■ A1**	
	Z.49-LHN132SH4							
	137	380	10.53	3 100	0.84	93	**2KJ4104 - ■ HF21 - ■ ■ K1**	
	163	320	8.88	3 100	0.99	93	**2KJ4104 - ■ HF21 - ■ ■ J1**	
	187	280	7.74	3 100	1.1	93	**2KJ4104 - ■ HF21 - ■ ■ H1**	
	189	275	7.64	3 000	1.1	93	**2KJ4104 - ■ HF21 - ■ ■ G1**	
	200	260	7.21	3 000	1.1	93	**2KJ4104 - ■ HF21 - ■ ■ F1**	
	235	220	6.14	2 900	1.2	93	**2KJ4104 - ■ HF21 - ■ ■ E1**	
	275	191	5.26	2 800	1.3	93	**2KJ4104 - ■ HF21 - ■ ■ D1**	
	313	168	4.62	2 800	1.3	93	**2KJ4104 - ■ HF21 - ■ ■ C1**	
	371	142	3.9	2 700	1.4	93	**2KJ4104 - ■ HF21 - ■ ■ B1**	
	425	124	3.4	2 100	1.5	93	**2KJ4104 - ■ HF21 - ■ ■ A1**	
	Z.59-LHN132SH4							
	95	555	15.27	4 200	0.81	95	**2KJ4105 - ■ HF21 - ■ ■ L1**	
	110	475	13.09	4 200	0.95	95	**2KJ4105 - ■ HF21 - ■ ■ K1**	
	126	415	11.51	4 100	1.1	95	**2KJ4105 - ■ HF21 - ■ ■ J1**	
	149	350	9.71	3 300	1.3	95	**2KJ4105 - ■ HF21 - ■ ■ H1**	
	171	305	8.46	3 700	1.5	95	**2KJ4105 - ■ HF21 - ■ ■ G1**	
	179	290	8.07	2 600	1.4	95	**2KJ4105 - ■ HF21 - ■ ■ F1**	
	211	245	6.86	3 100	1.6	95	**2KJ4105 - ■ HF21 - ■ ■ E1**	
	246	210	5.88	3 500	1.9	95	**2KJ4105 - ■ HF21 - ■ ■ D1**	
	279	188	5.17	3 600	2.2	95	**2KJ4105 - ■ HF21 - ■ ■ C1**	
	331	158	4.36	3 500	2.6	95	**2KJ4105 - ■ HF21 - ■ ■ B1**	
	380	138	3.8	3 400	2.9	95	**2KJ4105 - ■ HF21 - ■ ■ A1**	
	E.69-LHN132SH4							
	277	189	5.21	6 100	1.1	96	**2KJ4003 - ■ HF21 - ■ ■ L1**	
	330	159	4.38	6 100	1.3	96	**2KJ4003 - ■ HF21 - ■ ■ K1**	
	351	150	4.12	6 100	1.1	96	**2KJ4003 - ■ HF21 - ■ ■ J1**	
	382	137	3.78	6 100	1.5	96	**2KJ4003 - ■ HF21 - ■ ■ H1**	
	438	120	3.3	6 100	1.7	96	**2KJ4003 - ■ HF21 - ■ ■ G1**	
	490	107	2.95	6 100	1.9	96	**2KJ4003 - ■ HF21 - ■ ■ F1**	
	560	94	2.58	6 100	2.1	96	**2KJ4003 - ■ HF21 - ■ ■ E1**	
	651	81	2.22	6 100	2.4	96	**2KJ4003 - ■ HF21 - ■ ■ D1**	
	737	71	1.96	6 100	2.8	96	**2KJ4003 - ■ HF21 - ■ ■ C1**	
	865	61	1.67	6 100	3.2	96	**2KJ4003 - ■ HF21 - ■ ■ B1**	
	1 010	52	1.43	6 100	3.8	96	**2KJ4003 - ■ HF21 - ■ ■ A1**	
	Z.69-LHN132SH4							
	71	735	20.34	10 300	0.81	100	**2KJ4106 - ■ HF21 - ■ ■ N1**	
	75	695	19.21	10 200	0.86	100	**2KJ4106 - ■ HF21 - ■ ■ M1**	
	88	590	16.34	9 900	1.0	100	**2KJ4106 - ■ HF21 - ■ ■ L1**	
	103	505	14	7 100	1.2	100	**2KJ4106 - ■ HF21 - ■ ■ K1**	
	117	445	12.31	7 600	1.3	100	**2KJ4106 - ■ HF21 - ■ ■ J1**	
	139	375	10.39	8 100	1.6	100	**2KJ4106 - ■ HF21 - ■ ■ H1**	
	160	325	9.05	8 400	1.8	100	**2KJ4106 - ■ HF21 - ■ ■ G1**	
	170	305	8.5	7 100	1.4	100	**2KJ4106 - ■ HF21 - ■ ■ F1**	
	200	260	7.23	7 500	1.7	100	**2KJ4106 - ■ HF21 - ■ ■ E1**	
	233	225	6.2	7 600	2.0	100	**2KJ4106 - ■ HF21 - ■ ■ D1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
5.5	**Z.69-LHN132SH4**							
	265	198	5.45	7 500	2.2	100	**2KJ4106 - ■ HF21 - ■ ■ C1**	
	314	167	4.6	7 200	2.7	100	**2KJ4106 - ■ HF21 - ■ ■ B1**	
	360	146	4.01	6 900	3.1	100	**2KJ4106 - ■ HF21 - ■ ■ A1**	
	Z.79-LHN132SH4							
	56	930	25.62	13 100	0.9	110	**2KJ4107 - ■ HF21 - ■ ■ R1**	
	60	875	24.12	13 000	0.96	110	**2KJ4107 - ■ HF21 - ■ ■ Q1**	
	65	800	22.13	12 800	1.0	110	**2KJ4107 - ■ HF21 - ■ ■ P1**	
	75	700	19.33	12 400	1.2	110	**2KJ4107 - ■ HF21 - ■ ■ N1**	
	83	625	17.31	8 400	1.3	110	**2KJ4107 - ■ HF21 - ■ ■ M1**	
	96	550	15.13	8 800	1.5	110	**2KJ4107 - ■ HF21 - ■ ■ L1**	
	111	470	12.99	9 100	1.8	110	**2KJ4107 - ■ HF21 - ■ ■ K1**	
	126	415	11.48	9 300	2.0	110	**2KJ4107 - ■ HF21 - ■ ■ J1**	
	148	355	9.76	9 400	2.3	110	**2KJ4107 - ■ HF21 - ■ ■ H1**	
	173	300	8.37	9 500	2.6	110	**2KJ4107 - ■ HF21 - ■ ■ G1**	
	176	295	8.19	8 500	2.4	110	**2KJ4107 - ■ HF21 - ■ ■ F1**	
	202	260	7.16	8 500	2.8	110	**2KJ4107 - ■ HF21 - ■ ■ E1**	
	235	220	6.15	8 600	3.2	110	**2KJ4107 - ■ HF21 - ■ ■ D1**	
	266	197	5.43	8 500	3.5	110	**2KJ4107 - ■ HF21 - ■ ■ C1**	
	313	168	4.62	8 400	4.6	110	**2KJ4107 - ■ HF21 - ■ ■ B1**	
	D.89-LHN132SH4							
	26	2 030	55.84	18 300	0.83	133	**2KJ4208 - ■ HF21 - ■ ■ B1**	
	30	1 740	47.87	18 500	0.97	133	**2KJ4208 - ■ HF21 - ■ ■ A1**	
	E.89-LHN132SH4							
	218	240	6.64	8 000	1.1	110	**2KJ4004 - ■ HF21 - ■ ■ P1**	
	257	200	5.62	8 000	1.6	110	**2KJ4004 - ■ HF21 - ■ ■ N1**	
	273	192	5.29	8 000	1.1	110	**2KJ4004 - ■ HF21 - ■ ■ M1**	
	296	178	4.89	8 000	2.0	110	**2KJ4004 - ■ HF21 - ■ ■ L1**	
	332	158	4.35	8 000	2.3	110	**2KJ4004 - ■ HF21 - ■ ■ K1**	
	374	140	3.86	8 000	2.6	110	**2KJ4004 - ■ HF21 - ■ ■ J1**	
	418	126	3.46	8 000	2.9	110	**2KJ4004 - ■ HF21 - ■ ■ H1**	
	488	108	2.96	8 000	3.3	110	**2KJ4004 - ■ HF21 - ■ ■ G1**	
	547	96	2.64	8 000	3.8	110	**2KJ4004 - ■ HF21 - ■ ■ F1**	
	620	85	2.33	8 000	4.3	110	**2KJ4004 - ■ HF21 - ■ ■ E1**	
	705	74	2.05	7 900	4.8	110	**2KJ4004 - ■ HF21 - ■ ■ D1**	
	812	65	1.78	7 600	5.6	110	**2KJ4004 - ■ HF21 - ■ ■ C1**	
	951	55	1.52	7 300	6.5	110	**2KJ4004 - ■ HF21 - ■ ■ B1**	
	Z.89-LHN132SH4							
	37	1 430	39.41	18 500	1.2	132	**2KJ4108 - ■ HF21 - ■ ■ U1**	
	43	1 210	33.38	18 500	1.4	132	**2KJ4108 - ■ HF21 - ■ ■ T1**	
	46	1 140	31.41	18 500	1.5	132	**2KJ4108 - ■ HF21 - ■ ■ S1**	
	50	1 050	29.01	18 500	1.6	132	**2KJ4108 - ■ HF21 - ■ ■ R1**	
	56	935	25.81	18 500	1.8	132	**2KJ4108 - ■ HF21 - ■ ■ Q1**	
	63	830	22.92	18 500	2.0	132	**2KJ4108 - ■ HF21 - ■ ■ P1**	
	70	745	20.52	18 500	2.3	132	**2KJ4108 - ■ HF21 - ■ ■ N1**	
	82	635	17.54	18 500	2.6	132	**2KJ4108 - ■ HF21 - ■ ■ M1**	
	92	565	15.66	18 500	3.0	132	**2KJ4108 - ■ HF21 - ■ ■ L1**	
	104	500	13.84	17 900	3.3	132	**2KJ4108 - ■ HF21 - ■ ■ K1**	
	119	440	12.15	17 200	3.7	132	**2KJ4108 - ■ HF21 - ■ ■ J1**	
	210	250	6.89	14 600	4.2	132	**2KJ4108 - ■ HF21 - ■ ■ E1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**D.109-LHN132SH4**							
	14	3 870	106.7	20 000	0.8	174	**2KJ4210 - ■ HF21 - ■ ■ G1**	
	15	3 460	95.28	20 200	0.9	174	**2KJ4210 - ■ HF21 - ■ ■ F1**	
	17	3 060	84.21	20 200	1.0	174	**2KJ4210 - ■ HF21 - ■ ■ E1**	
	20	2 680	73.9	20 200	1.2	174	**2KJ4210 - ■ HF21 - ■ ■ D1**	
	22	2 330	64.34	20 200	1.3	174	**2KJ4210 - ■ HF21 - ■ ■ C1**	
	E.109-LHN132SH4							
	201	260	7.19	10 500	2.2	133	**2KJ4005 - ■ HF21 - ■ ■ Q1**	
	214	245	6.76	10 500	2.3	133	**2KJ4005 - ■ HF21 - ■ ■ P1**	
	230	225	6.28	10 500	2.5	133	**2KJ4005 - ■ HF21 - ■ ■ N1**	
	260	200	5.55	10 500	2.8	133	**2KJ4005 - ■ HF21 - ■ ■ M1**	
	292	180	4.95	10 500	3.1	133	**2KJ4005 - ■ HF21 - ■ ■ L1**	
	324	162	4.46	10 500	3.5	133	**2KJ4005 - ■ HF21 - ■ ■ K1**	
	373	141	3.87	10 500	3.9	133	**2KJ4005 - ■ HF21 - ■ ■ J1**	
	415	126	3.48	10 500	4.3	133	**2KJ4005 - ■ HF21 - ■ ■ H1**	
	475	111	3.04	10 500	4.9	133	**2KJ4005 - ■ HF21 - ■ ■ G1**	
	533	98	2.71	10 500	5.5	133	**2KJ4005 - ■ HF21 - ■ ■ F1**	
	Z.109-LHN132SH4							
	28	1 860	51.17	20 200	1.7	172	**2KJ4110 - ■ HF21 - ■ ■ X1**	
	33	1 580	43.64	20 200	2.0	172	**2KJ4110 - ■ HF21 - ■ ■ W1**	
	35	1 490	41.07	20 200	2.1	172	**2KJ4110 - ■ HF21 - ■ ■ V1**	
	38	1 380	38.12	20 200	2.2	172	**2KJ4110 - ■ HF21 - ■ ■ U1**	
	43	1 220	33.7	20 200	2.5	172	**2KJ4110 - ■ HF21 - ■ ■ T1**	
	48	1 090	30.08	20 200	2.8	172	**2KJ4110 - ■ HF21 - ■ ■ S1**	
	D.129-LHN132SH4							
	8.6	6 090	167.63	26 400	0.82	238	**2KJ4211 - ■ HF21 - ■ ■ J1**	
	9.9	5 280	145.49	26 900	0.95	238	**2KJ4211 - ■ HF21 - ■ ■ H1**	
	11	4 750	130.84	27 200	1.1	238	**2KJ4211 - ■ HF21 - ■ ■ G1**	
	13	4 150	114.36	27 500	1.2	238	**2KJ4211 - ■ HF21 - ■ ■ F1**	
	14	3 700	102.05	27 800	1.3	238	**2KJ4211 - ■ HF21 - ■ ■ E1**	
	16	3 260	89.91	28 000	1.5	238	**2KJ4211 - ■ HF21 - ■ ■ D1**	
	18	2 860	78.78	28 300	1.7	238	**2KJ4211 - ■ HF21 - ■ ■ C1**	
	E.129-LHN132SH4							
	148	355	9.79	13 500	1.9	158	**2KJ4006 - ■ HF21 - ■ ■ T1**	
	172	305	8.38	13 500	2.2	158	**2KJ4006 - ■ HF21 - ■ ■ S1**	
	183	285	7.88	13 500	2.3	158	**2KJ4006 - ■ HF21 - ■ ■ R1**	
	196	265	7.39	13 500	3.0	158	**2KJ4006 - ■ HF21 - ■ ■ Q1**	
	221	235	6.55	13 500	3.4	158	**2KJ4006 - ■ HF21 - ■ ■ P1**	
	248	210	5.82	13 500	3.8	158	**2KJ4006 - ■ HF21 - ■ ■ N1**	
	275	191	5.25	13 500	4.2	158	**2KJ4006 - ■ HF21 - ■ ■ M1**	
	311	169	4.65	13 500	4.7	158	**2KJ4006 - ■ HF21 - ■ ■ L1**	
	351	150	4.12	13 500	5.2	158	**2KJ4006 - ■ HF21 - ■ ■ K1**	
	Z.129-LHN132SH4							
	23	2 270	62.48	28 600	2.2	234	**2KJ4111 - ■ HF21 - ■ ■ X1**	
	D.149-LHN132SH4							
	5.5	9 610	264.51	50 400	0.83	323	**2KJ4212 - ■ HF21 - ■ ■ U1**	
	5.8	9 010	247.95	50 700	0.89	323	**2KJ4212 - ■ HF21 - ■ ■ T1**	
	6.6	7 990	219.8	51 200	1.0	323	**2KJ4212 - ■ HF21 - ■ ■ S1**	
	7.4	7 090	195.24	51 600	1.1	323	**2KJ4212 - ■ HF21 - ■ ■ R1**	
	8.2	6 400	176.18	51 900	1.2	323	**2KJ4212 - ■ HF21 - ■ ■ Q1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
5.5	**D.149-LHN132SH4**							
	9.3	5 670	156.11	52 300	1.4	323	**2KJ4212 - ■ HF21 - ■ ■ P1**	
	10	5 020	138.26	52 600	1.6	323	**2KJ4212 - ■ HF21 - ■ ■ N1**	
	12	4 470	123.04	52 900	1.8	323	**2KJ4212 - ■ HF21 - ■ ■ M1**	
	13	4 000	110.26	53 100	2.0	323	**2KJ4212 - ■ HF21 - ■ ■ L1**	
	E.149-LHN132SH4							
	148	355	9.76	16 000	3.4	196	**2KJ4007 - ■ HF21 - ■ ■ S1**	
	159	330	9.11	16 000	3.8	196	**2KJ4007 - ■ HF21 - ■ ■ R1**	
	D.169-LHN132ML6							
	3.1	16 700	305.28	69 100	0.84	510	**2KJ4213 - ■ HL21 - ■ ■ U1**	
	3.5	14 800	271.4	69 800	0.94	510	**2KJ4213 - ■ HL21 - ■ ■ T1**	
	3.9	13 300	243.68	70 400	1.1	510	**2KJ4213 - ■ HL21 - ■ ■ S1**	
	D.169-LHN132SH4							
	4.4	11 800	327.18	70 900	1.2	501	**2KJ4213 - ■ HF21 - ■ ■ V1**	
	4.7	11 000	305.28	71 200	1.3	501	**2KJ4213 - ■ HF21 - ■ ■ U1**	
	5.3	9 860	271.4	71 700	1.4	501	**2KJ4213 - ■ HF21 - ■ ■ T1**	
	5.9	8 850	243.68	72 000	1.6	501	**2KJ4213 - ■ HF21 - ■ ■ S1**	
	6.6	8 010	220.58	72 400	1.7	501	**2KJ4213 - ■ HF21 - ■ ■ R1**	
	7.5	7 040	193.75	72 700	2.0	501	**2KJ4213 - ■ HF21 - ■ ■ Q1**	
	D.189-LHN132ML6							
	3.1	17 100	313.63	107 000	1.1	723	**2KJ4214 - ■ HL21 - ■ ■ T1**	
	3.4	15 300	280.59	107 000	1.2	723	**2KJ4214 - ■ HL21 - ■ ■ S1**	
	3.8	13 800	253.06	107 000	1.4	723	**2KJ4214 - ■ HL21 - ■ ■ R1**	
	4.3	12 200	223.66	107 000	1.6	723	**2KJ4214 - ■ HL21 - ■ ■ Q1**	
	D.189-LHN132SH4							
	4.6	11 400	313.63	107 000	1.7	714	**2KJ4214 - ■ HF21 - ■ ■ T1**	
	5.1	10 100	280.59	107 000	1.9	714	**2KJ4214 - ■ HF21 - ■ ■ S1**	
	5.7	9 190	253.06	107 000	2.1	714	**2KJ4214 - ■ HF21 - ■ ■ R1**	
	D.169-Z69-LHN132SH4							
	2.9	17 000	496	69 000	0.82	532	**2KJ4242 - ■ HF21 - ■ ■ C1**	
	3.5	14 300	418	70 000	0.97	532	**2KJ4242 - ■ HF21 - ■ ■ B1**	
	4	12 500	364	70 700	1.1	532	**2KJ4242 - ■ HF21 - ■ ■ A1**	
	D.189-Z69-LHN132SH4							
	2.1	23 700	689	107 000	0.8	745	**2KJ4244 - ■ HF21 - ■ ■ E1**	
	2.4	20 300	590	107 000	0.94	745	**2KJ4244 - ■ HF21 - ■ ■ D1**	
	2.8	17 800	519	107 000	1.1	745	**2KJ4244 - ■ HF21 - ■ ■ C1**	
	3.3	15 000	438	107 000	1.3	745	**2KJ4244 - ■ HF21 - ■ ■ B1**	
	3.8	13 100	382	107 000	1.4	745	**2KJ4244 - ■ HF21 - ■ ■ A1**	
7.5	**E.49-LHN132MKA4**							
	558	128	2.6	1 300	0.79	104	**2KJ4002 - ■ HJ21 - ■ ■ E1**	
	Z.49-LHN132MKA4							
	187	380	7.74	2 700	0.84	108	**2KJ4104 - ■ HJ21 - ■ ■ H1**	
	201	355	7.21	2 500	0.81	108	**2KJ4104 - ■ HJ21 - ■ ■ F1**	
	236	300	6.14	2 600	0.87	108	**2KJ4104 - ■ HJ21 - ■ ■ E1**	
	276	260	5.26	2 500	0.94	108	**2KJ4104 - ■ HJ21 - ■ ■ D1**	
	314	225	4.62	2 500	0.99	108	**2KJ4104 - ■ HJ21 - ■ ■ C1**	
	372	193	3.9	2 500	1.1	108	**2KJ4104 - ■ HJ21 - ■ ■ B1**	
	426	168	3.4	2 400	1.1	108	**2KJ4104 - ■ HJ21 - ■ ■ A1**	
	Z.59-LHN132MKA4							
	149	480	9.71	3 600	0.94	110	**2KJ4105 - ■ HJ21 - ■ ■ H1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**Z.59-LHN132MKA4**							
	171	415	8.46	3 600	1.1	110	**2KJ4105 - ■ HJ21 - ■ ■ G1**	
	180	395	8.07	3 500	1.0	110	**2KJ4105 - ■ HJ21 - ■ ■ F1**	
	211	335	6.86	3 500	1.2	110	**2KJ4105 - ■ HJ21 - ■ ■ E1**	
	247	290	5.88	3 400	1.4	110	**2KJ4105 - ■ HJ21 - ■ ■ D1**	
	280	255	5.17	2 200	1.6	110	**2KJ4105 - ■ HJ21 - ■ ■ C1**	
	333	215	4.36	2 600	1.9	110	**2KJ4105 - ■ HJ21 - ■ ■ B1**	
	382	188	3.8	2 900	2.2	110	**2KJ4105 - ■ HJ21 - ■ ■ A1**	
	E.69-LHN132MKA4							
	331	215	4.38	6 100	0.92	111	**2KJ4003 - ■ HJ21 - ■ ■ K1**	
	352	200	4.12	6 100	0.81	111	**2KJ4003 - ■ HJ21 - ■ ■ J1**	
	384	187	3.78	6 100	1.1	111	**2KJ4003 - ■ HJ21 - ■ ■ H1**	
	439	163	3.3	6 100	1.2	111	**2KJ4003 - ■ HJ21 - ■ ■ G1**	
	492	146	2.95	6 100	1.4	111	**2KJ4003 - ■ HJ21 - ■ ■ F1**	
	562	127	2.58	6 100	1.5	111	**2KJ4003 - ■ HJ21 - ■ ■ E1**	
	653	110	2.22	6 100	1.8	111	**2KJ4003 - ■ HJ21 - ■ ■ D1**	
	740	97	1.96	6 100	2.0	111	**2KJ4003 - ■ HJ21 - ■ ■ C1**	
	868	82	1.67	6 100	2.4	111	**2KJ4003 - ■ HJ21 - ■ ■ B1**	
	1 014	71	1.43	6 100	2.8	111	**2KJ4003 - ■ HJ21 - ■ ■ A1**	
	Z.69-LHN132MKA4							
	104	690	14	8 900	0.87	115	**2KJ4106 - ■ HJ21 - ■ ■ K1**	
	118	605	12.31	8 800	0.99	115	**2KJ4106 - ■ HJ21 - ■ ■ J1**	
	140	510	10.39	8 500	1.2	115	**2KJ4106 - ■ HJ21 - ■ ■ H1**	
	160	445	9.05	8 200	1.3	115	**2KJ4106 - ■ HJ21 - ■ ■ G1**	
	171	420	8.5	8 100	1.1	115	**2KJ4106 - ■ HJ21 - ■ ■ F1**	
	201	355	7.23	7 800	1.3	115	**2KJ4106 - ■ HJ21 - ■ ■ E1**	
	234	305	6.2	7 500	1.5	115	**2KJ4106 - ■ HJ21 - ■ ■ D1**	
	266	265	5.45	6 100	1.6	115	**2KJ4106 - ■ HJ21 - ■ ■ C1**	
	315	225	4.6	6 400	2.0	115	**2KJ4106 - ■ HJ21 - ■ ■ B1**	
	362	198	4.01	6 500	2.2	115	**2KJ4106 - ■ HJ21 - ■ ■ A1**	
	Z.79-LHN132MKA4							
	75	955	19.33	11 600	0.88	125	**2KJ4107 - ■ HJ21 - ■ ■ N1**	
	84	855	17.31	11 400	0.98	125	**2KJ4107 - ■ HJ21 - ■ ■ M1**	
	96	745	15.13	11 100	1.1	125	**2KJ4107 - ■ HJ21 - ■ ■ L1**	
	112	640	12.99	10 700	1.3	125	**2KJ4107 - ■ HJ21 - ■ ■ K1**	
	126	565	11.48	10 500	1.5	125	**2KJ4107 - ■ HJ21 - ■ ■ J1**	
	149	480	9.76	10 100	1.7	125	**2KJ4107 - ■ HJ21 - ■ ■ H1**	
	173	410	8.37	7 800	1.9	125	**2KJ4107 - ■ HJ21 - ■ ■ G1**	
	177	405	8.19	6 400	1.8	125	**2KJ4107 - ■ HJ21 - ■ ■ F1**	
	203	350	7.16	6 800	2.1	125	**2KJ4107 - ■ HJ21 - ■ ■ E1**	
	236	300	6.15	7 100	2.4	125	**2KJ4107 - ■ HJ21 - ■ ■ D1**	
	267	265	5.43	7 200	2.6	125	**2KJ4107 - ■ HJ21 - ■ ■ C1**	
	314	225	4.62	7 300	3.4	125	**2KJ4107 - ■ HJ21 - ■ ■ B1**	
	366	196	3.96	7 300	4.0	125	**2KJ4107 - ■ HJ21 - ■ ■ A1**	
	E.89-LHN132MKA4							
	258	275	5.62	8 000	1.2	125	**2KJ4004 - ■ HJ21 - ■ ■ N1**	
	274	260	5.29	8 000	0.8	125	**2KJ4004 - ■ HJ21 - ■ ■ M1**	
	297	240	4.89	8 000	1.5	125	**2KJ4004 - ■ HJ21 - ■ ■ L1**	
	333	215	4.35	8 000	1.7	125	**2KJ4004 - ■ HJ21 - ■ ■ K1**	
	376	191	3.86	8 000	1.9	125	**2KJ4004 - ■ HJ21 - ■ ■ J1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**E.89-LHN132MKA4**							
	419	171	3.46	8 000	2.1	125	**2KJ4004 - ■ HJ21 - ■ ■ H1**	
	490	146	2.96	8 000	2.5	125	**2KJ4004 - ■ HJ21 - ■ ■ G1**	
	549	130	2.64	8 000	2.8	125	**2KJ4004 - ■ HJ21 - ■ ■ F1**	
	622	115	2.33	8 000	3.1	125	**2KJ4004 - ■ HJ21 - ■ ■ E1**	
	707	101	2.05	7 700	3.6	125	**2KJ4004 - ■ HJ21 - ■ ■ D1**	
	815	88	1.78	7 400	4.2	125	**2KJ4004 - ■ HJ21 - ■ ■ C1**	
	954	75	1.52	7 100	4.8	125	**2KJ4004 - ■ HJ21 - ■ ■ B1**	
	1 115	64	1.3	6 900	5.6	125	**2KJ4004 - ■ HJ21 - ■ ■ A1**	
	Z.89-LHN132MKA4							
	37	1 940	39.41	18 500	0.86	147	**2KJ4108 - ■ HJ21 - ■ ■ U1**	
	43	1 640	33.38	18 500	1.0	147	**2KJ4108 - ■ HJ21 - ■ ■ T1**	
	46	1 550	31.41	18 500	1.1	147	**2KJ4108 - ■ HJ21 - ■ ■ S1**	
	50	1 430	29.01	18 500	1.2	147	**2KJ4108 - ■ HJ21 - ■ ■ R1**	
	56	1 270	25.81	18 500	1.3	147	**2KJ4108 - ■ HJ21 - ■ ■ Q1**	
	63	1 130	22.92	18 500	1.5	147	**2KJ4108 - ■ HJ21 - ■ ■ P1**	
	71	1 010	20.52	18 500	1.7	147	**2KJ4108 - ■ HJ21 - ■ ■ N1**	
	83	865	17.54	18 400	1.9	147	**2KJ4108 - ■ HJ21 - ■ ■ M1**	
	93	770	15.66	17 900	2.2	147	**2KJ4108 - ■ HJ21 - ■ ■ L1**	
	105	680	13.84	17 300	2.5	147	**2KJ4108 - ■ HJ21 - ■ ■ K1**	
	119	600	12.15	16 800	2.7	147	**2KJ4108 - ■ HJ21 - ■ ■ J1**	
	137	520	10.58	16 100	3.0	147	**2KJ4108 - ■ HJ21 - ■ ■ H1**	
	160	445	9.04	15 500	3.5	147	**2KJ4108 - ■ HJ21 - ■ ■ G1**	
	187	380	7.74	14 800	4.0	147	**2KJ4108 - ■ HJ21 - ■ ■ F1**	
	210	340	6.89	14 400	3.1	147	**2KJ4108 - ■ HJ21 - ■ ■ E1**	
	240	295	6.05	13 900	3.5	147	**2KJ4108 - ■ HJ21 - ■ ■ D1**	
	276	260	5.26	13 300	4.1	147	**2KJ4108 - ■ HJ21 - ■ ■ C1**	
	322	220	4.5	12 700	4.8	147	**2KJ4108 - ■ HJ21 - ■ ■ B1**	
	D.109-LHN132MKA4							
	20	3 650	73.9	20 200	0.85	189	**2KJ4210 - ■ HJ21 - ■ ■ D1**	
	23	3 170	64.34	20 200	0.98	189	**2KJ4210 - ■ HJ21 - ■ ■ C1**	
	E.109-LHN132MKA4							
	202	355	7.19	10 500	1.6	148	**2KJ4005 - ■ HJ21 - ■ ■ Q1**	
	214	330	6.76	10 500	1.7	148	**2KJ4005 - ■ HJ21 - ■ ■ P1**	
	231	310	6.28	10 500	1.8	148	**2KJ4005 - ■ HJ21 - ■ ■ N1**	
	261	270	5.55	10 500	2.0	148	**2KJ4005 - ■ HJ21 - ■ ■ M1**	
	293	245	4.95	10 500	2.3	148	**2KJ4005 - ■ HJ21 - ■ ■ L1**	
	325	220	4.46	10 500	2.5	148	**2KJ4005 - ■ HJ21 - ■ ■ K1**	
	375	191	3.87	10 500	2.9	148	**2KJ4005 - ■ HJ21 - ■ ■ J1**	
	417	172	3.48	10 500	3.2	148	**2KJ4005 - ■ HJ21 - ■ ■ H1**	
	477	150	3.04	10 500	3.6	148	**2KJ4005 - ■ HJ21 - ■ ■ G1**	
	535	134	2.71	10 500	4.1	148	**2KJ4005 - ■ HJ21 - ■ ■ F1**	
	607	118	2.39	10 500	4.6	148	**2KJ4005 - ■ HJ21 - ■ ■ E1**	
	690	104	2.1	10 500	5.2	148	**2KJ4005 - ■ HJ21 - ■ ■ D1**	
	792	90	1.83	10 100	5.9	148	**2KJ4005 - ■ HJ21 - ■ ■ C1**	
	868	82	1.67	9 900	6.4	148	**2KJ4005 - ■ HJ21 - ■ ■ B1**	
	1 014	71	1.43	9 500	6.6	148	**2KJ4005 - ■ HJ21 - ■ ■ A1**	
	Z.109-LHN132MKA4							
	28	2 520	51.17	20 200	1.2	187	**2KJ4110 - ■ HJ21 - ■ ■ X1**	
	33	2 150	43.64	20 200	1.4	187	**2KJ4110 - ■ HJ21 - ■ ■ W1**	

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**Z.109-LHN132MKA4**							
	35	2 020	41.07	20 200	1.5	187	**2KJ4110 - ■ HJ21 - ■ ■ V1**	
	38	1 880	38.12	20 200	1.6	187	**2KJ4110 - ■ HJ21 - ■ ■ U1**	
	43	1 660	33.7	20 200	1.9	187	**2KJ4110 - ■ HJ21 - ■ ■ T1**	
	48	1 480	30.08	20 200	2.1	187	**2KJ4110 - ■ HJ21 - ■ ■ S1**	
	54	1 330	27.07	20 200	2.3	187	**2KJ4110 - ■ HJ21 - ■ ■ R1**	
	62	1 160	23.49	20 200	2.5	187	**2KJ4110 - ■ HJ21 - ■ ■ Q1**	
	69	1 040	21.13	20 200	2.7	187	**2KJ4110 - ■ HJ21 - ■ ■ P1**	
	79	910	18.47	20 200	3.0	187	**2KJ4110 - ■ HJ21 - ■ ■ N1**	
	88	810	16.48	20 200	3.2	187	**2KJ4110 - ■ HJ21 - ■ ■ M1**	
	D.129-LHN132MKA4							
	13	5 640	114.36	26 600	0.89	253	**2KJ4211 - ■ HJ21 - ■ ■ F1**	
	14	5 040	102.05	27 000	0.99	253	**2KJ4211 - ■ HJ21 - ■ ■ E1**	
	16	4 440	89.91	27 300	1.1	253	**2KJ4211 - ■ HJ21 - ■ ■ D1**	
	18	3 890	78.78	27 700	1.3	253	**2KJ4211 - ■ HJ21 - ■ ■ C1**	
	E.129-LHN132MKA4							
	148	480	9.79	13 500	1.4	173	**2KJ4006 - ■ HJ21 - ■ ■ T1**	
	173	410	8.38	13 500	1.6	173	**2KJ4006 - ■ HJ21 - ■ ■ S1**	
	184	385	7.88	13 500	1.7	173	**2KJ4006 - ■ HJ21 - ■ ■ R1**	
	196	365	7.39	13 500	2.2	173	**2KJ4006 - ■ HJ21 - ■ ■ Q1**	
	221	320	6.55	13 500	2.5	173	**2KJ4006 - ■ HJ21 - ■ ■ P1**	
	249	285	5.82	13 500	2.8	173	**2KJ4006 - ■ HJ21 - ■ ■ N1**	
	276	255	5.25	13 500	3.1	173	**2KJ4006 - ■ HJ21 - ■ ■ M1**	
	312	230	4.65	13 500	3.5	173	**2KJ4006 - ■ HJ21 - ■ ■ L1**	
	352	200	4.12	13 500	3.9	173	**2KJ4006 - ■ HJ21 - ■ ■ K1**	
	395	181	3.67	13 500	4.3	173	**2KJ4006 - ■ HJ21 - ■ ■ J1**	
	441	163	3.29	13 300	4.8	173	**2KJ4006 - ■ HJ21 - ■ ■ H1**	
	498	144	2.91	12 900	5.4	173	**2KJ4006 - ■ HJ21 - ■ ■ G1**	
	Z.129-LHN132MKA4							
	23	3 080	62.48	28 100	1.6	249	**2KJ4111 - ■ HJ21 - ■ ■ X1**	
	27	2 640	53.47	28 400	1.9	249	**2KJ4111 - ■ HJ21 - ■ ■ W1**	
	29	2 480	50.33	28 500	2.0	249	**2KJ4111 - ■ HJ21 - ■ ■ V1**	
	31	2 330	47.18	28 600	2.1	249	**2KJ4111 - ■ HJ21 - ■ ■ U1**	
	35	2 060	41.82	28 700	2.4	249	**2KJ4111 - ■ HJ21 - ■ ■ T1**	
	39	1 830	37.15	28 900	2.7	249	**2KJ4111 - ■ HJ21 - ■ ■ S1**	
	D.149-LHN132MKA4							
	7.4	9 640	195.24	50 400	0.83	338	**2KJ4212 - ■ HJ21 - ■ ■ R1**	
	8.2	8 700	176.18	50 800	0.92	338	**2KJ4212 - ■ HJ21 - ■ ■ Q1**	
	9.3	7 710	156.11	51 300	1.0	338	**2KJ4212 - ■ HJ21 - ■ ■ P1**	
	10	6 830	138.26	51 700	1.2	338	**2KJ4212 - ■ HJ21 - ■ ■ N1**	
	12	6 070	123.04	52 100	1.3	338	**2KJ4212 - ■ HJ21 - ■ ■ M1**	
	13	5 440	110.26	52 400	1.5	338	**2KJ4212 - ■ HJ21 - ■ ■ L1**	
	15	4 820	97.75	52 700	1.7	338	**2KJ4212 - ■ HJ21 - ■ ■ K1**	
	17	4 260	86.29	53 000	1.9	338	**2KJ4212 - ■ HJ21 - ■ ■ J1**	
	19	3 740	75.87	53 200	2.1	338	**2KJ4212 - ■ HJ21 - ■ ■ H1**	
	21	3 390	68.71	53 400	2.4	338	**2KJ4212 - ■ HJ21 - ■ ■ G1**	
	E.149-LHN132MKA4							
	149	480	9.76	16 000	2.5	211	**2KJ4007 - ■ HJ21 - ■ ■ S1**	
	159	450	9.11	16 000	2.8	211	**2KJ4007 - ■ HJ21 - ■ ■ R1**	
	179	400	8.1	16 000	3.3	211	**2KJ4007 - ■ HJ21 - ■ ■ Q1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
7.5	**E.149-LHN132MKA4**							
	199	355	7.27	16 000	3.8	211	**2KJ4007 - ■ HJ21 - ■ ■ P1**	
	220	325	6.58	16 000	4.1	211	**2KJ4007 - ■ HJ21 - ■ ■ N1**	
	D.169-LHN132MKA4							
	4.4	16 100	327.18	69 300	0.87	516	**2KJ4213 - ■ HJ21 - ■ ■ V1**	
	4.7	15 000	305.28	69 700	0.93	516	**2KJ4213 - ■ HJ21 - ■ ■ U1**	
	5.3	13 400	271.4	70 400	1.0	516	**2KJ4213 - ■ HJ21 - ■ ■ T1**	
	6	12 000	243.68	70 900	1.2	516	**2KJ4213 - ■ HJ21 - ■ ■ S1**	
	6.6	10 800	220.58	71 300	1.3	516	**2KJ4213 - ■ HJ21 - ■ ■ R1**	
	7.5	9 570	193.75	71 800	1.5	516	**2KJ4213 - ■ HJ21 - ■ ■ Q1**	
	8.3	8 670	175.57	72 100	1.6	516	**2KJ4213 - ■ HJ21 - ■ ■ P1**	
	9.3	7 720	156.36	72 500	1.8	516	**2KJ4213 - ■ HJ21 - ■ ■ N1**	
	10	6 930	140.41	72 800	2.0	516	**2KJ4213 - ■ HJ21 - ■ ■ M1**	
	D.189-LHN132MKA4							
	4.6	15 400	313.63	107 000	1.2	729	**2KJ4214 - ■ HJ21 - ■ ■ T1**	
	5.2	13 800	280.59	107 000	1.4	729	**2KJ4214 - ■ HJ21 - ■ ■ S1**	
	5.7	12 500	253.06	107 000	1.5	729	**2KJ4214 - ■ HJ21 - ■ ■ R1**	
	6.5	11 000	223.66	107 000	1.7	729	**2KJ4214 - ■ HJ21 - ■ ■ Q1**	
	7.1	10 000	204.44	107 000	1.9	729	**2KJ4214 - ■ HJ21 - ■ ■ P1**	
	7.9	9 080	183.92	107 000	2.1	729	**2KJ4214 - ■ HJ21 - ■ ■ N1**	
	D.169-Z69-LHN132MKA4							
	4	17 000	364	69 000	0.82	547	**2KJ4242 - ■ HJ21 - ■ ■ A1**	
	D.189-Z69-LHN132MKA4							
	3.3	20 500	438	107 000	0.93	760	**2KJ4244 - ■ HJ21 - ■ ■ B1**	
	3.8	17 800	382	107 000	1.1	760	**2KJ4244 - ■ HJ21 - ■ ■ A1**	
9.2	**E.49-LHN132MKB4**							
	556	158	2.6	0	0.65	104	**2KJ4002 - ■ HT21 - ■ ■ E1**	
	Z.49-LHN132MKB4							
	313	280	4.62	2 300	0.8	108	**2KJ4104 - ■ HT21 - ■ ■ C1**	
	371	235	3.9	2 300	0.86	108	**2KJ4104 - ■ HT21 - ■ ■ B1**	
	425	205	3.4	2 300	0.92	108	**2KJ4104 - ■ HT21 - ■ ■ A1**	
	Z.59-LHN132MKB4							
	171	510	8.46	3 200	0.87	110	**2KJ4105 - ■ HT21 - ■ ■ G1**	
	179	490	8.07	3 100	0.84	110	**2KJ4105 - ■ HT21 - ■ ■ F1**	
	211	415	6.86	3 100	0.98	110	**2KJ4105 - ■ HT21 - ■ ■ E1**	
	246	355	5.88	3 100	1.1	110	**2KJ4105 - ■ HT21 - ■ ■ D1**	
	279	310	5.17	3 100	1.3	110	**2KJ4105 - ■ HT21 - ■ ■ C1**	
	331	265	4.36	3 100	1.5	110	**2KJ4105 - ■ HT21 - ■ ■ B1**	
	380	230	3.8	1 900	1.8	110	**2KJ4105 - ■ HT21 - ■ ■ A1**	
	E.69-LHN132MKB4							
	382	230	3.78	6 000	0.87	111	**2KJ4003 - ■ HT21 - ■ ■ H1**	
	438	200	3.3	6 100	1.0	111	**2KJ4003 - ■ HT21 - ■ ■ G1**	
	490	179	2.95	6 100	1.1	111	**2KJ4003 - ■ HT21 - ■ ■ F1**	
	651	135	2.22	6 100	1.5	111	**2KJ4003 - ■ HT21 - ■ ■ D1**	
	737	119	1.96	6 100	1.6	111	**2KJ4003 - ■ HT21 - ■ ■ C1**	
	865	102	1.67	6 000	1.9	111	**2KJ4003 - ■ HT21 - ■ ■ B1**	
	1 010	87	1.43	5 900	2.2	111	**2KJ4003 - ■ HT21 - ■ ■ A1**	
	Z.69-LHN132MKB4							
	117	745	12.31	8 300	0.8	115	**2KJ4106 - ■ HT21 - ■ ■ J1**	
	139	630	10.39	8 100	0.95	115	**2KJ4106 - ■ HT21 - ■ ■ H1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
9.2	**Z.69-LHN132MKB4**							
	160	550	9.05	7 900	1.1	115	**2KJ4106 - ■ HT21 - ■ ■ G1**	
	170	515	8.5	7 800	0.86	115	**2KJ4106 - ■ HT21 - ■ ■ F1**	
	200	440	7.23	7 500	1.0	115	**2KJ4106 - ■ HT21 - ■ ■ E1**	
	233	375	6.2	7 300	1.2	115	**2KJ4106 - ■ HT21 - ■ ■ D1**	
	265	330	5.45	7 100	1.3	115	**2KJ4106 - ■ HT21 - ■ ■ C1**	
	314	280	4.6	6 800	1.6	115	**2KJ4106 - ■ HT21 - ■ ■ B1**	
	360	240	4.01	5 500	1.8	115	**2KJ4106 - ■ HT21 - ■ ■ A1**	
	Z.79-LHN132MKB4							
	83	1 050	17.31	10 800	0.8	125	**2KJ4107 - ■ HT21 - ■ ■ M1**	
	96	920	15.13	10 600	0.91	125	**2KJ4107 - ■ HT21 - ■ ■ L1**	
	111	790	12.99	10 300	1.1	125	**2KJ4107 - ■ HT21 - ■ ■ K1**	
	126	695	11.48	10 100	1.2	125	**2KJ4107 - ■ HT21 - ■ ■ J1**	
	148	590	9.76	9 800	1.4	125	**2KJ4107 - ■ HT21 - ■ ■ H1**	
	173	505	8.37	6 400	1.6	125	**2KJ4107 - ■ HT21 - ■ ■ G1**	
	176	495	8.19	4 800	1.4	125	**2KJ4107 - ■ HT21 - ■ ■ F1**	
	202	435	7.16	5 300	1.7	125	**2KJ4107 - ■ HT21 - ■ ■ E1**	
	235	370	6.15	5 800	1.9	125	**2KJ4107 - ■ HT21 - ■ ■ D1**	
	266	330	5.43	6 000	2.1	125	**2KJ4107 - ■ HT21 - ■ ■ C1**	
	313	280	4.62	6 300	2.8	125	**2KJ4107 - ■ HT21 - ■ ■ B1**	
	365	240	3.96	6 500	3.2	125	**2KJ4107 - ■ HT21 - ■ ■ A1**	
	E.89-LHN132MKB4							
	257	340	5.62	8 000	0.94	125	**2KJ4004 - ■ HT21 - ■ ■ N1**	
	296	295	4.89	8 000	1.2	125	**2KJ4004 - ■ HT21 - ■ ■ L1**	
	332	260	4.35	8 000	1.4	125	**2KJ4004 - ■ HT21 - ■ ■ K1**	
	374	235	3.86	8 000	1.5	125	**2KJ4004 - ■ HT21 - ■ ■ J1**	
	418	210	3.46	8 000	1.7	125	**2KJ4004 - ■ HT21 - ■ ■ H1**	
	488	180	2.96	8 000	2.0	125	**2KJ4004 - ■ HT21 - ■ ■ G1**	
	547	161	2.64	8 000	2.2	125	**2KJ4004 - ■ HT21 - ■ ■ F1**	
	620	142	2.33	7 800	2.5	125	**2KJ4004 - ■ HT21 - ■ ■ E1**	
	705	125	2.05	7 600	2.9	125	**2KJ4004 - ■ HT21 - ■ ■ D1**	
	812	108	1.78	7 300	3.4	125	**2KJ4004 - ■ HT21 - ■ ■ C1**	
	951	92	1.52	7 000	3.9	125	**2KJ4004 - ■ HT21 - ■ ■ B1**	
	1 112	79	1.3	6 700	4.6	125	**2KJ4004 - ■ HT21 - ■ ■ A1**	
	Z.89-LHN132MKB4							
	43	2 030	33.38	18 300	0.83	147	**2KJ4108 - ■ HT21 - ■ ■ T1**	
	46	1 910	31.41	18 500	0.88	147	**2KJ4108 - ■ HT21 - ■ ■ S1**	
	50	1 760	29.01	18 500	0.95	147	**2KJ4108 - ■ HT21 - ■ ■ R1**	
	56	1 560	25.81	18 500	1.1	147	**2KJ4108 - ■ HT21 - ■ ■ Q1**	
	63	1 390	22.92	18 500	1.2	147	**2KJ4108 - ■ HT21 - ■ ■ P1**	
	70	1 240	20.52	18 500	1.3	147	**2KJ4108 - ■ HT21 - ■ ■ N1**	
	82	1 060	17.54	17 900	1.6	147	**2KJ4108 - ■ HT21 - ■ ■ M1**	
	92	950	15.66	17 400	1.8	147	**2KJ4108 - ■ HT21 - ■ ■ L1**	
	104	840	13.84	16 900	2.0	147	**2KJ4108 - ■ HT21 - ■ ■ K1**	
	119	735	12.15	16 400	2.2	147	**2KJ4108 - ■ HT21 - ■ ■ J1**	
	137	640	10.58	15 800	2.5	147	**2KJ4108 - ■ HT21 - ■ ■ H1**	
	160	550	9.04	15 200	2.8	147	**2KJ4108 - ■ HT21 - ■ ■ G1**	
	187	470	7.74	14 600	3.3	147	**2KJ4108 - ■ HT21 - ■ ■ F1**	
	210	415	6.89	14 200	2.5	147	**2KJ4108 - ■ HT21 - ■ ■ E1**	
	239	365	6.05	13 700	2.9	147	**2KJ4108 - ■ HT21 - ■ ■ D1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**Z.89-LHN132MKB4**							
	275	320	5.26	13 100	3.3	147	**2KJ4108 - ■ HT21 - ■ ■ C1**	
	321	270	4.5	12 600	3.9	147	**2KJ4108 - ■ HT21 - ■ ■ B1**	
	375	230	3.85	12 000	4.5	147	**2KJ4108 - ■ HT21 - ■ ■ A1**	
	E.109-LHN132MKB4							
	201	435	7.19	10 500	1.3	148	**2KJ4005 - ■ HT21 - ■ ■ Q1**	
	214	410	6.76	10 500	1.4	148	**2KJ4005 - ■ HT21 - ■ ■ P1**	
	230	380	6.28	10 500	1.5	148	**2KJ4005 - ■ HT21 - ■ ■ N1**	
	260	335	5.55	10 500	1.7	148	**2KJ4005 - ■ HT21 - ■ ■ M1**	
	292	300	4.95	10 500	1.9	148	**2KJ4005 - ■ HT21 - ■ ■ L1**	
	324	270	4.46	10 500	2.1	148	**2KJ4005 - ■ HT21 - ■ ■ K1**	
	373	235	3.87	10 500	2.4	148	**2KJ4005 - ■ HT21 - ■ ■ J1**	
	415	210	3.48	10 500	2.6	148	**2KJ4005 - ■ HT21 - ■ ■ H1**	
	475	185	3.04	10 500	2.9	148	**2KJ4005 - ■ HT21 - ■ ■ G1**	
	533	165	2.71	10 500	3.3	148	**2KJ4005 - ■ HT21 - ■ ■ F1**	
	605	145	2.39	10 500	3.7	148	**2KJ4005 - ■ HT21 - ■ ■ E1**	
	688	128	2.1	10 400	4.2	148	**2KJ4005 - ■ HT21 - ■ ■ D1**	
	790	111	1.83	10 000	4.8	148	**2KJ4005 - ■ HT21 - ■ ■ C1**	
	865	102	1.67	9 800	5.2	148	**2KJ4005 - ■ HT21 - ■ ■ B1**	
	1 010	87	1.43	9 400	5.3	148	**2KJ4005 - ■ HT21 - ■ ■ A1**	
	Z.109-LHN132MKB4							
	28	3 110	51.17	20 200	1.0	187	**2KJ4110 - ■ HT21 - ■ ■ X1**	
	33	2 650	43.64	20 200	1.2	187	**2KJ4110 - ■ HT21 - ■ ■ W1**	
	35	2 490	41.07	20 200	1.2	187	**2KJ4110 - ■ HT21 - ■ ■ V1**	
	38	2 310	38.12	20 200	1.3	187	**2KJ4110 - ■ HT21 - ■ ■ U1**	
	43	2 040	33.7	20 200	1.5	187	**2KJ4110 - ■ HT21 - ■ ■ T1**	
	48	1 820	30.08	20 200	1.7	187	**2KJ4110 - ■ HT21 - ■ ■ S1**	
	53	1 640	27.07	20 200	1.8	187	**2KJ4110 - ■ HT21 - ■ ■ R1**	
	62	1 420	23.49	20 200	2.0	187	**2KJ4110 - ■ HT21 - ■ ■ Q1**	
	68	1 280	21.13	20 200	2.2	187	**2KJ4110 - ■ HT21 - ■ ■ P1**	
	78	1 120	18.47	20 200	2.4	187	**2KJ4110 - ■ HT21 - ■ ■ N1**	
	88	1 000	16.48	20 200	2.6	187	**2KJ4110 - ■ HT21 - ■ ■ M1**	
	100	880	14.52	19 900	2.9	187	**2KJ4110 - ■ HT21 - ■ ■ L1**	
	114	770	12.72	19 300	3.2	187	**2KJ4110 - ■ HT21 - ■ ■ K1**	
	130	670	11.09	18 700	3.6	187	**2KJ4110 - ■ HT21 - ■ ■ J1**	
	143	615	10.12	18 200	3.9	187	**2KJ4110 - ■ HT21 - ■ ■ H1**	
	D.129-LHN132MKB4							
	14	6 200	102.05	26 300	0.81	253	**2KJ4211 - ■ HT21 - ■ ■ E1**	
	16	5 460	89.91	26 700	0.91	253	**2KJ4211 - ■ HT21 - ■ ■ D1**	
	18	4 790	78.78	27 100	1.0	253	**2KJ4211 - ■ HT21 - ■ ■ C1**	
	E.129-LHN132MKB4							
	148	595	9.79	13 500	1.1	173	**2KJ4006 - ■ HT21 - ■ ■ T1**	
	172	510	8.38	13 500	1.3	173	**2KJ4006 - ■ HT21 - ■ ■ S1**	
	183	475	7.88	13 500	1.4	173	**2KJ4006 - ■ HT21 - ■ ■ R1**	
	196	445	7.39	13 500	1.8	173	**2KJ4006 - ■ HT21 - ■ ■ Q1**	
	221	395	6.55	13 500	2.0	173	**2KJ4006 - ■ HT21 - ■ ■ P1**	
	248	350	5.82	13 500	2.3	173	**2KJ4006 - ■ HT21 - ■ ■ N1**	
	275	315	5.25	13 500	2.5	173	**2KJ4006 - ■ HT21 - ■ ■ M1**	
	311	280	4.65	13 500	2.8	173	**2KJ4006 - ■ HT21 - ■ ■ L1**	
	351	250	4.12	13 500	3.1	173	**2KJ4006 - ■ HT21 - ■ ■ K1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**E.129-LHN132MKB4**							
	394	220	3.67	13 500	3.5	173	**2KJ4006 - ■ HT21 - ■ ■ J1**	
	439	200	3.29	13 100	3.9	173	**2KJ4006 - ■ HT21 - ■ ■ H1**	
	497	177	2.91	12 700	4.4	173	**2KJ4006 - ■ HT21 - ■ ■ G1**	
	562	156	2.57	12 300	4.9	173	**2KJ4006 - ■ HT21 - ■ ■ F1**	
	639	137	2.26	11 900	5.5	173	**2KJ4006 - ■ HT21 - ■ ■ E1**	
	705	125	2.05	11 600	6.1	173	**2KJ4006 - ■ HT21 - ■ ■ D1**	
	Z.129-LHN132MKB4							
	23	3 790	62.48	27 700	1.3	249	**2KJ4111 - ■ HT21 - ■ ■ X1**	
	27	3 250	53.47	28 000	1.5	249	**2KJ4111 - ■ HT21 - ■ ■ W1**	
	29	3 060	50.33	28 200	1.6	249	**2KJ4111 - ■ HT21 - ■ ■ V1**	
	31	2 860	47.18	28 300	1.7	249	**2KJ4111 - ■ HT21 - ■ ■ U1**	
	35	2 540	41.82	28 500	2.0	249	**2KJ4111 - ■ HT21 - ■ ■ T1**	
	39	2 250	37.15	28 600	2.2	249	**2KJ4111 - ■ HT21 - ■ ■ S1**	
	43	2 030	33.52	28 800	2.5	249	**2KJ4111 - ■ HT21 - ■ ■ R1**	
	49	1 800	29.7	28 900	2.8	249	**2KJ4111 - ■ HT21 - ■ ■ Q1**	
	D.149-LHN132MKB4							
	9.3	9 490	156.11	50 400	0.84	338	**2KJ4212 - ■ HT21 - ■ ■ P1**	
	10	8 400	138.26	51 000	0.95	338	**2KJ4212 - ■ HT21 - ■ ■ N1**	
	12	7 480	123.04	51 400	1.1	338	**2KJ4212 - ■ HT21 - ■ ■ M1**	
	13	6 700	110.26	51 800	1.2	338	**2KJ4212 - ■ HT21 - ■ ■ L1**	
	15	5 940	97.75	52 100	1.3	338	**2KJ4212 - ■ HT21 - ■ ■ K1**	
	17	5 240	86.29	52 500	1.5	338	**2KJ4212 - ■ HT21 - ■ ■ J1**	
	19	4 610	75.87	52 800	1.7	338	**2KJ4212 - ■ HT21 - ■ ■ H1**	
	21	4 170	68.71	53 000	1.9	338	**2KJ4212 - ■ HT21 - ■ ■ G1**	
	E.149-LHN132MKB4							
	148	590	9.76	16 000	2.0	211	**2KJ4007 - ■ HT21 - ■ ■ S1**	
	159	550	9.11	16 000	2.3	211	**2KJ4007 - ■ HT21 - ■ ■ R1**	
	178	490	8.1	16 000	2.7	211	**2KJ4007 - ■ HT21 - ■ ■ Q1**	
	199	440	7.27	16 000	3.1	211	**2KJ4007 - ■ HT21 - ■ ■ P1**	
	220	400	6.58	16 000	3.3	211	**2KJ4007 - ■ HT21 - ■ ■ N1**	
	250	350	5.78	16 000	4.2	211	**2KJ4007 - ■ HT21 - ■ ■ M1**	
	276	315	5.24	16 000	4.7	211	**2KJ4007 - ■ HT21 - ■ ■ L1**	
	Z.149-LHN132MKB4							
	26	3 440	56.64	53 300	2.3	331	**2KJ4112 - ■ HT21 - ■ ■ W1**	
	27	3 210	52.84	53 500	2.4	331	**2KJ4112 - ■ HT21 - ■ ■ V1**	
	D.169-LHN132MKB4							
	5.3	16 500	271.4	69 200	0.85	516	**2KJ4213 - ■ HT21 - ■ ■ T1**	
	5.9	14 800	243.68	69 800	0.94	516	**2KJ4213 - ■ HT21 - ■ ■ S1**	
	6.6	13 400	220.58	70 400	1.0	516	**2KJ4213 - ■ HT21 - ■ ■ R1**	
	7.5	11 700	193.75	71 000	1.2	516	**2KJ4213 - ■ HT21 - ■ ■ Q1**	
	8.2	10 600	175.57	71 400	1.3	516	**2KJ4213 - ■ HT21 - ■ ■ P1**	
	9.2	9 500	156.36	71 800	1.5	516	**2KJ4213 - ■ HT21 - ■ ■ N1**	
	10	8 530	140.41	72 200	1.6	516	**2KJ4213 - ■ HT21 - ■ ■ M1**	
	12	7 610	125.28	72 500	1.8	516	**2KJ4213 - ■ HT21 - ■ ■ L1**	
	13	6 790	111.69	72 800	2.1	516	**2KJ4213 - ■ HT21 - ■ ■ K1**	
	D.189-LHN132MKB4							
	4.6	19 000	313.63	107 000	1.0	729	**2KJ4214 - ■ HT21 - ■ ■ T1**	
	5.1	17 000	280.59	107 000	1.1	729	**2KJ4214 - ■ HT21 - ■ ■ S1**	
	5.7	15 300	253.06	107 000	1.2	729	**2KJ4214 - ■ HT21 - ■ ■ R1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
9.2	**D.189-LHN132MKB4**							
	6.5	13 500	223.66	107 000	1.4	729	**2KJ4214 - ■ HT21 - ■ ■ Q1**	
	7.1	12 400	204.44	107 000	1.5	729	**2KJ4214 - ■ HT21 - ■ ■ P1**	
	7.9	11 100	183.92	107 000	1.7	729	**2KJ4214 - ■ HT21 - ■ ■ N1**	
	8.8	9 990	164.36	107 000	1.9	729	**2KJ4214 - ■ HT21 - ■ ■ M1**	
	9.7	9 030	148.63	107 000	2.1	729	**2KJ4214 - ■ HT21 - ■ ■ L1**	
	D.189-Z69-LHN132MKB4							
	3.8	22 000	382	107 000	0.86	760	**2KJ4244 - ■ HT21 - ■ ■ A1**	
11	**E.69-LHN160MK4**							
	441	235	3.3	5 200	0.84	153	**2KJ4003 - ■ JQ21 - ■ ■ G1**	
	493	210	2.95	5 400	0.94	153	**2KJ4003 - ■ JQ21 - ■ ■ F1**	
	871	121	1.67	5 400	1.6	153	**2KJ4003 - ■ JQ21 - ■ ■ B1**	
	1 017	103	1.43	5 300	1.9	153	**2KJ4003 - ■ JQ21 - ■ ■ A1**	
	Z.79-LHN160MK4							
	112	935	12.99	9 800	0.9	169	**2KJ4107 - ■ JQ21 - ■ ■ K1**	
	127	825	11.48	9 700	1.0	169	**2KJ4107 - ■ JQ21 - ■ ■ J1**	
	149	705	9.76	9 400	1.2	169	**2KJ4107 - ■ JQ21 - ■ ■ H1**	
	174	600	8.37	9 100	1.3	169	**2KJ4107 - ■ JQ21 - ■ ■ G1**	
	178	590	8.19	8 900	1.2	169	**2KJ4107 - ■ JQ21 - ■ ■ F1**	
	203	515	7.16	8 600	1.4	169	**2KJ4107 - ■ JQ21 - ■ ■ E1**	
	237	440	6.15	4 500	1.6	169	**2KJ4107 - ■ JQ21 - ■ ■ D1**	
	268	390	5.43	4 900	1.7	169	**2KJ4107 - ■ JQ21 - ■ ■ C1**	
	315	330	4.62	5 400	2.3	169	**2KJ4107 - ■ JQ21 - ■ ■ B1**	
	367	285	3.96	5 600	2.7	169	**2KJ4107 - ■ JQ21 - ■ ■ A1**	
	E.89-LHN160MK4							
	298	350	4.89	8 000	1.0	170	**2KJ4004 - ■ JQ21 - ■ ■ L1**	
	334	310	4.35	8 000	1.1	170	**2KJ4004 - ■ JQ21 - ■ ■ K1**	
	377	275	3.86	8 000	1.3	170	**2KJ4004 - ■ JQ21 - ■ ■ J1**	
	421	250	3.46	8 000	1.5	170	**2KJ4004 - ■ JQ21 - ■ ■ H1**	
	492	210	2.96	8 000	1.7	170	**2KJ4004 - ■ JQ21 - ■ ■ G1**	
	551	191	2.64	7 800	1.9	170	**2KJ4004 - ■ JQ21 - ■ ■ F1**	
	624	168	2.33	7 600	2.1	170	**2KJ4004 - ■ JQ21 - ■ ■ E1**	
	710	148	2.05	7 400	2.4	170	**2KJ4004 - ■ JQ21 - ■ ■ D1**	
	817	129	1.78	7 100	2.8	170	**2KJ4004 - ■ JQ21 - ■ ■ C1**	
	957	110	1.52	6 900	3.3	170	**2KJ4004 - ■ JQ21 - ■ ■ B1**	
	1 119	94	1.3	6 600	3.8	170	**2KJ4004 - ■ JQ21 - ■ ■ A1**	
	Z.89-LHN160MK4							
	50	2 090	29.01	15 500	0.8	192	**2KJ4108 - ■ JQ21 - ■ ■ R1**	
	56	1 860	25.81	16 800	0.9	192	**2KJ4108 - ■ JQ21 - ■ ■ Q1**	
	63	1 650	22.92	17 900	1.0	192	**2KJ4108 - ■ JQ21 - ■ ■ P1**	
	71	1 480	20.52	17 700	1.1	192	**2KJ4108 - ■ JQ21 - ■ ■ N1**	
	83	1 260	17.54	17 200	1.3	192	**2KJ4108 - ■ JQ21 - ■ ■ M1**	
	93	1 130	15.66	16 800	1.5	192	**2KJ4108 - ■ JQ21 - ■ ■ L1**	
	105	995	13.84	16 400	1.7	192	**2KJ4108 - ■ JQ21 - ■ ■ K1**	
	120	875	12.15	15 900	1.9	192	**2KJ4108 - ■ JQ21 - ■ ■ J1**	
	138	760	10.58	15 400	2.1	192	**2KJ4108 - ■ JQ21 - ■ ■ H1**	
	161	650	9.04	14 900	2.4	192	**2KJ4108 - ■ JQ21 - ■ ■ G1**	
	188	555	7.74	14 300	2.7	192	**2KJ4108 - ■ JQ21 - ■ ■ F1**	
	211	495	6.89	14 000	2.1	192	**2KJ4108 - ■ JQ21 - ■ ■ E1**	
	240	435	6.05	13 500	2.4	192	**2KJ4108 - ■ JQ21 - ■ ■ D1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
11	**Z.89-LHN160MK4**							
	277	380	5.26	13 000	2.8	192	**2KJ4108 - ■ JQ21 - ■ ■ C1**	
	323	325	4.5	12 400	3.3	192	**2KJ4108 - ■ JQ21 - ■ ■ B1**	
	378	275	3.85	11 800	3.8	192	**2KJ4108 - ■ JQ21 - ■ ■ A1**	
	E.109-LHN160MK4							
	202	515	7.19	10 500	1.1	192	**2KJ4005 - ■ JQ21 - ■ ■ Q1**	
	215	485	6.76	10 500	1.2	192	**2KJ4005 - ■ JQ21 - ■ ■ P1**	
	232	450	6.28	10 500	1.2	192	**2KJ4005 - ■ JQ21 - ■ ■ N1**	
	262	400	5.55	10 500	1.4	192	**2KJ4005 - ■ JQ21 - ■ ■ M1**	
	294	355	4.95	10 500	1.6	192	**2KJ4005 - ■ JQ21 - ■ ■ L1**	
	326	320	4.46	10 500	1.7	192	**2KJ4005 - ■ JQ21 - ■ ■ K1**	
	376	275	3.87	10 500	2.0	192	**2KJ4005 - ■ JQ21 - ■ ■ J1**	
	418	250	3.48	10 500	2.2	192	**2KJ4005 - ■ JQ21 - ■ ■ H1**	
	479	215	3.04	10 500	2.5	192	**2KJ4005 - ■ JQ21 - ■ ■ G1**	
	537	196	2.71	10 500	2.8	192	**2KJ4005 - ■ JQ21 - ■ ■ F1**	
	609	173	2.39	10 500	3.1	192	**2KJ4005 - ■ JQ21 - ■ ■ E1**	
	693	152	2.1	10 200	3.5	192	**2KJ4005 - ■ JQ21 - ■ ■ D1**	
	795	132	1.83	9 900	4.0	192	**2KJ4005 - ■ JQ21 - ■ ■ C1**	
	871	121	1.67	9 600	4.4	192	**2KJ4005 - ■ JQ21 - ■ ■ B1**	
	1 017	103	1.43	9 300	4.5	192	**2KJ4005 - ■ JQ21 - ■ ■ A1**	
	Z.109-LHN160MK4							
	28	3 690	51.17	20 100	0.84	230	**2KJ4110 - ■ JQ21 - ■ ■ X1**	
	33	3 150	43.64	20 200	0.98	230	**2KJ4110 - ■ JQ21 - ■ ■ W1**	
	35	2 960	41.07	20 200	1.0	230	**2KJ4110 - ■ JQ21 - ■ ■ V1**	
	38	2 750	38.12	20 200	1.1	230	**2KJ4110 - ■ JQ21 - ■ ■ U1**	
	43	2 430	33.7	20 200	1.3	230	**2KJ4110 - ■ JQ21 - ■ ■ T1**	
	48	2 170	30.08	20 200	1.4	230	**2KJ4110 - ■ JQ21 - ■ ■ S1**	
	54	1 950	27.07	20 200	1.6	230	**2KJ4110 - ■ JQ21 - ■ ■ R1**	
	62	1 690	23.49	20 200	1.7	230	**2KJ4110 - ■ JQ21 - ■ ■ Q1**	
	69	1 520	21.13	20 200	1.9	230	**2KJ4110 - ■ JQ21 - ■ ■ P1**	
	79	1 330	18.47	20 200	2.0	230	**2KJ4110 - ■ JQ21 - ■ ■ N1**	
	88	1 190	16.48	20 000	2.2	230	**2KJ4110 - ■ JQ21 - ■ ■ M1**	
	100	1 040	14.52	19 500	2.5	230	**2KJ4110 - ■ JQ21 - ■ ■ L1**	
	114	915	12.72	18 900	2.7	230	**2KJ4110 - ■ JQ21 - ■ ■ K1**	
	131	800	11.09	18 300	3.1	230	**2KJ4110 - ■ JQ21 - ■ ■ J1**	
	144	730	10.12	17 900	3.3	230	**2KJ4110 - ■ JQ21 - ■ ■ H1**	
	167	625	8.71	17 300	3.8	230	**2KJ4110 - ■ JQ21 - ■ ■ G1**	
	173	605	8.41	17 000	3.8	230	**2KJ4110 - ■ JQ21 - ■ ■ F1**	
	196	535	7.41	16 500	4.3	230	**2KJ4110 - ■ JQ21 - ■ ■ E1**	
	D.129-LHN160MK4							
	18	5 680	78.78	26 600	0.88	296	**2KJ4211 - ■ JQ21 - ■ ■ C1**	
	E.129-LHN160MK4							
	149	705	9.79	13 500	0.94	216	**2KJ4006 - ■ JQ21 - ■ ■ T1**	
	174	605	8.38	13 500	1.1	216	**2KJ4006 - ■ JQ21 - ■ ■ S1**	
	185	565	7.88	13 500	1.2	216	**2KJ4006 - ■ JQ21 - ■ ■ R1**	
	197	530	7.39	13 500	1.5	216	**2KJ4006 - ■ JQ21 - ■ ■ Q1**	
	222	470	6.55	13 500	1.7	216	**2KJ4006 - ■ JQ21 - ■ ■ P1**	
	250	420	5.82	13 500	1.9	216	**2KJ4006 - ■ JQ21 - ■ ■ N1**	
	277	375	5.25	13 500	2.1	216	**2KJ4006 - ■ JQ21 - ■ ■ M1**	
	313	335	4.65	13 500	2.4	216	**2KJ4006 - ■ JQ21 - ■ ■ L1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**E.129-LHN160MK4**							
	353	295	4.12	13 500	2.6	216	**2KJ4006 - ■ JQ21 - ■ ■ K1**	
	396	265	3.67	13 200	2.9	216	**2KJ4006 - ■ JQ21 - ■ ■ J1**	
	442	235	3.29	12 900	3.3	216	**2KJ4006 - ■ JQ21 - ■ ■ H1**	
	500	210	2.91	12 500	3.7	216	**2KJ4006 - ■ JQ21 - ■ ■ G1**	
	566	186	2.57	12 100	4.1	216	**2KJ4006 - ■ JQ21 - ■ ■ F1**	
	644	163	2.26	11 700	4.7	216	**2KJ4006 - ■ JQ21 - ■ ■ E1**	
	710	148	2.05	11 400	5.2	216	**2KJ4006 - ■ JQ21 - ■ ■ D1**	
	817	129	1.78	11 000	5.9	216	**2KJ4006 - ■ JQ21 - ■ ■ C1**	
	Z.129-LHN160MK4							
	23	4 510	62.48	27 300	1.1	292	**2KJ4111 - ■ JQ21 - ■ ■ X1**	
	27	3 860	53.47	27 700	1.3	292	**2KJ4111 - ■ JQ21 - ■ ■ W1**	
	29	3 630	50.33	27 800	1.4	292	**2KJ4111 - ■ JQ21 - ■ ■ V1**	
	31	3 400	47.18	28 000	1.5	292	**2KJ4111 - ■ JQ21 - ■ ■ U1**	
	35	3 010	41.82	28 200	1.7	292	**2KJ4111 - ■ JQ21 - ■ ■ T1**	
	39	2 680	37.15	28 400	1.9	292	**2KJ4111 - ■ JQ21 - ■ ■ S1**	
	43	2 420	33.52	28 500	2.1	292	**2KJ4111 - ■ JQ21 - ■ ■ R1**	
	49	2 140	29.7	28 700	2.3	292	**2KJ4111 - ■ JQ21 - ■ ■ Q1**	
	55	1 890	26.3	27 900	2.6	292	**2KJ4111 - ■ JQ21 - ■ ■ P1**	
	62	1 690	23.41	27 200	3.0	292	**2KJ4111 - ■ JQ21 - ■ ■ N1**	
	D.149-LHN160MK4							
	11	9 980	138.26	50 200	0.8	380	**2KJ4212 - ■ JQ21 - ■ ■ N1**	
	12	8 880	123.04	50 700	0.9	380	**2KJ4212 - ■ JQ21 - ■ ■ M1**	
	13	7 960	110.26	51 200	1.0	380	**2KJ4212 - ■ JQ21 - ■ ■ L1**	
	15	7 050	97.75	51 600	1.1	380	**2KJ4212 - ■ JQ21 - ■ ■ K1**	
	17	6 230	86.29	52 000	1.3	380	**2KJ4212 - ■ JQ21 - ■ ■ J1**	
	19	5 470	75.87	52 400	1.5	380	**2KJ4212 - ■ JQ21 - ■ ■ H1**	
	21	4 960	68.71	52 600	1.6	380	**2KJ4212 - ■ JQ21 - ■ ■ G1**	
	E.149-LHN160MK4							
	149	705	9.76	16 000	1.7	253	**2KJ4007 - ■ JQ21 - ■ ■ S1**	
	160	655	9.11	16 000	1.9	253	**2KJ4007 - ■ JQ21 - ■ ■ R1**	
	180	585	8.1	16 000	2.3	253	**2KJ4007 - ■ JQ21 - ■ ■ Q1**	
	200	525	7.27	16 000	2.6	253	**2KJ4007 - ■ JQ21 - ■ ■ P1**	
	221	475	6.58	16 000	2.8	253	**2KJ4007 - ■ JQ21 - ■ ■ N1**	
	252	415	5.78	16 000	3.6	253	**2KJ4007 - ■ JQ21 - ■ ■ M1**	
	278	375	5.24	16 000	3.9	253	**2KJ4007 - ■ JQ21 - ■ ■ L1**	
	312	335	4.67	16 000	4.4	253	**2KJ4007 - ■ JQ21 - ■ ■ K1**	
	347	300	4.19	15 900	4.9	253	**2KJ4007 - ■ JQ21 - ■ ■ J1**	
	Z.149-LHN160MK4							
	26	4 080	56.64	53 000	2.0	374	**2KJ4112 - ■ JQ21 - ■ ■ W1**	
	28	3 810	52.84	53 100	2.0	374	**2KJ4112 - ■ JQ21 - ■ ■ V1**	
	31	3 390	46.98	53 300	2.2	374	**2KJ4112 - ■ JQ21 - ■ ■ U1**	
	34	3 040	42.18	52 000	2.5	374	**2KJ4112 - ■ JQ21 - ■ ■ T1**	
	D.169-LHN160MK4							
	6	17 500	243.68	68 800	0.8	559	**2KJ4213 - ■ JQ21 - ■ ■ S1**	
	6.6	15 900	220.58	69 400	0.88	559	**2KJ4213 - ■ JQ21 - ■ ■ R1**	
	7.5	13 900	193.75	70 200	1.0	559	**2KJ4213 - ■ JQ21 - ■ ■ Q1**	
	8.3	12 600	175.57	70 600	1.1	559	**2KJ4213 - ■ JQ21 - ■ ■ P1**	
	9.3	11 200	156.36	71 100	1.2	559	**2KJ4213 - ■ JQ21 - ■ ■ N1**	
	10	10 100	140.41	71 600	1.4	559	**2KJ4213 - ■ JQ21 - ■ ■ M1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**D.169-LHN160MK4**							
	12	9 040	125.28	72 000	1.5	559	**2KJ4213 - ■ JQ21 - ■ ■ L1**	
	13	8 060	111.69	72 300	1.7	559	**2KJ4213 - ■ JQ21 - ■ ■ K1**	
	15	7 150	99.06	72 700	2.0	559	**2KJ4213 - ■ JQ21 - ■ ■ J1**	
	16	6 560	90.94	72 900	2.1	559	**2KJ4213 - ■ JQ21 - ■ ■ H1**	
	D.189-LHN160MK4							
	4.6	22 600	313.63	107 000	0.84	772	**2KJ4214 - ■ JQ21 - ■ ■ T1**	
	5.2	20 200	280.59	107 000	0.94	772	**2KJ4214 - ■ JQ21 - ■ ■ S1**	
	5.7	18 200	253.06	107 000	1.0	772	**2KJ4214 - ■ JQ21 - ■ ■ R1**	
	6.5	16 100	223.66	107 000	1.2	772	**2KJ4214 - ■ JQ21 - ■ ■ Q1**	
	7.1	14 700	204.44	107 000	1.3	772	**2KJ4214 - ■ JQ21 - ■ ■ P1**	
	7.9	13 200	183.92	107 000	1.4	772	**2KJ4214 - ■ JQ21 - ■ ■ N1**	
	8.9	11 800	164.36	107 000	1.6	772	**2KJ4214 - ■ JQ21 - ■ ■ M1**	
	9.8	10 700	148.63	107 000	1.8	772	**2KJ4214 - ■ JQ21 - ■ ■ L1**	
	11	9 470	131.17	107 000	2.0	772	**2KJ4214 - ■ JQ21 - ■ ■ K1**	
15	**Z.79-LHN160LH4**							
	149	960	9.76	8 600	0.85	183	**2KJ4107 - ■ JT21 - ■ ■ H1**	
	174	820	8.37	8 500	0.96	183	**2KJ4107 - ■ JT21 - ■ ■ G1**	
	178	805	8.19	8 100	0.89	183	**2KJ4107 - ■ JT21 - ■ ■ F1**	
	203	705	7.16	8 000	1.0	183	**2KJ4107 - ■ JT21 - ■ ■ E1**	
	237	605	6.15	4 500	1.2	183	**2KJ4107 - ■ JT21 - ■ ■ D1**	
	268	535	5.43	4 970	1.3	183	**2KJ4107 - ■ JT21 - ■ ■ C1**	
	315	455	4.62	5 400	1.7	183	**2KJ4107 - ■ JT21 - ■ ■ B1**	
	367	390	3.96	5 700	2.0	183	**2KJ4107 - ■ JT21 - ■ ■ A1**	
	E.89-LHN160LH4							
	334	425	4.35	6 900	0.84	184	**2KJ4004 - ■ JT21 - ■ ■ K1**	
	377	380	3.86	7 100	0.95	184	**2KJ4004 - ■ JT21 - ■ ■ J1**	
	421	340	3.46	7 300	1.1	184	**2KJ4004 - ■ JT21 - ■ ■ H1**	
	492	290	2.96	7 400	1.2	184	**2KJ4004 - ■ JT21 - ■ ■ G1**	
	551	260	2.64	7 300	1.4	184	**2KJ4004 - ■ JT21 - ■ ■ F1**	
	624	225	2.33	7 200	1.6	184	**2KJ4004 - ■ JT21 - ■ ■ E1**	
	710	200	2.05	7 000	1.8	184	**2KJ4004 - ■ JT21 - ■ ■ D1**	
	817	175	1.78	6 800	2.1	184	**2KJ4004 - ■ JT21 - ■ ■ C1**	
	957	150	1.52	6 600	2.4	184	**2KJ4004 - ■ JT21 - ■ ■ B1**	
	1 119	128	1.3	6 300	2.8	184	**2KJ4004 - ■ JT21 - ■ ■ A1**	
	Z.89-LHN160LH4							
	71	2 020	20.52	11 800	0.83	206	**2KJ4108 - ■ JT21 - ■ ■ N1**	
	83	1 720	17.54	13 700	0.97	206	**2KJ4108 - ■ JT21 - ■ ■ M1**	
	93	1 540	15.66	14 600	1.1	206	**2KJ4108 - ■ JT21 - ■ ■ L1**	
	105	1 360	13.84	15 400	1.2	206	**2KJ4108 - ■ JT21 - ■ ■ K1**	
	120	1 190	12.15	15 000	1.4	206	**2KJ4108 - ■ JT21 - ■ ■ J1**	
	138	1 040	10.58	14 600	1.5	206	**2KJ4108 - ■ JT21 - ■ ■ H1**	
	161	890	9.04	14 200	1.8	206	**2KJ4108 - ■ JT21 - ■ ■ G1**	
	188	760	7.74	13 700	2.0	206	**2KJ4108 - ■ JT21 - ■ ■ F1**	
	211	675	6.89	13 500	1.5	206	**2KJ4108 - ■ JT21 - ■ ■ E1**	
	240	595	6.05	13 000	1.8	206	**2KJ4108 - ■ JT21 - ■ ■ D1**	
	277	515	5.26	12 600	2.0	206	**2KJ4108 - ■ JT21 - ■ ■ C1**	
	323	440	4.5	12 100	2.4	206	**2KJ4108 - ■ JT21 - ■ ■ B1**	
	378	375	3.85	11 600	2.8	206	**2KJ4108 - ■ JT21 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**E.109-LHN160LH4**							
	202	705	7.19	10 500	0.8	206	**2KJ4005 - ■ JT21 - ■ ■ Q1**	
	215	665	6.76	10 500	0.85	206	**2KJ4005 - ■ JT21 - ■ ■ P1**	
	232	615	6.28	10 500	0.91	206	**2KJ4005 - ■ JT21 - ■ ■ N1**	
	262	545	5.55	10 500	1.0	206	**2KJ4005 - ■ JT21 - ■ ■ M1**	
	294	485	4.95	10 500	1.1	206	**2KJ4005 - ■ JT21 - ■ ■ L1**	
	326	435	4.46	10 500	1.3	206	**2KJ4005 - ■ JT21 - ■ ■ K1**	
	376	380	3.87	10 500	1.5	206	**2KJ4005 - ■ JT21 - ■ ■ J1**	
	418	340	3.48	10 500	1.6	206	**2KJ4005 - ■ JT21 - ■ ■ H1**	
	479	295	3.04	10 500	1.8	206	**2KJ4005 - ■ JT21 - ■ ■ G1**	
	537	265	2.71	10 500	2.0	206	**2KJ4005 - ■ JT21 - ■ ■ F1**	
	609	235	2.39	10 200	2.3	206	**2KJ4005 - ■ JT21 - ■ ■ E1**	
	693	205	2.1	9 900	2.6	206	**2KJ4005 - ■ JT21 - ■ ■ D1**	
	795	180	1.83	9 600	2.9	206	**2KJ4005 - ■ JT21 - ■ ■ C1**	
	871	164	1.67	9 400	3.2	206	**2KJ4005 - ■ JT21 - ■ ■ B1**	
	1 017	141	1.43	9 000	3.3	206	**2KJ4005 - ■ JT21 - ■ ■ A1**	
	Z.109-LHN160LH4							
	38	3 750	38.12	20 100	0.83	244	**2KJ4110 - ■ JT21 - ■ ■ U1**	
	43	3 310	33.7	20 200	0.93	244	**2KJ4110 - ■ JT21 - ■ ■ T1**	
	48	2 960	30.08	20 200	1.0	244	**2KJ4110 - ■ JT21 - ■ ■ S1**	
	54	2 660	27.07	20 200	1.1	244	**2KJ4110 - ■ JT21 - ■ ■ R1**	
	62	2 310	23.49	19 900	1.3	244	**2KJ4110 - ■ JT21 - ■ ■ Q1**	
	69	2 080	21.13	19 600	1.4	244	**2KJ4110 - ■ JT21 - ■ ■ P1**	
	79	1 810	18.47	19 300	1.5	244	**2KJ4110 - ■ JT21 - ■ ■ N1**	
	88	1 620	16.48	18 900	1.6	244	**2KJ4110 - ■ JT21 - ■ ■ M1**	
	100	1 430	14.52	18 500	1.8	244	**2KJ4110 - ■ JT21 - ■ ■ L1**	
	114	1 250	12.72	18 100	2.0	244	**2KJ4110 - ■ JT21 - ■ ■ K1**	
	131	1 090	11.09	17 600	2.3	244	**2KJ4110 - ■ JT21 - ■ ■ J1**	
	144	995	10.12	17 300	2.4	244	**2KJ4110 - ■ JT21 - ■ ■ H1**	
	167	855	8.71	16 800	2.8	244	**2KJ4110 - ■ JT21 - ■ ■ G1**	
	173	825	8.41	16 500	2.8	244	**2KJ4110 - ■ JT21 - ■ ■ F1**	
	196	730	7.41	16 000	3.1	244	**2KJ4110 - ■ JT21 - ■ ■ E1**	
	224	640	6.5	15 600	3.6	244	**2KJ4110 - ■ JT21 - ■ ■ D1**	
	257	555	5.66	15 100	4.1	244	**2KJ4110 - ■ JT21 - ■ ■ C1**	
	281	505	5.17	14 800	4.5	244	**2KJ4110 - ■ JT21 - ■ ■ B1**	
	327	435	4.45	14 200	4.9	244	**2KJ4110 - ■ JT21 - ■ ■ A1**	
	E.129-LHN160LH4							
	174	825	8.38	13 500	0.81	230	**2KJ4006 - ■ JT21 - ■ ■ S1**	
	185	775	7.88	13 500	0.86	230	**2KJ4006 - ■ JT21 - ■ ■ R1**	
	197	725	7.39	13 500	1.1	230	**2KJ4006 - ■ JT21 - ■ ■ Q1**	
	222	645	6.55	13 500	1.2	230	**2KJ4006 - ■ JT21 - ■ ■ P1**	
	250	570	5.82	13 500	1.4	230	**2KJ4006 - ■ JT21 - ■ ■ N1**	
	277	515	5.25	13 500	1.5	230	**2KJ4006 - ■ JT21 - ■ ■ M1**	
	313	455	4.65	13 300	1.7	230	**2KJ4006 - ■ JT21 - ■ ■ L1**	
	353	405	4.12	12 900	1.9	230	**2KJ4006 - ■ JT21 - ■ ■ K1**	
	396	360	3.67	12 600	2.2	230	**2KJ4006 - ■ JT21 - ■ ■ J1**	
	442	320	3.29	12 400	2.4	230	**2KJ4006 - ■ JT21 - ■ ■ H1**	
	500	285	2.91	12 000	2.7	230	**2KJ4006 - ■ JT21 - ■ ■ G1**	
	566	250	2.57	11 700	3.0	230	**2KJ4006 - ■ JT21 - ■ ■ F1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
15	**E.129-LHN160LH4**							
	644	220	2.26	11 400	3.4	230	**2KJ4006 - ■ JT21 - ■ ■ E1**	
	710	200	2.05	11 100	3.8	230	**2KJ4006 - ■ JT21 - ■ ■ D1**	
	817	175	1.78	10 700	4.3	230	**2KJ4006 - ■ JT21 - ■ ■ C1**	
	997	144	1.46	10 200	5.3	230	**2KJ4006 - ■ JT21 - ■ ■ B1**	
	1 173	122	1.24	9 700	6.1	230	**2KJ4006 - ■ JT21 - ■ ■ A1**	
	Z.129-LHN160LH4							
	23	6 150	62.48	26 300	0.81	306	**2KJ4111 - ■ JT21 - ■ ■ X1**	
	27	5 260	53.47	26 900	0.95	306	**2KJ4111 - ■ JT21 - ■ ■ W1**	
	29	4 950	50.33	27 000	1.0	306	**2KJ4111 - ■ JT21 - ■ ■ V1**	
	31	4 640	47.18	27 200	1.1	306	**2KJ4111 - ■ JT21 - ■ ■ U1**	
	35	4 110	41.82	27 500	1.2	306	**2KJ4111 - ■ JT21 - ■ ■ T1**	
	39	3 650	37.15	27 800	1.4	306	**2KJ4111 - ■ JT21 - ■ ■ S1**	
	43	3 300	33.52	27 900	1.5	306	**2KJ4111 - ■ JT21 - ■ ■ R1**	
	49	2 920	29.7	27 300	1.7	306	**2KJ4111 - ■ JT21 - ■ ■ Q1**	
	55	2 580	26.3	26 700	1.9	306	**2KJ4111 - ■ JT21 - ■ ■ P1**	
	62	2 300	23.41	26 100	2.2	306	**2KJ4111 - ■ JT21 - ■ ■ N1**	
	69	2 060	20.98	25 600	2.4	306	**2KJ4111 - ■ JT21 - ■ ■ M1**	
	78	1 830	18.6	24 900	2.7	306	**2KJ4111 - ■ JT21 - ■ ■ L1**	
	89	1 610	16.42	24 300	3.1	306	**2KJ4111 - ■ JT21 - ■ ■ K1**	
	101	1 420	14.43	23 600	3.5	306	**2KJ4111 - ■ JT21 - ■ ■ J1**	
	D.149-LHN160LH4							
	15	9 620	97.75	50 400	0.83	394	**2KJ4212 - ■ JT21 - ■ ■ K1**	
	17	8 490	86.29	50 900	0.94	394	**2KJ4212 - ■ JT21 - ■ ■ J1**	
	19	7 470	75.87	51 400	1.1	394	**2KJ4212 - ■ JT21 - ■ ■ H1**	
	21	6 760	68.71	51 700	1.2	394	**2KJ4212 - ■ JT21 - ■ ■ G1**	
	E.149-LHN160LH4							
	149	960	9.76	16 000	1.2	267	**2KJ4007 - ■ JT21 - ■ ■ S1**	
	160	895	9.11	16 000	1.4	267	**2KJ4007 - ■ JT21 - ■ ■ R1**	
	180	795	8.1	16 000	1.7	267	**2KJ4007 - ■ JT21 - ■ ■ Q1**	
	200	715	7.27	16 000	1.9	267	**2KJ4007 - ■ JT21 - ■ ■ P1**	
	221	645	6.58	16 000	2.1	267	**2KJ4007 - ■ JT21 - ■ ■ N1**	
	252	565	5.78	16 000	2.6	267	**2KJ4007 - ■ JT21 - ■ ■ M1**	
	278	515	5.24	16 000	2.9	267	**2KJ4007 - ■ JT21 - ■ ■ L1**	
	312	460	4.67	15 700	3.2	267	**2KJ4007 - ■ JT21 - ■ ■ K1**	
	347	410	4.19	15 400	3.6	267	**2KJ4007 - ■ JT21 - ■ ■ J1**	
	389	365	3.74	15 000	4.0	267	**2KJ4007 - ■ JT21 - ■ ■ H1**	
	437	325	3.33	14 600	4.5	267	**2KJ4007 - ■ JT21 - ■ ■ G1**	
	492	290	2.96	14 100	5.0	267	**2KJ4007 - ■ JT21 - ■ ■ F1**	
	537	265	2.71	13 800	5.5	267	**2KJ4007 - ■ JT21 - ■ ■ E1**	
	Z.149-LHN160LH4							
	26	5 570	56.64	52 300	1.4	388	**2KJ4112 - ■ JT21 - ■ ■ W1**	
	28	5 200	52.84	52 500	1.5	388	**2KJ4112 - ■ JT21 - ■ ■ V1**	
	31	4 620	46.98	51 700	1.6	388	**2KJ4112 - ■ JT21 - ■ ■ U1**	
	34	4 150	42.18	50 500	1.8	388	**2KJ4112 - ■ JT21 - ■ ■ T1**	
	38	3 750	38.18	49 300	2.0	388	**2KJ4112 - ■ JT21 - ■ ■ S1**	
	43	3 300	33.54	47 900	2.4	388	**2KJ4112 - ■ JT21 - ■ ■ R1**	
	48	2 990	30.39	46 800	2.7	388	**2KJ4112 - ■ JT21 - ■ ■ Q1**	
	D.169-LHN160LH4							
	8.3	17 200	175.57	68 900	0.81	573	**2KJ4213 - ■ JT21 - ■ ■ P1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
15	**D.169-LHN160LH4**							
	9.3	15 300	156.36	69 600	0.91	573	**2KJ4213 - ■ JT21 - ■ ■ N1**	
	10	13 800	140.41	70 200	1.0	573	**2KJ4213 - ■ JT21 - ■ ■ M1**	
	12	12 300	125.28	70 800	1.1	573	**2KJ4213 - ■ JT21 - ■ ■ L1**	
	13	10 900	111.69	71 300	1.3	573	**2KJ4213 - ■ JT21 - ■ ■ K1**	
	15	9 750	99.06	71 700	1.4	573	**2KJ4213 - ■ JT21 - ■ ■ J1**	
	16	8 950	90.94	72 000	1.6	573	**2KJ4213 - ■ JT21 - ■ ■ H1**	
	18	7 880	80.12	72 400	1.8	573	**2KJ4213 - ■ JT21 - ■ ■ G1**	
	22	6 470	65.72	72 900	2.2	573	**2KJ4213 - ■ JT21 - ■ ■ F1**	
	D.189-LHN160LH4							
	6.5	22 000	223.66	107 000	0.86	786	**2KJ4214 - ■ JT21 - ■ ■ Q1**	
	7.1	20 100	204.44	107 000	0.94	786	**2KJ4214 - ■ JT21 - ■ ■ P1**	
	7.9	18 100	183.92	107 000	1.0	786	**2KJ4214 - ■ JT21 - ■ ■ N1**	
	8.9	16 100	164.36	107 000	1.2	786	**2KJ4214 - ■ JT21 - ■ ■ M1**	
	9.8	14 600	148.63	107 000	1.3	786	**2KJ4214 - ■ JT21 - ■ ■ L1**	
	11	12 900	131.17	107 000	1.5	786	**2KJ4214 - ■ JT21 - ■ ■ K1**	
	12	11 500	116.88	107 000	1.7	786	**2KJ4214 - ■ JT21 - ■ ■ J1**	
	14	10 400	105.89	107 000	1.8	786	**2KJ4214 - ■ JT21 - ■ ■ H1**	
	15	9 370	95.24	107 000	2.0	786	**2KJ4214 - ■ JT21 - ■ ■ G1**	
18.5	**E.89-LHN180MK4**							
	555	315	2.64	6 300	1.1	222	**2KJ4004 - ■ KK21 - ■ ■ F1**	
	715	245	2.05	6 400	1.5	222	**2KJ4004 - ■ KK21 - ■ ■ D1**	
	823	215	1.78	6 400	1.7	222	**2KJ4004 - ■ KK21 - ■ ■ C1**	
	964	183	1.52	6 300	2.0	222	**2KJ4004 - ■ KK21 - ■ ■ B1**	
	1 127	157	1.3	6 100	2.3	222	**2KJ4004 - ■ KK21 - ■ ■ A1**	
	Z.89-LHN180MK4							
	94	1 880	15.66	10 300	0.89	244	**2KJ4108 - ■ KK21 - ■ ■ L1**	
	106	1 660	13.84	11 700	1.0	244	**2KJ4108 - ■ KK21 - ■ ■ K1**	
	121	1 460	12.15	12 800	1.1	244	**2KJ4108 - ■ KK21 - ■ ■ J1**	
	138	1 270	10.58	13 800	1.2	244	**2KJ4108 - ■ KK21 - ■ ■ H1**	
	162	1 090	9.04	13 500	1.4	244	**2KJ4108 - ■ KK21 - ■ ■ G1**	
	189	930	7.74	13 200	1.6	244	**2KJ4108 - ■ KK21 - ■ ■ F1**	
	213	830	6.89	12 600	1.3	244	**2KJ4108 - ■ KK21 - ■ ■ E1**	
	242	730	6.05	12 700	1.5	244	**2KJ4108 - ■ KK21 - ■ ■ D1**	
	279	630	5.26	12 300	1.7	244	**2KJ4108 - ■ KK21 - ■ ■ C1**	
	326	540	4.5	11 800	2.0	244	**2KJ4108 - ■ KK21 - ■ ■ B1**	
	381	460	3.85	11 300	2.3	244	**2KJ4108 - ■ KK21 - ■ ■ A1**	
	E.109-LHN180MK4							
	421	420	3.48	10 500	1.3	246	**2KJ4005 - ■ KK21 - ■ ■ H1**	
	482	365	3.04	10 400	1.5	246	**2KJ4005 - ■ KK21 - ■ ■ G1**	
	541	325	2.71	10 200	1.7	246	**2KJ4005 - ■ KK21 - ■ ■ F1**	
	613	285	2.39	9 900	1.9	246	**2KJ4005 - ■ KK21 - ■ ■ E1**	
	698	250	2.1	9 600	2.1	246	**2KJ4005 - ■ KK21 - ■ ■ D1**	
	801	220	1.83	9 300	2.4	246	**2KJ4005 - ■ KK21 - ■ ■ C1**	
	877	200	1.67	9 100	2.6	246	**2KJ4005 - ■ KK21 - ■ ■ B1**	
	1 024	172	1.43	8 800	2.7	246	**2KJ4005 - ■ KK21 - ■ ■ A1**	
	Z.109-LHN180MK4							
	69	2 540	21.13	18 500	1.1	285	**2KJ4110 - ■ KK21 - ■ ■ P1**	
	79	2 220	18.47	18 300	1.2	285	**2KJ4110 - ■ KK21 - ■ ■ N1**	
	89	1 980	16.48	18 100	1.3	285	**2KJ4110 - ■ KK21 - ■ ■ M1**	

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
18.5	**Z.109-LHN180MK4**							
	101	1 750	14.52	17 700	1.5	285	**2KJ4110 - ■ KK21 - ■ ■ L1**	
	115	1 530	12.72	17 400	1.6	285	**2KJ4110 - ■ KK21 - ■ ■ K1**	
	132	1 330	11.09	17 000	1.8	285	**2KJ4110 - ■ KK21 - ■ ■ J1**	
	145	1 220	10.12	16 700	2.0	285	**2KJ4110 - ■ KK21 - ■ ■ H1**	
	168	1 050	8.71	16 300	2.3	285	**2KJ4110 - ■ KK21 - ■ ■ G1**	
	174	1 010	8.41	16 000	2.3	285	**2KJ4110 - ■ KK21 - ■ ■ F1**	
	198	890	7.41	15 600	2.6	285	**2KJ4110 - ■ KK21 - ■ ■ E1**	
	225	780	6.5	15 200	2.9	285	**2KJ4110 - ■ KK21 - ■ ■ D1**	
	259	680	5.66	14 700	3.4	285	**2KJ4110 - ■ KK21 - ■ ■ C1**	
	283	620	5.17	14 400	3.7	285	**2KJ4110 - ■ KK21 - ■ ■ B1**	
	329	535	4.45	13 900	4.0	285	**2KJ4110 - ■ KK21 - ■ ■ A1**	
	E.129-LHN180MK4							
	356	495	4.12	12 400	1.6	269	**2KJ4006 - ■ KK21 - ■ ■ K1**	
	399	440	3.67	12 100	1.8	269	**2KJ4006 - ■ KK21 - ■ ■ J1**	
	445	395	3.29	11 900	2.0	269	**2KJ4006 - ■ KK21 - ■ ■ H1**	
	503	350	2.91	11 600	2.2	269	**2KJ4006 - ■ KK21 - ■ ■ G1**	
	570	310	2.57	11 300	2.5	269	**2KJ4006 - ■ KK21 - ■ ■ F1**	
	648	270	2.26	11 000	2.8	269	**2KJ4006 - ■ KK21 - ■ ■ E1**	
	715	245	2.05	10 800	3.1	269	**2KJ4006 - ■ KK21 - ■ ■ D1**	
	823	215	1.78	10 400	3.5	269	**2KJ4006 - ■ KK21 - ■ ■ C1**	
	1 003	176	1.46	9 900	4.3	269	**2KJ4006 - ■ KK21 - ■ ■ B1**	
	1 181	150	1.24	9 500	5.0	269	**2KJ4006 - ■ KK21 - ■ ■ A1**	
	Z.129-LHN180MK4							
	56	3 170	26.3	25 700	1.6	345	**2KJ4111 - ■ KK21 - ■ ■ P1**	
	63	2 820	23.41	25 200	1.8	345	**2KJ4111 - ■ KK21 - ■ ■ N1**	
	70	2 530	20.98	24 700	2.0	345	**2KJ4111 - ■ KK21 - ■ ■ M1**	
	79	2 240	18.6	24 200	2.2	345	**2KJ4111 - ■ KK21 - ■ ■ L1**	
	89	1 980	16.42	23 600	2.5	345	**2KJ4111 - ■ KK21 - ■ ■ K1**	
	102	1 740	14.43	23 000	2.8	345	**2KJ4111 - ■ KK21 - ■ ■ J1**	
	112	1 570	13.07	22 500	3.1	345	**2KJ4111 - ■ KK21 - ■ ■ H1**	
	129	1 370	11.38	21 800	3.5	345	**2KJ4111 - ■ KK21 - ■ ■ G1**	
	157	1 120	9.33	20 900	4.1	345	**2KJ4111 - ■ KK21 - ■ ■ F1**	
	172	1 020	8.53	20 200	3.5	345	**2KJ4111 - ■ KK21 - ■ ■ E1**	
	195	900	7.5	19 600	4.0	345	**2KJ4111 - ■ KK21 - ■ ■ D1**	
	216	815	6.79	19 100	4.4	345	**2KJ4111 - ■ KK21 - ■ ■ C1**	
	D.149-LHN180MK4							
	19	9 150	75.87	50 600	0.87	435	**2KJ4212 - ■ KK21 - ■ ■ H1**	
	21	8 280	68.71	51 000	0.97	435	**2KJ4212 - ■ KK21 - ■ ■ G1**	
	24	7 210	59.82	51 500	1.1	435	**2KJ4212 - ■ KK21 - ■ ■ F1**	
	30	5 910	49.05	50 500	1.4	435	**2KJ4212 - ■ KK21 - ■ ■ E1**	
	34	5 240	43.51	49 400	1.5	435	**2KJ4212 - ■ KK21 - ■ ■ D1**	
	37	4 750	39.41	48 400	1.7	435	**2KJ4212 - ■ KK21 - ■ ■ C1**	
	43	4 130	34.31	47 000	1.9	435	**2KJ4212 - ■ KK21 - ■ ■ B1**	
	E.149-LHN180MK4							
	280	630	5.24	15 600	2.4	308	**2KJ4007 - ■ KK21 - ■ ■ L1**	
	314	560	4.67	15 200	2.6	308	**2KJ4007 - ■ KK21 - ■ ■ K1**	
	350	505	4.19	14 900	2.9	308	**2KJ4007 - ■ KK21 - ■ ■ J1**	
	392	450	3.74	14 500	3.3	308	**2KJ4007 - ■ KK21 - ■ ■ H1**	
	440	400	3.33	14 200	3.7	308	**2KJ4007 - ■ KK21 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**E.149-LHN180MK4**							
	495	355	2.96	13 800	4.1	308	**2KJ4007 - ■ KK21 - ■ ■ F1**	
	541	325	2.71	13 500	4.5	308	**2KJ4007 - ■ KK21 - ■ ■ E1**	
	613	285	2.39	13 100	5.1	308	**2KJ4007 - ■ KK21 - ■ ■ D1**	
	747	235	1.96	12 500	6.2	308	**2KJ4007 - ■ KK21 - ■ ■ C1**	
	Z.149-LHN180MK4							
	48	3 660	30.39	45 800	2.2	429	**2KJ4112 - ■ KK21 - ■ ■ Q1**	
	54	3 260	27.07	44 600	2.5	429	**2KJ4112 - ■ KK21 - ■ ■ P1**	
	60	2 930	24.3	43 500	2.7	429	**2KJ4112 - ■ KK21 - ■ ■ N1**	
	68	2 610	21.69	42 300	3.1	429	**2KJ4112 - ■ KK21 - ■ ■ M1**	
	D.169-LHN180MK4							
	10	16 900	140.41	69 000	0.83	611	**2KJ4213 - ■ KK21 - ■ ■ M1**	
	12	15 100	125.28	69 700	0.93	611	**2KJ4213 - ■ KK21 - ■ ■ L1**	
	13	13 400	111.69	70 400	1.0	611	**2KJ4213 - ■ KK21 - ■ ■ K1**	
	15	11 900	99.06	70 900	1.2	611	**2KJ4213 - ■ KK21 - ■ ■ J1**	
	16	10 900	90.94	71 300	1.3	611	**2KJ4213 - ■ KK21 - ■ ■ H1**	
	18	9 660	80.12	71 700	1.4	611	**2KJ4213 - ■ KK21 - ■ ■ G1**	
	22	7 920	65.72	72 400	1.8	611	**2KJ4213 - ■ KK21 - ■ ■ F1**	
	25	6 950	57.63	72 800	2.0	611	**2KJ4213 - ■ KK21 - ■ ■ E1**	
	33	5 430	45.06	73 300	2.6	611	**2KJ4213 - ■ KK21 - ■ ■ D1**	
	Z.169-LHN180MK4							
	40	4 400	36.55	73 700	2.7	567	**2KJ4113 - ■ KK21 - ■ ■ Q1**	
	D.189-LHN180MK4							
	8	22 100	183.92	107 000	0.86	825	**2KJ4214 - ■ KK21 - ■ ■ N1**	
	8.9	19 800	164.36	107 000	0.96	825	**2KJ4214 - ■ KK21 - ■ ■ M1**	
	9.9	17 900	148.63	107 000	1.1	825	**2KJ4214 - ■ KK21 - ■ ■ L1**	
	11	15 800	131.17	107 000	1.2	825	**2KJ4214 - ■ KK21 - ■ ■ K1**	
	13	14 000	116.88	107 000	1.3	825	**2KJ4214 - ■ KK21 - ■ ■ J1**	
	14	12 700	105.89	107 000	1.5	825	**2KJ4214 - ■ KK21 - ■ ■ H1**	
	15	11 400	95.24	107 000	1.7	825	**2KJ4214 - ■ KK21 - ■ ■ G1**	
	19	9 540	79.14	107 000	2.0	825	**2KJ4214 - ■ KK21 - ■ ■ F1**	
	21	8 480	70.36	107 000	2.2	825	**2KJ4214 - ■ KK21 - ■ ■ E1**	
22	**E.89-LHN180LH4**							
	555	375	2.64	5 000	0.95	231	**2KJ4004 - ■ KM21 - ■ ■ F1**	
	964	215	1.52	5 600	1.7	231	**2KJ4004 - ■ KM21 - ■ ■ B1**	
	1 127	186	1.3	5 600	1.9	231	**2KJ4004 - ■ KM21 - ■ ■ A1**	
	Z.89-LHN180LH4							
	106	1 980	13.84	7 700	0.85	253	**2KJ4108 - ■ KM21 - ■ ■ K1**	
	121	1 740	12.15	9 300	0.94	253	**2KJ4108 - ■ KM21 - ■ ■ J1**	
	138	1 510	10.58	10 800	1.0	253	**2KJ4108 - ■ KM21 - ■ ■ H1**	
	162	1 290	9.04	12 000	1.2	253	**2KJ4108 - ■ KM21 - ■ ■ G1**	
	189	1 110	7.74	12 600	1.4	253	**2KJ4108 - ■ KM21 - ■ ■ F1**	
	213	985	6.89	10 200	1.1	253	**2KJ4108 - ■ KM21 - ■ ■ E1**	
	242	865	6.05	11 000	1.2	253	**2KJ4108 - ■ KM21 - ■ ■ D1**	
	279	750	5.26	11 700	1.4	253	**2KJ4108 - ■ KM21 - ■ ■ C1**	
	326	645	4.5	11 500	1.6	253	**2KJ4108 - ■ KM21 - ■ ■ B1**	
	381	550	3.85	11 100	1.9	253	**2KJ4108 - ■ KM21 - ■ ■ A1**	
	E.109-LHN180LH4							
	421	495	3.48	10 200	1.1	255	**2KJ4005 - ■ KM21 - ■ ■ H1**	
	482	435	3.04	10 000	1.3	255	**2KJ4005 - ■ KM21 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**E.109-LHN180LH4**							
	541	385	2.71	9 800	1.4	255	**2KJ4005 - ■ KM21 - ■ ■ F1**	
	613	340	2.39	9 600	1.6	255	**2KJ4005 - ■ KM21 - ■ ■ E1**	
	698	300	2.1	9 300	1.8	255	**2KJ4005 - ■ KM21 - ■ ■ D1**	
	801	260	1.83	9 100	2.0	255	**2KJ4005 - ■ KM21 - ■ ■ C1**	
	877	235	1.67	8 900	2.2	255	**2KJ4005 - ■ KM21 - ■ ■ B1**	
	1 024	205	1.43	8 600	2.3	255	**2KJ4005 - ■ KM21 - ■ ■ A1**	
	Z.109-LHN180LH4							
	69	3 030	21.13	17 400	0.93	294	**2KJ4110 - ■ KM21 - ■ ■ P1**	
	79	2 640	18.47	17 300	1.0	294	**2KJ4110 - ■ KM21 - ■ ■ N1**	
	89	2 360	16.48	17 200	1.1	294	**2KJ4110 - ■ KM21 - ■ ■ M1**	
	101	2 080	14.52	17 000	1.2	294	**2KJ4110 - ■ KM21 - ■ ■ L1**	
	115	1 820	12.72	16 700	1.4	294	**2KJ4110 - ■ KM21 - ■ ■ K1**	
	132	1 590	11.09	16 400	1.5	294	**2KJ4110 - ■ KM21 - ■ ■ J1**	
	145	1 450	10.12	16 200	1.7	294	**2KJ4110 - ■ KM21 - ■ ■ H1**	
	168	1 240	8.71	15 800	1.9	294	**2KJ4110 - ■ KM21 - ■ ■ G1**	
	174	1 200	8.41	15 500	1.9	294	**2KJ4110 - ■ KM21 - ■ ■ F1**	
	198	1 060	7.41	15 200	2.1	294	**2KJ4110 - ■ KM21 - ■ ■ E1**	
	225	930	6.5	14 800	2.4	294	**2KJ4110 - ■ KM21 - ■ ■ D1**	
	259	810	5.66	14 400	2.8	294	**2KJ4110 - ■ KM21 - ■ ■ C1**	
	283	740	5.17	14 100	3.1	294	**2KJ4110 - ■ KM21 - ■ ■ B1**	
	329	635	4.45	13 700	3.4	294	**2KJ4110 - ■ KM21 - ■ ■ A1**	
	E.129-LHN180LH4							
	356	590	4.12	11 800	1.3	278	**2KJ4006 - ■ KM21 - ■ ■ K1**	
	399	525	3.67	11 700	1.5	278	**2KJ4006 - ■ KM21 - ■ ■ J1**	
	445	470	3.29	11 500	1.7	278	**2KJ4006 - ■ KM21 - ■ ■ H1**	
	503	415	2.91	11 200	1.8	278	**2KJ4006 - ■ KM21 - ■ ■ G1**	
	570	365	2.57	11 000	2.1	278	**2KJ4006 - ■ KM21 - ■ ■ F1**	
	648	320	2.26	10 700	2.3	278	**2KJ4006 - ■ KM21 - ■ ■ E1**	
	715	290	2.05	10 500	2.6	278	**2KJ4006 - ■ KM21 - ■ ■ D1**	
	823	255	1.78	10 200	3.0	278	**2KJ4006 - ■ KM21 - ■ ■ C1**	
	1 003	205	1.46	9 700	3.6	278	**2KJ4006 - ■ KM21 - ■ ■ B1**	
	1 181	178	1.24	9 300	4.2	278	**2KJ4006 - ■ KM21 - ■ ■ A1**	
	Z.129-LHN180LH4							
	56	3 770	26.3	24 600	1.3	354	**2KJ4111 - ■ KM21 - ■ ■ P1**	
	63	3 350	23.41	24 300	1.5	354	**2KJ4111 - ■ KM21 - ■ ■ N1**	
	70	3 000	20.98	23 900	1.7	354	**2KJ4111 - ■ KM21 - ■ ■ M1**	
	79	2 660	18.6	23 500	1.9	354	**2KJ4111 - ■ KM21 - ■ ■ L1**	
	89	2 350	16.42	23 000	2.1	354	**2KJ4111 - ■ KM21 - ■ ■ K1**	
	102	2 060	14.43	22 400	2.4	354	**2KJ4111 - ■ KM21 - ■ ■ J1**	
	112	1 870	13.07	22 000	2.6	354	**2KJ4111 - ■ KM21 - ■ ■ H1**	
	129	1 630	11.38	21 400	2.9	354	**2KJ4111 - ■ KM21 - ■ ■ G1**	
	157	1 330	9.33	20 500	3.5	354	**2KJ4111 - ■ KM21 - ■ ■ F1**	
	172	1 220	8.53	19 800	3.0	354	**2KJ4111 - ■ KM21 - ■ ■ E1**	
	195	1 070	7.5	19 200	3.4	354	**2KJ4111 - ■ KM21 - ■ ■ D1**	
	216	970	6.79	18 800	3.7	354	**2KJ4111 - ■ KM21 - ■ ■ C1**	
	248	845	5.91	18 200	4.3	354	**2KJ4111 - ■ KM21 - ■ ■ B1**	
	302	695	4.85	17 300	4.7	354	**2KJ4111 - ■ KM21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**D.149-LHN180LH4**							
	21	9 850	68.71	50 300	0.81	444	**2KJ4212 - ■ KM21 - ■ ■ G1**	
	24	8 570	59.82	50 500	0.93	444	**2KJ4212 - ■ KM21 - ■ ■ F1**	
	30	7 030	49.05	49 000	1.1	444	**2KJ4212 - ■ KM21 - ■ ■ E1**	
	34	6 240	43.51	48 000	1.3	444	**2KJ4212 - ■ KM21 - ■ ■ D1**	
	37	5 650	39.41	47 200	1.4	444	**2KJ4212 - ■ KM21 - ■ ■ C1**	
	43	4 920	34.31	45 900	1.6	444	**2KJ4212 - ■ KM21 - ■ ■ B1**	
	E.149-LHN180LH4							
	280	750	5.24	15 000	2.0	317	**2KJ4007 - ■ KM21 - ■ ■ L1**	
	314	670	4.67	14 700	2.2	317	**2KJ4007 - ■ KM21 - ■ ■ K1**	
	350	600	4.19	14 500	2.5	317	**2KJ4007 - ■ KM21 - ■ ■ J1**	
	392	535	3.74	14 100	2.8	317	**2KJ4007 - ■ KM21 - ■ ■ H1**	
	440	475	3.33	13 800	3.1	317	**2KJ4007 - ■ KM21 - ■ ■ G1**	
	495	425	2.96	13 500	3.4	317	**2KJ4007 - ■ KM21 - ■ ■ F1**	
	541	385	2.71	13 200	3.8	317	**2KJ4007 - ■ KM21 - ■ ■ E1**	
	613	340	2.39	12 900	4.3	317	**2KJ4007 - ■ KM21 - ■ ■ D1**	
	747	280	1.96	12 300	5.2	317	**2KJ4007 - ■ KM21 - ■ ■ C1**	
	852	245	1.72	11 900	5.9	317	**2KJ4007 - ■ KM21 - ■ ■ B1**	
	1 093	192	1.34	11 200	6.7	317	**2KJ4007 - ■ KM21 - ■ ■ A1**	
	Z.149-LHN180LH4							
	48	4 350	30.39	44 800	1.8	438	**2KJ4112 - ■ KM21 - ■ ■ Q1**	
	54	3 880	27.07	43 700	2.1	438	**2KJ4112 - ■ KM21 - ■ ■ P1**	
	60	3 480	24.3	42 700	2.3	438	**2KJ4112 - ■ KM21 - ■ ■ N1**	
	68	3 110	21.69	41 600	2.6	438	**2KJ4112 - ■ KM21 - ■ ■ M1**	
	76	2 770	19.33	40 500	2.9	438	**2KJ4112 - ■ KM21 - ■ ■ L1**	
	85	2 460	17.15	39 400	3.3	438	**2KJ4112 - ■ KM21 - ■ ■ K1**	
	D.169-LHN180LH4							
	13	16 000	111.69	69 400	0.87	620	**2KJ4213 - ■ KM21 - ■ ■ K1**	
	15	14 200	99.06	70 100	0.99	620	**2KJ4213 - ■ KM21 - ■ ■ J1**	
	16	13 000	90.94	70 500	1.1	620	**2KJ4213 - ■ KM21 - ■ ■ H1**	
	18	11 400	80.12	71 000	1.2	620	**2KJ4213 - ■ KM21 - ■ ■ G1**	
	22	9 420	65.72	71 800	1.5	620	**2KJ4213 - ■ KM21 - ■ ■ F1**	
	25	8 260	57.63	72 300	1.7	620	**2KJ4213 - ■ KM21 - ■ ■ E1**	
	33	6 460	45.06	72 900	2.2	620	**2KJ4213 - ■ KM21 - ■ ■ D1**	
	35	5 940	41.43	73 100	2.4	620	**2KJ4213 - ■ KM21 - ■ ■ C1**	
	40	5 210	36.33	73 400	2.7	620	**2KJ4213 - ■ KM21 - ■ ■ B1**	
	Z.169-LHN180LH4							
	40	5 240	36.55	73 400	2.3	576	**2KJ4113 - ■ KM21 - ■ ■ Q1**	
	D.189-LHN180LH4							
	8.9	23 500	164.36	107 000	0.81	834	**2KJ4214 - ■ KM21 - ■ ■ M1**	
	9.9	21 300	148.63	107 000	0.89	834	**2KJ4214 - ■ KM21 - ■ ■ L1**	
	11	18 800	131.17	107 000	1.0	834	**2KJ4214 - ■ KM21 - ■ ■ K1**	
	13	16 700	116.88	107 000	1.1	834	**2KJ4214 - ■ KM21 - ■ ■ J1**	
	14	15 100	105.89	107 000	1.3	834	**2KJ4214 - ■ KM21 - ■ ■ H1**	
	15	13 600	95.24	107 000	1.4	834	**2KJ4214 - ■ KM21 - ■ ■ G1**	
	19	11 300	79.14	107 000	1.7	834	**2KJ4214 - ■ KM21 - ■ ■ F1**	
	21	10 000	70.36	107 000	1.9	834	**2KJ4214 - ■ KM21 - ■ ■ E1**	
	26	8 040	56.08	107 000	2.4	834	**2KJ4214 - ■ KM21 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
30	**E.109-LHN200LM4**							
	482	595	3.04	7 500	0.92	331	**2KJ4005 - ■ LM21 - ■ ■ G1**	
	541	530	2.71	7 900	1.0	331	**2KJ4005 - ■ LM21 - ■ ■ F1**	
	801	355	1.83	8 300	1.5	331	**2KJ4005 - ■ LM21 - ■ ■ C1**	
	877	325	1.67	8 300	1.6	331	**2KJ4005 - ■ LM21 - ■ ■ B1**	
	1 024	280	1.43	8 100	1.7	331	**2KJ4005 - ■ LM21 - ■ ■ A1**	
	Z.109-LHN200LM4							
	89	3 220	16.48	15 200	0.82	370	**2KJ4110 - ■ LM21 - ■ ■ M1**	
	101	2 840	14.52	15 200	0.91	370	**2KJ4110 - ■ LM21 - ■ ■ L1**	
	115	2 480	12.72	15 200	1.0	370	**2KJ4110 - ■ LM21 - ■ ■ K1**	
	132	2 160	11.09	15 100	1.1	370	**2KJ4110 - ■ LM21 - ■ ■ J1**	
	145	1 970	10.12	15 000	1.2	370	**2KJ4110 - ■ LM21 - ■ ■ H1**	
	168	1 700	8.71	14 800	1.4	370	**2KJ4110 - ■ LM21 - ■ ■ G1**	
	174	1 640	8.41	14 400	1.4	370	**2KJ4110 - ■ LM21 - ■ ■ F1**	
	198	1 440	7.41	14 200	1.6	370	**2KJ4110 - ■ LM21 - ■ ■ E1**	
	225	1 270	6.5	13 900	1.8	370	**2KJ4110 - ■ LM21 - ■ ■ D1**	
	259	1 100	5.66	13 700	2.1	370	**2KJ4110 - ■ LM21 - ■ ■ C1**	
	283	1 010	5.17	13 400	2.3	370	**2KJ4110 - ■ LM21 - ■ ■ B1**	
	329	870	4.45	13 100	2.5	370	**2KJ4110 - ■ LM21 - ■ ■ A1**	
	E.129-LHN200LM4							
	399	715	3.67	10 200	1.1	354	**2KJ4006 - ■ LM21 - ■ ■ J1**	
	445	640	3.29	10 400	1.2	354	**2KJ4006 - ■ LM21 - ■ ■ H1**	
	503	565	2.91	10 300	1.4	354	**2KJ4006 - ■ LM21 - ■ ■ G1**	
	570	500	2.57	10 200	1.5	354	**2KJ4006 - ■ LM21 - ■ ■ F1**	
	648	440	2.26	10 000	1.7	354	**2KJ4006 - ■ LM21 - ■ ■ E1**	
	715	400	2.05	9 800	1.9	354	**2KJ4006 - ■ LM21 - ■ ■ D1**	
	823	345	1.78	9 600	2.2	354	**2KJ4006 - ■ LM21 - ■ ■ C1**	
	1 003	285	1.46	9 200	2.6	354	**2KJ4006 - ■ LM21 - ■ ■ B1**	
	1 181	240	1.24	8 900	3.1	354	**2KJ4006 - ■ LM21 - ■ ■ A1**	
	Z.129-LHN200LM4							
	63	4 570	23.41	22 200	1.1	430	**2KJ4111 - ■ LM21 - ■ ■ N1**	
	70	4 100	20.98	22 000	1.2	430	**2KJ4111 - ■ LM21 - ■ ■ M1**	
	79	3 630	18.6	21 800	1.4	430	**2KJ4111 - ■ LM21 - ■ ■ L1**	
	89	3 210	16.42	21 500	1.6	430	**2KJ4111 - ■ LM21 - ■ ■ K1**	
	102	2 820	14.43	21 100	1.8	430	**2KJ4111 - ■ LM21 - ■ ■ J1**	
	112	2 550	13.07	20 800	1.9	430	**2KJ4111 - ■ LM21 - ■ ■ H1**	
	129	2 220	11.38	20 400	2.1	430	**2KJ4111 - ■ LM21 - ■ ■ G1**	
	157	1 820	9.33	19 700	2.6	430	**2KJ4111 - ■ LM21 - ■ ■ F1**	
	172	1 660	8.53	18 900	2.2	430	**2KJ4111 - ■ LM21 - ■ ■ E1**	
	195	1 460	7.5	18 500	2.5	430	**2KJ4111 - ■ LM21 - ■ ■ D1**	
	216	1 320	6.79	18 100	2.7	430	**2KJ4111 - ■ LM21 - ■ ■ C1**	
	248	1 150	5.91	17 600	3.1	430	**2KJ4111 - ■ LM21 - ■ ■ B1**	
	302	945	4.85	16 800	3.4	430	**2KJ4111 - ■ LM21 - ■ ■ A1**	
	D.149-LHN200LM4							
	30	9 590	49.05	45 500	0.83	520	**2KJ4212 - ■ LM21 - ■ ■ E1**	
	34	8 500	43.51	44 900	0.94	520	**2KJ4212 - ■ LM21 - ■ ■ D1**	
	37	7 700	39.41	44 400	1.0	520	**2KJ4212 - ■ LM21 - ■ ■ C1**	
	43	6 710	34.31	43 500	1.2	520	**2KJ4212 - ■ LM21 - ■ ■ B1**	
	E.149-LHN200LM4							
	314	910	4.67	13 600	1.6	393	**2KJ4007 - ■ LM21 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
30	**E.149-LHN200LM4**							
	350	815	4.19	13 500	1.8	393	**2KJ4007 - ■ LM21 - ■ ■ J1**	
	392	730	3.74	13 200	2.0	393	**2KJ4007 - ■ LM21 - ■ ■ H1**	
	440	650	3.33	13 000	2.3	393	**2KJ4007 - ■ LM21 - ■ ■ G1**	
	495	575	2.96	12 800	2.5	393	**2KJ4007 - ■ LM21 - ■ ■ F1**	
	541	530	2.71	12 500	2.8	393	**2KJ4007 - ■ LM21 - ■ ■ E1**	
	613	465	2.39	12 300	3.1	393	**2KJ4007 - ■ LM21 - ■ ■ D1**	
	747	380	1.96	11 800	3.8	393	**2KJ4007 - ■ LM21 - ■ ■ C1**	
	852	335	1.72	11 400	4.3	393	**2KJ4007 - ■ LM21 - ■ ■ B1**	
	1 093	260	1.34	10 800	4.9	393	**2KJ4007 - ■ LM21 - ■ ■ A1**	
	Z.149-LHN200LM4							
	54	5 290	27.07	41 800	1.5	513	**2KJ4112 - ■ LM21 - ■ ■ P1**	
	60	4 750	24.3	41 000	1.7	513	**2KJ4112 - ■ LM21 - ■ ■ N1**	
	68	4 240	21.69	40 100	1.9	513	**2KJ4112 - ■ LM21 - ■ ■ M1**	
	76	3 780	19.33	39 100	2.1	513	**2KJ4112 - ■ LM21 - ■ ■ L1**	
	85	3 350	17.15	38 200	2.4	513	**2KJ4112 - ■ LM21 - ■ ■ K1**	
	93	3 070	15.74	37 500	2.6	513	**2KJ4112 - ■ LM21 - ■ ■ J1**	
	106	2 710	13.87	36 400	2.9	513	**2KJ4112 - ■ LM21 - ■ ■ H1**	
	129	2 220	11.38	34 800	3.6	513	**2KJ4112 - ■ LM21 - ■ ■ G1**	
	202	1 420	7.27	31 200	3.4	513	**2KJ4112 - ■ LM21 - ■ ■ D1**	
	246	1 160	5.96	29 600	4.2	513	**2KJ4112 - ■ LM21 - ■ ■ C1**	
	280	1 020	5.23	28 600	4.8	513	**2KJ4112 - ■ LM21 - ■ ■ B1**	
	D.169-LHN200LM4							
	18	15 600	80.12	69 500	0.89	697	**2KJ4213 - ■ LM21 - ■ ■ G1**	
	22	12 800	65.72	70 600	1.1	697	**2KJ4213 - ■ LM21 - ■ ■ F1**	
	25	11 200	57.63	71 100	1.2	697	**2KJ4213 - ■ LM21 - ■ ■ E1**	
	33	8 810	45.06	72 100	1.6	697	**2KJ4213 - ■ LM21 - ■ ■ D1**	
	35	8 100	41.43	72 300	1.7	697	**2KJ4213 - ■ LM21 - ■ ■ C1**	
	40	7 100	36.33	72 700	2.0	697	**2KJ4213 - ■ LM21 - ■ ■ B1**	
	Z.169-LHN200LM4							
	45	6 430	32.88	72 900	2.2	653	**2KJ4113 - ■ LM21 - ■ ■ P1**	
	50	5 740	29.38	73 200	2.4	653	**2KJ4113 - ■ LM21 - ■ ■ N1**	
	55	5 190	26.57	73 400	2.7	653	**2KJ4113 - ■ LM21 - ■ ■ M1**	
	D.189-LHN200LM4							
	13	22 800	116.88	107 000	0.83	911	**2KJ4214 - ■ LM21 - ■ ■ J1**	
	14	20 700	105.89	107 000	0.92	911	**2KJ4214 - ■ LM21 - ■ ■ H1**	
	15	18 600	95.24	107 000	1.0	911	**2KJ4214 - ■ LM21 - ■ ■ G1**	
	19	15 400	79.14	107 000	1.2	911	**2KJ4214 - ■ LM21 - ■ ■ F1**	
	21	13 700	70.36	107 000	1.4	911	**2KJ4214 - ■ LM21 - ■ ■ E1**	
	26	10 900	56.08	107 000	1.7	911	**2KJ4214 - ■ LM21 - ■ ■ D1**	
	33	8 720	44.63	107 000	2.2	911	**2KJ4214 - ■ LM21 - ■ ■ C1**	
	40	7 170	36.67	107 000	2.6	911	**2KJ4214 - ■ LM21 - ■ ■ B1**	
37	**E.109-LHN225S4**							
	546	645	2.71	5 900	0.84	331	**2KJ4005 - ■ ME21 - ■ ■ F1**	
	Z.109-LHN225S4							
	116	3 030	12.72	13 800	0.83	369	**2KJ4110 - ■ ME21 - ■ ■ K1**	
	133	2 640	11.09	13 900	0.93	369	**2KJ4110 - ■ ME21 - ■ ■ J1**	
	146	2 410	10.12	13 900	1.0	369	**2KJ4110 - ■ ME21 - ■ ■ H1**	
	170	2 080	8.71	13 800	1.1	369	**2KJ4110 - ■ ME21 - ■ ■ G1**	
	176	2 000	8.41	13 400	1.1	369	**2KJ4110 - ■ ME21 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
37	**Z.109-LHN225S4**							
	200	1 760	7.41	13 300	1.3	369	**2KJ4110 - ■ ME21 - ■ ■ E1**	
	228	1 550	6.5	13 200	1.5	369	**2KJ4110 - ■ ME21 - ■ ■ D1**	
	261	1 350	5.66	13 000	1.7	369	**2KJ4110 - ■ ME21 - ■ ■ C1**	
	286	1 230	5.17	12 800	1.8	369	**2KJ4110 - ■ ME21 - ■ ■ B1**	
	333	1 060	4.45	12 600	2.0	369	**2KJ4110 - ■ ME21 - ■ ■ A1**	
	E.129-LHN225S4							
	450	785	3.29	8 400	0.99	352	**2KJ4006 - ■ ME21 - ■ ■ H1**	
	509	695	2.91	8 700	1.1	352	**2KJ4006 - ■ ME21 - ■ ■ G1**	
	722	485	2.05	9 200	1.6	352	**2KJ4006 - ■ ME21 - ■ ■ D1**	
	831	425	1.78	9 000	1.8	352	**2KJ4006 - ■ ME21 - ■ ■ C1**	
	1 014	345	1.46	8 700	2.2	352	**2KJ4006 - ■ ME21 - ■ ■ B1**	
	1 194	295	1.24	8 500	2.5	352	**2KJ4006 - ■ ME21 - ■ ■ A1**	
	Z.129-LHN225S4							
	71	5 000	20.98	20 400	1.0	429	**2KJ4111 - ■ ME21 - ■ ■ M1**	
	80	4 440	18.6	20 300	1.1	429	**2KJ4111 - ■ ME21 - ■ ■ L1**	
	90	3 920	16.42	20 200	1.3	429	**2KJ4111 - ■ ME21 - ■ ■ K1**	
	103	3 440	14.43	20 000	1.4	429	**2KJ4111 - ■ ME21 - ■ ■ J1**	
	113	3 120	13.07	19 800	1.6	429	**2KJ4111 - ■ ME21 - ■ ■ H1**	
	130	2 710	11.38	19 500	1.8	429	**2KJ4111 - ■ ME21 - ■ ■ G1**	
	159	2 220	9.33	18 900	2.1	429	**2KJ4111 - ■ ME21 - ■ ■ F1**	
	174	2 030	8.53	18 100	1.8	429	**2KJ4111 - ■ ME21 - ■ ■ E1**	
	197	1 790	7.5	17 700	2.0	429	**2KJ4111 - ■ ME21 - ■ ■ D1**	
	218	1 620	6.79	17 500	2.2	429	**2KJ4111 - ■ ME21 - ■ ■ C1**	
	250	1 410	5.91	17 000	2.6	429	**2KJ4111 - ■ ME21 - ■ ■ B1**	
	305	1 150	4.85	16 400	2.8	429	**2KJ4111 - ■ ME21 - ■ ■ A1**	
	D.149-LHN225S4							
	38	9 400	39.41	41 900	0.85	512	**2KJ4212 - ■ ME21 - ■ ■ C1**	
	43	8 190	34.31	41 300	0.98	512	**2KJ4212 - ■ ME21 - ■ ■ B1**	
	53	6 710	28.13	40 300	1.2	512	**2KJ4212 - ■ ME21 - ■ ■ A1**	
	E.149-LHN225S4							
	353	1 000	4.19	12 600	1.5	385	**2KJ4007 - ■ ME21 - ■ ■ J1**	
	396	890	3.74	12 500	1.7	385	**2KJ4007 - ■ ME21 - ■ ■ H1**	
	444	795	3.33	12 300	1.9	385	**2KJ4007 - ■ ME21 - ■ ■ G1**	
	500	705	2.96	12 100	2.1	385	**2KJ4007 - ■ ME21 - ■ ■ F1**	
	546	645	2.71	12 000	2.3	385	**2KJ4007 - ■ ME21 - ■ ■ E1**	
	619	570	2.39	11 700	2.6	385	**2KJ4007 - ■ ME21 - ■ ■ D1**	
	755	465	1.96	11 300	3.1	385	**2KJ4007 - ■ ME21 - ■ ■ C1**	
	860	410	1.72	11 000	3.6	385	**2KJ4007 - ■ ME21 - ■ ■ B1**	
	1 104	320	1.34	10 400	4.0	385	**2KJ4007 - ■ ME21 - ■ ■ A1**	
	Z.149-LHN225S4							
	61	5 800	24.3	39 400	1.4	506	**2KJ4112 - ■ ME21 - ■ ■ N1**	
	68	5 170	21.69	38 700	1.5	506	**2KJ4112 - ■ ME21 - ■ ■ M1**	
	77	4 610	19.33	37 900	1.7	506	**2KJ4112 - ■ ME21 - ■ ■ L1**	
	86	4 090	17.15	37 000	2.0	506	**2KJ4112 - ■ ME21 - ■ ■ K1**	
	94	3 750	15.74	36 400	2.1	506	**2KJ4112 - ■ ME21 - ■ ■ J1**	
	107	3 310	13.87	35 500	2.4	506	**2KJ4112 - ■ ME21 - ■ ■ H1**	
	130	2 710	11.38	34 000	2.9	506	**2KJ4112 - ■ ME21 - ■ ■ G1**	
	148	2 380	9.98	33 000	3.4	506	**2KJ4112 - ■ ME21 - ■ ■ F1**	
	190	1 860	7.8	31 100	4.3	506	**2KJ4112 - ■ ME21 - ■ ■ E1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
37	**Z.149-LHN225S4**							
	204	1 730	7.27	30 700	2.8	506	**2KJ4112 - ■ ME21 - ■ ■ D1**	
	248	1 420	5.96	29 200	3.4	506	**2KJ4112 - ■ ME21 - ■ ■ C1**	
	283	1 240	5.23	28 200	3.9	506	**2KJ4112 - ■ ME21 - ■ ■ B1**	
	362	975	4.09	26 400	5.0	506	**2KJ4112 - ■ ME21 - ■ ■ A1**	
	D.169-LHN225S4							
	23	15 600	65.72	69 500	0.89	685	**2KJ4213 - ■ ME21 - ■ ■ F1**	
	26	13 700	57.63	70 200	1.0	685	**2KJ4213 - ■ ME21 - ■ ■ E1**	
	33	10 700	45.06	71 300	1.3	685	**2KJ4213 - ■ ME21 - ■ ■ D1**	
	36	9 890	41.43	71 700	1.4	685	**2KJ4213 - ■ ME21 - ■ ■ C1**	
	41	8 670	36.33	72 100	1.6	685	**2KJ4213 - ■ ME21 - ■ ■ B1**	
	Z.169-LHN225S4							
	50	7 010	29.38	72 700	2.0	641	**2KJ4113 - ■ ME21 - ■ ■ N1**	
	56	6 340	26.57	72 000	2.2	641	**2KJ4113 - ■ ME21 - ■ ■ M1**	
	63	5 590	23.45	70 000	2.5	641	**2KJ4113 - ■ ME21 - ■ ■ L1**	
	71	4 990	20.9	68 200	2.8	641	**2KJ4113 - ■ ME21 - ■ ■ K1**	
	78	4 520	18.93	66 600	3.1	641	**2KJ4113 - ■ ME21 - ■ ■ J1**	
	D.189-LHN225S4							
	16	22 700	95.24	107 000	0.84	898	**2KJ4214 - ■ ME21 - ■ ■ G1**	
	19	18 800	79.14	107 000	1.0	898	**2KJ4214 - ■ ME21 - ■ ■ F1**	
	21	16 700	70.36	107 000	1.1	898	**2KJ4214 - ■ ME21 - ■ ■ E1**	
	26	13 300	56.08	107 000	1.4	898	**2KJ4214 - ■ ME21 - ■ ■ D1**	
	33	10 600	44.63	107 000	1.8	898	**2KJ4214 - ■ ME21 - ■ ■ C1**	
	Z.189-LHN225S4							
	43	8 170	34.25	107 000	2.3	817	**2KJ4114 - ■ ME21 - ■ ■ L1**	
	48	7 330	30.73	107 000	2.6	817	**2KJ4114 - ■ ME21 - ■ ■ K1**	
	54	6 550	27.46	105 100	2.9	817	**2KJ4114 - ■ ME21 - ■ ■ J1**	
	E.109-LHN225S4E							
	546	645	2.71	10 500	0.84	331	**2KJ4005 - ■ ME22 - ■ ■ F1**	
	Z.109-LHN225S4E							
	116	3 030	12.72	20 200	0.83	369	**2KJ4110 - ■ ME22 - ■ ■ K1**	
	133	2 640	11.09	20 000	0.93	369	**2KJ4110 - ■ ME22 - ■ ■ J1**	
	146	2 410	10.12	19 400	1.0	369	**2KJ4110 - ■ ME22 - ■ ■ H1**	
	170	2 080	8.71	18 600	1.1	369	**2KJ4110 - ■ ME22 - ■ ■ G1**	
	176	2 000	8.41	18 400	1.1	369	**2KJ4110 - ■ ME22 - ■ ■ F1**	
	200	1 760	7.41	17 700	1.3	369	**2KJ4110 - ■ ME22 - ■ ■ E1**	
	228	1 550	6.5	17 000	1.5	369	**2KJ4110 - ■ ME22 - ■ ■ D1**	
	261	1 350	5.66	16 300	1.7	369	**2KJ4110 - ■ ME22 - ■ ■ C1**	
	286	1 230	5.17	15 900	1.8	369	**2KJ4110 - ■ ME22 - ■ ■ B1**	
	333	1 060	4.45	15 200	2.0	369	**2KJ4110 - ■ ME22 - ■ ■ A1**	
	E.129-LHN225S4E							
	450	785	3.29	13 500	0.99	352	**2KJ4006 - ■ ME22 - ■ ■ H1**	
	509	695	2.91	13 500	1.1	352	**2KJ4006 - ■ ME22 - ■ ■ G1**	
	722	485	2.05	12 200	1.6	352	**2KJ4006 - ■ ME22 - ■ ■ D1**	
	831	425	1.78	11 700	1.8	352	**2KJ4006 - ■ ME22 - ■ ■ C1**	
	1 014	345	1.46	11 000	2.2	352	**2KJ4006 - ■ ME22 - ■ ■ B1**	
	1 194	295	1.24	10 500	2.5	352	**2KJ4006 - ■ ME22 - ■ ■ A1**	
	Z.129-LHN225S4E							
	71	5 000	20.98	28 800	1.0	429	**2KJ4111 - ■ ME22 - ■ ■ M1**	
	80	4 440	18.6	27 800	1.1	429	**2KJ4111 - ■ ME22 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
37	**Z.129-LHN225S4E**							
	90	3 920	16.42	26 800	1.3	429	**2KJ4111 - ■ ME22 - ■ ■ K1**	
	103	3 440	14.43	25 800	1.4	429	**2KJ4111 - ■ ME22 - ■ ■ J1**	
	113	3 120	13.07	25 000	1.6	429	**2KJ4111 - ■ ME22 - ■ ■ H1**	
	130	2 710	11.38	24 000	1.8	429	**2KJ4111 - ■ ME22 - ■ ■ G1**	
	159	2 220	9.33	22 600	2.1	429	**2KJ4111 - ■ ME22 - ■ ■ F1**	
	174	2 030	8.53	22 000	1.8	429	**2KJ4111 - ■ ME22 - ■ ■ E1**	
	197	1 790	7.5	21 200	2.0	429	**2KJ4111 - ■ ME22 - ■ ■ D1**	
	218	1 620	6.79	20 600	2.2	429	**2KJ4111 - ■ ME22 - ■ ■ C1**	
	250	1 410	5.91	19 700	2.6	429	**2KJ4111 - ■ ME22 - ■ ■ B1**	
	305	1 150	4.85	18 600	2.8	429	**2KJ4111 - ■ ME22 - ■ ■ A1**	
	D.149-LHN225S4E							
	38	9 400	39.41	54 500	0.85	512	**2KJ4212 - ■ ME22 - ■ ■ C1**	
	43	8 190	34.31	52 300	0.98	512	**2KJ4212 - ■ ME22 - ■ ■ B1**	
	53	6 710	28.13	49 300	1.2	512	**2KJ4212 - ■ ME22 - ■ ■ A1**	
	E.149-LHN225S4E							
	353	1 000	4.19	16 000	1.5	385	**2KJ4007 - ■ ME22 - ■ ■ J1**	
	396	890	3.74	16 000	1.7	385	**2KJ4007 - ■ ME22 - ■ ■ H1**	
	444	795	3.33	15 900	1.9	385	**2KJ4007 - ■ ME22 - ■ ■ G1**	
	500	705	2.96	15 400	2.1	385	**2KJ4007 - ■ ME22 - ■ ■ F1**	
	546	645	2.71	15 000	2.3	385	**2KJ4007 - ■ ME22 - ■ ■ E1**	
	619	570	2.39	14 400	2.6	385	**2KJ4007 - ■ ME22 - ■ ■ D1**	
	755	465	1.96	13 600	3.1	385	**2KJ4007 - ■ ME22 - ■ ■ C1**	
	860	410	1.72	13 100	3.6	385	**2KJ4007 - ■ ME22 - ■ ■ B1**	
	1 104	320	1.34	12 100	4.0	385	**2KJ4007 - ■ ME22 - ■ ■ A1**	
	Z.149-LHN225S4E							
	61	5 800	24.3	47 200	1.4	506	**2KJ4112 - ■ ME22 - ■ ■ N1**	
	68	5 170	21.69	45 600	1.5	506	**2KJ4112 - ■ ME22 - ■ ■ M1**	
	77	4 610	19.33	44 100	1.7	506	**2KJ4112 - ■ ME22 - ■ ■ L1**	
	86	4 090	17.15	42 500	2.0	506	**2KJ4112 - ■ ME22 - ■ ■ K1**	
	94	3 750	15.74	41 400	2.1	506	**2KJ4112 - ■ ME22 - ■ ■ J1**	
	107	3 310	13.87	39 900	2.4	506	**2KJ4112 - ■ ME22 - ■ ■ H1**	
	130	2 710	11.38	37 600	2.9	506	**2KJ4112 - ■ ME22 - ■ ■ G1**	
	148	2 380	9.98	36 200	3.4	506	**2KJ4112 - ■ ME22 - ■ ■ F1**	
	190	1 860	7.8	33 600	4.3	506	**2KJ4112 - ■ ME22 - ■ ■ E1**	
	204	1 730	7.27	32 900	2.8	506	**2KJ4112 - ■ ME22 - ■ ■ D1**	
	248	1 420	5.96	31 000	3.4	506	**2KJ4112 - ■ ME22 - ■ ■ C1**	
	283	1 240	5.23	29 800	3.9	506	**2KJ4112 - ■ ME22 - ■ ■ B1**	
	362	975	4.09	27 700	5.0	506	**2KJ4112 - ■ ME22 - ■ ■ A1**	
	D.169-LHN225S4E							
	23	15 600	65.72	75 600	0.89	685	**2KJ4213 - ■ ME22 - ■ ■ F1**	
	26	13 700	57.63	75 600	1.0	685	**2KJ4213 - ■ ME22 - ■ ■ E1**	
	33	10 700	45.06	75 700	1.3	685	**2KJ4213 - ■ ME22 - ■ ■ D1**	
	36	9 890	41.43	75 700	1.4	685	**2KJ4213 - ■ ME22 - ■ ■ C1**	
	41	8 670	36.33	75 700	1.6	685	**2KJ4213 - ■ ME22 - ■ ■ B1**	
	Z.169-LHN225S4E							
	50	7 010	29.38	75 700	2.0	641	**2KJ4113 - ■ ME22 - ■ ■ N1**	
	56	6 340	26.57	75 700	2.2	641	**2KJ4113 - ■ ME22 - ■ ■ M1**	
	63	5 590	23.45	75 700	2.5	641	**2KJ4113 - ■ ME22 - ■ ■ L1**	
	71	4 990	20.9	74 300	2.8	641	**2KJ4113 - ■ ME22 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
37	**Z.169-LHN225S4E**							
	78	4 520	18.93	72 100	3.1	641	**2KJ4113 - ■ ME22 - ■ ■ J1**	
	D.189-LHN225S4E							
	16	22 700	95.24	107 000	0.84	898	**2KJ4214 - ■ ME22 - ■ ■ G1**	
	19	18 800	79.14	107 000	1.0	898	**2KJ4214 - ■ ME22 - ■ ■ F1**	
	21	16 700	70.36	107 000	1.1	898	**2KJ4214 - ■ ME22 - ■ ■ E1**	
	26	13 300	56.08	107 000	1.4	898	**2KJ4214 - ■ ME22 - ■ ■ D1**	
	33	10 600	44.63	107 000	1.8	898	**2KJ4214 - ■ ME22 - ■ ■ C1**	
	Z.189-LHN225S4E							
	43	8 170	34.25	107 000	2.3	817	**2KJ4114 - ■ ME22 - ■ ■ L1**	
	48	7 330	30.73	107 000	2.6	817	**2KJ4114 - ■ ME22 - ■ ■ K1**	
	54	6 550	27.46	107 000	2.9	817	**2KJ4114 - ■ ME22 - ■ ■ J1**	
45	**Z.109-LHN225M4**							
	146	2 930	10.12	12 700	0.83	428	**2KJ4110 - ■ MP21 - ■ ■ H1**	
	170	2 520	8.71	12 800	0.94	428	**2KJ4110 - ■ MP21 - ■ ■ G1**	
	176	2 440	8.41	12 300	0.94	428	**2KJ4110 - ■ MP21 - ■ ■ F1**	
	200	2 150	7.41	12 300	1.1	428	**2KJ4110 - ■ MP21 - ■ ■ E1**	
	228	1 880	6.5	12 300	1.2	428	**2KJ4110 - ■ MP21 - ■ ■ D1**	
	261	1 640	5.66	12 200	1.4	428	**2KJ4110 - ■ MP21 - ■ ■ C1**	
	286	1 500	5.17	12 200	1.5	428	**2KJ4110 - ■ MP21 - ■ ■ B1**	
	333	1 290	4.45	12 000	1.7	428	**2KJ4110 - ■ MP21 - ■ ■ A1**	
	E.129-LHN225M4							
	450	955	3.29	6 100	0.82	414	**2KJ4006 - ■ MP21 - ■ ■ H1**	
	509	845	2.91	6 600	0.91	414	**2KJ4006 - ■ MP21 - ■ ■ G1**	
	831	515	1.78	7 700	1.5	414	**2KJ4006 - ■ MP21 - ■ ■ C1**	
	1 014	420	1.46	7 900	1.8	414	**2KJ4006 - ■ MP21 - ■ ■ B1**	
	1 194	360	1.24	7 800	2.1	414	**2KJ4006 - ■ MP21 - ■ ■ A1**	
	Z.129-LHN225M4							
	71	6 090	20.98	12 900	0.82	490	**2KJ4111 - ■ MP21 - ■ ■ M1**	
	80	5 400	18.6	16 700	0.93	490	**2KJ4111 - ■ MP21 - ■ ■ L1**	
	90	4 760	16.42	18 800	1.0	490	**2KJ4111 - ■ MP21 - ■ ■ K1**	
	103	4 190	14.43	18 700	1.2	490	**2KJ4111 - ■ MP21 - ■ ■ J1**	
	113	3 790	13.07	18 600	1.3	490	**2KJ4111 - ■ MP21 - ■ ■ H1**	
	130	3 300	11.38	18 400	1.4	490	**2KJ4111 - ■ MP21 - ■ ■ G1**	
	159	2 700	9.33	18 100	1.7	490	**2KJ4111 - ■ MP21 - ■ ■ F1**	
	174	2 470	8.53	17 300	1.5	490	**2KJ4111 - ■ MP21 - ■ ■ E1**	
	197	2 170	7.5	17 000	1.7	490	**2KJ4111 - ■ MP21 - ■ ■ D1**	
	218	1 970	6.79	16 800	1.8	490	**2KJ4111 - ■ MP21 - ■ ■ C1**	
	250	1 710	5.91	16 400	2.1	490	**2KJ4111 - ■ MP21 - ■ ■ B1**	
	305	1 400	4.85	15 900	2.3	490	**2KJ4111 - ■ MP21 - ■ ■ A1**	
	D.149-LHN225M4							
	43	9 960	34.31	38 900	0.8	581	**2KJ4212 - ■ MP21 - ■ ■ B1**	
	53	8 160	28.13	38 300	0.98	581	**2KJ4212 - ■ MP21 - ■ ■ A1**	
	E.149-LHN225M4							
	353	1 210	4.19	10 600	1.2	454	**2KJ4007 - ■ MP21 - ■ ■ J1**	
	396	1 080	3.74	11 000	1.4	454	**2KJ4007 - ■ MP21 - ■ ■ H1**	
	444	965	3.33	11 200	1.5	454	**2KJ4007 - ■ MP21 - ■ ■ G1**	
	500	860	2.96	11 400	1.7	454	**2KJ4007 - ■ MP21 - ■ ■ F1**	
	546	785	2.71	11 300	1.9	454	**2KJ4007 - ■ MP21 - ■ ■ E1**	
	619	690	2.39	11 100	2.1	454	**2KJ4007 - ■ MP21 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
45	**E.149-LHN225M4**							
	755	565	1.96	10 800	2.6	454	**2KJ4007 - ■ MP21 - ■ ■ C1**	
	860	495	1.72	10 500	2.9	454	**2KJ4007 - ■ MP21 - ■ ■ B1**	
	1 104	385	1.34	10 100	3.3	454	**2KJ4007 - ■ MP21 - ■ ■ A1**	
	Z.149-LHN225M4							
	61	7 050	24.3	37 700	1.1	574	**2KJ4112 - ■ MP21 - ■ ■ N1**	
	68	6 290	21.69	37 100	1.3	574	**2KJ4112 - ■ MP21 - ■ ■ M1**	
	77	5 610	19.33	36 500	1.4	574	**2KJ4112 - ■ MP21 - ■ ■ L1**	
	86	4 980	17.15	35 800	1.6	574	**2KJ4112 - ■ MP21 - ■ ■ K1**	
	94	4 570	15.74	35 300	1.8	574	**2KJ4112 - ■ MP21 - ■ ■ J1**	
	107	4 020	13.87	34 500	2.0	574	**2KJ4112 - ■ MP21 - ■ ■ H1**	
	130	3 300	11.38	33 200	2.4	574	**2KJ4112 - ■ MP21 - ■ ■ G1**	
	148	2 890	9.98	32 300	2.8	574	**2KJ4112 - ■ MP21 - ■ ■ F1**	
	190	2 260	7.8	30 500	3.5	574	**2KJ4112 - ■ MP21 - ■ ■ E1**	
	204	2 110	7.27	30 200	2.3	574	**2KJ4112 - ■ MP21 - ■ ■ D1**	
	248	1 730	5.96	28 800	2.8	574	**2KJ4112 - ■ MP21 - ■ ■ C1**	
	283	1 510	5.23	27 900	3.2	574	**2KJ4112 - ■ MP21 - ■ ■ B1**	
	362	1 180	4.09	26 200	4.1	574	**2KJ4112 - ■ MP21 - ■ ■ A1**	
	D.169-LHN225M4							
	26	16 700	57.63	69 100	0.84	756	**2KJ4213 - ■ MP21 - ■ ■ E1**	
	33	13 000	45.06	70 500	1.1	756	**2KJ4213 - ■ MP21 - ■ ■ D1**	
	36	12 000	41.43	70 900	1.2	756	**2KJ4213 - ■ MP21 - ■ ■ C1**	
	41	10 500	36.33	71 400	1.3	756	**2KJ4213 - ■ MP21 - ■ ■ B1**	
	Z.169-LHN225M4							
	50	8 530	29.38	71 800	1.6	712	**2KJ4113 - ■ MP21 - ■ ■ N1**	
	56	7 710	26.57	70 300	1.8	712	**2KJ4113 - ■ MP21 - ■ ■ M1**	
	63	6 800	23.45	68 500	2.1	712	**2KJ4113 - ■ MP21 - ■ ■ L1**	
	71	6 060	20.9	66 800	2.3	712	**2KJ4113 - ■ MP21 - ■ ■ K1**	
	78	5 490	18.93	65 400	2.5	712	**2KJ4113 - ■ MP21 - ■ ■ J1**	
	87	4 940	17.03	63 800	2.8	712	**2KJ4113 - ■ MP21 - ■ ■ H1**	
	105	4 100	14.15	61 100	3.4	712	**2KJ4113 - ■ MP21 - ■ ■ G1**	
	201	2 140	7.37	51 700	3.7	712	**2KJ4113 - ■ MP21 - ■ ■ C1**	
	252	1 700	5.88	48 700	4.6	712	**2KJ4113 - ■ MP21 - ■ ■ B1**	
	D.189-LHN225M4							
	19	22 900	79.14	107 000	0.83	970	**2KJ4214 - ■ MP21 - ■ ■ F1**	
	21	20 400	70.36	107 000	0.93	970	**2KJ4214 - ■ MP21 - ■ ■ E1**	
	26	16 200	56.08	107 000	1.2	970	**2KJ4214 - ■ MP21 - ■ ■ D1**	
	33	12 900	44.63	107 000	1.5	970	**2KJ4214 - ■ MP21 - ■ ■ C1**	
	Z.189-LHN225M4							
	43	9 940	34.25	107 000	1.9	888	**2KJ4114 - ■ MP21 - ■ ■ L1**	
	48	8 920	30.73	106 700	2.1	888	**2KJ4114 - ■ MP21 - ■ ■ K1**	
	54	7 970	27.46	103 800	2.4	888	**2KJ4114 - ■ MP21 - ■ ■ J1**	
	60	7 120	24.53	100 900	2.7	888	**2KJ4114 - ■ MP21 - ■ ■ H1**	
	66	6 510	22.44	98 600	2.9	888	**2KJ4114 - ■ MP21 - ■ ■ G1**	
	Z.109-LHN225M4E							
	146	2 930	10.12	19 400	0.83	428	**2KJ4110 - ■ MP22 - ■ ■ H1**	
	170	2 520	8.71	18 600	0.94	428	**2KJ4110 - ■ MP22 - ■ ■ G1**	
	176	2 440	8.41	18 400	0.94	428	**2KJ4110 - ■ MP22 - ■ ■ F1**	
	200	2 150	7.41	17 700	1.1	428	**2KJ4110 - ■ MP22 - ■ ■ E1**	
	228	1 880	6.5	17 000	1.2	428	**2KJ4110 - ■ MP22 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
45	**Z.109-LHN225M4E**							
	261	1 640	5.66	16 300	1.4	428	**2KJ4110 - ■ MP22 - ■ ■ C1**	
	286	1 500	5.17	15 900	1.5	428	**2KJ4110 - ■ MP22 - ■ ■ B1**	
	333	1 290	4.45	15 200	1.7	428	**2KJ4110 - ■ MP22 - ■ ■ A1**	
	E.129-LHN225M4E							
	450	955	3.29	13 500	0.82	414	**2KJ4006 - ■ MP22 - ■ ■ H1**	
	509	845	2.91	13 500	0.91	414	**2KJ4006 - ■ MP22 - ■ ■ G1**	
	831	515	1.78	11 700	1.5	414	**2KJ4006 - ■ MP22 - ■ ■ C1**	
	1 014	420	1.46	11 000	1.8	414	**2KJ4006 - ■ MP22 - ■ ■ B1**	
	1 194	360	1.24	10 500	2.1	414	**2KJ4006 - ■ MP22 - ■ ■ A1**	
	Z.129-LHN225M4E							
	71	6 090	20.98	28 800	0.82	490	**2KJ4111 - ■ MP22 - ■ ■ M1**	
	80	5 400	18.6	27 800	0.93	490	**2KJ4111 - ■ MP22 - ■ ■ L1**	
	90	4 760	16.42	26 800	1.0	490	**2KJ4111 - ■ MP22 - ■ ■ K1**	
	103	4 190	14.43	25 800	1.2	490	**2KJ4111 - ■ MP22 - ■ ■ J1**	
	113	3 790	13.07	25 000	1.3	490	**2KJ4111 - ■ MP22 - ■ ■ H1**	
	130	3 300	11.38	24 000	1.4	490	**2KJ4111 - ■ MP22 - ■ ■ G1**	
	159	2 700	9.33	22 600	1.7	490	**2KJ4111 - ■ MP22 - ■ ■ F1**	
	174	2 470	8.53	22 000	1.5	490	**2KJ4111 - ■ MP22 - ■ ■ E1**	
	197	2 170	7.5	21 200	1.7	490	**2KJ4111 - ■ MP22 - ■ ■ D1**	
	218	1 970	6.79	20 600	1.8	490	**2KJ4111 - ■ MP22 - ■ ■ C1**	
	250	1 710	5.91	19 700	2.1	490	**2KJ4111 - ■ MP22 - ■ ■ B1**	
	305	1 400	4.85	18 600	2.3	490	**2KJ4111 - ■ MP22 - ■ ■ A1**	
	D.149-LHN225M4E							
	43	9 960	34.31	52 300	0.8	581	**2KJ4212 - ■ MP22 - ■ ■ B1**	
	53	8 160	28.13	49 300	0.98	581	**2KJ4212 - ■ MP22 - ■ ■ A1**	
	E.149-LHN225M4E							
	353	1 210	4.19	16 000	1.2	454	**2KJ4007 - ■ MP22 - ■ ■ J1**	
	396	1 080	3.74	16 000	1.4	454	**2KJ4007 - ■ MP22 - ■ ■ H1**	
	444	965	3.33	15 900	1.5	454	**2KJ4007 - ■ MP22 - ■ ■ G1**	
	500	860	2.96	15 400	1.7	454	**2KJ4007 - ■ MP22 - ■ ■ F1**	
	546	785	2.71	15 000	1.9	454	**2KJ4007 - ■ MP22 - ■ ■ E1**	
	619	690	2.39	14 400	2.1	454	**2KJ4007 - ■ MP22 - ■ ■ D1**	
	755	565	1.96	13 600	2.6	454	**2KJ4007 - ■ MP22 - ■ ■ C1**	
	860	495	1.72	13 100	2.9	454	**2KJ4007 - ■ MP22 - ■ ■ B1**	
	1 104	385	1.34	12 100	3.3	454	**2KJ4007 - ■ MP22 - ■ ■ A1**	
	Z.149-LHN225M4E							
	61	7 050	24.3	47 200	1.1	574	**2KJ4112 - ■ MP22 - ■ ■ N1**	
	68	6 290	21.69	45 600	1.3	574	**2KJ4112 - ■ MP22 - ■ ■ M1**	
	77	5 610	19.33	44 100	1.4	574	**2KJ4112 - ■ MP22 - ■ ■ L1**	
	86	4 980	17.15	42 500	1.6	574	**2KJ4112 - ■ MP22 - ■ ■ K1**	
	94	4 570	15.74	41 400	1.8	574	**2KJ4112 - ■ MP22 - ■ ■ J1**	
	107	4 020	13.87	39 900	2.0	574	**2KJ4112 - ■ MP22 - ■ ■ H1**	
	130	3 300	11.38	37 600	2.4	574	**2KJ4112 - ■ MP22 - ■ ■ G1**	
	148	2 890	9.98	36 200	2.8	574	**2KJ4112 - ■ MP22 - ■ ■ F1**	
	190	2 260	7.8	33 600	3.5	574	**2KJ4112 - ■ MP22 - ■ ■ E1**	
	204	2 110	7.27	32 900	2.3	574	**2KJ4112 - ■ MP22 - ■ ■ D1**	
	248	1 730	5.96	31 000	2.8	574	**2KJ4112 - ■ MP22 - ■ ■ C1**	
	283	1 510	5.23	29 800	3.2	574	**2KJ4112 - ■ MP22 - ■ ■ B1**	
	362	1 180	4.09	27 700	4.1	574	**2KJ4112 - ■ MP22 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
45	**D.169-LHN225M4E**							
	26	16 700	57.63	75 600	0.84	756	**2KJ4213 - ■ MP22 - ■ ■ E1**	
	33	13 000	45.06	75 700	1.1	756	**2KJ4213 - ■ MP22 - ■ ■ D1**	
	36	12 000	41.43	75 700	1.2	756	**2KJ4213 - ■ MP22 - ■ ■ C1**	
	41	10 500	36.33	75 700	1.3	756	**2KJ4213 - ■ MP22 - ■ ■ B1**	
	Z.169-LHN225M4E							
	50	8 530	29.38	75 700	1.6	712	**2KJ4113 - ■ MP22 - ■ ■ N1**	
	56	7 710	26.57	75 700	1.8	712	**2KJ4113 - ■ MP22 - ■ ■ M1**	
	63	6 800	23.45	75 700	2.1	712	**2KJ4113 - ■ MP22 - ■ ■ L1**	
	71	6 060	20.9	74 300	2.3	712	**2KJ4113 - ■ MP22 - ■ ■ K1**	
	78	5 490	18.93	72 100	2.5	712	**2KJ4113 - ■ MP22 - ■ ■ J1**	
	87	4 940	17.03	69 800	2.8	712	**2KJ4113 - ■ MP22 - ■ ■ H1**	
	105	4 100	14.15	66 100	3.4	712	**2KJ4113 - ■ MP22 - ■ ■ G1**	
	201	2 140	7.37	54 300	3.7	712	**2KJ4113 - ■ MP22 - ■ ■ C1**	
	252	1 700	5.88	50 800	4.6	712	**2KJ4113 - ■ MP22 - ■ ■ B1**	
	D.189-LHN225M4E							
	19	22 900	79.14	107 000	0.83	970	**2KJ4214 - ■ MP22 - ■ ■ F1**	
	21	20 400	70.36	107 000	0.93	970	**2KJ4214 - ■ MP22 - ■ ■ E1**	
	26	16 200	56.08	107 000	1.2	970	**2KJ4214 - ■ MP22 - ■ ■ D1**	
	33	12 900	44.63	107 000	1.5	970	**2KJ4214 - ■ MP22 - ■ ■ C1**	
	Z.189-LHN225M4E							
	43	9 940	34.25	107 000	1.9	888	**2KJ4114 - ■ MP22 - ■ ■ L1**	
	48	8 920	30.73	107 000	2.1	888	**2KJ4114 - ■ MP22 - ■ ■ K1**	
	54	7 970	27.46	107 000	2.4	888	**2KJ4114 - ■ MP22 - ■ ■ J1**	
	60	7 120	24.53	107 000	2.7	888	**2KJ4114 - ■ MP22 - ■ ■ H1**	
	66	6 510	22.44	104 500	2.9	888	**2KJ4114 - ■ MP22 - ■ ■ G1**	
55	**E.129-LHN250M4**							
	1 010	520	1.46	6 200	1.5	452	**2KJ4006 - ■ NL21 - ■ ■ B1**	
	1 190	440	1.24	6 400	1.7	452	**2KJ4006 - ■ NL21 - ■ ■ A1**	
	Z.129-LHN250M4							
	90	5 840	16.42	10 500	0.86	529	**2KJ4111 - ■ NL21 - ■ ■ K1**	
	102	5 130	14.43	14 400	0.96	529	**2KJ4111 - ■ NL21 - ■ ■ J1**	
	113	4 650	13.07	16 900	1.0	529	**2KJ4111 - ■ NL21 - ■ ■ H1**	
	130	4 050	11.38	17 200	1.2	529	**2KJ4111 - ■ NL21 - ■ ■ G1**	
	158	3 320	9.33	17 000	1.4	529	**2KJ4111 - ■ NL21 - ■ ■ F1**	
	173	3 030	8.53	16 200	1.2	529	**2KJ4111 - ■ NL21 - ■ ■ E1**	
	197	2 670	7.5	16 000	1.4	529	**2KJ4111 - ■ NL21 - ■ ■ D1**	
	217	2 410	6.79	15 900	1.5	529	**2KJ4111 - ■ NL21 - ■ ■ C1**	
	250	2 100	5.91	15 700	1.7	529	**2KJ4111 - ■ NL21 - ■ ■ B1**	
	304	1 720	4.85	15 300	1.9	529	**2KJ4111 - ■ NL21 - ■ ■ A1**	
	D.149-LHN250M4							
	52	10 000	28.13	35 800	0.8	612	**2KJ4212 - ■ NL21 - ■ ■ A1**	
	E.149-LHN250M4							
	443	1 180	3.33	9 000	1.2	485	**2KJ4007 - ■ NL21 - ■ ■ G1**	
	498	1 050	2.96	9 300	1.4	485	**2KJ4007 - ■ NL21 - ■ ■ F1**	
	544	965	2.71	9 500	1.5	485	**2KJ4007 - ■ NL21 - ■ ■ E1**	
	617	850	2.39	9 800	1.7	485	**2KJ4007 - ■ NL21 - ■ ■ D1**	
	753	695	1.96	10 000	2.1	485	**2KJ4007 - ■ NL21 - ■ ■ C1**	
	858	610	1.72	10 000	2.4	485	**2KJ4007 - ■ NL21 - ■ ■ B1**	
	1 101	475	1.34	9 600	2.7	485	**2KJ4007 - ■ NL21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
55	**Z.149-LHN250M4**							
	76	6 880	19.33	34 800	1.2	606	**2KJ4112 - ■ NL21 - ■ ■ L1**	
	86	6 100	17.15	34 300	1.3	606	**2KJ4112 - ■ NL21 - ■ ■ K1**	
	94	5 600	15.74	33 900	1.4	606	**2KJ4112 - ■ NL21 - ■ ■ J1**	
	106	4 930	13.87	33 300	1.6	606	**2KJ4112 - ■ NL21 - ■ ■ H1**	
	130	4 050	11.38	32 200	2.0	606	**2KJ4112 - ■ NL21 - ■ ■ G1**	
	148	3 550	9.98	31 400	2.3	606	**2KJ4112 - ■ NL21 - ■ ■ F1**	
	189	2 770	7.8	29 900	2.9	606	**2KJ4112 - ■ NL21 - ■ ■ E1**	
	203	2 580	7.27	29 600	1.9	606	**2KJ4112 - ■ NL21 - ■ ■ D1**	
	247	2 120	5.96	28 300	2.3	606	**2KJ4112 - ■ NL21 - ■ ■ C1**	
	282	1 860	5.23	27 400	2.6	606	**2KJ4112 - ■ NL21 - ■ ■ B1**	
	361	1 450	4.09	25 800	3.3	606	**2KJ4112 - ■ NL21 - ■ ■ A1**	
	D.169-LHN250M4							
	33	16 000	45.06	69 400	0.87	785	**2KJ4213 - ■ NL21 - ■ ■ D1**	
	36	14 700	41.43	69 900	0.95	785	**2KJ4213 - ■ NL21 - ■ ■ C1**	
	41	12 900	36.33	70 500	1.1	785	**2KJ4213 - ■ NL21 - ■ ■ B1**	
	52	10 100	28.41	69 100	1.4	785	**2KJ4213 - ■ NL21 - ■ ■ A1**	
	Z.169-LHN250M4							
	63	8 350	23.45	66 700	1.7	741	**2KJ4113 - ■ NL21 - ■ ■ L1**	
	71	7 440	20.9	65 200	1.9	741	**2KJ4113 - ■ NL21 - ■ ■ K1**	
	78	6 740	18.93	63 900	2.1	741	**2KJ4113 - ■ NL21 - ■ ■ J1**	
	87	6 060	17.03	62 500	2.3	741	**2KJ4113 - ■ NL21 - ■ ■ H1**	
	104	5 030	14.15	60 000	2.8	741	**2KJ4113 - ■ NL21 - ■ ■ G1**	
	117	4 480	12.58	58 300	3.1	741	**2KJ4113 - ■ NL21 - ■ ■ F1**	
	147	3 570	10.03	55 300	3.9	741	**2KJ4113 - ■ NL21 - ■ ■ E1**	
	200	2 620	7.37	51 100	3.0	741	**2KJ4113 - ■ NL21 - ■ ■ C1**	
	251	2 090	5.88	48 200	3.8	741	**2KJ4113 - ■ NL21 - ■ ■ B1**	
	315	1 660	4.68	45 400	4.7	741	**2KJ4113 - ■ NL21 - ■ ■ A1**	
	D.189-LHN250M4							
	26	19 900	56.08	107 000	0.95	998	**2KJ4214 - ■ NL21 - ■ ■ D1**	
	33	15 800	44.63	107 000	1.2	998	**2KJ4214 - ■ NL21 - ■ ■ C1**	
	40	13 000	36.67	107 000	1.5	998	**2KJ4214 - ■ NL21 - ■ ■ B1**	
	Z.189-LHN250M4							
	54	9 770	27.46	102 200	1.9	917	**2KJ4114 - ■ NL21 - ■ ■ J1**	
	60	8 730	24.53	99 500	2.2	917	**2KJ4114 - ■ NL21 - ■ ■ H1**	
	66	7 990	22.44	97 300	2.4	917	**2KJ4114 - ■ NL21 - ■ ■ G1**	
	74	7 100	19.95	94 500	2.7	917	**2KJ4114 - ■ NL21 - ■ ■ F1**	
	87	6 020	16.93	90 700	3.2	917	**2KJ4114 - ■ NL21 - ■ ■ E1**	
	E.129-LHN250M4E							
	1 014	515	1.46	11 000	1.5	462	**2KJ4006 - ■ NL22 - ■ ■ B1**	
	1 194	440	1.24	10 500	1.7	462	**2KJ4006 - ■ NL22 - ■ ■ A1**	
	Z.129-LHN250M4E							
	90	5 820	16.42	26 800	0.86	539	**2KJ4111 - ■ NL22 - ■ ■ K1**	
	103	5 120	14.43	25 800	0.96	539	**2KJ4111 - ■ NL22 - ■ ■ J1**	
	113	4 630	13.07	25 000	1.0	539	**2KJ4111 - ■ NL22 - ■ ■ H1**	
	130	4 030	11.38	24 000	1.2	539	**2KJ4111 - ■ NL22 - ■ ■ G1**	
	159	3 310	9.33	22 600	1.4	539	**2KJ4111 - ■ NL22 - ■ ■ F1**	
	174	3 020	8.53	22 000	1.2	539	**2KJ4111 - ■ NL22 - ■ ■ E1**	
	197	2 660	7.5	21 200	1.4	539	**2KJ4111 - ■ NL22 - ■ ■ D1**	
	218	2 410	6.79	20 600	1.5	539	**2KJ4111 - ■ NL22 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
55	**Z.129-LHN250M4E**							
	250	2 090	5.91	19 700	1.7	539	**2KJ4111 - ■ NL22 - ■ ■ B1**	
	305	1 720	4.85	18 600	1.9	539	**2KJ4111 - ■ NL22 - ■ ■ A1**	
	D.149-LHN250M4E							
	53	9 980	28.13	49 300	0.8	622	**2KJ4212 - ■ NL22 - ■ ■ A1**	
	E.149-LHN250M4E							
	444	1 180	3.33	15 900	1.3	495	**2KJ4007 - ■ NL22 - ■ ■ G1**	
	500	1 050	2.96	15 400	1.4	495	**2KJ4007 - ■ NL22 - ■ ■ F1**	
	546	960	2.71	15 000	1.5	495	**2KJ4007 - ■ NL22 - ■ ■ E1**	
	619	845	2.39	14 400	1.7	495	**2KJ4007 - ■ NL22 - ■ ■ D1**	
	755	695	1.96	13 600	2.1	495	**2KJ4007 - ■ NL22 - ■ ■ C1**	
	860	610	1.72	13 100	2.4	495	**2KJ4007 - ■ NL22 - ■ ■ B1**	
	1 104	475	1.34	12 100	2.7	495	**2KJ4007 - ■ NL22 - ■ ■ A1**	
	Z.149-LHN250M4E							
	77	6 860	19.33	44 100	1.2	616	**2KJ4112 - ■ NL22 - ■ ■ L1**	
	86	6 080	17.15	42 500	1.3	616	**2KJ4112 - ■ NL22 - ■ ■ K1**	
	94	5 580	15.74	41 400	1.4	616	**2KJ4112 - ■ NL22 - ■ ■ J1**	
	107	4 920	13.87	39 900	1.6	616	**2KJ4112 - ■ NL22 - ■ ■ H1**	
	130	4 030	11.38	37 600	2.0	616	**2KJ4112 - ■ NL22 - ■ ■ G1**	
	148	3 540	9.98	36 200	2.3	616	**2KJ4112 - ■ NL22 - ■ ■ F1**	
	190	2 760	7.8	33 600	2.9	616	**2KJ4112 - ■ NL22 - ■ ■ E1**	
	204	2 580	7.27	32 900	1.9	616	**2KJ4112 - ■ NL22 - ■ ■ D1**	
	248	2 110	5.96	31 000	2.3	616	**2KJ4112 - ■ NL22 - ■ ■ C1**	
	283	1 850	5.23	29 800	2.6	616	**2KJ4112 - ■ NL22 - ■ ■ B1**	
	362	1 450	4.09	27 700	3.4	616	**2KJ4112 - ■ NL22 - ■ ■ A1**	
	D.169-LHN250M4E							
	33	15 900	45.06	75 700	0.88	795	**2KJ4213 - ■ NL22 - ■ ■ D1**	
	36	14 700	41.43	75 700	0.95	795	**2KJ4213 - ■ NL22 - ■ ■ C1**	
	41	12 800	36.33	75 700	1.1	795	**2KJ4213 - ■ NL22 - ■ ■ B1**	
	52	10 000	28.41	75 700	1.4	795	**2KJ4213 - ■ NL22 - ■ ■ A1**	
	Z.169-LHN250M4E							
	63	8 320	23.45	75 700	1.7	751	**2KJ4113 - ■ NL22 - ■ ■ L1**	
	71	7 410	20.9	74 300	1.9	751	**2KJ4113 - ■ NL22 - ■ ■ K1**	
	78	6 710	18.93	72 100	2.1	751	**2KJ4113 - ■ NL22 - ■ ■ J1**	
	87	6 040	17.03	69 800	2.3	751	**2KJ4113 - ■ NL22 - ■ ■ H1**	
	105	5 020	14.15	66 100	2.8	751	**2KJ4113 - ■ NL22 - ■ ■ G1**	
	118	4 460	12.58	63 800	3.1	751	**2KJ4113 - ■ NL22 - ■ ■ F1**	
	148	3 560	10.03	59 600	3.9	751	**2KJ4113 - ■ NL22 - ■ ■ E1**	
	201	2 610	7.37	54 300	3.0	751	**2KJ4113 - ■ NL22 - ■ ■ C1**	
	252	2 080	5.88	50 800	3.8	751	**2KJ4113 - ■ NL22 - ■ ■ B1**	
	316	1 660	4.68	47 400	4.7	751	**2KJ4113 - ■ NL22 - ■ ■ A1**	
	D.189-LHN250M4E							
	26	19 900	56.08	107 000	0.95	1 008	**2KJ4214 - ■ NL22 - ■ ■ D1**	
	33	15 800	44.63	107 000	1.2	1 008	**2KJ4214 - ■ NL22 - ■ ■ C1**	
	40	13 000	36.67	107 000	1.5	1 008	**2KJ4214 - ■ NL22 - ■ ■ B1**	
	Z.189-LHN250M4E							
	54	9 740	27.46	107 000	1.9	927	**2KJ4114 - ■ NL22 - ■ ■ J1**	
	60	8 700	24.53	107 000	2.2	927	**2KJ4114 - ■ NL22 - ■ ■ H1**	
	66	7 960	22.44	104 500	2.4	927	**2KJ4114 - ■ NL22 - ■ ■ G1**	
	74	7 080	19.95	100 900	2.7	927	**2KJ4114 - ■ NL22 - ■ ■ F1**	
	87	6 000	16.93	96 000	3.2	927	**2KJ4114 - ■ NL22 - ■ ■ E1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**Z.19-LEN80MD4E**							
	46	114	30.97	1 300	0.88	20	**2KJ4101 - ■ DC32 - ■ ■ V1**	
	53	99	26.91	1 600	1.0	20	**2KJ4101 - ■ DC32 - ■ ■ U1**	
	58	90	24.46	1 800	1.1	20	**2KJ4101 - ■ DC32 - ■ ■ T1**	
	68	77	20.82	2 100	1.3	20	**2KJ4101 - ■ DC32 - ■ ■ S1**	
	75	70	18.92	2 100	1.4	20	**2KJ4101 - ■ DC32 - ■ ■ R1**	
	86	61	16.5	2 000	1.6	20	**2KJ4101 - ■ DC32 - ■ ■ Q1**	
	96	54	14.77	2 000	1.7	20	**2KJ4101 - ■ DC32 - ■ ■ P1**	
	109	48	13.12	1 900	1.9	20	**2KJ4101 - ■ DC32 - ■ ■ N1**	
	118	45	12.11	1 900	2.0	20	**2KJ4101 - ■ DC32 - ■ ■ M1**	
	135	39	10.52	1 800	2.1	20	**2KJ4101 - ■ DC32 - ■ ■ L1**	
	156	34	9.14	1 800	2.3	20	**2KJ4101 - ■ DC32 - ■ ■ K1**	
	173	30	8.25	1 700	2.4	20	**2KJ4101 - ■ DC32 - ■ ■ J1**	
	184	29	7.76	1 700	2.6	20	**2KJ4101 - ■ DC32 - ■ ■ H1**	
	210	25	6.77	1 600	2.7	20	**2KJ4101 - ■ DC32 - ■ ■ G1**	
	228	23	6.25	1 500	2.4	20	**2KJ4101 - ■ DC32 - ■ ■ F1**	
	262	20	5.43	1 500	2.6	20	**2KJ4101 - ■ DC32 - ■ ■ E1**	
	303	17	4.71	1 400	2.8	20	**2KJ4101 - ■ DC32 - ■ ■ D1**	
	335	16	4.26	1 400	3.0	20	**2KJ4101 - ■ DC32 - ■ ■ C1**	
	355	15	4.01	1 300	3.1	20	**2KJ4101 - ■ DC32 - ■ ■ B1**	
	408	13	3.49	1 300	3.3	20	**2KJ4101 - ■ DC32 - ■ ■ A1**	
	Z.19-LEN80MK6E							
	43	122	20.82	1 200	0.82	21	**2KJ4101 - ■ DF32 - ■ ■ S1**	**P01**
	D.29-LEN80MD4E							
	34	155	42.17	3 300	0.9	22	**2KJ4202 - ■ DC32 - ■ ■ A1**	
	Z.29-LEN80MD4E							
	39	135	36.72	3 800	1.0	21	**2KJ4102 - ■ DC32 - ■ ■ X1**	
	45	117	31.86	3 900	1.2	21	**2KJ4102 - ■ DC32 - ■ ■ W1**	
	49	107	28.96	3 800	1.3	21	**2KJ4102 - ■ DC32 - ■ ■ V1**	
	57	92	24.84	3 600	1.5	21	**2KJ4102 - ■ DC32 - ■ ■ U1**	
	63	83	22.58	3 600	1.7	21	**2KJ4102 - ■ DC32 - ■ ■ T1**	
	72	73	19.8	3 400	1.9	21	**2KJ4102 - ■ DC32 - ■ ■ S1**	
	81	65	17.67	3 300	2.1	21	**2KJ4102 - ■ DC32 - ■ ■ R1**	
	90	58	15.75	3 200	2.4	21	**2KJ4102 - ■ DC32 - ■ ■ Q1**	
	98	54	14.54	3 200	2.2	21	**2KJ4102 - ■ DC32 - ■ ■ P1**	
	112	47	12.73	3 100	3.0	21	**2KJ4102 - ■ DC32 - ■ ■ N1**	
	128	41	11.16	2 900	3.4	21	**2KJ4102 - ■ DC32 - ■ ■ M1**	
	141	37	10.12	2 900	3.8	21	**2KJ4102 - ■ DC32 - ■ ■ L1**	
	150	35	9.53	2 800	4.0	21	**2KJ4102 - ■ DC32 - ■ ■ K1**	
	206	26	6.92	2 500	2.9	21	**2KJ4102 - ■ DC32 - ■ ■ G1**	
	235	22	6.06	2 400	4.5	21	**2KJ4102 - ■ DC32 - ■ ■ F1**	
	268	20	5.31	2 300	4.6	21	**2KJ4102 - ■ DC32 - ■ ■ E1**	
	296	18	4.82	2 300	4.8	21	**2KJ4102 - ■ DC32 - ■ ■ D1**	
	314	17	4.54	2 200	5.0	21	**2KJ4102 - ■ DC32 - ■ ■ C1**	
	356	15	4	2 100	5.2	21	**2KJ4102 - ■ DC32 - ■ ■ B1**	
	411	13	3.47	2 000	5.5	21	**2KJ4102 - ■ DC32 - ■ ■ A1**	
	Z.29-LEN80MK6E							
	31	170	28.96	2 900	0.82	23	**2KJ4102 - ■ DF32 - ■ ■ V1**	**P01**
	D.39-LEN80MD4E							
	22	230	63.43	3 600	0.86	23	**2KJ4203 - ■ DC32 - ■ ■ E1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**D.39-LEN80MD4E**							
	25	210	57.54	4 100	0.94	23	**2KJ4203 - ■ DC32 - ■ ■ D1**	
	E.39-LEN80MD4E							
	174	30	8.2	3 000	1.1	24	**2KJ4001 - ■ DC32 - ■ ■ R1**	
	198	26	7.2	3 000	1.5	24	**2KJ4001 - ■ DC32 - ■ ■ Q1**	
	218	24	6.55	3 000	1.7	24	**2KJ4001 - ■ DC32 - ■ ■ P1**	
	254	21	5.6	3 000	1.9	24	**2KJ4001 - ■ DC32 - ■ ■ N1**	
	280	19	5.09	3 000	2.1	24	**2KJ4001 - ■ DC32 - ■ ■ M1**	
	317	17	4.5	3 000	2.9	24	**2KJ4001 - ■ DC32 - ■ ■ L1**	
	348	15	4.09	3 000	3.2	24	**2KJ4001 - ■ DC32 - ■ ■ K1**	
	398	13	3.58	3 000	4.4	24	**2KJ4001 - ■ DC32 - ■ ■ J1**	
	431	12	3.31	3 000	4.8	24	**2KJ4001 - ■ DC32 - ■ ■ H1**	
	Z.39-LEN80MD4E							
	29	183	49.75	4 700	1.1	23	**2KJ4103 - ■ DC32 - ■ ■ X1**	
	33	161	43.68	5 100	1.2	23	**2KJ4103 - ■ DC32 - ■ ■ W1**	
	36	146	39.71	5 200	1.4	23	**2KJ4103 - ■ DC32 - ■ ■ V1**	
	42	125	33.97	5 200	1.6	23	**2KJ4103 - ■ DC32 - ■ ■ U1**	
	46	114	30.88	5 300	1.8	23	**2KJ4103 - ■ DC32 - ■ ■ T1**	
	52	101	27.3	5 200	2.0	23	**2KJ4103 - ■ DC32 - ■ ■ S1**	
	57	92	24.82	5 200	2.2	23	**2KJ4103 - ■ DC32 - ■ ■ R1**	
	66	80	21.74	5 200	2.5	23	**2KJ4103 - ■ DC32 - ■ ■ Q1**	
	71	74	20.07	5 100	2.7	23	**2KJ4103 - ■ DC32 - ■ ■ P1**	
	80	66	17.77	5 000	3.1	23	**2KJ4103 - ■ DC32 - ■ ■ N1**	
	D.49-LEN80MD4E							
	13	400	109.14	3 700	0.8	34	**2KJ4204 - ■ DC32 - ■ ■ J1**	
	14	370	100.75	4 500	0.86	34	**2KJ4204 - ■ DC32 - ■ ■ H1**	
	16	325	89.2	5 600	0.97	34	**2KJ4204 - ■ DC32 - ■ ■ G1**	
	19	270	74.24	6 000	1.2	34	**2KJ4204 - ■ DC32 - ■ ■ F1**	
	20	255	69.88	6 000	1.2	34	**2KJ4204 - ■ DC32 - ■ ■ E1**	
	23	230	62.61	6 000	1.4	34	**2KJ4204 - ■ DC32 - ■ ■ D1**	
	E.49-LEN80MD4E							
	147	36	9.7	4 000	2.4	29	**2KJ4002 - ■ DC32 - ■ ■ S1**	
	162	32	8.82	4 000	3.3	29	**2KJ4002 - ■ DC32 - ■ ■ R1**	
	190	28	7.5	4 000	3.9	29	**2KJ4002 - ■ DC32 - ■ ■ Q1**	
	209	25	6.82	4 000	4.1	29	**2KJ4002 - ■ DC32 - ■ ■ P1**	
	234	22	6.08	4 000	4.6	29	**2KJ4002 - ■ DC32 - ■ ■ N1**	
	Z.49-LEN80MD4E							
	27	192	52.14	6 100	1.7	33	**2KJ4104 - ■ DC32 - ■ ■ B2**	
	30	175	47.4	6 200	1.8	33	**2KJ4104 - ■ DC32 - ■ ■ A2**	
	35	149	40.31	6 200	2.2	33	**2KJ4104 - ■ DC32 - ■ ■ X1**	
	39	135	36.65	6 200	2.4	33	**2KJ4104 - ■ DC32 - ■ ■ W1**	
	44	121	32.7	6 300	2.7	33	**2KJ4104 - ■ DC32 - ■ ■ V1**	
	D.59-LEN80MD4E							
	9.5	550	149.81	6 300	0.81	36	**2KJ4205 - ■ DC32 - ■ ■ L1**	
	10	500	136.19	7 200	0.9	36	**2KJ4205 - ■ DC32 - ■ ■ K1**	
	12	440	119.3	7 600	1.0	36	**2KJ4205 - ■ DC32 - ■ ■ J1**	
	13	405	110.12	7 700	1.1	36	**2KJ4205 - ■ DC32 - ■ ■ H1**	
	15	355	97.5	7 800	1.3	36	**2KJ4205 - ■ DC32 - ■ ■ G1**	
	18	295	81.15	7 900	1.5	36	**2KJ4205 - ■ DC32 - ■ ■ F1**	
	19	280	76.38	7 900	1.6	36	**2KJ4205 - ■ DC32 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**D.59-LEN80MD4E**							
	21	250	68.43	7 900	1.8	36	**2KJ4205 - ■ DC32 - ■ ■ D1**	
	Z.59-LEN80MD4E							
	25	210	56.99	8 000	2.1	36	**2KJ4105 - ■ DC32 - ■ ■ A2**	
	28	191	51.81	8 000	2.4	36	**2KJ4105 - ■ DC32 - ■ ■ X1**	
	D.69-LEN80MD4E							
	7.1	735	199.47	10 700	0.82	40	**2KJ4206 - ■ DC32 - ■ ■ N1**	
	7.9	665	181.33	10 800	0.9	40	**2KJ4206 - ■ DC32 - ■ ■ M1**	
	8.9	590	160.29	11 000	1.0	40	**2KJ4206 - ■ DC32 - ■ ■ L1**	
	9.8	535	145.71	11 100	1.1	40	**2KJ4206 - ■ DC32 - ■ ■ K1**	
	11	470	127.63	11 200	1.3	40	**2KJ4206 - ■ DC32 - ■ ■ J1**	
	12	430	117.82	11 200	1.4	40	**2KJ4206 - ■ DC32 - ■ ■ H1**	
	14	380	104.31	11 300	1.6	40	**2KJ4206 - ■ DC32 - ■ ■ G1**	
	16	320	86.82	11 400	1.9	40	**2KJ4206 - ■ DC32 - ■ ■ F1**	
	17	300	81.71	11 400	2.0	40	**2KJ4206 - ■ DC32 - ■ ■ E1**	
	19	270	73.22	11 500	2.2	40	**2KJ4206 - ■ DC32 - ■ ■ D1**	
	E.69-LEN80MD4E							
	153	34	9.3	6 100	3.5	36	**2KJ4003 - ■ DC32 - ■ ■ S1**	
	169	31	8.45	6 100	3.4	36	**2KJ4003 - ■ DC32 - ■ ■ R1**	
	D.79-LEN80MD4E							
	5.6	940	255.33	12 400	0.89	51	**2KJ4207 - ■ DC32 - ■ ■ Q1**	
	6.1	855	232.12	13 400	0.98	51	**2KJ4207 - ■ DC32 - ■ ■ P1**	
	6.9	760	207.1	13 500	1.1	51	**2KJ4207 - ■ DC32 - ■ ■ N1**	
	7.7	680	185.7	13 600	1.2	51	**2KJ4207 - ■ DC32 - ■ ■ M1**	
	8.5	615	167.39	13 700	1.4	51	**2KJ4207 - ■ DC32 - ■ ■ L1**	
	9.2	570	154.51	13 700	1.5	51	**2KJ4207 - ■ DC32 - ■ ■ K1**	
	10	520	141.04	13 800	1.6	51	**2KJ4207 - ■ DC32 - ■ ■ J1**	
	12	430	117.03	13 900	1.9	51	**2KJ4207 - ■ DC32 - ■ ■ H1**	
	13	405	110.14	13 900	2.1	51	**2KJ4207 - ■ DC32 - ■ ■ G1**	
	14	380	104.03	14 000	2.2	51	**2KJ4207 - ■ DC32 - ■ ■ F1**	
	D.79-LEN80MK6E							
	5.3	980	167.39	11 800	0.86	52	**2KJ4207 - ■ DF32 - ■ ■ L1**	**P01**
	D.89-LEN80MD4E							
	4.6	1 140	311.6	18 500	1.5	73	**2KJ4208 - ■ DC32 - ■ ■ S1**	
	5	1 040	283.28	18 500	1.6	73	**2KJ4208 - ■ DC32 - ■ ■ R1**	
	5.6	935	254.09	18 500	1.8	73	**2KJ4208 - ■ DC32 - ■ ■ Q1**	
	6.2	840	228.45	18 500	2.0	73	**2KJ4208 - ■ DC32 - ■ ■ P1**	
	D.89-LEN80MK6E							
	2.9	1 820	311.6	18 500	0.92	75	**2KJ4208 - ■ DF32 - ■ ■ S1**	**P01**
	3.2	1 660	283.28	18 500	1.0	75	**2KJ4208 - ■ DF32 - ■ ■ R1**	**P01**
	3.5	1 490	254.09	18 500	1.1	75	**2KJ4208 - ■ DF32 - ■ ■ Q1**	**P01**
	3.9	1 340	228.45	18 500	1.3	75	**2KJ4208 - ■ DF32 - ■ ■ P1**	**P01**
	4.3	1 210	206.62	18 500	1.4	75	**2KJ4208 - ■ DF32 - ■ ■ N1**	**P01**
	D.89-Z39-LEN80MD4E							
	2.4	2 010	603	18 500	0.83	80	**2KJ4233 - ■ DC32 - ■ ■ F1**	
	2.8	1 710	513	18 500	0.98	80	**2KJ4233 - ■ DC32 - ■ ■ E1**	
	3	1 600	480	18 500	1.0	80	**2KJ4233 - ■ DC32 - ■ ■ D1**	
	3.2	1 510	452	18 500	1.1	80	**2KJ4233 - ■ DC32 - ■ ■ C1**	
	3.5	1 350	405	18 500	1.2	80	**2KJ4233 - ■ DC32 - ■ ■ B1**	
	4.1	1 150	344.83	18 500	1.5	80	**2KJ4233 - ■ DC32 - ■ ■ A1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**D.109-Z39-LEN80MD4E**							
	1.3	3 790	1 133	20 100	0.82	122	**2KJ4235 - ■ DC32 - ■ ■ J1**	
	1.5	3 240	971	20 200	0.95	122	**2KJ4235 - ■ DC32 - ■ ■ H1**	
	1.7	2 790	836	20 200	1.1	122	**2KJ4235 - ■ DC32 - ■ ■ G1**	
	2.1	2 300	690	20 200	1.3	122	**2KJ4235 - ■ DC32 - ■ ■ F1**	
	2.2	2 170	649	20 200	1.4	122	**2KJ4235 - ■ DC32 - ■ ■ E1**	
	2.4	1 940	582	20 200	1.6	122	**2KJ4235 - ■ DC32 - ■ ■ D1**	
	2.9	1 650	495	20 200	1.9	122	**2KJ4235 - ■ DC32 - ■ ■ C1**	
	D.129-Z49-LEN80MD4E							
	0.76	6 280	1 878	26 300	0.8	207	**2KJ4237 - ■ DC32 - ■ ■ N1**	
	0.89	5 340	1 598	26 800	0.94	207	**2KJ4237 - ■ DC32 - ■ ■ M1**	
	1	4 580	1 369	27 300	1.1	207	**2KJ4237 - ■ DC32 - ■ ■ L1**	
	1.2	4 020	1 204	27 600	1.2	207	**2KJ4237 - ■ DC32 - ■ ■ K1**	
	1.4	3 400	1 016	28 000	1.5	207	**2KJ4237 - ■ DC32 - ■ ■ J1**	
	1.6	2 920	873	28 200	1.7	207	**2KJ4237 - ■ DC32 - ■ ■ G1**	
	1.6	2 960	885	28 200	1.7	207	**2KJ4237 - ■ DC32 - ■ ■ H1**	
	1.7	2 760	825	28 300	1.8	207	**2KJ4237 - ■ DC32 - ■ ■ F1**	
	D.149-Z49-LEN80MD4E							
	0.49	9 750	2 914	50 300	0.82	283	**2KJ4240 - ■ DC32 - ■ ■ T1**	
	0.53	9 000	2 690	50 700	0.89	283	**2KJ4240 - ■ DC32 - ■ ■ S1**	
	0.58	8 210	2 455	51 100	0.97	283	**2KJ4240 - ■ DC32 - ■ ■ R1**	
	0.7	6 810	2 037	51 700	1.2	283	**2KJ4240 - ■ DC32 - ■ ■ Q1**	
	0.74	6 410	1 917	51 900	1.2	283	**2KJ4240 - ■ DC32 - ■ ■ P1**	
	0.79	6 060	1 811	52 100	1.3	283	**2KJ4240 - ■ DC32 - ■ ■ N1**	
	0.92	5 150	1 541	52 500	1.6	283	**2KJ4240 - ■ DC32 - ■ ■ M1**	
	1.1	4 410	1 320	52 900	1.8	283	**2KJ4240 - ■ DC32 - ■ ■ L1**	
	D.169-Z69-LEN80MD4E							
	0.28	16 800	5 041	69 100	0.83	472	**2KJ4242 - ■ DC32 - ■ ■ X1**	
	0.33	14 300	4 287	70 000	0.98	472	**2KJ4242 - ■ DC32 - ■ ■ W1**	
	0.37	13 000	3 898	70 500	1.1	472	**2KJ4242 - ■ DC32 - ■ ■ V1**	
	0.41	11 600	3 478	71 000	1.2	472	**2KJ4242 - ■ DC32 - ■ ■ U1**	
	0.46	10 400	3 118	71 500	1.3	472	**2KJ4242 - ■ DC32 - ■ ■ T1**	
	0.51	9 400	2 811	71 800	1.5	472	**2KJ4242 - ■ DC32 - ■ ■ S1**	
	0.55	8 670	2 594	72 100	1.6	472	**2KJ4242 - ■ DC32 - ■ ■ R1**	
	0.6	7 920	2 368	72 400	1.8	472	**2KJ4242 - ■ DC32 - ■ ■ Q1**	
	D.189-D69-LEN80MD4E							
	0.2	23 000	6 973	107 000	0.82	686	**2KJ4245 - ■ DC32 - ■ ■ B1**	
	D.189-Z69-LEN80MD4E							
	0.25	19 400	5 807	107 000	0.98	686	**2KJ4244 - ■ DC32 - ■ ■ A2**	
	0.27	17 600	5 279	107 000	1.1	686	**2KJ4244 - ■ DC32 - ■ ■ X1**	
	0.32	15 000	4 490	107 000	1.3	686	**2KJ4244 - ■ DC32 - ■ ■ W1**	
	0.35	13 600	4 082	107 000	1.4	686	**2KJ4244 - ■ DC32 - ■ ■ V1**	
	0.39	12 100	3 642	107 000	1.6	686	**2KJ4244 - ■ DC32 - ■ ■ U1**	
	0.44	10 900	3 265	107 000	1.7	686	**2KJ4244 - ■ DC32 - ■ ■ T1**	
	0.48	9 840	2 943	107 000	1.9	686	**2KJ4244 - ■ DC32 - ■ ■ S1**	
0.75	**Z.19-LEN80MA2E**							
	169	42	16.5	1 600	2.3	18	**2KJ4101 - ■ DB32 - ■ ■ Q1**	**P00**
	189	38	14.77	1 600	2.5	18	**2KJ4101 - ■ DB32 - ■ ■ P1**	**P00**
	213	34	13.12	1 600	2.7	18	**2KJ4101 - ■ DB32 - ■ ■ N1**	**P00**
	231	31	12.11	1 500	2.8	18	**2KJ4101 - ■ DB32 - ■ ■ M1**	**P00**

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**Z.19-LEN80MA2E**							
	266	27	10.52	1 500	3.1	18	**2KJ4101 - ■ DB32 - ■ ■ L1**	**P00**
	306	23	9.14	1 400	3.3	18	**2KJ4101 - ■ DB32 - ■ ■ K1**	**P00**
	339	21	8.25	1 400	3.5	18	**2KJ4101 - ■ DB32 - ■ ■ J1**	**P00**
	360	20	7.76	1 400	3.7	18	**2KJ4101 - ■ DB32 - ■ ■ H1**	**P00**
	413	17	6.77	1 300	3.9	18	**2KJ4101 - ■ DB32 - ■ ■ G1**	**P00**
	447	16	6.25	1 200	3.5	18	**2KJ4101 - ■ DB32 - ■ ■ F1**	**P00**
	515	14	5.43	1 200	3.8	18	**2KJ4101 - ■ DB32 - ■ ■ E1**	**P00**
	593	12	4.71	1 100	4.1	18	**2KJ4101 - ■ DB32 - ■ ■ D1**	**P00**
	656	11	4.26	1 100	4.3	18	**2KJ4101 - ■ DB32 - ■ ■ C1**	**P00**
	697	10	4.01	1 100	4.5	18	**2KJ4101 - ■ DB32 - ■ ■ B1**	**P00**
	801	8.9	3.49	1 000	4.8	18	**2KJ4101 - ■ DB32 - ■ ■ A1**	**P00**
	Z.19-LEN80MH4E							
	59	122	24.46	1 200	0.82	22	**2KJ4101 - ■ DE32 - ■ ■ T1**	
	69	104	20.82	1 500	0.97	22	**2KJ4101 - ■ DE32 - ■ ■ S1**	
	76	94	18.92	1 700	1.1	22	**2KJ4101 - ■ DE32 - ■ ■ R1**	
	87	82	16.5	1 900	1.2	22	**2KJ4101 - ■ DE32 - ■ ■ Q1**	
	97	74	14.77	1 800	1.3	22	**2KJ4101 - ■ DE32 - ■ ■ P1**	
	110	65	13.12	1 800	1.4	22	**2KJ4101 - ■ DE32 - ■ ■ N1**	
	119	60	12.11	1 800	1.5	22	**2KJ4101 - ■ DE32 - ■ ■ M1**	
	137	52	10.52	1 700	1.6	22	**2KJ4101 - ■ DE32 - ■ ■ L1**	
	158	46	9.14	1 700	1.7	22	**2KJ4101 - ■ DE32 - ■ ■ K1**	
	175	41	8.25	1 600	1.8	22	**2KJ4101 - ■ DE32 - ■ ■ J1**	
	186	39	7.76	1 600	1.9	22	**2KJ4101 - ■ DE32 - ■ ■ H1**	
	213	34	6.77	1 600	2.0	22	**2KJ4101 - ■ DE32 - ■ ■ G1**	
	230	31	6.25	1 400	1.8	22	**2KJ4101 - ■ DE32 - ■ ■ F1**	
	265	27	5.43	1 400	2.0	22	**2KJ4101 - ■ DE32 - ■ ■ E1**	
	306	23	4.71	1 300	2.1	22	**2KJ4101 - ■ DE32 - ■ ■ D1**	
	338	21	4.26	1 300	2.2	22	**2KJ4101 - ■ DE32 - ■ ■ C1**	
	359	20	4.01	1 300	2.3	22	**2KJ4101 - ■ DE32 - ■ ■ B1**	
	413	17	3.49	1 200	2.5	22	**2KJ4101 - ■ DE32 - ■ ■ A1**	
	Z.29-LEN80MA2E							
	158	45	17.67	2 700	3.1	20	**2KJ4102 - ■ DB32 - ■ ■ R1**	**P00**
	177	40	15.75	2 600	3.5	20	**2KJ4102 - ■ DB32 - ■ ■ Q1**	**P00**
	192	37	14.54	2 600	3.2	20	**2KJ4102 - ■ DB32 - ■ ■ P1**	**P00**
	220	33	12.73	2 500	4.3	20	**2KJ4102 - ■ DB32 - ■ ■ N1**	**P00**
	404	18	6.92	2 000	4.2	20	**2KJ4102 - ■ DB32 - ■ ■ G1**	**P00**
	Z.29-LEN80MH4E							
	45	158	31.86	2 800	0.88	23	**2KJ4102 - ■ DE32 - ■ ■ W1**	
	50	144	28.96	3 000	0.97	23	**2KJ4102 - ■ DE32 - ■ ■ V1**	
	58	124	24.84	3 200	1.1	23	**2KJ4102 - ■ DE32 - ■ ■ U1**	
	64	112	22.58	3 300	1.2	23	**2KJ4102 - ■ DE32 - ■ ■ T1**	
	73	98	19.8	3 300	1.4	23	**2KJ4102 - ■ DE32 - ■ ■ S1**	
	81	88	17.67	3 200	1.6	23	**2KJ4102 - ■ DE32 - ■ ■ R1**	
	91	78	15.75	3 100	1.8	23	**2KJ4102 - ■ DE32 - ■ ■ Q1**	
	99	72	14.54	3 100	1.7	23	**2KJ4102 - ■ DE32 - ■ ■ P1**	
	113	63	12.73	3 000	2.2	23	**2KJ4102 - ■ DE32 - ■ ■ N1**	
	129	56	11.16	2 800	2.5	23	**2KJ4102 - ■ DE32 - ■ ■ M1**	
	142	50	10.12	2 800	2.8	23	**2KJ4102 - ■ DE32 - ■ ■ L1**	
	151	47	9.53	2 700	3.0	23	**2KJ4102 - ■ DE32 - ■ ■ K1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**Z.29-LEN80MH4E**							
	171	42	8.4	2 600	3.3	23	**2KJ4102 - ■ DE32 - ■ ■ J1**	
	198	36	7.29	2 500	3.6	23	**2KJ4102 - ■ DE32 - ■ ■ H1**	
	208	34	6.92	2 500	2.2	23	**2KJ4102 - ■ DE32 - ■ ■ G1**	
	238	30	6.06	2 400	3.3	23	**2KJ4102 - ■ DE32 - ■ ■ F1**	
	271	26	5.31	2 300	3.4	23	**2KJ4102 - ■ DE32 - ■ ■ E1**	
	299	24	4.82	2 200	3.6	23	**2KJ4102 - ■ DE32 - ■ ■ D1**	
	317	23	4.54	2 200	3.7	23	**2KJ4102 - ■ DE32 - ■ ■ C1**	
	360	20	4	2 100	3.8	23	**2KJ4102 - ■ DE32 - ■ ■ B1**	
	415	17	3.47	2 000	4.1	23	**2KJ4102 - ■ DE32 - ■ ■ A1**	
	E.39-LEN80MH4E							
	176	41	8.2	3 000	0.83	25	**2KJ4001 - ■ DE32 - ■ ■ R1**	
	200	36	7.2	3 000	1.1	25	**2KJ4001 - ■ DE32 - ■ ■ Q1**	
	220	33	6.55	3 000	1.2	25	**2KJ4001 - ■ DE32 - ■ ■ P1**	
	257	28	5.6	3 000	1.4	25	**2KJ4001 - ■ DE32 - ■ ■ N1**	
	283	25	5.09	3 000	1.6	25	**2KJ4001 - ■ DE32 - ■ ■ M1**	
	320	22	4.5	3 000	2.1	25	**2KJ4001 - ■ DE32 - ■ ■ L1**	
	352	20	4.09	3 000	2.4	25	**2KJ4001 - ■ DE32 - ■ ■ K1**	
	402	18	3.58	3 000	3.3	25	**2KJ4001 - ■ DE32 - ■ ■ J1**	
	435	16	3.31	3 000	3.5	25	**2KJ4001 - ■ DE32 - ■ ■ H1**	
	491	15	2.93	3 000	4.5	25	**2KJ4001 - ■ DE32 - ■ ■ G1**	
	590	12	2.44	2 900	5.4	25	**2KJ4001 - ■ DE32 - ■ ■ F1**	
	629	11	2.29	2 900	5.8	25	**2KJ4001 - ■ DE32 - ■ ■ E1**	
	Z.39-LEN80MH4E							
	29	245	49.75	3 200	0.81	25	**2KJ4103 - ■ DE32 - ■ ■ X1**	
	33	215	43.68	3 700	0.92	25	**2KJ4103 - ■ DE32 - ■ ■ W1**	
	36	198	39.71	3 800	1.0	25	**2KJ4103 - ■ DE32 - ■ ■ V1**	
	42	169	33.97	4 100	1.2	25	**2KJ4103 - ■ DE32 - ■ ■ U1**	
	47	154	30.88	4 200	1.3	25	**2KJ4103 - ■ DE32 - ■ ■ T1**	
	53	136	27.3	4 300	1.5	25	**2KJ4103 - ■ DE32 - ■ ■ S1**	
	58	123	24.82	4 400	1.6	25	**2KJ4103 - ■ DE32 - ■ ■ R1**	
	66	108	21.74	4 500	1.8	25	**2KJ4103 - ■ DE32 - ■ ■ Q1**	
	72	100	20.07	4 500	2.0	25	**2KJ4103 - ■ DE32 - ■ ■ P1**	
	81	88	17.77	4 500	2.3	25	**2KJ4103 - ■ DE32 - ■ ■ N1**	
	97	74	14.79	4 500	2.6	25	**2KJ4103 - ■ DE32 - ■ ■ M1**	
	103	69	13.92	4 500	2.7	25	**2KJ4103 - ■ DE32 - ■ ■ L1**	
	115	62	12.47	4 400	2.9	25	**2KJ4103 - ■ DE32 - ■ ■ K1**	
	136	53	10.62	4 200	3.2	25	**2KJ4103 - ■ DE32 - ■ ■ J1**	
	158	45	9.1	4 000	3.5	25	**2KJ4103 - ■ DE32 - ■ ■ H1**	
	184	39	7.84	3 800	3.8	25	**2KJ4103 - ■ DE32 - ■ ■ G1**	
	223	32	6.46	3 600	4.5	25	**2KJ4103 - ■ DE32 - ■ ■ F1**	
	D.49-LEN80MH4E							
	19	365	74.24	4 600	0.87	35	**2KJ4204 - ■ DE32 - ■ ■ F1**	
	21	345	69.88	5 100	0.92	35	**2KJ4204 - ■ DE32 - ■ ■ E1**	
	23	310	62.61	5 900	1.0	35	**2KJ4204 - ■ DE32 - ■ ■ D1**	
	E.49-LEN80MH4E							
	148	48	9.7	4 000	1.8	31	**2KJ4002 - ■ DE32 - ■ ■ S1**	
	163	44	8.82	4 000	2.5	31	**2KJ4002 - ■ DE32 - ■ ■ R1**	
	192	37	7.5	4 000	2.9	31	**2KJ4002 - ■ DE32 - ■ ■ Q1**	
	211	34	6.82	4 000	3.1	31	**2KJ4002 - ■ DE32 - ■ ■ P1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**E.49-LEN80MH4E**							
	237	30	6.08	4 000	3.4	31	**2KJ4002 - ■ DE32 - ■ ■ N1**	
	264	27	5.45	4 000	3.8	31	**2KJ4002 - ■ DE32 - ■ ■ M1**	
	293	24	4.92	4 000	4.2	31	**2KJ4002 - ■ DE32 - ■ ■ L1**	
	317	23	4.54	4 000	4.5	31	**2KJ4002 - ■ DE32 - ■ ■ K1**	
	348	21	4.14	4 000	5.0	31	**2KJ4002 - ■ DE32 - ■ ■ J1**	
	Z.49-LEN80MH4E							
	28	255	52.14	6 000	1.2	35	**2KJ4104 - ■ DE32 - ■ ■ B2**	
	30	235	47.4	6 000	1.4	35	**2KJ4104 - ■ DE32 - ■ ■ A2**	
	36	200	40.31	6 100	1.6	35	**2KJ4104 - ■ DE32 - ■ ■ X1**	
	39	182	36.65	6 100	1.8	35	**2KJ4104 - ■ DE32 - ■ ■ W1**	
	44	163	32.7	6 100	2.0	35	**2KJ4104 - ■ DE32 - ■ ■ V1**	
	49	146	29.32	6 000	2.2	35	**2KJ4104 - ■ DE32 - ■ ■ U1**	
	54	131	26.43	5 800	2.4	35	**2KJ4104 - ■ DE32 - ■ ■ T1**	
	59	121	24.39	5 700	2.6	35	**2KJ4104 - ■ DE32 - ■ ■ S1**	
	65	111	22.27	5 500	2.9	35	**2KJ4104 - ■ DE32 - ■ ■ R1**	
	D.59-LEN80MH4E							
	13	545	110.12	6 400	0.82	37	**2KJ4205 - ■ DE32 - ■ ■ H1**	
	15	485	97.5	7 400	0.93	37	**2KJ4205 - ■ DE32 - ■ ■ G1**	
	18	400	81.15	7 700	1.1	37	**2KJ4205 - ■ DE32 - ■ ■ F1**	
	19	380	76.38	7 700	1.2	37	**2KJ4205 - ■ DE32 - ■ ■ E1**	
	21	340	68.43	7 800	1.3	37	**2KJ4205 - ■ DE32 - ■ ■ D1**	
	Z.59-LEN80MH4E							
	25	280	56.99	7 900	1.6	37	**2KJ4105 - ■ DE32 - ■ ■ A2**	
	28	255	51.81	7 900	1.7	37	**2KJ4105 - ■ DE32 - ■ ■ X1**	
	33	215	44.06	8 000	2.1	37	**2KJ4105 - ■ DE32 - ■ ■ W1**	
	36	199	40.06	8 000	2.3	37	**2KJ4105 - ■ DE32 - ■ ■ V1**	
	40	178	35.74	7 800	2.5	37	**2KJ4105 - ■ DE32 - ■ ■ U1**	
	45	159	32.05	7 500	2.8	37	**2KJ4105 - ■ DE32 - ■ ■ T1**	
	D.69-LEN80MH4E							
	9.9	725	145.71	10 700	0.83	42	**2KJ4206 - ■ DE32 - ■ ■ K1**	
	11	635	127.63	10 900	0.95	42	**2KJ4206 - ■ DE32 - ■ ■ J1**	
	12	585	117.82	11 000	1.0	42	**2KJ4206 - ■ DE32 - ■ ■ H1**	
	14	515	104.31	11 100	1.2	42	**2KJ4206 - ■ DE32 - ■ ■ G1**	
	17	430	86.82	11 200	1.4	42	**2KJ4206 - ■ DE32 - ■ ■ F1**	
	18	405	81.71	11 300	1.5	42	**2KJ4206 - ■ DE32 - ■ ■ E1**	
	20	360	73.22	11 300	1.6	42	**2KJ4206 - ■ DE32 - ■ ■ D1**	
	E.69-LEN80MH4E							
	155	46	9.3	6 100	2.6	38	**2KJ4003 - ■ DE32 - ■ ■ S1**	
	170	42	8.45	6 100	2.5	38	**2KJ4003 - ■ DE32 - ■ ■ R1**	
	Z.69-LEN80MH4E							
	24	300	60.97	11 400	2.0	42	**2KJ4106 - ■ DE32 - ■ ■ A2**	
	26	275	55.43	11 500	2.2	42	**2KJ4106 - ■ DE32 - ■ ■ X1**	
	D.79-LEN80MH4E							
	7	1 030	207.1	11 000	0.82	52	**2KJ4207 - ■ DE32 - ■ ■ N1**	
	7.8	920	185.7	12 700	0.91	52	**2KJ4207 - ■ DE32 - ■ ■ M1**	
	8.6	830	167.39	13 400	1.0	52	**2KJ4207 - ■ DE32 - ■ ■ L1**	
	9.3	765	154.51	13 500	1.1	52	**2KJ4207 - ■ DE32 - ■ ■ K1**	
	10	700	141.04	13 600	1.2	52	**2KJ4207 - ■ DE32 - ■ ■ J1**	
	12	580	117.03	13 700	1.4	52	**2KJ4207 - ■ DE32 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**D.79-LEN80MH4E**							
	13	545	110.14	13 800	1.5	52	**2KJ4207 - ■ DE32 - ■ ■ G1**	
	14	515	104.03	13 800	1.6	52	**2KJ4207 - ■ DE32 - ■ ■ F1**	
	16	440	88.52	13 900	1.9	52	**2KJ4207 - ■ DE32 - ■ ■ E1**	
	19	375	75.83	14 000	2.2	52	**2KJ4207 - ■ DE32 - ■ ■ D1**	
	D.89-LEN80MH4E							
	4.6	1 550	311.6	18 500	1.1	75	**2KJ4208 - ■ DE32 - ■ ■ S1**	
	5.1	1 400	283.28	18 500	1.2	75	**2KJ4208 - ■ DE32 - ■ ■ R1**	
	5.7	1 260	254.09	18 500	1.3	75	**2KJ4208 - ■ DE32 - ■ ■ Q1**	
	6.3	1 130	228.45	18 500	1.5	75	**2KJ4208 - ■ DE32 - ■ ■ P1**	
	7	1 020	206.62	18 500	1.6	75	**2KJ4208 - ■ DE32 - ■ ■ N1**	
	7.5	945	190.73	18 500	1.8	75	**2KJ4208 - ■ DE32 - ■ ■ M1**	
	8.2	865	174.71	18 500	1.9	75	**2KJ4208 - ■ DE32 - ■ ■ L1**	
	D.89-LEN90SH6E							
	3.7	1 940	254.09	18 500	0.86	82	**2KJ4208 - ■ EC32 - ■ ■ Q1**	**P01**
	4.1	1 750	228.45	18 500	0.96	82	**2KJ4208 - ■ EC32 - ■ ■ P1**	**P01**
	D.89-LEN90SS6P							
	3.7	1 930	254.09	18 500	0.87	72	**2KJ4208 - ■ ED33 - ■ ■ Q1**	**P01**
	4.1	1 740	228.45	18 500	0.97	72	**2KJ4208 - ■ ED33 - ■ ■ P1**	**P01**
	Z.19-LEN80ZME2P							
	150	48	18.92	1 700	2.1	13	**2KJ4101 - ■ DB33 - ■ ■ R1**	**P00**
	172	42	16.5	1 600	2.4	13	**2KJ4101 - ■ DB33 - ■ ■ Q1**	**P00**
	192	37	14.77	1 600	2.5	13	**2KJ4101 - ■ DB33 - ■ ■ P1**	**P00**
	216	33	13.12	1 600	2.7	13	**2KJ4101 - ■ DB33 - ■ ■ N1**	**P00**
	234	31	12.11	1 500	2.9	13	**2KJ4101 - ■ DB33 - ■ ■ M1**	**P00**
	269	27	10.52	1 500	3.1	13	**2KJ4101 - ■ DB33 - ■ ■ L1**	**P00**
	310	23	9.14	1 400	3.4	13	**2KJ4101 - ■ DB33 - ■ ■ K1**	**P00**
	344	21	8.25	1 400	3.6	13	**2KJ4101 - ■ DB33 - ■ ■ J1**	**P00**
	365	20	7.76	1 300	3.7	13	**2KJ4101 - ■ DB33 - ■ ■ H1**	**P00**
	419	17	6.77	1 300	4.0	13	**2KJ4101 - ■ DB33 - ■ ■ G1**	**P00**
	454	16	6.25	1 200	3.5	13	**2KJ4101 - ■ DB33 - ■ ■ F1**	**P00**
	522	14	5.43	1 200	3.9	13	**2KJ4101 - ■ DB33 - ■ ■ E1**	**P00**
	602	12	4.71	1 100	4.1	13	**2KJ4101 - ■ DB33 - ■ ■ D1**	**P00**
	665	11	4.26	1 100	4.4	13	**2KJ4101 - ■ DB33 - ■ ■ C1**	**P00**
	707	10	4.01	1 100	4.5	13	**2KJ4101 - ■ DB33 - ■ ■ B1**	**P00**
	812	8.8	3.49	1 000	4.9	13	**2KJ4101 - ■ DB33 - ■ ■ A1**	**P00**
	Z.19-LEN80ZMQ4P							
	59	121	24.46	1 200	0.82	13	**2KJ4101 - ■ DE33 - ■ ■ T1**	
	69	103	20.82	1 500	0.97	13	**2KJ4101 - ■ DE33 - ■ ■ S1**	
	76	94	18.92	1 700	1.1	13	**2KJ4101 - ■ DE33 - ■ ■ R1**	
	88	82	16.5	1 900	1.2	13	**2KJ4101 - ■ DE33 - ■ ■ Q1**	
	98	73	14.77	1 800	1.3	13	**2KJ4101 - ■ DE33 - ■ ■ P1**	
	110	65	13.12	1 800	1.4	13	**2KJ4101 - ■ DE33 - ■ ■ N1**	
	119	60	12.11	1 800	1.5	13	**2KJ4101 - ■ DE33 - ■ ■ M1**	
	137	52	10.52	1 700	1.6	13	**2KJ4101 - ■ DE33 - ■ ■ L1**	
	158	45	9.14	1 700	1.7	13	**2KJ4101 - ■ DE33 - ■ ■ K1**	
	175	41	8.25	1 600	1.8	13	**2KJ4101 - ■ DE33 - ■ ■ J1**	
	186	38	7.76	1 600	1.9	13	**2KJ4101 - ■ DE33 - ■ ■ H1**	
	213	34	6.77	1 600	2.0	13	**2KJ4101 - ■ DE33 - ■ ■ G1**	
	231	31	6.25	1 400	1.8	13	**2KJ4101 - ■ DE33 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**Z.19-LEN80ZMQ4P**							
	266	27	5.43	1 400	2.0	13	**2KJ4101 - ■ DE33 - ■ ■ E1**	
	307	23	4.71	1 300	2.1	13	**2KJ4101 - ■ DE33 - ■ ■ D1**	
	339	21	4.26	1 300	2.2	13	**2KJ4101 - ■ DE33 - ■ ■ C1**	
	360	20	4.01	1 300	2.3	13	**2KJ4101 - ■ DE33 - ■ ■ B1**	
	414	17	3.49	1 200	2.5	13	**2KJ4101 - ■ DE33 - ■ ■ A1**	
	Z.29-LEN80ZME2P							
	160	45	17.67	2 700	3.1	14	**2KJ4102 - ■ DB33 - ■ ■ R1**	**P00**
	180	40	15.75	2 600	3.5	14	**2KJ4102 - ■ DB33 - ■ ■ Q1**	**P00**
	195	37	14.54	2 500	3.3	14	**2KJ4102 - ■ DB33 - ■ ■ P1**	**P00**
	223	32	12.73	2 400	4.4	14	**2KJ4102 - ■ DB33 - ■ ■ N1**	**P00**
	410	18	6.92	2 000	4.3	14	**2KJ4102 - ■ DB33 - ■ ■ G1**	**P00**
	Z.29-LEN80ZMQ4P							
	45	158	31.86	2 800	0.89	15	**2KJ4102 - ■ DE33 - ■ ■ W1**	
	50	144	28.96	3 000	0.98	15	**2KJ4102 - ■ DE33 - ■ ■ V1**	
	58	123	24.84	3 200	1.1	15	**2KJ4102 - ■ DE33 - ■ ■ U1**	
	64	112	22.58	3 300	1.3	15	**2KJ4102 - ■ DE33 - ■ ■ T1**	
	73	98	19.8	3 300	1.4	15	**2KJ4102 - ■ DE33 - ■ ■ S1**	
	82	88	17.67	3 200	1.6	15	**2KJ4102 - ■ DE33 - ■ ■ R1**	
	92	78	15.75	3 100	1.8	15	**2KJ4102 - ■ DE33 - ■ ■ Q1**	
	99	72	14.54	3 000	1.7	15	**2KJ4102 - ■ DE33 - ■ ■ P1**	
	114	63	12.73	2 900	2.2	15	**2KJ4102 - ■ DE33 - ■ ■ N1**	
	129	55	11.16	2 800	2.5	15	**2KJ4102 - ■ DE33 - ■ ■ M1**	
	143	50	10.12	2 800	2.8	15	**2KJ4102 - ■ DE33 - ■ ■ L1**	
	152	47	9.53	2 700	3.0	15	**2KJ4102 - ■ DE33 - ■ ■ K1**	
	172	42	8.4	2 600	3.3	15	**2KJ4102 - ■ DE33 - ■ ■ J1**	
	198	36	7.29	2 500	3.6	15	**2KJ4102 - ■ DE33 - ■ ■ H1**	
	209	34	6.92	2 400	2.2	15	**2KJ4102 - ■ DE33 - ■ ■ G1**	
	238	30	6.06	2 400	3.3	15	**2KJ4102 - ■ DE33 - ■ ■ F1**	
	272	26	5.31	2 300	3.5	15	**2KJ4102 - ■ DE33 - ■ ■ E1**	
	300	24	4.82	2 200	3.6	15	**2KJ4102 - ■ DE33 - ■ ■ D1**	
	318	22	4.54	2 200	3.7	15	**2KJ4102 - ■ DE33 - ■ ■ C1**	
	361	20	4	2 100	3.8	15	**2KJ4102 - ■ DE33 - ■ ■ B1**	
	416	17	3.47	2 000	4.1	15	**2KJ4102 - ■ DE33 - ■ ■ A1**	
	E.39-LEN80ZMQ4P							
	176	41	8.2	3 000	0.84	17	**2KJ4001 - ■ DE33 - ■ ■ R1**	
	201	36	7.2	3 000	1.1	17	**2KJ4001 - ■ DE33 - ■ ■ Q1**	
	221	32	6.55	3 000	1.2	17	**2KJ4001 - ■ DE33 - ■ ■ P1**	
	258	28	5.6	3 000	1.4	17	**2KJ4001 - ■ DE33 - ■ ■ N1**	
	284	25	5.09	3 000	1.6	17	**2KJ4001 - ■ DE33 - ■ ■ M1**	
	321	22	4.5	3 000	2.2	17	**2KJ4001 - ■ DE33 - ■ ■ L1**	
	353	20	4.09	3 000	2.4	17	**2KJ4001 - ■ DE33 - ■ ■ K1**	
	404	18	3.58	3 000	3.3	17	**2KJ4001 - ■ DE33 - ■ ■ J1**	
	437	16	3.31	3 000	3.5	17	**2KJ4001 - ■ DE33 - ■ ■ H1**	
	493	14	2.93	3 000	4.5	17	**2KJ4001 - ■ DE33 - ■ ■ G1**	
	592	12	2.44	2 900	5.4	17	**2KJ4001 - ■ DE33 - ■ ■ F1**	
	631	11	2.29	2 900	5.8	17	**2KJ4001 - ■ DE33 - ■ ■ E1**	
	Z.39-LEN80ZMQ4P							
	29	245	49.75	3 200	0.81	16	**2KJ4103 - ■ DE33 - ■ ■ X1**	
	33	215	43.68	3 700	0.92	16	**2KJ4103 - ■ DE33 - ■ ■ W1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**Z.39-LEN80ZMQ4P**							
	36	197	39.71	3 900	1.0	16	**2KJ4103 - ■ DE33 - ■ ■ V1**	
	43	168	33.97	4 100	1.2	16	**2KJ4103 - ■ DE33 - ■ ■ U1**	
	47	153	30.88	4 200	1.3	16	**2KJ4103 - ■ DE33 - ■ ■ T1**	
	53	135	27.3	4 400	1.5	16	**2KJ4103 - ■ DE33 - ■ ■ S1**	
	58	123	24.82	4 400	1.6	16	**2KJ4103 - ■ DE33 - ■ ■ R1**	
	66	108	21.74	4 500	1.9	16	**2KJ4103 - ■ DE33 - ■ ■ Q1**	
	72	100	20.07	4 500	2.0	16	**2KJ4103 - ■ DE33 - ■ ■ P1**	
	81	88	17.77	4 500	2.3	16	**2KJ4103 - ■ DE33 - ■ ■ N1**	
	98	73	14.79	4 500	2.6	16	**2KJ4103 - ■ DE33 - ■ ■ M1**	
	104	69	13.92	4 400	2.7	16	**2KJ4103 - ■ DE33 - ■ ■ L1**	
	116	62	12.47	4 400	2.9	16	**2KJ4103 - ■ DE33 - ■ ■ K1**	
	136	53	10.62	4 200	3.2	16	**2KJ4103 - ■ DE33 - ■ ■ J1**	
	159	45	9.1	4 000	3.5	16	**2KJ4103 - ■ DE33 - ■ ■ H1**	
	184	39	7.84	3 800	3.8	16	**2KJ4103 - ■ DE33 - ■ ■ G1**	
	224	32	6.46	3 600	4.6	16	**2KJ4103 - ■ DE33 - ■ ■ F1**	
	D.49-LEN80ZMQ4P							
	19	365	74.24	4 600	0.87	27	**2KJ4204 - ■ DE33 - ■ ■ F1**	
	21	345	69.88	5 100	0.92	27	**2KJ4204 - ■ DE33 - ■ ■ E1**	
	23	310	62.61	5 900	1.0	27	**2KJ4204 - ■ DE33 - ■ ■ D1**	
	E.49-LEN80ZMQ4P							
	149	48	9.7	4 000	1.8	23	**2KJ4002 - ■ DE33 - ■ ■ S1**	
	164	44	8.82	4 000	2.5	23	**2KJ4002 - ■ DE33 - ■ ■ R1**	
	193	37	7.5	4 000	2.9	23	**2KJ4002 - ■ DE33 - ■ ■ Q1**	
	212	34	6.82	4 000	3.1	23	**2KJ4002 - ■ DE33 - ■ ■ P1**	
	238	30	6.08	4 000	3.5	23	**2KJ4002 - ■ DE33 - ■ ■ N1**	
	265	27	5.45	4 000	3.8	23	**2KJ4002 - ■ DE33 - ■ ■ M1**	
	294	24	4.92	4 000	4.2	23	**2KJ4002 - ■ DE33 - ■ ■ L1**	
	318	22	4.54	4 000	4.5	23	**2KJ4002 - ■ DE33 - ■ ■ K1**	
	349	20	4.14	4 000	5.0	23	**2KJ4002 - ■ DE33 - ■ ■ J1**	
	Z.49-LEN80ZMQ4P							
	28	255	52.14	6 000	1.2	27	**2KJ4104 - ■ DE33 - ■ ■ B2**	
	30	235	47.4	6 000	1.4	27	**2KJ4104 - ■ DE33 - ■ ■ A2**	
	36	200	40.31	6 100	1.6	27	**2KJ4104 - ■ DE33 - ■ ■ X1**	
	39	182	36.65	6 100	1.8	27	**2KJ4104 - ■ DE33 - ■ ■ W1**	
	44	162	32.7	6 100	2.0	27	**2KJ4104 - ■ DE33 - ■ ■ V1**	
	49	145	29.32	6 000	2.2	27	**2KJ4104 - ■ DE33 - ■ ■ U1**	
	55	131	26.43	5 800	2.4	27	**2KJ4104 - ■ DE33 - ■ ■ T1**	
	59	121	24.39	5 700	2.6	27	**2KJ4104 - ■ DE33 - ■ ■ S1**	
	65	110	22.27	5 500	2.9	27	**2KJ4104 - ■ DE33 - ■ ■ R1**	
	D.59-LEN80ZMQ4P							
	13	545	110.12	6 400	0.82	29	**2KJ4205 - ■ DE33 - ■ ■ H1**	
	15	480	97.5	7 500	0.93	29	**2KJ4205 - ■ DE33 - ■ ■ G1**	
	18	400	81.15	7 700	1.1	29	**2KJ4205 - ■ DE33 - ■ ■ F1**	
	19	375	76.38	7 700	1.2	29	**2KJ4205 - ■ DE33 - ■ ■ E1**	
	21	335	68.43	7 800	1.3	29	**2KJ4205 - ■ DE33 - ■ ■ D1**	
	Z.59-LEN80ZMQ4P							
	25	280	56.99	7 900	1.6	29	**2KJ4105 - ■ DE33 - ■ ■ A2**	
	28	255	51.81	7 900	1.8	29	**2KJ4105 - ■ DE33 - ■ ■ X1**	
	33	215	44.06	8 000	2.1	29	**2KJ4105 - ■ DE33 - ■ ■ W1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**Z.59-LEN80ZMQ4P**							
	36	199	40.06	8 000	2.3	29	**2KJ4105 - ■ DE33 - ■ ■ V1**	
	40	177	35.74	7 800	2.5	29	**2KJ4105 - ■ DE33 - ■ ■ U1**	
	45	159	32.05	7 500	2.8	29	**2KJ4105 - ■ DE33 - ■ ■ T1**	
	D.69-LEN80ZMQ4P							
	9.9	720	145.71	10 700	0.83	34	**2KJ4206 - ■ DE33 - ■ ■ K1**	
	11	630	127.63	10 900	0.95	34	**2KJ4206 - ■ DE33 - ■ ■ J1**	
	12	580	117.82	11 000	1.0	34	**2KJ4206 - ■ DE33 - ■ ■ H1**	
	14	515	104.31	11 100	1.2	34	**2KJ4206 - ■ DE33 - ■ ■ G1**	
	17	430	86.82	11 200	1.4	34	**2KJ4206 - ■ DE33 - ■ ■ F1**	
	18	405	81.71	11 300	1.5	34	**2KJ4206 - ■ DE33 - ■ ■ E1**	
	20	360	73.22	11 300	1.7	34	**2KJ4206 - ■ DE33 - ■ ■ D1**	
	E.69-LEN80ZMQ4P							
	155	46	9.3	6 100	2.6	30	**2KJ4003 - ■ DE33 - ■ ■ S1**	
	171	42	8.45	6 100	2.5	30	**2KJ4003 - ■ DE33 - ■ ■ R1**	
	Z.69-LEN80ZMQ4P							
	24	300	60.97	11 400	2.0	33	**2KJ4106 - ■ DE33 - ■ ■ A2**	
	26	275	55.43	11 500	2.2	33	**2KJ4106 - ■ DE33 - ■ ■ X1**	
	D.79-LEN80ZMQ4P							
	7	1 020	207.1	11 200	0.82	44	**2KJ4207 - ■ DE33 - ■ ■ N1**	
	7.8	920	185.7	12 700	0.91	44	**2KJ4207 - ■ DE33 - ■ ■ M1**	
	8.6	830	167.39	13 400	1.0	44	**2KJ4207 - ■ DE33 - ■ ■ L1**	
	9.4	765	154.51	13 500	1.1	44	**2KJ4207 - ■ DE33 - ■ ■ K1**	
	10	695	141.04	13 600	1.2	44	**2KJ4207 - ■ DE33 - ■ ■ J1**	
	12	580	117.03	13 700	1.4	44	**2KJ4207 - ■ DE33 - ■ ■ H1**	
	13	545	110.14	13 800	1.5	44	**2KJ4207 - ■ DE33 - ■ ■ G1**	
	14	515	104.03	13 800	1.6	44	**2KJ4207 - ■ DE33 - ■ ■ F1**	
	16	435	88.52	13 900	1.9	44	**2KJ4207 - ■ DE33 - ■ ■ E1**	
	19	375	75.83	14 000	2.2	44	**2KJ4207 - ■ DE33 - ■ ■ D1**	
	D.89-LEN80ZMQ4P							
	4.6	1 540	311.6	18 500	1.1	67	**2KJ4208 - ■ DE33 - ■ ■ S1**	
	5.1	1 400	283.28	18 500	1.2	67	**2KJ4208 - ■ DE33 - ■ ■ R1**	
	5.7	1 250	254.09	18 500	1.3	67	**2KJ4208 - ■ DE33 - ■ ■ Q1**	
	6.3	1 130	228.45	18 500	1.5	67	**2KJ4208 - ■ DE33 - ■ ■ P1**	
	7	1 020	206.62	18 500	1.6	67	**2KJ4208 - ■ DE33 - ■ ■ N1**	
	7.6	945	190.73	18 500	1.8	67	**2KJ4208 - ■ DE33 - ■ ■ M1**	
	8.3	865	174.71	18 500	1.9	67	**2KJ4208 - ■ DE33 - ■ ■ L1**	
	D.109-LEN90SH6E							
	2.7	2 670	348.88	20 200	1.2	124	**2KJ4210 - ■ EC32 - ■ ■ T1**	**P01**
	3	2 410	314.98	20 200	1.3	124	**2KJ4210 - ■ EC32 - ■ ■ S1**	**P01**
	3.3	2 180	285.72	20 200	1.4	124	**2KJ4210 - ■ EC32 - ■ ■ R1**	**P01**
	3.5	2 020	263.74	20 200	1.5	124	**2KJ4210 - ■ EC32 - ■ ■ Q1**	**P01**
	3.9	1 830	239.75	20 200	1.7	124	**2KJ4210 - ■ EC32 - ■ ■ P1**	**P01**
	D.109-LEN90SS6P							
	2.7	2 650	348.88	20 200	1.2	114	**2KJ4210 - ■ ED33 - ■ ■ T1**	**P01**
	3	2 400	314.98	20 200	1.3	114	**2KJ4210 - ■ ED33 - ■ ■ S1**	**P01**
	3.3	2 170	285.72	20 200	1.4	114	**2KJ4210 - ■ ED33 - ■ ■ R1**	**P01**
	3.6	2 010	263.74	20 200	1.5	114	**2KJ4210 - ■ ED33 - ■ ■ Q1**	**P01**
	3.9	1 820	239.75	20 200	1.7	114	**2KJ4210 - ■ ED33 - ■ ■ P1**	**P01**

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**D.129-LEN90SH6E**							
	2.5	2 850	373	28 300	1.7	187	**2KJ4211 - ■ EC32 - ■ ■ S1**	**P01**
	2.7	2 630	344.17	28 400	1.9	187	**2KJ4211 - ■ EC32 - ■ ■ R1**	**P01**
	D.129-LEN90SS6P							
	2.5	2 840	373	28 300	1.8	177	**2KJ4211 - ■ ED33 - ■ ■ S1**	**P01**
	2.7	2 620	344.17	28 400	1.9	177	**2KJ4211 - ■ ED33 - ■ ■ R1**	**P01**
	D.89-Z39-LEN80MH4E							
	3.2	2 060	452	18 100	0.81	81	**2KJ4233 - ■ DE32 - ■ ■ C1**	
	3.6	1 850	405	18 500	0.91	81	**2KJ4233 - ■ DE32 - ■ ■ B1**	
	4.2	1 570	344.83	18 500	1.1	81	**2KJ4233 - ■ DE32 - ■ ■ A1**	
	D.89-Z39-LEN80ZMQ4P							
	3.2	2 060	452	18 100	0.82	73	**2KJ4233 - ■ DE33 - ■ ■ C1**	
	3.6	1 840	405	18 500	0.91	73	**2KJ4233 - ■ DE33 - ■ ■ B1**	
	4.2	1 570	344.83	18 500	1.1	73	**2KJ4233 - ■ DE33 - ■ ■ A1**	
	D.109-Z39-LEN80MH4E							
	1.7	3 820	836	20 000	0.81	124	**2KJ4235 - ■ DE32 - ■ ■ G1**	
	2.1	3 150	690	20 200	0.98	124	**2KJ4235 - ■ DE32 - ■ ■ F1**	
	2.2	2 960	649	20 200	1.0	124	**2KJ4235 - ■ DE32 - ■ ■ E1**	
	2.5	2 660	582	20 200	1.2	124	**2KJ4235 - ■ DE32 - ■ ■ D1**	
	2.9	2 260	495	20 200	1.4	124	**2KJ4235 - ■ DE32 - ■ ■ C1**	
	3.4	1 930	424	20 200	1.6	124	**2KJ4235 - ■ DE32 - ■ ■ B1**	
	3.9	1 670	366	20 200	1.9	124	**2KJ4235 - ■ DE32 - ■ ■ A1**	
	D.129-Z49-LEN80MH4E							
	1.1	6 260	1 369	26 300	0.8	209	**2KJ4237 - ■ DE32 - ■ ■ L1**	
	1.2	5 500	1 204	26 700	0.91	209	**2KJ4237 - ■ DE32 - ■ ■ K1**	
	1.4	4 640	1 016	27 200	1.1	209	**2KJ4237 - ■ DE32 - ■ ■ J1**	
	1.6	3 990	873	27 600	1.3	209	**2KJ4237 - ■ DE32 - ■ ■ G1**	
	1.6	4 040	885	27 600	1.2	209	**2KJ4237 - ■ DE32 - ■ ■ H1**	
	1.7	3 770	825	27 700	1.3	209	**2KJ4237 - ■ DE32 - ■ ■ F1**	
	2.1	3 210	702	28 100	1.6	209	**2KJ4237 - ■ DE32 - ■ ■ E1**	
	2.4	2 740	601	28 300	1.8	209	**2KJ4237 - ■ DE32 - ■ ■ D1**	
	D.149-Z49-LEN80MH4E							
	0.71	9 310	2 037	50 500	0.86	285	**2KJ4240 - ■ DE32 - ■ ■ Q1**	
	0.75	8 760	1 917	50 800	0.91	285	**2KJ4240 - ■ DE32 - ■ ■ P1**	
	0.8	8 280	1 811	51 000	0.97	285	**2KJ4240 - ■ DE32 - ■ ■ N1**	
	0.93	7 040	1 541	51 600	1.1	285	**2KJ4240 - ■ DE32 - ■ ■ M1**	
	1.1	6 030	1 320	52 100	1.3	285	**2KJ4240 - ■ DE32 - ■ ■ L1**	
	1.2	5 300	1 161	52 500	1.5	285	**2KJ4240 - ■ DE32 - ■ ■ K1**	
	1.5	4 470	979	52 900	1.8	285	**2KJ4240 - ■ DE32 - ■ ■ J1**	
	D.169-Z69-LEN80MH4E							
	0.41	15 900	3 478	69 400	0.88	474	**2KJ4242 - ■ DE32 - ■ ■ U1**	
	0.46	14 200	3 118	70 100	0.98	474	**2KJ4242 - ■ DE32 - ■ ■ T1**	
	0.51	12 800	2 811	70 600	1.1	474	**2KJ4242 - ■ DE32 - ■ ■ S1**	
	0.56	11 800	2 594	70 900	1.2	474	**2KJ4242 - ■ DE32 - ■ ■ R1**	
	0.61	10 800	2 368	71 300	1.3	474	**2KJ4242 - ■ DE32 - ■ ■ Q1**	
	0.73	8 980	1 965	72 000	1.6	474	**2KJ4242 - ■ DE32 - ■ ■ P1**	
	0.78	8 450	1 849	72 200	1.7	474	**2KJ4242 - ■ DE32 - ■ ■ N1**	
	0.82	7 980	1 747	72 400	1.8	474	**2KJ4242 - ■ DE32 - ■ ■ M1**	
	D.189-Z69-LEN80MH4E							
	0.32	20 500	4 490	107 000	0.93	687	**2KJ4244 - ■ DE32 - ■ ■ W1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**D.189-Z69-LEN80MH4E**							
	0.35	18 600	4 082	107 000	1.0	687	**2KJ4244 - ■ DE32 - ■ ■ V1**	
	0.4	16 600	3 642	107 000	1.1	687	**2KJ4244 - ■ DE32 - ■ ■ U1**	
	0.44	14 900	3 265	107 000	1.3	687	**2KJ4244 - ■ DE32 - ■ ■ T1**	
	0.49	13 400	2 943	107 000	1.4	687	**2KJ4244 - ■ DE32 - ■ ■ S1**	
	0.53	12 400	2 717	107 000	1.5	687	**2KJ4244 - ■ DE32 - ■ ■ R1**	
	0.58	11 300	2 480	107 000	1.7	687	**2KJ4244 - ■ DE32 - ■ ■ Q1**	
	0.7	9 410	2 058	107 000	2.0	687	**2KJ4244 - ■ DE32 - ■ ■ P1**	
	D.109-Z39-LEN80ZMQ4P							
	1.7	3 800	836	20 100	0.81	116	**2KJ4235 - ■ DE33 - ■ ■ G1**	
	2.1	3 140	690	20 200	0.99	116	**2KJ4235 - ■ DE33 - ■ ■ F1**	
	2.2	2 950	649	20 200	1.0	116	**2KJ4235 - ■ DE33 - ■ ■ E1**	
	2.5	2 650	582	20 200	1.2	116	**2KJ4235 - ■ DE33 - ■ ■ D1**	
	2.9	2 250	495	20 200	1.4	116	**2KJ4235 - ■ DE33 - ■ ■ C1**	
	3.4	1 930	424	20 200	1.6	116	**2KJ4235 - ■ DE33 - ■ ■ B1**	
	3.9	1 660	366	20 200	1.9	116	**2KJ4235 - ■ DE33 - ■ ■ A1**	
	D.129-Z49-LEN80ZMQ4P							
	1.1	6 230	1 369	26 300	0.8	201	**2KJ4237 - ■ DE33 - ■ ■ L1**	
	1.2	5 480	1 204	26 700	0.91	201	**2KJ4237 - ■ DE33 - ■ ■ K1**	
	1.4	4 630	1 016	27 200	1.1	201	**2KJ4237 - ■ DE33 - ■ ■ J1**	
	1.6	4 030	885	27 600	1.2	201	**2KJ4237 - ■ DE33 - ■ ■ H1**	
	1.7	3 970	873	27 600	1.3	201	**2KJ4237 - ■ DE33 - ■ ■ G1**	
	1.8	3 750	825	27 700	1.3	201	**2KJ4237 - ■ DE33 - ■ ■ F1**	
	2.1	3 190	702	28 100	1.6	201	**2KJ4237 - ■ DE33 - ■ ■ E1**	
	2.4	2 730	601	28 400	1.8	201	**2KJ4237 - ■ DE33 - ■ ■ D1**	
	D.149-Z49-LEN80ZMQ4P							
	0.71	9 280	2 037	50 600	0.86	277	**2KJ4240 - ■ DE33 - ■ ■ Q1**	
	0.75	8 730	1 917	50 800	0.92	277	**2KJ4240 - ■ DE33 - ■ ■ P1**	
	0.8	8 250	1 811	51 000	0.97	277	**2KJ4240 - ■ DE33 - ■ ■ N1**	
	0.94	7 020	1 541	51 600	1.1	277	**2KJ4240 - ■ DE33 - ■ ■ M1**	
	1.1	6 010	1 320	52 100	1.3	277	**2KJ4240 - ■ DE33 - ■ ■ L1**	
	1.2	5 290	1 161	52 500	1.5	277	**2KJ4240 - ■ DE33 - ■ ■ K1**	
	1.5	4 460	979	52 900	1.8	277	**2KJ4240 - ■ DE33 - ■ ■ J1**	
	D.169-Z69-LEN80ZMQ4P							
	0.42	15 800	3 478	69 500	0.88	466	**2KJ4242 - ■ DE33 - ■ ■ U1**	
	0.46	14 200	3 118	70 100	0.99	466	**2KJ4242 - ■ DE33 - ■ ■ T1**	
	0.51	12 800	2 811	70 600	1.1	466	**2KJ4242 - ■ DE33 - ■ ■ S1**	
	0.56	11 800	2 594	70 900	1.2	466	**2KJ4242 - ■ DE33 - ■ ■ R1**	
	0.61	10 700	2 368	71 300	1.3	466	**2KJ4242 - ■ DE33 - ■ ■ Q1**	
	0.74	8 950	1 965	72 000	1.6	466	**2KJ4242 - ■ DE33 - ■ ■ P1**	
	0.78	8 420	1 849	72 200	1.7	466	**2KJ4242 - ■ DE33 - ■ ■ N1**	
	0.83	7 960	1 747	72 400	1.8	466	**2KJ4242 - ■ DE33 - ■ ■ M1**	
	D.189-Z69-LEN80ZMQ4P							
	0.32	20 400	4 490	107 000	0.93	679	**2KJ4244 - ■ DE33 - ■ ■ W1**	
	0.35	18 600	4 082	107 000	1.0	679	**2KJ4244 - ■ DE33 - ■ ■ V1**	
	0.4	16 500	3 642	107 000	1.1	679	**2KJ4244 - ■ DE33 - ■ ■ U1**	
	0.44	14 800	3 265	107 000	1.3	679	**2KJ4244 - ■ DE33 - ■ ■ T1**	
	0.49	13 400	2 943	107 000	1.4	679	**2KJ4244 - ■ DE33 - ■ ■ S1**	
	0.53	12 300	2 717	107 000	1.5	679	**2KJ4244 - ■ DE33 - ■ ■ R1**	
	0.58	11 300	2 480	107 000	1.7	679	**2KJ4244 - ■ DE33 - ■ ■ Q1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**D.189-Z69-LEN80ZMQ4P**							
	0.7	9 370	2 058	107 000	2.0	679	**2KJ4244 - ■ DE33 - ■ ■ P1**	
1.1	**Z.19-LEN80ME2E**							
	150	70	18.92	1 500	1.4	20	**2KJ4101 - ■ DM32 - ■ ■ R1**	**P00**
	172	61	16.5	1 500	1.6	20	**2KJ4101 - ■ DM32 - ■ ■ Q1**	**P00**
	192	55	14.77	1 500	1.7	20	**2KJ4101 - ■ DM32 - ■ ■ P1**	**P00**
	216	49	13.12	1 400	1.9	20	**2KJ4101 - ■ DM32 - ■ ■ N1**	**P00**
	234	45	12.11	1 400	2.0	20	**2KJ4101 - ■ DM32 - ■ ■ M1**	**P00**
	269	39	10.52	1 400	2.1	20	**2KJ4101 - ■ DM32 - ■ ■ L1**	**P00**
	310	34	9.14	1 300	2.3	20	**2KJ4101 - ■ DM32 - ■ ■ K1**	**P00**
	344	31	8.25	1 300	2.4	20	**2KJ4101 - ■ DM32 - ■ ■ J1**	**P00**
	365	29	7.76	1 300	2.5	20	**2KJ4101 - ■ DM32 - ■ ■ H1**	**P00**
	419	25	6.77	1 200	2.7	20	**2KJ4101 - ■ DM32 - ■ ■ G1**	**P00**
	454	23	6.25	1 100	2.4	20	**2KJ4101 - ■ DM32 - ■ ■ F1**	**P00**
	522	20	5.43	1 100	2.6	20	**2KJ4101 - ■ DM32 - ■ ■ E1**	**P00**
	602	18	4.71	1 100	2.8	20	**2KJ4101 - ■ DM32 - ■ ■ D1**	**P00**
	665	16	4.26	1 000	3.0	20	**2KJ4101 - ■ DM32 - ■ ■ C1**	**P00**
	707	15	4.01	1 000	3.1	20	**2KJ4101 - ■ DM32 - ■ ■ B1**	**P00**
	812	13	3.49	1 000	3.3	20	**2KJ4101 - ■ DM32 - ■ ■ A1**	**P00**
	Z.29-LEN80ME2E							
	160	66	17.67	2 600	2.1	22	**2KJ4102 - ■ DM32 - ■ ■ R1**	**P00**
	180	58	15.75	2 500	2.4	22	**2KJ4102 - ■ DM32 - ■ ■ Q1**	**P00**
	195	54	14.54	2 400	2.2	22	**2KJ4102 - ■ DM32 - ■ ■ P1**	**P00**
	223	47	12.73	2 400	3.0	22	**2KJ4102 - ■ DM32 - ■ ■ N1**	**P00**
	254	41	11.16	2 300	3.4	22	**2KJ4102 - ■ DM32 - ■ ■ M1**	**P00**
	280	38	10.12	2 200	3.7	22	**2KJ4102 - ■ DM32 - ■ ■ L1**	**P00**
	297	35	9.53	2 200	4.0	22	**2KJ4102 - ■ DM32 - ■ ■ K1**	**P00**
	338	31	8.4	2 100	4.4	22	**2KJ4102 - ■ DM32 - ■ ■ J1**	**P00**
	389	27	7.29	2 000	4.8	22	**2KJ4102 - ■ DM32 - ■ ■ H1**	**P00**
	410	26	6.92	2 000	2.9	22	**2KJ4102 - ■ DM32 - ■ ■ G1**	**P00**
	468	22	6.06	1 900	4.5	22	**2KJ4102 - ■ DM32 - ■ ■ F1**	**P00**
	534	20	5.31	1 800	4.6	22	**2KJ4102 - ■ DM32 - ■ ■ E1**	**P00**
	588	18	4.82	1 800	4.8	22	**2KJ4102 - ■ DM32 - ■ ■ D1**	**P00**
	624	17	4.54	1 700	5.0	22	**2KJ4102 - ■ DM32 - ■ ■ C1**	**P00**
	709	15	4	1 700	5.1	22	**2KJ4102 - ■ DM32 - ■ ■ B1**	**P00**
	817	13	3.47	1 600	5.4	22	**2KJ4102 - ■ DM32 - ■ ■ A1**	**P00**
	Z.29-LEN90SH4E							
	64	165	22.58	1 900	0.85	30	**2KJ4102 - ■ EL32 - ■ ■ T1**	
	73	144	19.8	2 200	0.97	30	**2KJ4102 - ■ EL32 - ■ ■ S1**	
	81	129	17.67	2 300	1.1	30	**2KJ4102 - ■ EL32 - ■ ■ R1**	
	91	115	15.75	2 500	1.2	30	**2KJ4102 - ■ EL32 - ■ ■ Q1**	
	99	106	14.54	2 600	1.1	30	**2KJ4102 - ■ EL32 - ■ ■ P1**	
	113	93	12.73	2 700	1.5	30	**2KJ4102 - ■ EL32 - ■ ■ N1**	
	129	81	11.16	2 700	1.7	30	**2KJ4102 - ■ EL32 - ■ ■ M1**	
	142	74	10.12	2 600	1.9	30	**2KJ4102 - ■ EL32 - ■ ■ L1**	
	151	70	9.53	2 600	2.0	30	**2KJ4102 - ■ EL32 - ■ ■ K1**	
	171	61	8.4	2 500	2.3	30	**2KJ4102 - ■ EL32 - ■ ■ J1**	
	198	53	7.29	2 400	2.4	30	**2KJ4102 - ■ EL32 - ■ ■ H1**	
	208	50	6.92	2 300	1.5	30	**2KJ4102 - ■ EL32 - ■ ■ G1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**Z.29-LEN90SH4E**							
	238	44	6.06	2 300	2.3	30	**2KJ4102 - ■ EL32 - ■ ■ F1**	
	271	39	5.31	2 200	2.3	30	**2KJ4102 - ■ EL32 - ■ ■ E1**	
	299	35	4.82	2 100	2.4	30	**2KJ4102 - ■ EL32 - ■ ■ D1**	
	317	33	4.54	2 100	2.5	30	**2KJ4102 - ■ EL32 - ■ ■ C1**	
	360	29	4	2 000	2.6	30	**2KJ4102 - ■ EL32 - ■ ■ B1**	
	415	25	3.47	2 000	2.8	30	**2KJ4102 - ■ EL32 - ■ ■ A1**	
	Z.29-LEN90SN4P							
	63	166	22.58	1 900	0.84	17	**2KJ4102 - ■ EL33 - ■ ■ T1**	
	72	145	19.8	2 200	0.96	17	**2KJ4102 - ■ EL33 - ■ ■ S1**	
	81	130	17.67	2 300	1.1	17	**2KJ4102 - ■ EL33 - ■ ■ R1**	
	91	116	15.75	2 500	1.2	17	**2KJ4102 - ■ EL33 - ■ ■ Q1**	
	98	107	14.54	2 600	1.1	17	**2KJ4102 - ■ EL33 - ■ ■ P1**	
	112	94	12.73	2 700	1.5	17	**2KJ4102 - ■ EL33 - ■ ■ N1**	
	128	82	11.16	2 700	1.7	17	**2KJ4102 - ■ EL33 - ■ ■ M1**	
	141	74	10.12	2 600	1.9	17	**2KJ4102 - ■ EL33 - ■ ■ L1**	
	150	70	9.53	2 600	2.0	17	**2KJ4102 - ■ EL33 - ■ ■ K1**	
	170	62	8.4	2 500	2.2	17	**2KJ4102 - ■ EL33 - ■ ■ J1**	
	196	54	7.29	2 400	2.4	17	**2KJ4102 - ■ EL33 - ■ ■ H1**	
	207	51	6.92	2 300	1.5	17	**2KJ4102 - ■ EL33 - ■ ■ G1**	
	236	44	6.06	2 300	2.2	17	**2KJ4102 - ■ EL33 - ■ ■ F1**	
	269	39	5.31	2 200	2.3	17	**2KJ4102 - ■ EL33 - ■ ■ E1**	
	297	35	4.82	2 100	2.4	17	**2KJ4102 - ■ EL33 - ■ ■ D1**	
	315	33	4.54	2 100	2.5	17	**2KJ4102 - ■ EL33 - ■ ■ C1**	
	358	29	4	2 000	2.6	17	**2KJ4102 - ■ EL33 - ■ ■ B1**	
	412	26	3.47	2 000	2.7	17	**2KJ4102 - ■ EL33 - ■ ■ A1**	
	E.39-LEN90SH4E							
	220	48	6.55	3 000	0.84	32	**2KJ4001 - ■ EL32 - ■ ■ P1**	
	257	41	5.6	3 000	0.98	32	**2KJ4001 - ■ EL32 - ■ ■ N1**	
	283	37	5.09	3 000	1.1	32	**2KJ4001 - ■ EL32 - ■ ■ M1**	
	320	33	4.5	3 000	1.5	32	**2KJ4001 - ■ EL32 - ■ ■ L1**	
	352	30	4.09	3 000	1.6	32	**2KJ4001 - ■ EL32 - ■ ■ K1**	
	402	26	3.58	3 000	2.2	32	**2KJ4001 - ■ EL32 - ■ ■ J1**	
	435	24	3.31	3 000	2.4	32	**2KJ4001 - ■ EL32 - ■ ■ H1**	
	491	21	2.93	3 000	3.0	32	**2KJ4001 - ■ EL32 - ■ ■ G1**	
	590	18	2.44	2 900	3.7	32	**2KJ4001 - ■ EL32 - ■ ■ F1**	
	629	17	2.29	2 800	4.0	32	**2KJ4001 - ■ EL32 - ■ ■ E1**	
	699	15	2.06	2 700	4.4	32	**2KJ4001 - ■ EL32 - ■ ■ D1**	
	823	13	1.75	2 600	5.2	32	**2KJ4001 - ■ EL32 - ■ ■ C1**	
	960	11	1.5	2 500	5.6	32	**2KJ4001 - ■ EL32 - ■ ■ B1**	
	1 116	9.4	1.29	2 400	5.7	32	**2KJ4001 - ■ EL32 - ■ ■ A1**	
	E.39-LEN90SN4P							
	218	48	6.55	3 000	0.83	19	**2KJ4001 - ■ EL33 - ■ ■ P1**	
	255	41	5.6	3 000	0.97	19	**2KJ4001 - ■ EL33 - ■ ■ N1**	
	281	37	5.09	3 000	1.1	19	**2KJ4001 - ■ EL33 - ■ ■ M1**	
	318	33	4.5	3 000	1.5	19	**2KJ4001 - ■ EL33 - ■ ■ L1**	
	350	30	4.09	3 000	1.6	19	**2KJ4001 - ■ EL33 - ■ ■ K1**	
	399	26	3.58	3 000	2.2	19	**2KJ4001 - ■ EL33 - ■ ■ J1**	
	432	24	3.31	3 000	2.4	19	**2KJ4001 - ■ EL33 - ■ ■ H1**	
	488	22	2.93	3 000	3.0	19	**2KJ4001 - ■ EL33 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**E.39-LEN90SN4P**							
	586	18	2.44	2 900	3.6	19	**2KJ4001 - ■ EL33 - ■ ■ F1**	
	624	17	2.29	2 800	3.9	19	**2KJ4001 - ■ EL33 - ■ ■ E1**	
	694	15	2.06	2 700	4.4	19	**2KJ4001 - ■ EL33 - ■ ■ D1**	
	817	13	1.75	2 600	5.1	19	**2KJ4001 - ■ EL33 - ■ ■ C1**	
	953	11	1.5	2 500	5.5	19	**2KJ4001 - ■ EL33 - ■ ■ B1**	
	1 109	9.5	1.29	2 400	5.7	19	**2KJ4001 - ■ EL33 - ■ ■ A1**	
	Z.39-LEN80ME2E							
	160	66	17.77	3 700	3.0	23	**2KJ4103 - ■ DM32 - ■ ■ N1**	**P00**
	192	55	14.79	3 600	3.5	23	**2KJ4103 - ■ DM32 - ■ ■ M1**	**P00**
	204	52	13.92	3 600	3.7	23	**2KJ4103 - ■ DM32 - ■ ■ L1**	**P00**
	227	46	12.47	3 500	3.9	23	**2KJ4103 - ■ DM32 - ■ ■ K1**	**P00**
	267	39	10.62	3 300	4.3	23	**2KJ4103 - ■ DM32 - ■ ■ J1**	**P00**
	312	34	9.1	3 200	4.7	23	**2KJ4103 - ■ DM32 - ■ ■ H1**	**P00**
	362	29	7.84	3 000	5.1	23	**2KJ4103 - ■ DM32 - ■ ■ G1**	**P00**
	Z.39-LEN90SH4E							
	42	245	33.97	2 200	0.81	31	**2KJ4103 - ■ EL32 - ■ ■ U1**	
	47	225	30.88	2 500	0.89	31	**2KJ4103 - ■ EL32 - ■ ■ T1**	
	53	199	27.3	2 800	1.0	31	**2KJ4103 - ■ EL32 - ■ ■ S1**	
	58	181	24.82	3 000	1.1	31	**2KJ4103 - ■ EL32 - ■ ■ R1**	
	66	159	21.74	3 200	1.3	31	**2KJ4103 - ■ EL32 - ■ ■ Q1**	
	72	146	20.07	3 300	1.4	31	**2KJ4103 - ■ EL32 - ■ ■ P1**	
	81	130	17.77	3 500	1.5	31	**2KJ4103 - ■ EL32 - ■ ■ N1**	
	97	108	14.79	3 600	1.8	31	**2KJ4103 - ■ EL32 - ■ ■ M1**	
	103	102	13.92	3 600	1.9	31	**2KJ4103 - ■ EL32 - ■ ■ L1**	
	115	91	12.47	3 700	2.0	31	**2KJ4103 - ■ EL32 - ■ ■ K1**	
	136	78	10.62	3 700	2.2	31	**2KJ4103 - ■ EL32 - ■ ■ J1**	
	158	66	9.1	3 700	2.4	31	**2KJ4103 - ■ EL32 - ■ ■ H1**	
	184	57	7.84	3 700	2.6	31	**2KJ4103 - ■ EL32 - ■ ■ G1**	
	223	47	6.46	3 300	3.1	31	**2KJ4103 - ■ EL32 - ■ ■ F1**	
	237	44	6.08	3 300	3.3	31	**2KJ4103 - ■ EL32 - ■ ■ E1**	
	264	40	5.45	3 300	3.5	31	**2KJ4103 - ■ EL32 - ■ ■ D1**	
	310	34	4.64	3 200	3.8	31	**2KJ4103 - ■ EL32 - ■ ■ C1**	
	362	29	3.98	3 000	4.2	31	**2KJ4103 - ■ EL32 - ■ ■ B1**	
	420	25	3.43	2 900	4.5	31	**2KJ4103 - ■ EL32 - ■ ■ A1**	
	Z.39-LEN90SN4P							
	42	250	33.97	2 100	0.8	18	**2KJ4103 - ■ EL33 - ■ ■ U1**	
	46	225	30.88	2 500	0.88	18	**2KJ4103 - ■ EL33 - ■ ■ T1**	
	52	200	27.3	2 800	1.0	18	**2KJ4103 - ■ EL33 - ■ ■ S1**	
	58	182	24.82	3 000	1.1	18	**2KJ4103 - ■ EL33 - ■ ■ R1**	
	66	160	21.74	3 200	1.3	18	**2KJ4103 - ■ EL33 - ■ ■ Q1**	
	71	147	20.07	3 300	1.4	18	**2KJ4103 - ■ EL33 - ■ ■ P1**	
	80	131	17.77	3 400	1.5	18	**2KJ4103 - ■ EL33 - ■ ■ N1**	
	97	109	14.79	3 600	1.8	18	**2KJ4103 - ■ EL33 - ■ ■ M1**	
	103	102	13.92	3 600	1.8	18	**2KJ4103 - ■ EL33 - ■ ■ L1**	
	115	92	12.47	3 700	2.0	18	**2KJ4103 - ■ EL33 - ■ ■ K1**	
	135	78	10.62	3 700	2.2	18	**2KJ4103 - ■ EL33 - ■ ■ J1**	
	157	67	9.1	3 700	2.4	18	**2KJ4103 - ■ EL33 - ■ ■ H1**	
	182	58	7.84	3 700	2.6	18	**2KJ4103 - ■ EL33 - ■ ■ G1**	
	221	48	6.46	3 300	3.1	18	**2KJ4103 - ■ EL33 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**Z.39-LEN90SN4P**							
	235	45	6.08	3 300	3.3	18	**2KJ4103 - ■ EL33 - ■ ■ E1**	
	262	40	5.45	3 300	3.5	18	**2KJ4103 - ■ EL33 - ■ ■ D1**	
	308	34	4.64	3 200	3.8	18	**2KJ4103 - ■ EL33 - ■ ■ C1**	
	359	29	3.98	3 100	4.1	18	**2KJ4103 - ■ EL33 - ■ ■ B1**	
	417	25	3.43	2 900	4.4	18	**2KJ4103 - ■ EL33 - ■ ■ A1**	
	E.49-LEN90SH4E							
	148	71	9.7	4 000	1.2	36	**2KJ4002 - ■ EL32 - ■ ■ S1**	
	163	64	8.82	4 000	1.7	36	**2KJ4002 - ■ EL32 - ■ ■ R1**	
	192	55	7.5	4 000	2.0	36	**2KJ4002 - ■ EL32 - ■ ■ Q1**	
	211	50	6.82	4 000	2.1	36	**2KJ4002 - ■ EL32 - ■ ■ P1**	
	237	44	6.08	4 000	2.3	36	**2KJ4002 - ■ EL32 - ■ ■ N1**	
	264	40	5.45	4 000	2.6	36	**2KJ4002 - ■ EL32 - ■ ■ M1**	
	293	36	4.92	4 000	2.8	36	**2KJ4002 - ■ EL32 - ■ ■ L1**	
	317	33	4.54	4 000	3.1	36	**2KJ4002 - ■ EL32 - ■ ■ K1**	
	348	30	4.14	4 000	3.4	36	**2KJ4002 - ■ EL32 - ■ ■ J1**	
	419	25	3.44	4 000	4.0	36	**2KJ4002 - ■ EL32 - ■ ■ H1**	
	444	24	3.24	4 000	4.3	36	**2KJ4002 - ■ EL32 - ■ ■ G1**	
	471	22	3.06	4 000	4.5	36	**2KJ4002 - ■ EL32 - ■ ■ F1**	
	554	19	2.6	3 900	5.4	36	**2KJ4002 - ■ EL32 - ■ ■ E1**	
	E.49-LEN90SN4P							
	147	71	9.7	4 000	1.2	23	**2KJ4002 - ■ EL33 - ■ ■ S1**	
	162	65	8.82	4 000	1.7	23	**2KJ4002 - ■ EL33 - ■ ■ R1**	
	191	55	7.5	4 000	1.9	23	**2KJ4002 - ■ EL33 - ■ ■ Q1**	
	210	50	6.82	4 000	2.1	23	**2KJ4002 - ■ EL33 - ■ ■ P1**	
	235	45	6.08	4 000	2.3	23	**2KJ4002 - ■ EL33 - ■ ■ N1**	
	262	40	5.45	4 000	2.6	23	**2KJ4002 - ■ EL33 - ■ ■ M1**	
	291	36	4.92	4 000	2.8	23	**2KJ4002 - ■ EL33 - ■ ■ L1**	
	315	33	4.54	4 000	3.1	23	**2KJ4002 - ■ EL33 - ■ ■ K1**	
	345	30	4.14	4 000	3.4	23	**2KJ4002 - ■ EL33 - ■ ■ J1**	
	416	25	3.44	4 000	4.0	23	**2KJ4002 - ■ EL33 - ■ ■ H1**	
	441	24	3.24	4 000	4.2	23	**2KJ4002 - ■ EL33 - ■ ■ G1**	
	467	22	3.06	4 000	4.5	23	**2KJ4002 - ■ EL33 - ■ ■ F1**	
	550	19	2.6	3 900	5.3	23	**2KJ4002 - ■ EL33 - ■ ■ E1**	
	Z.49-LEN90SH4E							
	28	380	52.14	5 600	0.84	40	**2KJ4104 - ■ EL32 - ■ ■ B2**	
	30	345	47.4	5 800	0.93	40	**2KJ4104 - ■ EL32 - ■ ■ A2**	
	36	290	40.31	5 900	1.1	40	**2KJ4104 - ■ EL32 - ■ ■ X1**	
	39	265	36.65	6 000	1.2	40	**2KJ4104 - ■ EL32 - ■ ■ W1**	
	44	235	32.7	5 800	1.3	40	**2KJ4104 - ■ EL32 - ■ ■ V1**	
	49	210	29.32	5 700	1.5	40	**2KJ4104 - ■ EL32 - ■ ■ U1**	
	54	193	26.43	5 500	1.7	40	**2KJ4104 - ■ EL32 - ■ ■ T1**	
	59	178	24.39	5 400	1.8	40	**2KJ4104 - ■ EL32 - ■ ■ S1**	
	65	162	22.27	5 300	2.0	40	**2KJ4104 - ■ EL32 - ■ ■ R1**	
	78	135	18.48	5 100	2.4	40	**2KJ4104 - ■ EL32 - ■ ■ Q1**	
	83	127	17.39	5 000	2.5	40	**2KJ4104 - ■ EL32 - ■ ■ P1**	
	88	120	16.42	4 900	2.7	40	**2KJ4104 - ■ EL32 - ■ ■ N1**	
	103	102	13.98	4 700	3.1	40	**2KJ4104 - ■ EL32 - ■ ■ M1**	
	120	87	11.97	4 500	3.7	40	**2KJ4104 - ■ EL32 - ■ ■ L1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**Z.49-LEN90SN4P**							
	27	380	52.14	5 600	0.84	27	**2KJ4104 - ■ EL33 - ■ ■ B2**	
	30	345	47.4	5 800	0.92	27	**2KJ4104 - ■ EL33 - ■ ■ A2**	
	35	295	40.31	5 900	1.1	27	**2KJ4104 - ■ EL33 - ■ ■ X1**	
	39	265	36.65	6 000	1.2	27	**2KJ4104 - ■ EL33 - ■ ■ W1**	
	44	240	32.7	5 800	1.3	27	**2KJ4104 - ■ EL33 - ■ ■ V1**	
	49	215	29.32	5 700	1.5	27	**2KJ4104 - ■ EL33 - ■ ■ U1**	
	54	194	26.43	5 600	1.6	27	**2KJ4104 - ■ EL33 - ■ ■ T1**	
	59	179	24.39	5 400	1.8	27	**2KJ4104 - ■ EL33 - ■ ■ S1**	
	64	164	22.27	5 300	2.0	27	**2KJ4104 - ■ EL33 - ■ ■ R1**	
	77	136	18.48	5 100	2.4	27	**2KJ4104 - ■ EL33 - ■ ■ Q1**	
	82	128	17.39	5 000	2.5	27	**2KJ4104 - ■ EL33 - ■ ■ P1**	
	87	121	16.42	4 900	2.7	27	**2KJ4104 - ■ EL33 - ■ ■ N1**	
	102	103	13.98	4 700	3.1	27	**2KJ4104 - ■ EL33 - ■ ■ M1**	
	119	88	11.97	4 500	3.6	27	**2KJ4104 - ■ EL33 - ■ ■ L1**	
	D.59-LEN90SH4E							
	19	555	76.38	6 200	0.81	43	**2KJ4205 - ■ EL32 - ■ ■ E1**	
	21	495	68.43	7 300	0.9	43	**2KJ4205 - ■ EL32 - ■ ■ D1**	
	D.59-LEN90SN4P							
	19	560	76.38	6 100	0.8	30	**2KJ4205 - ■ EL33 - ■ ■ E1**	
	21	500	68.43	7 200	0.9	30	**2KJ4205 - ■ EL33 - ■ ■ D1**	
	Z.59-LEN90SH4E							
	25	415	56.99	7 700	1.1	42	**2KJ4105 - ■ EL32 - ■ ■ A2**	
	28	375	51.81	7 700	1.2	42	**2KJ4105 - ■ EL32 - ■ ■ X1**	
	33	320	44.06	7 800	1.4	42	**2KJ4105 - ■ EL32 - ■ ■ W1**	
	36	290	40.06	7 600	1.5	42	**2KJ4105 - ■ EL32 - ■ ■ V1**	
	40	260	35.74	7 400	1.7	42	**2KJ4105 - ■ EL32 - ■ ■ U1**	
	45	230	32.05	7 300	1.9	42	**2KJ4105 - ■ EL32 - ■ ■ T1**	
	50	210	28.89	7 100	2.1	42	**2KJ4105 - ■ EL32 - ■ ■ S1**	
	54	194	26.66	6 900	2.3	42	**2KJ4105 - ■ EL32 - ■ ■ R1**	
	59	178	24.34	6 700	2.5	42	**2KJ4105 - ■ EL32 - ■ ■ Q1**	
	71	147	20.2	6 400	3.1	42	**2KJ4105 - ■ EL32 - ■ ■ P1**	
	76	139	19.01	6 300	3.2	42	**2KJ4105 - ■ EL32 - ■ ■ N1**	
	Z.59-LEN90SN4P							
	25	415	56.99	7 700	1.1	29	**2KJ4105 - ■ EL33 - ■ ■ A2**	
	28	380	51.81	7 700	1.2	29	**2KJ4105 - ■ EL33 - ■ ■ X1**	
	32	320	44.06	7 800	1.4	29	**2KJ4105 - ■ EL33 - ■ ■ W1**	
	36	290	40.06	7 700	1.5	29	**2KJ4105 - ■ EL33 - ■ ■ V1**	
	40	260	35.74	7 500	1.7	29	**2KJ4105 - ■ EL33 - ■ ■ U1**	
	45	235	32.05	7 200	1.9	29	**2KJ4105 - ■ EL33 - ■ ■ T1**	
	49	210	28.89	7 100	2.1	29	**2KJ4105 - ■ EL33 - ■ ■ S1**	
	54	196	26.66	6 900	2.3	29	**2KJ4105 - ■ EL33 - ■ ■ R1**	
	59	179	24.34	6 800	2.5	29	**2KJ4105 - ■ EL33 - ■ ■ Q1**	
	71	148	20.2	6 400	3.0	29	**2KJ4105 - ■ EL33 - ■ ■ P1**	
	75	140	19.01	6 300	3.2	29	**2KJ4105 - ■ EL33 - ■ ■ N1**	
	D.69-LEN90SH4E							
	17	630	86.82	10 900	0.95	47	**2KJ4206 - ■ EL32 - ■ ■ F1**	
	18	595	81.71	11 000	1.0	47	**2KJ4206 - ■ EL32 - ■ ■ E1**	
	20	530	73.22	11 100	1.1	47	**2KJ4206 - ■ EL32 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**D.69-LEN90SN4P**							
	16	635	86.82	10 900	0.94	34	**2KJ4206 - ■ EL33 - ■ ■ F1**	
	18	600	81.71	11 000	1.0	34	**2KJ4206 - ■ EL33 - ■ ■ E1**	
	20	535	73.22	11 100	1.1	34	**2KJ4206 - ■ EL33 - ■ ■ D1**	
	E.69-LEN90SH4E							
	155	68	9.3	6 100	1.8	43	**2KJ4003 - ■ EL32 - ■ ■ S1**	
	170	62	8.45	6 100	1.7	43	**2KJ4003 - ■ EL32 - ■ ■ R1**	
	190	55	7.58	6 100	3.7	43	**2KJ4003 - ■ EL32 - ■ ■ Q1**	
	211	50	6.82	6 100	3.4	43	**2KJ4003 - ■ EL32 - ■ ■ P1**	
	233	45	6.17	6 100	4.6	43	**2KJ4003 - ■ EL32 - ■ ■ N1**	
	253	42	5.69	6 100	4.0	43	**2KJ4003 - ■ EL32 - ■ ■ M1**	
	E.69-LEN90SN4P							
	154	68	9.3	6 100	1.8	30	**2KJ4003 - ■ EL33 - ■ ■ S1**	
	169	62	8.45	6 100	1.7	30	**2KJ4003 - ■ EL33 - ■ ■ R1**	
	189	56	7.58	6 100	3.7	30	**2KJ4003 - ■ EL33 - ■ ■ Q1**	
	210	50	6.82	6 100	3.4	30	**2KJ4003 - ■ EL33 - ■ ■ P1**	
	232	45	6.17	6 100	4.5	30	**2KJ4003 - ■ EL33 - ■ ■ N1**	
	251	42	5.69	6 100	3.9	30	**2KJ4003 - ■ EL33 - ■ ■ M1**	
	Z.69-LEN90SH4E							
	24	445	60.97	11 200	1.3	47	**2KJ4106 - ■ EL32 - ■ ■ A2**	
	26	400	55.43	11 300	1.5	47	**2KJ4106 - ■ EL32 - ■ ■ X1**	
	31	340	47.14	11 400	1.7	47	**2KJ4106 - ■ EL32 - ■ ■ W1**	
	34	310	42.86	11 400	1.9	47	**2KJ4106 - ■ EL32 - ■ ■ V1**	
	38	275	38.24	11 500	2.2	47	**2KJ4106 - ■ EL32 - ■ ■ U1**	
	42	250	34.29	11 500	2.4	47	**2KJ4106 - ■ EL32 - ■ ■ T1**	
	47	225	30.9	11 500	2.7	47	**2KJ4106 - ■ EL32 - ■ ■ S1**	
	Z.69-LEN90SN4P							
	23	445	60.97	11 200	1.3	34	**2KJ4106 - ■ EL33 - ■ ■ A2**	
	26	405	55.43	11 300	1.5	34	**2KJ4106 - ■ EL33 - ■ ■ X1**	
	30	345	47.14	11 400	1.7	34	**2KJ4106 - ■ EL33 - ■ ■ W1**	
	33	315	42.86	11 400	1.9	34	**2KJ4106 - ■ EL33 - ■ ■ V1**	
	37	280	38.24	11 500	2.1	34	**2KJ4106 - ■ EL33 - ■ ■ U1**	
	42	250	34.29	11 500	2.4	34	**2KJ4106 - ■ EL33 - ■ ■ T1**	
	46	225	30.9	11 500	2.6	34	**2KJ4106 - ■ EL33 - ■ ■ S1**	
	D.79-LEN90SH4E							
	10	1 020	141.04	11 200	0.82	59	**2KJ4207 - ■ EL32 - ■ ■ J1**	
	12	850	117.03	13 400	0.98	59	**2KJ4207 - ■ EL32 - ■ ■ H1**	
	13	800	110.14	13 400	1.0	59	**2KJ4207 - ■ EL32 - ■ ■ G1**	
	14	755	104.03	13 500	1.1	59	**2KJ4207 - ■ EL32 - ■ ■ F1**	
	16	645	88.52	13 600	1.3	59	**2KJ4207 - ■ EL32 - ■ ■ E1**	
	19	550	75.83	13 800	1.5	59	**2KJ4207 - ■ EL32 - ■ ■ D1**	
	22	485	66.67	13 800	1.7	59	**2KJ4207 - ■ EL32 - ■ ■ C1**	
	D.79-LEN90SN4P							
	10	1 030	141.04	11 000	0.81	46	**2KJ4207 - ■ EL33 - ■ ■ J1**	
	12	860	117.03	13 400	0.98	46	**2KJ4207 - ■ EL33 - ■ ■ H1**	
	13	805	110.14	13 400	1.0	46	**2KJ4207 - ■ EL33 - ■ ■ G1**	
	14	760	104.03	13 500	1.1	46	**2KJ4207 - ■ EL33 - ■ ■ F1**	
	16	650	88.52	13 600	1.3	46	**2KJ4207 - ■ EL33 - ■ ■ E1**	
	19	555	75.83	13 700	1.5	46	**2KJ4207 - ■ EL33 - ■ ■ D1**	
	21	490	66.67	13 800	1.7	46	**2KJ4207 - ■ EL33 - ■ ■ C1**	

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**Z.79-LEN90SH4E**							
	26	395	54.47	14 000	2.1	58	**2KJ4107 - ■ EL32 - ■ ■ A2**	
	29	360	49.52	14 000	2.3	58	**2KJ4107 - ■ EL32 - ■ ■ X1**	
	Z.79-LEN90SN4P							
	26	400	54.47	13 900	2.1	45	**2KJ4107 - ■ EL33 - ■ ■ A2**	
	29	360	49.52	14 000	2.3	45	**2KJ4107 - ■ EL33 - ■ ■ X1**	
	D.89-LEN90SH4E							
	5.1	2 060	283.28	18 100	0.81	82	**2KJ4208 - ■ EL32 - ■ ■ R1**	
	5.7	1 850	254.09	18 500	0.91	82	**2KJ4208 - ■ EL32 - ■ ■ Q1**	
	6.3	1 660	228.45	18 500	1.0	82	**2KJ4208 - ■ EL32 - ■ ■ P1**	
	7	1 500	206.62	18 500	1.1	82	**2KJ4208 - ■ EL32 - ■ ■ N1**	
	7.5	1 390	190.73	18 500	1.2	82	**2KJ4208 - ■ EL32 - ■ ■ M1**	
	8.2	1 270	174.71	18 500	1.3	82	**2KJ4208 - ■ EL32 - ■ ■ L1**	
	9.8	1 060	146.59	18 500	1.6	82	**2KJ4208 - ■ EL32 - ■ ■ K1**	
	10	1 000	137.97	18 500	1.7	82	**2KJ4208 - ■ EL32 - ■ ■ J1**	
	11	920	126.58	18 500	1.8	82	**2KJ4208 - ■ EL32 - ■ ■ H1**	
	13	805	110.57	18 500	2.1	82	**2KJ4208 - ■ EL32 - ■ ■ G1**	
	D.89-LEN90SN4P							
	5	2 080	283.28	18 000	0.81	69	**2KJ4208 - ■ EL33 - ■ ■ R1**	
	5.6	1 860	254.09	18 500	0.9	69	**2KJ4208 - ■ EL33 - ■ ■ Q1**	
	6.3	1 670	228.45	18 500	1.0	69	**2KJ4208 - ■ EL33 - ■ ■ P1**	
	6.9	1 510	206.62	18 500	1.1	69	**2KJ4208 - ■ EL33 - ■ ■ N1**	
	7.5	1 400	190.73	18 500	1.2	69	**2KJ4208 - ■ EL33 - ■ ■ M1**	
	8.2	1 280	174.71	18 500	1.3	69	**2KJ4208 - ■ EL33 - ■ ■ L1**	
	9.8	1 070	146.59	18 500	1.6	69	**2KJ4208 - ■ EL33 - ■ ■ K1**	
	10	1 010	137.97	18 500	1.7	69	**2KJ4208 - ■ EL33 - ■ ■ J1**	
	11	930	126.58	18 500	1.8	69	**2KJ4208 - ■ EL33 - ■ ■ H1**	
	13	810	110.57	18 500	2.1	69	**2KJ4208 - ■ EL33 - ■ ■ G1**	
	E.89-LEN90SH4E							
	149	70	9.67	8 000	4.0	59	**2KJ4004 - ■ EL32 - ■ ■ T1**	
	E.89-LEN90SN4P							
	148	71	9.67	8 000	3.9	46	**2KJ4004 - ■ EL33 - ■ ■ T1**	
	Z.19-LEN80ZMJ2P							
	152	69	18.92	1 500	1.4	13	**2KJ4101 - ■ DL33 - ■ ■ R1**	**P00**
	174	60	16.5	1 500	1.6	13	**2KJ4101 - ■ DL33 - ■ ■ Q1**	**P00**
	194	54	14.77	1 500	1.8	13	**2KJ4101 - ■ DL33 - ■ ■ P1**	**P00**
	219	48	13.12	1 400	1.9	13	**2KJ4101 - ■ DL33 - ■ ■ N1**	**P00**
	237	44	12.11	1 400	2.0	13	**2KJ4101 - ■ DL33 - ■ ■ M1**	**P00**
	273	38	10.52	1 400	2.2	13	**2KJ4101 - ■ DL33 - ■ ■ L1**	**P00**
	314	34	9.14	1 300	2.3	13	**2KJ4101 - ■ DL33 - ■ ■ K1**	**P00**
	348	30	8.25	1 300	2.5	13	**2KJ4101 - ■ DL33 - ■ ■ J1**	**P00**
	370	28	7.76	1 300	2.6	13	**2KJ4101 - ■ DL33 - ■ ■ H1**	**P00**
	424	25	6.77	1 200	2.7	13	**2KJ4101 - ■ DL33 - ■ ■ G1**	**P00**
	459	23	6.25	1 100	2.4	13	**2KJ4101 - ■ DL33 - ■ ■ F1**	**P00**
	529	20	5.43	1 100	2.7	13	**2KJ4101 - ■ DL33 - ■ ■ E1**	**P00**
	609	17	4.71	1 100	2.8	13	**2KJ4101 - ■ DL33 - ■ ■ D1**	**P00**
	674	16	4.26	1 000	3.0	13	**2KJ4101 - ■ DL33 - ■ ■ C1**	**P00**
	716	15	4.01	1 000	3.1	13	**2KJ4101 - ■ DL33 - ■ ■ B1**	**P00**
	822	13	3.49	1 000	3.4	13	**2KJ4101 - ■ DL33 - ■ ■ A1**	**P00**

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**Z.29-LEN80ZMJ2P**							
	162	65	17.67	2 600	2.2	14	**2KJ4102 - ■ DL33 - ■ ■ R1**	**P00**
	182	58	15.75	2 500	2.4	14	**2KJ4102 - ■ DL33 - ■ ■ Q1**	**P00**
	197	53	14.54	2 400	2.3	14	**2KJ4102 - ■ DL33 - ■ ■ P1**	**P00**
	225	47	12.73	2 400	3.0	14	**2KJ4102 - ■ DL33 - ■ ■ N1**	**P00**
	257	41	11.16	2 300	3.4	14	**2KJ4102 - ■ DL33 - ■ ■ M1**	**P00**
	284	37	10.12	2 200	3.8	14	**2KJ4102 - ■ DL33 - ■ ■ L1**	**P00**
	301	35	9.53	2 200	4.0	14	**2KJ4102 - ■ DL33 - ■ ■ K1**	**P00**
	342	31	8.4	2 100	4.5	14	**2KJ4102 - ■ DL33 - ■ ■ J1**	**P00**
	394	27	7.29	2 000	4.9	14	**2KJ4102 - ■ DL33 - ■ ■ H1**	**P00**
	415	25	6.92	2 000	3.0	14	**2KJ4102 - ■ DL33 - ■ ■ G1**	**P00**
	474	22	6.06	1 900	4.5	14	**2KJ4102 - ■ DL33 - ■ ■ F1**	**P00**
	540	19	5.31	1 800	4.7	14	**2KJ4102 - ■ DL33 - ■ ■ E1**	**P00**
	595	18	4.82	1 800	4.9	14	**2KJ4102 - ■ DL33 - ■ ■ D1**	**P00**
	632	17	4.54	1 700	5.1	14	**2KJ4102 - ■ DL33 - ■ ■ C1**	**P00**
	718	15	4	1 700	5.2	14	**2KJ4102 - ■ DL33 - ■ ■ B1**	**P00**
	827	13	3.47	1 600	5.5	14	**2KJ4102 - ■ DL33 - ■ ■ A1**	**P00**
	Z.39-LEN80ZMJ2P							
	162	65	17.77	3 700	3.1	16	**2KJ4103 - ■ DL33 - ■ ■ N1**	**P00**
	194	54	14.79	3 700	3.6	16	**2KJ4103 - ■ DL33 - ■ ■ M1**	**P00**
	206	51	13.92	3 600	3.7	16	**2KJ4103 - ■ DL33 - ■ ■ L1**	**P00**
	230	46	12.47	3 500	3.9	16	**2KJ4103 - ■ DL33 - ■ ■ K1**	**P00**
	270	39	10.62	3 300	4.3	16	**2KJ4103 - ■ DL33 - ■ ■ J1**	**P00**
	315	33	9.1	3 200	4.7	16	**2KJ4103 - ■ DL33 - ■ ■ H1**	**P00**
	366	29	7.84	3 000	5.2	16	**2KJ4103 - ■ DL33 - ■ ■ G1**	**P00**
	D.109-LEN90LN6E							
	2.7	3 870	348.88	20 000	0.8	125	**2KJ4210 - ■ EQ32 - ■ ■ T1**	**P01**
	3	3 500	314.98	20 200	0.89	125	**2KJ4210 - ■ EQ32 - ■ ■ S1**	**P01**
	3.3	3 170	285.72	20 200	0.98	125	**2KJ4210 - ■ EQ32 - ■ ■ R1**	**P01**
	3.6	2 930	263.74	20 200	1.1	125	**2KJ4210 - ■ EQ32 - ■ ■ Q1**	**P01**
	3.9	2 660	239.75	20 200	1.2	125	**2KJ4210 - ■ EQ32 - ■ ■ P1**	**P01**
	D.109-LEN90LT6P							
	2.7	3 870	348.88	20 000	0.8	114	**2KJ4210 - ■ EP33 - ■ ■ T1**	**P01**
	3	3 500	314.98	20 200	0.89	114	**2KJ4210 - ■ EP33 - ■ ■ S1**	**P01**
	3.3	3 170	285.72	20 200	0.98	114	**2KJ4210 - ■ EP33 - ■ ■ R1**	**P01**
	3.6	2 930	263.74	20 200	1.1	114	**2KJ4210 - ■ EP33 - ■ ■ Q1**	**P01**
	3.9	2 660	239.75	20 200	1.2	114	**2KJ4210 - ■ EP33 - ■ ■ P1**	**P01**
	D.109-LEN90SH4E							
	4.1	2 540	348.88	20 200	1.2	124	**2KJ4210 - ■ EL32 - ■ ■ T1**	
	4.6	2 290	314.98	20 200	1.3	124	**2KJ4210 - ■ EL32 - ■ ■ S1**	
	5	2 080	285.72	20 200	1.5	124	**2KJ4210 - ■ EL32 - ■ ■ R1**	
	5.5	1 920	263.74	20 200	1.6	124	**2KJ4210 - ■ EL32 - ■ ■ Q1**	
	6	1 740	239.75	20 200	1.8	124	**2KJ4210 - ■ EL32 - ■ ■ P1**	
	7.1	1 480	203.01	20 200	2.1	124	**2KJ4210 - ■ EL32 - ■ ■ N1**	
	D.109-LEN90SN4P							
	4.1	2 560	348.88	20 200	1.2	111	**2KJ4210 - ■ EL33 - ■ ■ T1**	
	4.5	2 310	314.98	20 200	1.3	111	**2KJ4210 - ■ EL33 - ■ ■ S1**	
	5	2 090	285.72	20 200	1.5	111	**2KJ4210 - ■ EL33 - ■ ■ R1**	
	5.4	1 930	263.74	20 200	1.6	111	**2KJ4210 - ■ EL33 - ■ ■ Q1**	
	6	1 760	239.75	20 200	1.8	111	**2KJ4210 - ■ EL33 - ■ ■ P1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**D.109-LEN90SN4P**							
	7	1 490	203.01	20 200	2.1	111	**2KJ4210 - ■ EL33 - ■ ■ N1**	
	D.129-LEN90LN6E							
	2.5	4 140	373	27 500	1.2	188	**2KJ4211 - ■ EQ32 - ■ ■ S1**	**P01**
	2.7	3 820	344.17	27 700	1.3	188	**2KJ4211 - ■ EQ32 - ■ ■ R1**	**P01**
	3	3 520	316.9	27 900	1.4	188	**2KJ4211 - ■ EQ32 - ■ ■ Q1**	**P01**
	3.5	3 000	270.24	28 200	1.7	188	**2KJ4211 - ■ EQ32 - ■ ■ P1**	**P01**
	D.129-LEN90LT6P							
	2.5	4 140	373	27 500	1.2	177	**2KJ4211 - ■ EP33 - ■ ■ S1**	**P01**
	2.7	3 820	344.17	27 700	1.3	177	**2KJ4211 - ■ EP33 - ■ ■ R1**	**P01**
	3	3 520	316.9	27 900	1.4	177	**2KJ4211 - ■ EP33 - ■ ■ Q1**	**P01**
	3.5	3 000	270.24	28 200	1.7	177	**2KJ4211 - ■ EP33 - ■ ■ P1**	**P01**
	D.129-LEN90SH4E							
	3.9	2 720	373	28 400	1.8	187	**2KJ4211 - ■ EL32 - ■ ■ S1**	
	4.2	2 510	344.17	28 500	2.0	187	**2KJ4211 - ■ EL32 - ■ ■ R1**	
	D.129-LEN90SN4P							
	3.8	2 740	373	28 300	1.8	174	**2KJ4211 - ■ EL33 - ■ ■ S1**	
	4.2	2 520	344.17	28 500	2.0	174	**2KJ4211 - ■ EL33 - ■ ■ R1**	
	D.109-Z39-LEN90SH4E							
	2.9	3 350	495	20 200	0.92	131	**2KJ4235 - ■ EL32 - ■ ■ C1**	
	3.4	2 870	424	20 200	1.1	131	**2KJ4235 - ■ EL32 - ■ ■ B1**	
	3.9	2 480	366	20 200	1.2	131	**2KJ4235 - ■ EL32 - ■ ■ A1**	
	D.109-Z39-LEN90SN4P							
	2.9	3 380	495	20 200	0.92	118	**2KJ4235 - ■ EL33 - ■ ■ C1**	
	3.4	2 890	424	20 200	1.1	118	**2KJ4235 - ■ EL33 - ■ ■ B1**	
	3.9	2 490	366	20 200	1.2	118	**2KJ4235 - ■ EL33 - ■ ■ A1**	
	D.129-Z49-LEN90SH4E							
	1.6	5 910	873	26 500	0.84	214	**2KJ4237 - ■ EL32 - ■ ■ G1**	
	1.6	6 000	885	26 400	0.83	214	**2KJ4237 - ■ EL32 - ■ ■ H1**	
	1.7	5 590	825	26 700	0.89	214	**2KJ4237 - ■ EL32 - ■ ■ F1**	
	2.1	4 760	702	27 200	1.1	214	**2KJ4237 - ■ EL32 - ■ ■ E1**	
	2.4	4 070	601	27 600	1.2	214	**2KJ4237 - ■ EL32 - ■ ■ D1**	
	2.7	3 580	529	27 900	1.4	214	**2KJ4237 - ■ EL32 - ■ ■ C1**	
	3.2	3 020	446	28 200	1.7	214	**2KJ4237 - ■ EL32 - ■ ■ B1**	
	3.7	2 630	389	28 400	1.9	214	**2KJ4237 - ■ EL32 - ■ ■ A1**	
	D.129-Z49-LEN90SN4P							
	1.6	5 960	873	26 400	0.84	201	**2KJ4237 - ■ EL33 - ■ ■ G1**	
	1.6	6 040	885	26 400	0.83	201	**2KJ4237 - ■ EL33 - ■ ■ H1**	
	1.7	5 630	825	26 600	0.89	201	**2KJ4237 - ■ EL33 - ■ ■ F1**	
	2	4 790	702	27 100	1.0	201	**2KJ4237 - ■ EL33 - ■ ■ E1**	
	2.4	4 100	601	27 500	1.2	201	**2KJ4237 - ■ EL33 - ■ ■ D1**	
	2.7	3 610	529	27 800	1.4	201	**2KJ4237 - ■ EL33 - ■ ■ C1**	
	3.2	3 040	446	28 200	1.6	201	**2KJ4237 - ■ EL33 - ■ ■ B1**	
	3.7	2 650	389	28 400	1.9	201	**2KJ4237 - ■ EL33 - ■ ■ A1**	
	D.149-Z49-LEN90SH4E							
	1.1	8 950	1 320	50 700	0.89	290	**2KJ4240 - ■ EL32 - ■ ■ L1**	
	1.2	7 870	1 161	51 200	1.0	290	**2KJ4240 - ■ EL32 - ■ ■ K1**	
	1.5	6 630	979	51 800	1.2	290	**2KJ4240 - ■ EL32 - ■ ■ J1**	
	1.7	5 700	842	52 300	1.4	290	**2KJ4240 - ■ EL32 - ■ ■ G1**	
	1.7	5 780	853	52 200	1.4	290	**2KJ4240 - ■ EL32 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**D.149-Z49-LEN90SH4E**							
	1.8	5 390	795	52 400	1.5	290	**2KJ4240 - ■ EL32 - ■ ■ F1**	
	2.1	4 590	677	52 800	1.7	290	**2KJ4240 - ■ EL32 - ■ ■ E1**	
	2.5	3 930	580	53 100	2.0	290	**2KJ4240 - ■ EL32 - ■ ■ D1**	
	D.149-Z49-LEN90SN4P							
	1.1	9 010	1 320	50 700	0.89	277	**2KJ4240 - ■ EL33 - ■ ■ L1**	
	1.2	7 920	1 161	51 200	1.0	277	**2KJ4240 - ■ EL33 - ■ ■ K1**	
	1.5	6 680	979	51 800	1.2	277	**2KJ4240 - ■ EL33 - ■ ■ J1**	
	1.7	5 740	842	52 200	1.4	277	**2KJ4240 - ■ EL33 - ■ ■ G1**	
	1.7	5 820	853	52 200	1.4	277	**2KJ4240 - ■ EL33 - ■ ■ H1**	
	1.8	5 420	795	52 400	1.5	277	**2KJ4240 - ■ EL33 - ■ ■ F1**	
	2.1	4 620	677	52 800	1.7	277	**2KJ4240 - ■ EL33 - ■ ■ E1**	
	2.5	3 960	580	53 100	2.0	277	**2KJ4240 - ■ EL33 - ■ ■ D1**	
	D.169-Z69-LEN90SH4E							
	0.56	17 500	2 594	68 800	0.8	479	**2KJ4242 - ■ EL32 - ■ ■ R1**	
	0.61	16 000	2 368	69 400	0.87	479	**2KJ4242 - ■ EL32 - ■ ■ Q1**	
	0.73	13 300	1 965	70 400	1.1	479	**2KJ4242 - ■ EL32 - ■ ■ P1**	
	0.78	12 500	1 849	70 700	1.1	479	**2KJ4242 - ■ EL32 - ■ ■ N1**	
	0.82	11 800	1 747	70 900	1.2	479	**2KJ4242 - ■ EL32 - ■ ■ M1**	
	0.97	10 000	1 486	71 600	1.4	479	**2KJ4242 - ■ EL32 - ■ ■ L1**	
	1.1	8 630	1 273	72 100	1.6	479	**2KJ4242 - ■ EL32 - ■ ■ K1**	
	1.3	7 580	1 119	72 500	1.8	479	**2KJ4242 - ■ EL32 - ■ ■ J1**	
	D.169-Z69-LEN90SN4P							
	0.6	16 100	2 368	69 300	0.87	466	**2KJ4242 - ■ EL33 - ■ ■ Q1**	
	0.73	13 400	1 965	70 400	1.0	466	**2KJ4242 - ■ EL33 - ■ ■ P1**	
	0.77	12 600	1 849	70 600	1.1	466	**2KJ4242 - ■ EL33 - ■ ■ N1**	
	0.82	11 900	1 747	70 900	1.2	466	**2KJ4242 - ■ EL33 - ■ ■ M1**	
	0.96	10 100	1 486	71 600	1.4	466	**2KJ4242 - ■ EL33 - ■ ■ L1**	
	1.1	8 690	1 273	72 100	1.6	466	**2KJ4242 - ■ EL33 - ■ ■ K1**	
	1.3	7 640	1 119	72 500	1.8	466	**2KJ4242 - ■ EL33 - ■ ■ J1**	
	D.189-Z69-LEN90SH4E							
	0.44	22 100	3 265	107 000	0.86	693	**2KJ4244 - ■ EL32 - ■ ■ T1**	
	0.49	19 900	2 943	107 000	0.95	693	**2KJ4244 - ■ EL32 - ■ ■ S1**	
	0.53	18 400	2 717	107 000	1.0	693	**2KJ4244 - ■ EL32 - ■ ■ R1**	
	0.58	16 800	2 480	107 000	1.1	693	**2KJ4244 - ■ EL32 - ■ ■ Q1**	
	0.7	13 900	2 058	107 000	1.4	693	**2KJ4244 - ■ EL32 - ■ ■ P1**	
	0.74	13 100	1 937	107 000	1.4	693	**2KJ4244 - ■ EL32 - ■ ■ N1**	
	0.79	12 400	1 829	107 000	1.5	693	**2KJ4244 - ■ EL32 - ■ ■ M1**	
	0.93	10 500	1 556	107 000	1.8	693	**2KJ4244 - ■ EL32 - ■ ■ L1**	
	D.189-Z69-LEN90SN4P							
	0.44	22 200	3 265	107 000	0.85	680	**2KJ4244 - ■ EL33 - ■ ■ T1**	
	0.49	20 000	2 943	107 000	0.95	680	**2KJ4244 - ■ EL33 - ■ ■ S1**	
	0.53	18 500	2 717	107 000	1.0	680	**2KJ4244 - ■ EL33 - ■ ■ R1**	
	0.58	16 900	2 480	107 000	1.1	680	**2KJ4244 - ■ EL33 - ■ ■ Q1**	
	0.69	14 000	2 058	107 000	1.4	680	**2KJ4244 - ■ EL33 - ■ ■ P1**	
	0.74	13 200	1 937	107 000	1.4	680	**2KJ4244 - ■ EL33 - ■ ■ N1**	
	0.78	12 400	1 829	107 000	1.5	680	**2KJ4244 - ■ EL33 - ■ ■ M1**	
	0.92	10 600	1 556	107 000	1.8	680	**2KJ4244 - ■ EL33 - ■ ■ L1**	
1.5	**Z.29-LEN90LJ4E**							
	81	176	17.67	1 100	0.8	31	**2KJ4102 - ■ EN32 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**Z.29-LEN90LJ4E**							
	91	157	15.75	1 400	0.89	31	**2KJ4102 - ■ EN32 - ■ ■ Q1**	
	99	145	14.54	1 600	0.83	31	**2KJ4102 - ■ EN32 - ■ ■ P1**	
	113	127	12.73	1 800	1.1	31	**2KJ4102 - ■ EN32 - ■ ■ N1**	
	129	111	11.16	2 000	1.3	31	**2KJ4102 - ■ EN32 - ■ ■ M1**	
	142	101	10.12	2 100	1.4	31	**2KJ4102 - ■ EN32 - ■ ■ L1**	
	151	95	9.53	2 200	1.5	31	**2KJ4102 - ■ EN32 - ■ ■ K1**	
	171	84	8.4	2 300	1.7	31	**2KJ4102 - ■ EN32 - ■ ■ J1**	
	198	72	7.29	2 300	1.8	31	**2KJ4102 - ■ EN32 - ■ ■ H1**	
	208	69	6.92	2 100	1.1	31	**2KJ4102 - ■ EN32 - ■ ■ G1**	
	238	60	6.06	2 200	1.7	31	**2KJ4102 - ■ EN32 - ■ ■ F1**	
	271	53	5.31	2 100	1.7	31	**2KJ4102 - ■ EN32 - ■ ■ E1**	
	299	48	4.82	2 000	1.8	31	**2KJ4102 - ■ EN32 - ■ ■ D1**	
	317	45	4.54	2 000	1.9	31	**2KJ4102 - ■ EN32 - ■ ■ C1**	
	360	40	4	2 000	1.9	31	**2KJ4102 - ■ EN32 - ■ ■ B1**	
	415	34	3.47	1 900	2.0	31	**2KJ4102 - ■ EN32 - ■ ■ A1**	
	Z.29-LEN90LR4P							
	81	176	17.67	1 100	0.8	20	**2KJ4102 - ■ EN33 - ■ ■ R1**	
	91	157	15.75	1 400	0.89	20	**2KJ4102 - ■ EN33 - ■ ■ Q1**	
	99	145	14.54	1 600	0.83	20	**2KJ4102 - ■ EN33 - ■ ■ P1**	
	113	127	12.73	1 800	1.1	20	**2KJ4102 - ■ EN33 - ■ ■ N1**	
	129	111	11.16	2 000	1.3	20	**2KJ4102 - ■ EN33 - ■ ■ M1**	
	142	101	10.12	2 100	1.4	20	**2KJ4102 - ■ EN33 - ■ ■ L1**	
	151	95	9.53	2 200	1.5	20	**2KJ4102 - ■ EN33 - ■ ■ K1**	
	171	84	8.4	2 300	1.7	20	**2KJ4102 - ■ EN33 - ■ ■ J1**	
	198	72	7.29	2 300	1.8	20	**2KJ4102 - ■ EN33 - ■ ■ H1**	
	208	69	6.92	2 100	1.1	20	**2KJ4102 - ■ EN33 - ■ ■ G1**	
	238	60	6.06	2 200	1.7	20	**2KJ4102 - ■ EN33 - ■ ■ F1**	
	271	53	5.31	2 100	1.7	20	**2KJ4102 - ■ EN33 - ■ ■ E1**	
	299	48	4.82	2 000	1.8	20	**2KJ4102 - ■ EN33 - ■ ■ D1**	
	317	45	4.54	2 000	1.9	20	**2KJ4102 - ■ EN33 - ■ ■ C1**	
	360	40	4	2 000	1.9	20	**2KJ4102 - ■ EN33 - ■ ■ B1**	
	415	34	3.47	1 900	2.0	20	**2KJ4102 - ■ EN33 - ■ ■ A1**	
	Z.29-LEN90SF2E							
	164	88	17.67	2 200	1.6	30	**2KJ4102 - ■ EK32 - ■ ■ R1**	**P00**
	183	78	15.75	2 300	1.8	30	**2KJ4102 - ■ EK32 - ■ ■ Q1**	**P00**
	199	72	14.54	2 300	1.7	30	**2KJ4102 - ■ EK32 - ■ ■ P1**	**P00**
	227	63	12.73	2 300	2.2	30	**2KJ4102 - ■ EK32 - ■ ■ N1**	**P00**
	259	55	11.16	2 200	2.5	30	**2KJ4102 - ■ EK32 - ■ ■ M1**	**P00**
	286	50	10.12	2 100	2.8	30	**2KJ4102 - ■ EK32 - ■ ■ L1**	**P00**
	303	47	9.53	2 100	3.0	30	**2KJ4102 - ■ EK32 - ■ ■ K1**	**P00**
	344	42	8.4	2 000	3.3	30	**2KJ4102 - ■ EK32 - ■ ■ J1**	**P00**
	396	36	7.29	2 000	3.6	30	**2KJ4102 - ■ EK32 - ■ ■ H1**	**P00**
	418	34	6.92	1 900	2.2	30	**2KJ4102 - ■ EK32 - ■ ■ G1**	**P00**
	477	30	6.06	1 800	3.3	30	**2KJ4102 - ■ EK32 - ■ ■ F1**	**P00**
	544	26	5.31	1 800	3.5	30	**2KJ4102 - ■ EK32 - ■ ■ E1**	**P00**
	600	24	4.82	1 700	3.6	30	**2KJ4102 - ■ EK32 - ■ ■ D1**	**P00**
	637	22	4.54	1 700	3.7	30	**2KJ4102 - ■ EK32 - ■ ■ C1**	**P00**
	722	20	4	1 600	3.8	30	**2KJ4102 - ■ EK32 - ■ ■ B1**	**P00**
	833	17	3.47	1 600	4.1	30	**2KJ4102 - ■ EK32 - ■ ■ A1**	**P00**

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**Z.29-LEN90SM2P**							
	164	87	17.67	2 200	1.6	17	**2KJ4102 - ■ EK33 - ■ ■ R1**	**P00**
	184	78	15.75	2 300	1.8	17	**2KJ4102 - ■ EK33 - ■ ■ Q1**	**P00**
	199	72	14.54	2 300	1.7	17	**2KJ4102 - ■ EK33 - ■ ■ P1**	**P00**
	228	63	12.73	2 300	2.2	17	**2KJ4102 - ■ EK33 - ■ ■ N1**	**P00**
	260	55	11.16	2 200	2.5	17	**2KJ4102 - ■ EK33 - ■ ■ M1**	**P00**
	287	50	10.12	2 100	2.8	17	**2KJ4102 - ■ EK33 - ■ ■ L1**	**P00**
	304	47	9.53	2 100	3.0	17	**2KJ4102 - ■ EK33 - ■ ■ K1**	**P00**
	345	42	8.4	2 000	3.3	17	**2KJ4102 - ■ EK33 - ■ ■ J1**	**P00**
	398	36	7.29	2 000	3.6	17	**2KJ4102 - ■ EK33 - ■ ■ H1**	**P00**
	419	34	6.92	1 900	2.2	17	**2KJ4102 - ■ EK33 - ■ ■ G1**	**P00**
	479	30	6.06	1 800	3.3	17	**2KJ4102 - ■ EK33 - ■ ■ F1**	**P00**
	546	26	5.31	1 800	3.5	17	**2KJ4102 - ■ EK33 - ■ ■ E1**	**P00**
	602	24	4.82	1 700	3.6	17	**2KJ4102 - ■ EK33 - ■ ■ D1**	**P00**
	639	22	4.54	1 700	3.7	17	**2KJ4102 - ■ EK33 - ■ ■ C1**	**P00**
	725	20	4	1 600	3.8	17	**2KJ4102 - ■ EK33 - ■ ■ B1**	**P00**
	836	17	3.47	1 600	4.1	17	**2KJ4102 - ■ EK33 - ■ ■ A1**	**P00**
	E.39-LEN90LJ4E							
	320	45	4.5	3 000	1.1	33	**2KJ4001 - ■ EN32 - ■ ■ L1**	
	352	41	4.09	3 000	1.2	33	**2KJ4001 - ■ EN32 - ■ ■ K1**	
	402	36	3.58	3 000	1.6	33	**2KJ4001 - ■ EN32 - ■ ■ J1**	
	435	33	3.31	3 000	1.8	33	**2KJ4001 - ■ EN32 - ■ ■ H1**	
	491	29	2.93	3 000	2.2	33	**2KJ4001 - ■ EN32 - ■ ■ G1**	
	590	24	2.44	2 800	2.7	33	**2KJ4001 - ■ EN32 - ■ ■ F1**	
	629	23	2.29	2 800	2.9	33	**2KJ4001 - ■ EN32 - ■ ■ E1**	
	699	20	2.06	2 700	3.2	33	**2KJ4001 - ■ EN32 - ■ ■ D1**	
	823	17	1.75	2 600	3.8	33	**2KJ4001 - ■ EN32 - ■ ■ C1**	
	960	15	1.5	2 400	4.1	33	**2KJ4001 - ■ EN32 - ■ ■ B1**	
	1 116	13	1.29	2 300	4.2	33	**2KJ4001 - ■ EN32 - ■ ■ A1**	
	E.39-LEN90LR4P							
	320	45	4.5	3 000	1.1	22	**2KJ4001 - ■ EN33 - ■ ■ L1**	
	352	41	4.09	3 000	1.2	22	**2KJ4001 - ■ EN33 - ■ ■ K1**	
	402	36	3.58	3 000	1.6	22	**2KJ4001 - ■ EN33 - ■ ■ J1**	
	435	33	3.31	3 000	1.8	22	**2KJ4001 - ■ EN33 - ■ ■ H1**	
	491	29	2.93	3 000	2.2	22	**2KJ4001 - ■ EN33 - ■ ■ G1**	
	590	24	2.44	2 800	2.7	22	**2KJ4001 - ■ EN33 - ■ ■ F1**	
	629	23	2.29	2 800	2.9	22	**2KJ4001 - ■ EN33 - ■ ■ E1**	
	699	20	2.06	2 700	3.2	22	**2KJ4001 - ■ EN33 - ■ ■ D1**	
	823	17	1.75	2 600	3.8	22	**2KJ4001 - ■ EN33 - ■ ■ C1**	
	960	15	1.5	2 400	4.1	22	**2KJ4001 - ■ EN33 - ■ ■ B1**	
	1 116	13	1.29	2 300	4.2	22	**2KJ4001 - ■ EN33 - ■ ■ A1**	
	Z.39-LEN90LJ4E							
	58	245	24.82	1 400	0.81	32	**2KJ4103 - ■ EN32 - ■ ■ R1**	
	66	215	21.74	1 800	0.92	32	**2KJ4103 - ■ EN32 - ■ ■ Q1**	
	72	200	20.07	2 000	1.0	32	**2KJ4103 - ■ EN32 - ■ ■ P1**	
	81	177	17.77	2 300	1.1	32	**2KJ4103 - ■ EN32 - ■ ■ N1**	
	97	147	14.79	2 600	1.3	32	**2KJ4103 - ■ EN32 - ■ ■ M1**	
	103	138	13.92	2 700	1.4	32	**2KJ4103 - ■ EN32 - ■ ■ L1**	
	115	124	12.47	2 900	1.5	32	**2KJ4103 - ■ EN32 - ■ ■ K1**	
	136	106	10.62	3 000	1.6	32	**2KJ4103 - ■ EN32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**Z.39-LEN90LJ4E**							
	158	90	9.1	3 100	1.7	32	**2KJ4103 - ■ EN32 - ■ ■ H1**	
	184	78	7.84	3 100	1.9	32	**2KJ4103 - ■ EN32 - ■ ■ G1**	
	223	64	6.46	2 800	2.3	32	**2KJ4103 - ■ EN32 - ■ ■ F1**	
	237	60	6.08	2 800	2.4	32	**2KJ4103 - ■ EN32 - ■ ■ E1**	
	264	54	5.45	2 800	2.6	32	**2KJ4103 - ■ EN32 - ■ ■ D1**	
	310	46	4.64	2 800	2.8	32	**2KJ4103 - ■ EN32 - ■ ■ C1**	
	362	40	3.98	2 800	3.1	32	**2KJ4103 - ■ EN32 - ■ ■ B1**	
	420	34	3.43	2 800	3.3	32	**2KJ4103 - ■ EN32 - ■ ■ A1**	
	Z.39-LEN90LR4P							
	58	245	24.82	1 400	0.81	21	**2KJ4103 - ■ EN33 - ■ ■ R1**	
	66	215	21.74	1 800	0.92	21	**2KJ4103 - ■ EN33 - ■ ■ Q1**	
	72	200	20.07	2 000	1.0	21	**2KJ4103 - ■ EN33 - ■ ■ P1**	
	81	177	17.77	2 300	1.1	21	**2KJ4103 - ■ EN33 - ■ ■ N1**	
	97	147	14.79	2 600	1.3	21	**2KJ4103 - ■ EN33 - ■ ■ M1**	
	103	138	13.92	2 700	1.4	21	**2KJ4103 - ■ EN33 - ■ ■ L1**	
	115	124	12.47	2 900	1.5	21	**2KJ4103 - ■ EN33 - ■ ■ K1**	
	136	106	10.62	3 000	1.6	21	**2KJ4103 - ■ EN33 - ■ ■ J1**	
	158	90	9.1	3 100	1.7	21	**2KJ4103 - ■ EN33 - ■ ■ H1**	
	184	78	7.84	3 100	1.9	21	**2KJ4103 - ■ EN33 - ■ ■ G1**	
	223	64	6.46	2 800	2.3	21	**2KJ4103 - ■ EN33 - ■ ■ F1**	
	237	60	6.08	2 800	2.4	21	**2KJ4103 - ■ EN33 - ■ ■ E1**	
	264	54	5.45	2 800	2.6	21	**2KJ4103 - ■ EN33 - ■ ■ D1**	
	310	46	4.64	2 800	2.8	21	**2KJ4103 - ■ EN33 - ■ ■ C1**	
	362	40	3.98	2 800	3.1	21	**2KJ4103 - ■ EN33 - ■ ■ B1**	
	420	34	3.43	2 800	3.3	21	**2KJ4103 - ■ EN33 - ■ ■ A1**	
	Z.39-LEN90SF2E							
	163	88	17.77	3 100	2.3	32	**2KJ4103 - ■ EK32 - ■ ■ N1**	**P00**
	195	73	14.79	3 200	2.6	32	**2KJ4103 - ■ EK32 - ■ ■ M1**	**P00**
	208	69	13.92	3 200	2.7	32	**2KJ4103 - ■ EK32 - ■ ■ L1**	**P00**
	232	62	12.47	3 200	2.9	32	**2KJ4103 - ■ EK32 - ■ ■ K1**	**P00**
	272	53	10.62	3 100	3.2	32	**2KJ4103 - ■ EK32 - ■ ■ J1**	**P00**
	318	45	9.1	3 100	3.5	32	**2KJ4103 - ■ EK32 - ■ ■ H1**	**P00**
	369	39	7.84	3 000	3.8	32	**2KJ4103 - ■ EK32 - ■ ■ G1**	**P00**
	447	32	6.46	2 800	4.6	32	**2KJ4103 - ■ EK32 - ■ ■ F1**	**P00**
	475	30	6.08	2 800	4.9	32	**2KJ4103 - ■ EK32 - ■ ■ E1**	**P00**
	530	27	5.45	2 700	5.2	32	**2KJ4103 - ■ EK32 - ■ ■ D1**	**P00**
	623	23	4.64	2 500	5.7	32	**2KJ4103 - ■ EK32 - ■ ■ C1**	**P00**
	726	20	3.98	2 400	6.1	32	**2KJ4103 - ■ EK32 - ■ ■ B1**	**P00**
	Z.39-LEN90SM2P							
	163	88	17.77	3 100	2.3	18	**2KJ4103 - ■ EK33 - ■ ■ N1**	**P00**
	196	73	14.79	3 200	2.6	18	**2KJ4103 - ■ EK33 - ■ ■ M1**	**P00**
	208	69	13.92	3 200	2.7	18	**2KJ4103 - ■ EK33 - ■ ■ L1**	**P00**
	233	62	12.47	3 200	2.9	18	**2KJ4103 - ■ EK33 - ■ ■ K1**	**P00**
	273	52	10.62	3 200	3.2	18	**2KJ4103 - ■ EK33 - ■ ■ J1**	**P00**
	319	45	9.1	3 100	3.5	18	**2KJ4103 - ■ EK33 - ■ ■ H1**	**P00**
	370	39	7.84	3 000	3.8	18	**2KJ4103 - ■ EK33 - ■ ■ G1**	**P00**
	449	32	6.46	2 800	4.6	18	**2KJ4103 - ■ EK33 - ■ ■ F1**	**P00**
	477	30	6.08	2 800	4.9	18	**2KJ4103 - ■ EK33 - ■ ■ E1**	**P00**
	532	27	5.45	2 700	5.2	18	**2KJ4103 - ■ EK33 - ■ ■ D1**	**P00**

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**Z.39-LEN90SM2P**							
	625	23	4.64	2 500	5.7	18	**2KJ4103 - ■ EK33 - ■ ■ C1**	**P00**
	729	20	3.98	2 400	6.2	18	**2KJ4103 - ■ EK33 - ■ ■ B1**	**P00**
	E.49-LEN90LJ4E							
	148	96	9.7	4 000	0.89	37	**2KJ4002 - ■ EN32 - ■ ■ S1**	
	163	88	8.82	4 000	1.2	37	**2KJ4002 - ■ EN32 - ■ ■ R1**	
	192	75	7.5	4 000	1.4	37	**2KJ4002 - ■ EN32 - ■ ■ Q1**	
	211	68	6.82	4 000	1.5	37	**2KJ4002 - ■ EN32 - ■ ■ P1**	
	237	60	6.08	4 000	1.7	37	**2KJ4002 - ■ EN32 - ■ ■ N1**	
	264	54	5.45	4 000	1.9	37	**2KJ4002 - ■ EN32 - ■ ■ M1**	
	293	49	4.92	4 000	2.1	37	**2KJ4002 - ■ EN32 - ■ ■ L1**	
	317	45	4.54	4 000	2.3	37	**2KJ4002 - ■ EN32 - ■ ■ K1**	
	348	41	4.14	4 000	2.5	37	**2KJ4002 - ■ EN32 - ■ ■ J1**	
	419	34	3.44	4 000	3.0	37	**2KJ4002 - ■ EN32 - ■ ■ H1**	
	444	32	3.24	4 000	3.1	37	**2KJ4002 - ■ EN32 - ■ ■ G1**	
	471	30	3.06	4 000	3.3	37	**2KJ4002 - ■ EN32 - ■ ■ F1**	
	554	26	2.6	3 800	3.9	37	**2KJ4002 - ■ EN32 - ■ ■ E1**	
	646	22	2.23	3 600	4.6	37	**2KJ4002 - ■ EN32 - ■ ■ D1**	
	735	20	1.96	3 500	5.3	37	**2KJ4002 - ■ EN32 - ■ ■ C1**	
	873	16	1.65	3 300	6.3	37	**2KJ4002 - ■ EN32 - ■ ■ B1**	
	E.49-LEN90LR4P							
	148	96	9.7	4 000	0.89	26	**2KJ4002 - ■ EN33 - ■ ■ S1**	
	163	88	8.82	4 000	1.2	26	**2KJ4002 - ■ EN33 - ■ ■ R1**	
	192	75	7.5	4 000	1.4	26	**2KJ4002 - ■ EN33 - ■ ■ Q1**	
	211	68	6.82	4 000	1.5	26	**2KJ4002 - ■ EN33 - ■ ■ P1**	
	237	60	6.08	4 000	1.7	26	**2KJ4002 - ■ EN33 - ■ ■ N1**	
	264	54	5.45	4 000	1.9	26	**2KJ4002 - ■ EN33 - ■ ■ M1**	
	293	49	4.92	4 000	2.1	26	**2KJ4002 - ■ EN33 - ■ ■ L1**	
	317	45	4.54	4 000	2.3	26	**2KJ4002 - ■ EN33 - ■ ■ K1**	
	348	41	4.14	4 000	2.5	26	**2KJ4002 - ■ EN33 - ■ ■ J1**	
	419	34	3.44	4 000	3.0	26	**2KJ4002 - ■ EN33 - ■ ■ H1**	
	444	32	3.24	4 000	3.1	26	**2KJ4002 - ■ EN33 - ■ ■ G1**	
	471	30	3.06	4 000	3.3	26	**2KJ4002 - ■ EN33 - ■ ■ F1**	
	554	26	2.6	3 800	3.9	26	**2KJ4002 - ■ EN33 - ■ ■ E1**	
	646	22	2.23	3 600	4.6	26	**2KJ4002 - ■ EN33 - ■ ■ D1**	
	735	20	1.96	3 500	5.3	26	**2KJ4002 - ■ EN33 - ■ ■ C1**	
	873	16	1.65	3 300	6.3	26	**2KJ4002 - ■ EN33 - ■ ■ B1**	
	Z.49-LEN90LJ4E							
	36	400	40.31	5 300	0.8	41	**2KJ4104 - ■ EN32 - ■ ■ X1**	
	39	365	36.65	5 600	0.88	41	**2KJ4104 - ■ EN32 - ■ ■ W1**	
	44	325	32.7	5 500	0.98	41	**2KJ4104 - ■ EN32 - ■ ■ V1**	
	49	290	29.32	5 000	1.1	41	**2KJ4104 - ■ EN32 - ■ ■ U1**	
	54	260	26.43	5 300	1.2	41	**2KJ4104 - ■ EN32 - ■ ■ T1**	
	59	240	24.39	5 200	1.3	41	**2KJ4104 - ■ EN32 - ■ ■ S1**	
	65	220	22.27	5 100	1.4	41	**2KJ4104 - ■ EN32 - ■ ■ R1**	
	78	184	18.48	4 900	1.7	41	**2KJ4104 - ■ EN32 - ■ ■ Q1**	
	83	173	17.39	4 800	1.8	41	**2KJ4104 - ■ EN32 - ■ ■ P1**	
	88	163	16.42	4 700	2.0	41	**2KJ4104 - ■ EN32 - ■ ■ N1**	
	103	139	13.98	4 500	2.3	41	**2KJ4104 - ■ EN32 - ■ ■ M1**	
	120	119	11.97	4 400	2.7	41	**2KJ4104 - ■ EN32 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**Z.49-LEN90LJ4E**							
	137	105	10.53	4 200	3.1	41	**2KJ4104 - ■ EN32 - ■ ■ K1**	
	162	88	8.88	4 000	3.6	41	**2KJ4104 - ■ EN32 - ■ ■ J1**	
	186	77	7.74	3 900	4.2	41	**2KJ4104 - ■ EN32 - ■ ■ H1**	
	188	76	7.64	3 800	3.9	41	**2KJ4104 - ■ EN32 - ■ ■ G1**	
	200	72	7.21	3 800	4.0	41	**2KJ4104 - ■ EN32 - ■ ■ F1**	
	235	61	6.14	3 600	4.3	41	**2KJ4104 - ■ EN32 - ■ ■ E1**	
	274	52	5.26	3 400	4.7	41	**2KJ4104 - ■ EN32 - ■ ■ D1**	
	312	46	4.62	3 300	4.9	41	**2KJ4104 - ■ EN32 - ■ ■ C1**	
	369	39	3.9	3 100	5.3	41	**2KJ4104 - ■ EN32 - ■ ■ B1**	
	Z.49-LEN90LR4P							
	36	400	40.31	5 300	0.8	30	**2KJ4104 - ■ EN33 - ■ ■ X1**	
	39	365	36.65	5 600	0.88	30	**2KJ4104 - ■ EN33 - ■ ■ W1**	
	44	325	32.7	5 500	0.98	30	**2KJ4104 - ■ EN33 - ■ ■ V1**	
	49	290	29.32	5 000	1.1	30	**2KJ4104 - ■ EN33 - ■ ■ U1**	
	54	260	26.43	5 300	1.2	30	**2KJ4104 - ■ EN33 - ■ ■ T1**	
	59	240	24.39	5 200	1.3	30	**2KJ4104 - ■ EN33 - ■ ■ S1**	
	65	220	22.27	5 100	1.4	30	**2KJ4104 - ■ EN33 - ■ ■ R1**	
	78	184	18.48	4 900	1.7	30	**2KJ4104 - ■ EN33 - ■ ■ Q1**	
	83	173	17.39	4 800	1.8	30	**2KJ4104 - ■ EN33 - ■ ■ P1**	
	88	163	16.42	4 700	2.0	30	**2KJ4104 - ■ EN33 - ■ ■ N1**	
	103	139	13.98	4 500	2.3	30	**2KJ4104 - ■ EN33 - ■ ■ M1**	
	120	119	11.97	4 400	2.7	30	**2KJ4104 - ■ EN33 - ■ ■ L1**	
	137	105	10.53	4 200	3.1	30	**2KJ4104 - ■ EN33 - ■ ■ K1**	
	162	88	8.88	4 000	3.6	30	**2KJ4104 - ■ EN33 - ■ ■ J1**	
	186	77	7.74	3 900	4.2	30	**2KJ4104 - ■ EN33 - ■ ■ H1**	
	188	76	7.64	3 800	3.9	30	**2KJ4104 - ■ EN33 - ■ ■ G1**	
	200	72	7.21	3 800	4.0	30	**2KJ4104 - ■ EN33 - ■ ■ F1**	
	235	61	6.14	3 600	4.3	30	**2KJ4104 - ■ EN33 - ■ ■ E1**	
	274	52	5.26	3 400	4.7	30	**2KJ4104 - ■ EN33 - ■ ■ D1**	
	312	46	4.62	3 300	4.9	30	**2KJ4104 - ■ EN33 - ■ ■ C1**	
	369	39	3.9	3 100	5.3	30	**2KJ4104 - ■ EN33 - ■ ■ B1**	
	Z.49-LEN90SF2E							
	156	92	18.48	4 100	3.5	41	**2KJ4104 - ■ EK32 - ■ ■ Q1**	**P00**
	166	86	17.39	4 000	3.7	41	**2KJ4104 - ■ EK32 - ■ ■ P1**	**P00**
	176	81	16.42	3 900	3.9	41	**2KJ4104 - ■ EK32 - ■ ■ N1**	**P00**
	Z.49-LEN90SM2P							
	157	91	18.48	4 100	3.5	27	**2KJ4104 - ■ EK33 - ■ ■ Q1**	**P00**
	167	86	17.39	4 000	3.7	27	**2KJ4104 - ■ EK33 - ■ ■ P1**	**P00**
	177	81	16.42	3 900	3.9	27	**2KJ4104 - ■ EK33 - ■ ■ N1**	**P00**
	Z.59-LEN90LJ4E							
	28	515	51.81	7 500	0.87	43	**2KJ4105 - ■ EN32 - ■ ■ X1**	
	33	435	44.06	7 400	1.0	43	**2KJ4105 - ■ EN32 - ■ ■ W1**	
	36	395	40.06	7 200	1.1	43	**2KJ4105 - ■ EN32 - ■ ■ V1**	
	40	355	35.74	7 100	1.3	43	**2KJ4105 - ■ EN32 - ■ ■ U1**	
	45	315	32.05	6 900	1.4	43	**2KJ4105 - ■ EN32 - ■ ■ T1**	
	50	285	28.89	6 800	1.6	43	**2KJ4105 - ■ EN32 - ■ ■ S1**	
	54	265	26.66	6 600	1.7	43	**2KJ4105 - ■ EN32 - ■ ■ R1**	
	59	240	24.34	6 500	1.9	43	**2KJ4105 - ■ EN32 - ■ ■ Q1**	
	71	200	20.2	6 200	2.2	43	**2KJ4105 - ■ EN32 - ■ ■ P1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**Z.59-LEN90LJ4E**							
	76	189	19.01	6 100	2.4	43	**2KJ4105 - ■ EN32 - ■ ■ N1**	
	80	179	17.95	6 000	2.5	43	**2KJ4105 - ■ EN32 - ■ ■ M1**	
	94	152	15.27	5 800	3.0	43	**2KJ4105 - ■ EN32 - ■ ■ L1**	
	110	130	13.09	5 500	3.5	43	**2KJ4105 - ■ EN32 - ■ ■ K1**	
	Z.59-LEN90LR4P							
	28	515	51.81	7 500	0.87	32	**2KJ4105 - ■ EN33 - ■ ■ X1**	
	33	435	44.06	7 400	1.0	32	**2KJ4105 - ■ EN33 - ■ ■ W1**	
	36	395	40.06	7 200	1.1	32	**2KJ4105 - ■ EN33 - ■ ■ V1**	
	40	355	35.74	7 100	1.3	32	**2KJ4105 - ■ EN33 - ■ ■ U1**	
	45	315	32.05	6 900	1.4	32	**2KJ4105 - ■ EN33 - ■ ■ T1**	
	50	285	28.89	6 800	1.6	32	**2KJ4105 - ■ EN33 - ■ ■ S1**	
	54	265	26.66	6 600	1.7	32	**2KJ4105 - ■ EN33 - ■ ■ R1**	
	59	240	24.34	6 500	1.9	32	**2KJ4105 - ■ EN33 - ■ ■ Q1**	
	71	200	20.2	6 200	2.2	32	**2KJ4105 - ■ EN33 - ■ ■ P1**	
	76	189	19.01	6 100	2.4	32	**2KJ4105 - ■ EN33 - ■ ■ N1**	
	80	179	17.95	6 000	2.5	32	**2KJ4105 - ■ EN33 - ■ ■ M1**	
	94	152	15.27	5 800	3.0	32	**2KJ4105 - ■ EN33 - ■ ■ L1**	
	110	130	13.09	5 500	3.5	32	**2KJ4105 - ■ EN33 - ■ ■ K1**	
	D.69-LEN90LJ4E							
	20	725	73.22	10 700	0.82	48	**2KJ4206 - ■ EN32 - ■ ■ D1**	
	D.69-LEN90LR4P							
	20	725	73.22	10 700	0.82	37	**2KJ4206 - ■ EN33 - ■ ■ D1**	
	E.69-LEN90LJ4E							
	155	92	9.3	6 100	1.3	44	**2KJ4003 - ■ EN32 - ■ ■ S1**	
	170	84	8.45	6 100	1.2	44	**2KJ4003 - ■ EN32 - ■ ■ R1**	
	190	75	7.58	6 100	2.7	44	**2KJ4003 - ■ EN32 - ■ ■ Q1**	
	211	68	6.82	6 100	2.5	44	**2KJ4003 - ■ EN32 - ■ ■ P1**	
	233	61	6.17	6 100	3.3	44	**2KJ4003 - ■ EN32 - ■ ■ N1**	
	253	57	5.69	6 100	2.9	44	**2KJ4003 - ■ EN32 - ■ ■ M1**	
	276	52	5.21	6 100	3.9	44	**2KJ4003 - ■ EN32 - ■ ■ L1**	
	329	44	4.38	6 100	4.6	44	**2KJ4003 - ■ EN32 - ■ ■ K1**	
	350	41	4.12	6 100	4.0	44	**2KJ4003 - ■ EN32 - ■ ■ J1**	
	381	38	3.78	6 100	5.3	44	**2KJ4003 - ■ EN32 - ■ ■ H1**	
	E.69-LEN90LR4P							
	155	92	9.3	6 100	1.3	33	**2KJ4003 - ■ EN33 - ■ ■ S1**	
	170	84	8.45	6 100	1.2	33	**2KJ4003 - ■ EN33 - ■ ■ R1**	
	190	75	7.58	6 100	2.7	33	**2KJ4003 - ■ EN33 - ■ ■ Q1**	
	211	68	6.82	6 100	2.5	33	**2KJ4003 - ■ EN33 - ■ ■ P1**	
	233	61	6.17	6 100	3.3	33	**2KJ4003 - ■ EN33 - ■ ■ N1**	
	253	57	5.69	6 100	2.9	33	**2KJ4003 - ■ EN33 - ■ ■ M1**	
	276	52	5.21	6 100	3.9	33	**2KJ4003 - ■ EN33 - ■ ■ L1**	
	329	44	4.38	6 100	4.6	33	**2KJ4003 - ■ EN33 - ■ ■ K1**	
	350	41	4.12	6 100	4.0	33	**2KJ4003 - ■ EN33 - ■ ■ J1**	
	381	38	3.78	6 100	5.3	33	**2KJ4003 - ■ EN33 - ■ ■ H1**	
	Z.69-LEN90LJ4E							
	24	605	60.97	11 000	0.99	48	**2KJ4106 - ■ EN32 - ■ ■ A2**	
	26	550	55.43	11 000	1.1	48	**2KJ4106 - ■ EN32 - ■ ■ X1**	
	31	465	47.14	11 200	1.3	48	**2KJ4106 - ■ EN32 - ■ ■ W1**	
	34	425	42.86	11 200	1.4	48	**2KJ4106 - ■ EN32 - ■ ■ V1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**Z.69-LEN90LJ4E**							
	38	380	38.24	11 300	1.6	48	**2KJ4106 - ■ EN32 - ■ ■ U1**	
	42	340	34.29	11 400	1.8	48	**2KJ4106 - ■ EN32 - ■ ■ T1**	
	47	305	30.9	11 400	2.0	48	**2KJ4106 - ■ EN32 - ■ ■ S1**	
	50	280	28.53	11 500	2.1	48	**2KJ4106 - ■ EN32 - ■ ■ R1**	
	55	255	26.04	11 500	2.3	48	**2KJ4106 - ■ EN32 - ■ ■ Q1**	
	67	215	21.61	11 600	2.8	48	**2KJ4106 - ■ EN32 - ■ ■ P1**	
	71	200	20.34	11 600	3.0	48	**2KJ4106 - ■ EN32 - ■ ■ N1**	
	75	191	19.21	11 600	3.1	48	**2KJ4106 - ■ EN32 - ■ ■ M1**	
	Z.69-LEN90LR4P							
	24	605	60.97	11 000	0.99	37	**2KJ4106 - ■ EN33 - ■ ■ A2**	
	26	550	55.43	11 000	1.1	37	**2KJ4106 - ■ EN33 - ■ ■ X1**	
	31	465	47.14	11 200	1.3	37	**2KJ4106 - ■ EN33 - ■ ■ W1**	
	34	425	42.86	11 200	1.4	37	**2KJ4106 - ■ EN33 - ■ ■ V1**	
	38	380	38.24	11 300	1.6	37	**2KJ4106 - ■ EN33 - ■ ■ U1**	
	42	340	34.29	11 400	1.8	37	**2KJ4106 - ■ EN33 - ■ ■ T1**	
	47	305	30.9	11 400	2.0	37	**2KJ4106 - ■ EN33 - ■ ■ S1**	
	50	280	28.53	11 500	2.1	37	**2KJ4106 - ■ EN33 - ■ ■ R1**	
	55	255	26.04	11 500	2.3	37	**2KJ4106 - ■ EN33 - ■ ■ Q1**	
	67	215	21.61	11 600	2.8	37	**2KJ4106 - ■ EN33 - ■ ■ P1**	
	71	200	20.34	11 600	3.0	37	**2KJ4106 - ■ EN33 - ■ ■ N1**	
	75	191	19.21	11 600	3.1	37	**2KJ4106 - ■ EN33 - ■ ■ M1**	
	D.79-LEN90LJ4E							
	14	1 030	104.03	11 000	0.81	60	**2KJ4207 - ■ EN32 - ■ ■ F1**	
	16	880	88.52	13 300	0.95	60	**2KJ4207 - ■ EN32 - ■ ■ E1**	
	19	750	75.83	13 500	1.1	60	**2KJ4207 - ■ EN32 - ■ ■ D1**	
	22	660	66.67	13 600	1.3	60	**2KJ4207 - ■ EN32 - ■ ■ C1**	
	D.79-LEN90LR4P							
	14	1 030	104.03	11 000	0.81	49	**2KJ4207 - ■ EN33 - ■ ■ F1**	
	16	880	88.52	13 300	0.95	49	**2KJ4207 - ■ EN33 - ■ ■ E1**	
	19	750	75.83	13 500	1.1	49	**2KJ4207 - ■ EN33 - ■ ■ D1**	
	22	660	66.67	13 600	1.3	49	**2KJ4207 - ■ EN33 - ■ ■ C1**	
	Z.79-LEN90LJ4E							
	26	540	54.47	13 800	1.6	59	**2KJ4107 - ■ EN32 - ■ ■ A2**	
	29	490	49.52	13 800	1.7	59	**2KJ4107 - ■ EN32 - ■ ■ X1**	
	32	440	44.42	13 900	1.9	59	**2KJ4107 - ■ EN32 - ■ ■ W1**	
	36	395	39.94	14 000	2.1	59	**2KJ4107 - ■ EN32 - ■ ■ V1**	
	40	355	36.12	14 000	2.3	59	**2KJ4107 - ■ EN32 - ■ ■ U1**	
	43	330	33.34	14 000	2.5	59	**2KJ4107 - ■ EN32 - ■ ■ T1**	
	47	300	30.54	14 100	2.8	59	**2KJ4107 - ■ EN32 - ■ ■ S1**	
	Z.79-LEN90LR4P							
	26	540	54.47	13 800	1.6	48	**2KJ4107 - ■ EN33 - ■ ■ A2**	
	29	490	49.52	13 800	1.7	48	**2KJ4107 - ■ EN33 - ■ ■ X1**	
	32	440	44.42	13 900	1.9	48	**2KJ4107 - ■ EN33 - ■ ■ W1**	
	36	395	39.94	14 000	2.1	48	**2KJ4107 - ■ EN33 - ■ ■ V1**	
	40	355	36.12	14 000	2.3	48	**2KJ4107 - ■ EN33 - ■ ■ U1**	
	43	330	33.34	14 000	2.5	48	**2KJ4107 - ■ EN33 - ■ ■ T1**	
	47	300	30.54	14 100	2.8	48	**2KJ4107 - ■ EN33 - ■ ■ S1**	
	D.89-LEN90LJ4E							
	7	2 050	206.62	18 200	0.82	83	**2KJ4208 - ■ EN32 - ■ ■ N1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**D.89-LEN90LJ4E**							
	7.5	1 890	190.73	18 500	0.89	83	**2KJ4208 - ■ EN32 - ■ ■ M1**	
	8.2	1 730	174.71	18 500	0.97	83	**2KJ4208 - ■ EN32 - ■ ■ L1**	
	9.8	1 450	146.59	18 500	1.2	83	**2KJ4208 - ■ EN32 - ■ ■ K1**	
	10	1 370	137.97	18 500	1.2	83	**2KJ4208 - ■ EN32 - ■ ■ J1**	
	11	1 250	126.58	18 500	1.3	83	**2KJ4208 - ■ EN32 - ■ ■ H1**	
	13	1 100	110.57	18 500	1.5	83	**2KJ4208 - ■ EN32 - ■ ■ G1**	
	15	985	98.99	18 500	1.7	83	**2KJ4208 - ■ EN32 - ■ ■ F1**	
	17	860	86.56	18 500	2.0	83	**2KJ4208 - ■ EN32 - ■ ■ E1**	
	19	735	74.3	18 500	2.3	83	**2KJ4208 - ■ EN32 - ■ ■ D1**	
	D.89-LEN90LR4P							
	7	2 050	206.62	18 200	0.82	72	**2KJ4208 - ■ EN33 - ■ ■ N1**	
	7.5	1 890	190.73	18 500	0.89	72	**2KJ4208 - ■ EN33 - ■ ■ M1**	
	8.2	1 730	174.71	18 500	0.97	72	**2KJ4208 - ■ EN33 - ■ ■ L1**	
	9.8	1 450	146.59	18 500	1.2	72	**2KJ4208 - ■ EN33 - ■ ■ K1**	
	10	1 370	137.97	18 500	1.2	72	**2KJ4208 - ■ EN33 - ■ ■ J1**	
	11	1 250	126.58	18 500	1.3	72	**2KJ4208 - ■ EN33 - ■ ■ H1**	
	13	1 100	110.57	18 500	1.5	72	**2KJ4208 - ■ EN33 - ■ ■ G1**	
	15	985	98.99	18 500	1.7	72	**2KJ4208 - ■ EN33 - ■ ■ F1**	
	17	860	86.56	18 500	2.0	72	**2KJ4208 - ■ EN33 - ■ ■ E1**	
	19	735	74.3	18 500	2.3	72	**2KJ4208 - ■ EN33 - ■ ■ D1**	
	E.89-LEN90LJ4E							
	149	96	9.67	8 000	2.9	60	**2KJ4004 - ■ EN32 - ■ ■ T1**	
	165	87	8.73	8 000	3.2	60	**2KJ4004 - ■ EN32 - ■ ■ S1**	
	182	79	7.92	8 000	3.6	60	**2KJ4004 - ■ EN32 - ■ ■ R1**	
	197	73	7.31	8 000	3.6	60	**2KJ4004 - ■ EN32 - ■ ■ Q1**	
	217	66	6.64	8 000	3.9	60	**2KJ4004 - ■ EN32 - ■ ■ P1**	
	272	53	5.29	8 000	4.0	60	**2KJ4004 - ■ EN32 - ■ ■ M1**	
	E.89-LEN90LR4P							
	149	96	9.67	8 000	2.9	49	**2KJ4004 - ■ EN33 - ■ ■ T1**	
	165	87	8.73	8 000	3.2	49	**2KJ4004 - ■ EN33 - ■ ■ S1**	
	182	79	7.92	8 000	3.6	49	**2KJ4004 - ■ EN33 - ■ ■ R1**	
	197	73	7.31	8 000	3.6	49	**2KJ4004 - ■ EN33 - ■ ■ Q1**	
	217	66	6.64	8 000	3.9	49	**2KJ4004 - ■ EN33 - ■ ■ P1**	
	272	53	5.29	8 000	4.0	49	**2KJ4004 - ■ EN33 - ■ ■ M1**	
	D.109-LEN90LJ4E							
	4.1	3 470	348.88	20 200	0.89	125	**2KJ4210 - ■ EN32 - ■ ■ T1**	
	4.6	3 130	314.98	20 200	0.99	125	**2KJ4210 - ■ EN32 - ■ ■ S1**	
	5	2 840	285.72	20 200	1.1	125	**2KJ4210 - ■ EN32 - ■ ■ R1**	
	5.5	2 620	263.74	20 200	1.2	125	**2KJ4210 - ■ EN32 - ■ ■ Q1**	
	6	2 380	239.75	20 200	1.3	125	**2KJ4210 - ■ EN32 - ■ ■ P1**	
	7.1	2 020	203.01	20 200	1.5	125	**2KJ4210 - ■ EN32 - ■ ■ N1**	
	7.5	1 900	191.07	20 200	1.6	125	**2KJ4210 - ■ EN32 - ■ ■ M1**	
	8.2	1 750	176.45	20 200	1.8	125	**2KJ4210 - ■ EN32 - ■ ■ L1**	
	9.2	1 560	157	20 200	2.0	125	**2KJ4210 - ■ EN32 - ■ ■ K1**	
	10	1 380	139.44	20 200	2.2	125	**2KJ4210 - ■ EN32 - ■ ■ J1**	
	D.109-LEN90LR4P							
	4.1	3 470	348.88	20 200	0.89	114	**2KJ4210 - ■ EN33 - ■ ■ T1**	
	4.6	3 130	314.98	20 200	0.99	114	**2KJ4210 - ■ EN33 - ■ ■ S1**	
	5	2 840	285.72	20 200	1.1	114	**2KJ4210 - ■ EN33 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**D.109-LEN90LR4P**							
	5.5	2 620	263.74	20 200	1.2	114	**2KJ4210 - ■ EN33 - ■ ■ Q1**	
	6	2 380	239.75	20 200	1.3	114	**2KJ4210 - ■ EN33 - ■ ■ P1**	
	7.1	2 020	203.01	20 200	1.5	114	**2KJ4210 - ■ EN33 - ■ ■ N1**	
	7.5	1 900	191.07	20 200	1.6	114	**2KJ4210 - ■ EN33 - ■ ■ M1**	
	8.2	1 750	176.45	20 200	1.8	114	**2KJ4210 - ■ EN33 - ■ ■ L1**	
	9.2	1 560	157	20 200	2.0	114	**2KJ4210 - ■ EN33 - ■ ■ K1**	
	10	1 380	139.44	20 200	2.2	114	**2KJ4210 - ■ EN33 - ■ ■ J1**	
	D.129-LEN90LJ4E							
	3.9	3 710	373	27 800	1.3	188	**2KJ4211 - ■ EN32 - ■ ■ S1**	
	4.2	3 420	344.17	27 900	1.5	188	**2KJ4211 - ■ EN32 - ■ ■ R1**	
	4.5	3 150	316.9	28 100	1.6	188	**2KJ4211 - ■ EN32 - ■ ■ Q1**	
	5.3	2 680	270.24	28 400	1.9	188	**2KJ4211 - ■ EN32 - ■ ■ P1**	
	5.7	2 530	254.34	28 500	2.0	188	**2KJ4211 - ■ EN32 - ■ ■ N1**	
	6.1	2 340	236.03	28 600	2.1	188	**2KJ4211 - ■ EN32 - ■ ■ M1**	
	D.129-LEN90LR4P							
	3.9	3 710	373	27 800	1.3	177	**2KJ4211 - ■ EN33 - ■ ■ S1**	
	4.2	3 420	344.17	27 900	1.5	177	**2KJ4211 - ■ EN33 - ■ ■ R1**	
	4.5	3 150	316.9	28 100	1.6	177	**2KJ4211 - ■ EN33 - ■ ■ Q1**	
	5.3	2 680	270.24	28 400	1.9	177	**2KJ4211 - ■ EN33 - ■ ■ P1**	
	5.7	2 530	254.34	28 500	2.0	177	**2KJ4211 - ■ EN33 - ■ ■ N1**	
	6.1	2 340	236.03	28 600	2.1	177	**2KJ4211 - ■ EN33 - ■ ■ M1**	
	D.109-LEN100LK6E							
	3.9	3 630	239.75	20 200	0.85	134	**2KJ4210 - ■ FN32 - ■ ■ P1**	**P01**
	D.109-LEN100LV6P							
	3.9	3 630	239.75	20 200	0.85	130	**2KJ4210 - ■ FN33 - ■ ■ P1**	**P01**
	D.129-LEN100LK6E							
	2.5	5 650	373	26 600	0.88	198	**2KJ4211 - ■ FN32 - ■ ■ S1**	**P01**
	2.7	5 210	344.17	26 900	0.96	198	**2KJ4211 - ■ FN32 - ■ ■ R1**	**P01**
	3	4 800	316.9	27 100	1.0	198	**2KJ4211 - ■ FN32 - ■ ■ Q1**	**P01**
	3.5	4 090	270.24	27 600	1.2	198	**2KJ4211 - ■ FN32 - ■ ■ P1**	**P01**
	D.129-LEN100LV6P							
	2.5	5 650	373	26 600	0.88	194	**2KJ4211 - ■ FN33 - ■ ■ S1**	**P01**
	2.7	5 210	344.17	26 900	0.96	194	**2KJ4211 - ■ FN33 - ■ ■ R1**	**P01**
	3	4 800	316.9	27 100	1.0	194	**2KJ4211 - ■ FN33 - ■ ■ Q1**	**P01**
	3.5	4 090	270.24	27 600	1.2	194	**2KJ4211 - ■ FN33 - ■ ■ P1**	**P01**
	D.149-LEN100LK6E							
	2.9	4 970	328.38	52 600	1.6	282	**2KJ4212 - ■ FN32 - ■ ■ W1**	**P01**
	3.4	4 260	281.04	53 000	1.9	282	**2KJ4212 - ■ FN32 - ■ ■ V1**	**P01**
	3.6	4 010	264.51	53 100	2.0	282	**2KJ4212 - ■ FN32 - ■ ■ U1**	**P01**
	D.149-LEN100LV6P							
	2.9	4 970	328.38	52 600	1.6	278	**2KJ4212 - ■ FN33 - ■ ■ W1**	**P01**
	3.4	4 260	281.04	53 000	1.9	278	**2KJ4212 - ■ FN33 - ■ ■ V1**	**P01**
	3.6	4 010	264.51	53 100	2.0	278	**2KJ4212 - ■ FN33 - ■ ■ U1**	**P01**
	D.109-Z39-LEN90LJ4E							
	3.9	3 400	366	20 200	0.91	132	**2KJ4235 - ■ EN32 - ■ ■ A1**	
	D.109-Z39-LEN90LR4P							
	3.9	3 400	366	20 200	0.91	121	**2KJ4235 - ■ EN33 - ■ ■ A1**	
	D.129-Z49-LEN90LJ4E							
	2.4	5 590	601	26 700	0.89	215	**2KJ4237 - ■ EN32 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**D.129-Z49-LEN90LJ4E**							
	2.7	4 920	529	27 100	1.0	215	**2KJ4237 - ■ EN32 - ■ ■ C1**	
	3.2	4 140	446	27 500	1.2	215	**2KJ4237 - ■ EN32 - ■ ■ B1**	
	3.7	3 610	389	27 800	1.4	215	**2KJ4237 - ■ EN32 - ■ ■ A1**	
	D.129-Z49-LEN90LR4P							
	2.4	5 590	601	26 700	0.89	204	**2KJ4237 - ■ EN33 - ■ ■ D1**	
	2.7	4 920	529	27 100	1.0	204	**2KJ4237 - ■ EN33 - ■ ■ C1**	
	3.2	4 140	446	27 500	1.2	204	**2KJ4237 - ■ EN33 - ■ ■ B1**	
	3.7	3 610	389	27 800	1.4	204	**2KJ4237 - ■ EN33 - ■ ■ A1**	
	D.149-Z49-LEN90LJ4E							
	1.5	9 100	979	50 600	0.88	291	**2KJ4240 - ■ EN32 - ■ ■ J1**	
	1.7	7 830	842	51 200	1.0	291	**2KJ4240 - ■ EN32 - ■ ■ G1**	
	1.7	7 930	853	51 200	1.0	291	**2KJ4240 - ■ EN32 - ■ ■ H1**	
	1.8	7 390	795	51 500	1.1	291	**2KJ4240 - ■ EN32 - ■ ■ F1**	
	2.1	6 290	677	52 000	1.3	291	**2KJ4240 - ■ EN32 - ■ ■ E1**	
	2.5	5 390	580	52 400	1.5	291	**2KJ4240 - ■ EN32 - ■ ■ D1**	
	2.8	4 740	510	52 700	1.7	291	**2KJ4240 - ■ EN32 - ■ ■ C1**	
	3.3	4 000	430	53 100	2.0	291	**2KJ4240 - ■ EN32 - ■ ■ B1**	
	D.149-Z49-LEN90LR4P							
	1.5	9 100	979	50 600	0.88	280	**2KJ4240 - ■ EN33 - ■ ■ J1**	
	1.7	7 830	842	51 200	1.0	280	**2KJ4240 - ■ EN33 - ■ ■ G1**	
	1.7	7 930	853	51 200	1.0	280	**2KJ4240 - ■ EN33 - ■ ■ H1**	
	1.8	7 390	795	51 500	1.1	280	**2KJ4240 - ■ EN33 - ■ ■ F1**	
	2.1	6 290	677	52 000	1.3	280	**2KJ4240 - ■ EN33 - ■ ■ E1**	
	2.5	5 390	580	52 400	1.5	280	**2KJ4240 - ■ EN33 - ■ ■ D1**	
	2.8	4 740	510	52 700	1.7	280	**2KJ4240 - ■ EN33 - ■ ■ C1**	
	3.3	4 000	430	53 100	2.0	280	**2KJ4240 - ■ EN33 - ■ ■ B1**	
	D.169-Z69-LEN90LJ4E							
	0.78	17 200	1 849	68 900	0.81	480	**2KJ4242 - ■ EN32 - ■ ■ N1**	
	0.82	16 200	1 747	69 300	0.86	480	**2KJ4242 - ■ EN32 - ■ ■ M1**	
	0.97	13 800	1 486	70 200	1.0	480	**2KJ4242 - ■ EN32 - ■ ■ L1**	
	1.1	11 800	1 273	70 900	1.2	480	**2KJ4242 - ■ EN32 - ■ ■ K1**	
	1.3	10 400	1 119	71 500	1.3	480	**2KJ4242 - ■ EN32 - ■ ■ J1**	
	1.5	8 780	944	72 100	1.6	480	**2KJ4242 - ■ EN32 - ■ ■ H1**	
	1.7	7 650	823	72 500	1.8	480	**2KJ4242 - ■ EN32 - ■ ■ G1**	
	1.9	7 190	773	72 700	1.9	480	**2KJ4242 - ■ EN32 - ■ ■ F1**	
	D.169-Z69-LEN90LR4P							
	0.78	17 200	1 849	68 900	0.81	469	**2KJ4242 - ■ EN33 - ■ ■ N1**	
	0.82	16 200	1 747	69 300	0.86	469	**2KJ4242 - ■ EN33 - ■ ■ M1**	
	0.97	13 800	1 486	70 200	1.0	469	**2KJ4242 - ■ EN33 - ■ ■ L1**	
	1.1	11 800	1 273	70 900	1.2	469	**2KJ4242 - ■ EN33 - ■ ■ K1**	
	1.3	10 400	1 119	71 500	1.3	469	**2KJ4242 - ■ EN33 - ■ ■ J1**	
	1.5	8 780	944	72 100	1.6	469	**2KJ4242 - ■ EN33 - ■ ■ H1**	
	1.7	7 650	823	72 500	1.8	469	**2KJ4242 - ■ EN33 - ■ ■ G1**	
	1.9	7 190	773	72 700	1.9	469	**2KJ4242 - ■ EN33 - ■ ■ F1**	
	D.189-Z69-LEN90LJ4E							
	0.58	23 000	2 480	107 000	0.82	694	**2KJ4244 - ■ EN32 - ■ ■ Q1**	
	0.7	19 100	2 058	107 000	0.99	694	**2KJ4244 - ■ EN32 - ■ ■ P1**	
	0.74	18 000	1 937	107 000	1.1	694	**2KJ4244 - ■ EN32 - ■ ■ N1**	
	0.79	17 000	1 829	107 000	1.1	694	**2KJ4244 - ■ EN32 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**D.189-Z69-LEN90LJ4E**							
	0.93	14 400	1 556	107 000	1.3	694	**2KJ4244 - ■ EN32 - ■ ■ L1**	
	1.1	12 400	1 333	107 000	1.5	694	**2KJ4244 - ■ EN32 - ■ ■ K1**	
	1.2	10 900	1 172	107 000	1.7	694	**2KJ4244 - ■ EN32 - ■ ■ J1**	
	D.189-Z69-LEN90LR4P							
	0.58	23 000	2 480	107 000	0.82	683	**2KJ4244 - ■ EN33 - ■ ■ Q1**	
	0.7	19 100	2 058	107 000	0.99	683	**2KJ4244 - ■ EN33 - ■ ■ P1**	
	0.74	18 000	1 937	107 000	1.1	683	**2KJ4244 - ■ EN33 - ■ ■ N1**	
	0.79	17 000	1 829	107 000	1.1	683	**2KJ4244 - ■ EN33 - ■ ■ M1**	
	0.93	14 400	1 556	107 000	1.3	683	**2KJ4244 - ■ EN33 - ■ ■ L1**	
	1.1	12 400	1 333	107 000	1.5	683	**2KJ4244 - ■ EN33 - ■ ■ K1**	
	1.2	10 900	1 172	107 000	1.7	683	**2KJ4244 - ■ EN33 - ■ ■ J1**	
2.2	**Z.29-LEN90LG2E**							
	164	128	17.67	1 200	1.1	31	**2KJ4102 - ■ EM32 - ■ ■ R1**	**P00**
	183	115	15.75	1 300	1.2	31	**2KJ4102 - ■ EM32 - ■ ■ Q1**	**P00**
	199	106	14.54	1 500	1.1	31	**2KJ4102 - ■ EM32 - ■ ■ P1**	**P00**
	227	92	12.73	1 600	1.5	31	**2KJ4102 - ■ EM32 - ■ ■ N1**	**P00**
	259	81	11.16	1 800	1.7	31	**2KJ4102 - ■ EM32 - ■ ■ M1**	**P00**
	286	74	10.12	1 800	1.9	31	**2KJ4102 - ■ EM32 - ■ ■ L1**	**P00**
	303	69	9.53	1 900	2.0	31	**2KJ4102 - ■ EM32 - ■ ■ K1**	**P00**
	344	61	8.4	1 900	2.3	31	**2KJ4102 - ■ EM32 - ■ ■ J1**	**P00**
	396	53	7.29	1 900	2.5	31	**2KJ4102 - ■ EM32 - ■ ■ H1**	**P00**
	418	50	6.92	1 800	1.5	31	**2KJ4102 - ■ EM32 - ■ ■ G1**	**P00**
	477	44	6.06	1 700	2.3	31	**2KJ4102 - ■ EM32 - ■ ■ F1**	**P00**
	544	39	5.31	1 700	2.4	31	**2KJ4102 - ■ EM32 - ■ ■ E1**	**P00**
	600	35	4.82	1 600	2.5	31	**2KJ4102 - ■ EM32 - ■ ■ D1**	**P00**
	637	33	4.54	1 600	2.5	31	**2KJ4102 - ■ EM32 - ■ ■ C1**	**P00**
	722	29	4	1 600	2.6	31	**2KJ4102 - ■ EM32 - ■ ■ B1**	**P00**
	833	25	3.47	1 500	2.8	31	**2KJ4102 - ■ EM32 - ■ ■ A1**	**P00**
	Z.29-LEN90LR2P							
	165	128	17.67	1 200	1.1	20	**2KJ4102 - ■ EN33 - ■ ■ R1**	**P00**
	185	114	15.75	1 400	1.2	20	**2KJ4102 - ■ EN33 - ■ ■ Q1**	**P00**
	200	105	14.54	1 500	1.1	20	**2KJ4102 - ■ EN33 - ■ ■ P1**	**P00**
	229	92	12.73	1 600	1.5	20	**2KJ4102 - ■ EN33 - ■ ■ N1**	**P00**
	261	81	11.16	1 700	1.7	20	**2KJ4102 - ■ EN33 - ■ ■ M1**	**P00**
	288	73	10.12	1 800	1.9	20	**2KJ4102 - ■ EN33 - ■ ■ L1**	**P00**
	305	69	9.53	1 900	2.0	20	**2KJ4102 - ■ EN33 - ■ ■ K1**	**P00**
	346	61	8.4	1 900	2.3	20	**2KJ4102 - ■ EN33 - ■ ■ J1**	**P00**
	399	53	7.29	1 900	2.5	20	**2KJ4102 - ■ EN33 - ■ ■ H1**	**P00**
	421	50	6.92	1 800	1.5	20	**2KJ4102 - ■ EN33 - ■ ■ G1**	**P00**
	480	44	6.06	1 700	2.3	20	**2KJ4102 - ■ EN33 - ■ ■ F1**	**P00**
	548	38	5.31	1 700	2.4	20	**2KJ4102 - ■ EN33 - ■ ■ E1**	**P00**
	604	35	4.82	1 600	2.5	20	**2KJ4102 - ■ EN33 - ■ ■ D1**	**P00**
	641	33	4.54	1 600	2.6	20	**2KJ4102 - ■ EN33 - ■ ■ C1**	**P00**
	728	29	4	1 600	2.6	20	**2KJ4102 - ■ EN33 - ■ ■ B1**	**P00**
	839	25	3.47	1 500	2.8	20	**2KJ4102 - ■ EN33 - ■ ■ A1**	**P00**
	Z.39-LEN90LG2E							
	163	129	17.77	2 100	1.5	32	**2KJ4103 - ■ EM32 - ■ ■ N1**	**P00**
	195	108	14.79	2 300	1.8	32	**2KJ4103 - ■ EM32 - ■ ■ M1**	**P00**

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**Z.39-LEN90LG2E**							
	208	101	13.92	2 400	1.9	32	**2KJ4103 - ■ EM32 - ■ ■ L1**	**P00**
	232	91	12.47	2 400	2.0	32	**2KJ4103 - ■ EM32 - ■ ■ K1**	**P00**
	272	77	10.62	2 500	2.2	32	**2KJ4103 - ■ EM32 - ■ ■ J1**	**P00**
	318	66	9.1	2 600	2.4	32	**2KJ4103 - ■ EM32 - ■ ■ H1**	**P00**
	369	57	7.84	2 600	2.6	32	**2KJ4103 - ■ EM32 - ■ ■ G1**	**P00**
	447	47	6.46	2 300	3.1	32	**2KJ4103 - ■ EM32 - ■ ■ F1**	**P00**
	475	44	6.08	2 300	3.3	32	**2KJ4103 - ■ EM32 - ■ ■ E1**	**P00**
	530	40	5.45	2 300	3.5	32	**2KJ4103 - ■ EM32 - ■ ■ D1**	**P00**
	623	34	4.64	2 300	3.9	32	**2KJ4103 - ■ EM32 - ■ ■ C1**	**P00**
	726	29	3.98	2 300	4.2	32	**2KJ4103 - ■ EM32 - ■ ■ B1**	**P00**
	843	25	3.43	2 300	4.5	32	**2KJ4103 - ■ EM32 - ■ ■ A1**	**P00**
	Z.39-LEN90LR2P							
	164	128	17.77	2 100	1.6	21	**2KJ4103 - ■ EN33 - ■ ■ N1**	**P00**
	197	107	14.79	2 300	1.8	21	**2KJ4103 - ■ EN33 - ■ ■ M1**	**P00**
	209	101	13.92	2 400	1.9	21	**2KJ4103 - ■ EN33 - ■ ■ L1**	**P00**
	233	90	12.47	2 500	2.0	21	**2KJ4103 - ■ EN33 - ■ ■ K1**	**P00**
	274	77	10.62	2 500	2.2	21	**2KJ4103 - ■ EN33 - ■ ■ J1**	**P00**
	320	66	9.1	2 600	2.4	21	**2KJ4103 - ■ EN33 - ■ ■ H1**	**P00**
	371	57	7.84	2 600	2.6	21	**2KJ4103 - ■ EN33 - ■ ■ G1**	**P00**
	450	47	6.46	2 300	3.1	21	**2KJ4103 - ■ EN33 - ■ ■ F1**	**P00**
	479	44	6.08	2 300	3.3	21	**2KJ4103 - ■ EN33 - ■ ■ E1**	**P00**
	534	39	5.45	2 300	3.6	21	**2KJ4103 - ■ EN33 - ■ ■ D1**	**P00**
	627	34	4.64	2 300	3.9	21	**2KJ4103 - ■ EN33 - ■ ■ C1**	**P00**
	731	29	3.98	2 300	4.2	21	**2KJ4103 - ■ EN33 - ■ ■ B1**	**P00**
	848	25	3.43	2 300	4.5	21	**2KJ4103 - ■ EN33 - ■ ■ A1**	**P00**
	Z.49-LEN90LG2E							
	156	134	18.48	3 900	2.4	41	**2KJ4104 - ■ EM32 - ■ ■ Q1**	**P00**
	166	126	17.39	3 800	2.5	41	**2KJ4104 - ■ EM32 - ■ ■ P1**	**P00**
	176	119	16.42	3 800	2.7	41	**2KJ4104 - ■ EM32 - ■ ■ N1**	**P00**
	207	102	13.98	3 600	3.1	41	**2KJ4104 - ■ EM32 - ■ ■ M1**	**P00**
	241	87	11.97	3 500	3.7	41	**2KJ4104 - ■ EM32 - ■ ■ L1**	**P00**
	274	77	10.53	3 400	4.2	41	**2KJ4104 - ■ EM32 - ■ ■ K1**	**P00**
	325	65	8.88	3 200	5.0	41	**2KJ4104 - ■ EM32 - ■ ■ J1**	**P00**
	378	56	7.64	3 000	5.3	41	**2KJ4104 - ■ EM32 - ■ ■ G1**	**P00**
	Z.49-LEN90LR2P							
	157	133	18.48	3 900	2.4	30	**2KJ4104 - ■ EN33 - ■ ■ Q1**	**P00**
	167	126	17.39	3 800	2.5	30	**2KJ4104 - ■ EN33 - ■ ■ P1**	**P00**
	177	119	16.42	3 800	2.7	30	**2KJ4104 - ■ EN33 - ■ ■ N1**	**P00**
	208	101	13.98	3 600	3.2	30	**2KJ4104 - ■ EN33 - ■ ■ M1**	**P00**
	243	86	11.97	3 500	3.7	30	**2KJ4104 - ■ EN33 - ■ ■ L1**	**P00**
	276	76	10.53	3 300	4.2	30	**2KJ4104 - ■ EN33 - ■ ■ K1**	**P00**
	328	64	8.88	3 200	5.0	30	**2KJ4104 - ■ EN33 - ■ ■ J1**	**P00**
	381	55	7.64	3 000	5.3	30	**2KJ4104 - ■ EN33 - ■ ■ G1**	**P00**
	Z.59-LEN90LG2E							
	152	138	19.01	4 900	3.3	43	**2KJ4105 - ■ EM32 - ■ ■ N1**	**P00**
	161	130	17.95	4 800	3.4	43	**2KJ4105 - ■ EM32 - ■ ■ M1**	**P00**
	189	111	15.27	4 600	4.1	43	**2KJ4105 - ■ EM32 - ■ ■ L1**	**P00**

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**Z.59-LEN90LR2P**							
	153	137	19.01	4 900	3.3	32	**2KJ4105 - ■ EN33 - ■ ■ N1**	**P00**
	162	130	17.95	4 800	3.5	32	**2KJ4105 - ■ EN33 - ■ ■ M1**	**P00**
	191	110	15.27	4 600	4.1	32	**2KJ4105 - ■ EN33 - ■ ■ L1**	**P00**
	Z.29-LEN100LH4E							
	129	163	11.16	600	0.86	37	**2KJ4102 - ■ FM32 - ■ ■ M1**	
	142	148	10.12	900	0.94	37	**2KJ4102 - ■ FM32 - ■ ■ L1**	
	151	140	9.53	1 000	1.0	37	**2KJ4102 - ■ FM32 - ■ ■ K1**	
	171	123	8.4	1 200	1.1	37	**2KJ4102 - ■ FM32 - ■ ■ J1**	
	197	107	7.29	1 400	1.2	37	**2KJ4102 - ■ FM32 - ■ ■ H1**	
	237	89	6.06	1 300	1.1	37	**2KJ4102 - ■ FM32 - ■ ■ F1**	
	270	78	5.31	1 400	1.2	37	**2KJ4102 - ■ FM32 - ■ ■ E1**	
	298	71	4.82	1 500	1.2	37	**2KJ4102 - ■ FM32 - ■ ■ D1**	
	316	66	4.54	1 600	1.3	37	**2KJ4102 - ■ FM32 - ■ ■ C1**	
	359	59	4	1 700	1.3	37	**2KJ4102 - ■ FM32 - ■ ■ B1**	
	414	51	3.47	1 800	1.4	37	**2KJ4102 - ■ FM32 - ■ ■ A1**	
	Z.29-LEN100LU4P							
	129	162	11.16	600	0.86	34	**2KJ4102 - ■ FL33 - ■ ■ M1**	
	143	147	10.12	900	0.95	34	**2KJ4102 - ■ FL33 - ■ ■ L1**	
	152	139	9.53	1 000	1.0	34	**2KJ4102 - ■ FL33 - ■ ■ K1**	
	172	122	8.4	1 200	1.1	34	**2KJ4102 - ■ FL33 - ■ ■ J1**	
	198	106	7.29	1 500	1.2	34	**2KJ4102 - ■ FL33 - ■ ■ H1**	
	238	88	6.06	1 300	1.1	34	**2KJ4102 - ■ FL33 - ■ ■ F1**	
	272	77	5.31	1 500	1.2	34	**2KJ4102 - ■ FL33 - ■ ■ E1**	
	300	70	4.82	1 500	1.2	34	**2KJ4102 - ■ FL33 - ■ ■ D1**	
	318	66	4.54	1 600	1.3	34	**2KJ4102 - ■ FL33 - ■ ■ C1**	
	361	58	4	1 700	1.3	34	**2KJ4102 - ■ FL33 - ■ ■ B1**	
	416	50	3.47	1 800	1.4	34	**2KJ4102 - ■ FL33 - ■ ■ A1**	
	E.39-LEN100LH4E							
	351	60	4.09	2 800	0.8	40	**2KJ4001 - ■ FM32 - ■ ■ K1**	
	401	52	3.58	2 900	1.1	40	**2KJ4001 - ■ FM32 - ■ ■ J1**	
	434	48	3.31	3 000	1.2	40	**2KJ4001 - ■ FM32 - ■ ■ H1**	
	490	43	2.93	2 900	1.5	40	**2KJ4001 - ■ FM32 - ■ ■ G1**	
	588	36	2.44	2 700	1.8	40	**2KJ4001 - ■ FM32 - ■ ■ F1**	
	627	34	2.29	2 700	2.0	40	**2KJ4001 - ■ FM32 - ■ ■ E1**	
	697	30	2.06	2 600	2.2	40	**2KJ4001 - ■ FM32 - ■ ■ D1**	
	820	26	1.75	2 500	2.6	40	**2KJ4001 - ■ FM32 - ■ ■ C1**	
	957	22	1.5	2 400	2.8	40	**2KJ4001 - ■ FM32 - ■ ■ B1**	
	1 112	19	1.29	2 300	2.9	40	**2KJ4001 - ■ FM32 - ■ ■ A1**	
	E.39-LEN100LU4P							
	353	60	4.09	2 800	0.81	37	**2KJ4001 - ■ FL33 - ■ ■ K1**	
	404	52	3.58	2 900	1.1	37	**2KJ4001 - ■ FL33 - ■ ■ J1**	
	437	48	3.31	2 900	1.2	37	**2KJ4001 - ■ FL33 - ■ ■ H1**	
	493	43	2.93	2 900	1.5	37	**2KJ4001 - ■ FL33 - ■ ■ G1**	
	592	36	2.44	2 700	1.8	37	**2KJ4001 - ■ FL33 - ■ ■ F1**	
	631	33	2.29	2 700	2.0	37	**2KJ4001 - ■ FL33 - ■ ■ E1**	
	701	30	2.06	2 600	2.2	37	**2KJ4001 - ■ FL33 - ■ ■ D1**	
	826	25	1.75	2 500	2.6	37	**2KJ4001 - ■ FL33 - ■ ■ C1**	
	963	22	1.5	2 400	2.8	37	**2KJ4001 - ■ FL33 - ■ ■ B1**	
	1 120	19	1.29	2 300	2.9	37	**2KJ4001 - ■ FL33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**Z.39-LEN100LH4E**							
	97	215	14.79	900	0.89	39	**2KJ4103 - ■ FM32 - ■ ■ M1**	
	103	200	13.92	1 200	0.93	39	**2KJ4103 - ■ FM32 - ■ ■ L1**	
	115	183	12.47	1 400	0.99	39	**2KJ4103 - ■ FM32 - ■ ■ K1**	
	135	155	10.62	1 800	1.1	39	**2KJ4103 - ■ FM32 - ■ ■ J1**	
	158	133	9.1	2 000	1.2	39	**2KJ4103 - ■ FM32 - ■ ■ H1**	
	183	115	7.84	2 200	1.3	39	**2KJ4103 - ■ FM32 - ■ ■ G1**	
	222	95	6.46	1 800	1.5	39	**2KJ4103 - ■ FM32 - ■ ■ F1**	
	236	89	6.08	1 900	1.7	39	**2KJ4103 - ■ FM32 - ■ ■ E1**	
	263	80	5.45	2 000	1.8	39	**2KJ4103 - ■ FM32 - ■ ■ D1**	
	309	68	4.64	2 100	1.9	39	**2KJ4103 - ■ FM32 - ■ ■ C1**	
	361	58	3.98	2 200	2.1	39	**2KJ4103 - ■ FM32 - ■ ■ B1**	
	418	50	3.43	2 300	2.2	39	**2KJ4103 - ■ FM32 - ■ ■ A1**	
	Z.39-LEN100LU4P							
	98	215	14.79	900	0.9	36	**2KJ4103 - ■ FL33 - ■ ■ M1**	
	104	200	13.92	1 200	0.93	36	**2KJ4103 - ■ FL33 - ■ ■ L1**	
	116	181	12.47	1 400	0.99	36	**2KJ4103 - ■ FL33 - ■ ■ K1**	
	136	154	10.62	1 800	1.1	36	**2KJ4103 - ■ FL33 - ■ ■ J1**	
	159	132	9.1	2 100	1.2	36	**2KJ4103 - ■ FL33 - ■ ■ H1**	
	184	114	7.84	2 200	1.3	36	**2KJ4103 - ■ FL33 - ■ ■ G1**	
	224	94	6.46	1 800	1.6	36	**2KJ4103 - ■ FL33 - ■ ■ F1**	
	238	88	6.08	1 900	1.7	36	**2KJ4103 - ■ FL33 - ■ ■ E1**	
	265	79	5.45	2 000	1.8	36	**2KJ4103 - ■ FL33 - ■ ■ D1**	
	311	68	4.64	2 100	1.9	36	**2KJ4103 - ■ FL33 - ■ ■ C1**	
	363	58	3.98	2 200	2.1	36	**2KJ4103 - ■ FL33 - ■ ■ B1**	
	421	50	3.43	2 300	2.2	36	**2KJ4103 - ■ FL33 - ■ ■ A1**	
	E.49-LEN100LH4E							
	236	89	6.08	4 000	1.2	47	**2KJ4002 - ■ FM32 - ■ ■ N1**	
	263	80	5.45	4 000	1.3	47	**2KJ4002 - ■ FM32 - ■ ■ M1**	
	292	72	4.92	4 000	1.4	47	**2KJ4002 - ■ FM32 - ■ ■ L1**	
	316	66	4.54	4 000	1.5	47	**2KJ4002 - ■ FM32 - ■ ■ K1**	
	347	61	4.14	4 000	1.7	47	**2KJ4002 - ■ FM32 - ■ ■ J1**	
	417	50	3.44	4 000	2.0	47	**2KJ4002 - ■ FM32 - ■ ■ H1**	
	443	47	3.24	4 000	2.1	47	**2KJ4002 - ■ FM32 - ■ ■ G1**	
	469	45	3.06	3 900	2.3	47	**2KJ4002 - ■ FM32 - ■ ■ F1**	
	552	38	2.6	3 700	2.7	47	**2KJ4002 - ■ FM32 - ■ ■ E1**	
	643	33	2.23	3 600	3.1	47	**2KJ4002 - ■ FM32 - ■ ■ D1**	
	732	29	1.96	3 400	3.6	47	**2KJ4002 - ■ FM32 - ■ ■ C1**	
	870	24	1.65	3 300	4.3	47	**2KJ4002 - ■ FM32 - ■ ■ B1**	
	997	21	1.44	3 100	4.8	47	**2KJ4002 - ■ FM32 - ■ ■ A1**	
	E.49-LEN100LU4P							
	238	88	6.08	4 000	1.2	44	**2KJ4002 - ■ FL33 - ■ ■ N1**	
	265	79	5.45	4 000	1.3	44	**2KJ4002 - ■ FL33 - ■ ■ M1**	
	294	72	4.92	4 000	1.4	44	**2KJ4002 - ■ FL33 - ■ ■ L1**	
	318	66	4.54	4 000	1.5	44	**2KJ4002 - ■ FL33 - ■ ■ K1**	
	349	60	4.14	4 000	1.7	44	**2KJ4002 - ■ FL33 - ■ ■ J1**	
	420	50	3.44	4 000	2.0	44	**2KJ4002 - ■ FL33 - ■ ■ H1**	
	446	47	3.24	4 000	2.1	44	**2KJ4002 - ■ FL33 - ■ ■ G1**	
	472	44	3.06	3 900	2.3	44	**2KJ4002 - ■ FL33 - ■ ■ F1**	
	556	38	2.6	3 700	2.7	44	**2KJ4002 - ■ FL33 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**E.49-LEN100LU4P**							
	648	32	2.23	3 600	3.1	44	**2KJ4002 - ■ FL33 - ■ ■ D1**	
	737	28	1.96	3 400	3.6	44	**2KJ4002 - ■ FL33 - ■ ■ C1**	
	876	24	1.65	3 300	4.3	44	**2KJ4002 - ■ FL33 - ■ ■ B1**	
	1 003	21	1.44	3 100	4.9	44	**2KJ4002 - ■ FL33 - ■ ■ A1**	
	Z.49-LEN100LH4E							
	54	385	26.43	4 800	0.83	51	**2KJ4104 - ■ FM32 - ■ ■ T1**	
	59	355	24.39	4 700	0.9	51	**2KJ4104 - ■ FM32 - ■ ■ S1**	
	64	325	22.27	4 700	0.98	51	**2KJ4104 - ■ FM32 - ■ ■ R1**	
	78	270	18.48	4 500	1.2	51	**2KJ4104 - ■ FM32 - ■ ■ Q1**	
	83	255	17.39	3 900	1.3	51	**2KJ4104 - ■ FM32 - ■ ■ P1**	
	87	240	16.42	4 100	1.3	51	**2KJ4104 - ■ FM32 - ■ ■ N1**	
	103	205	13.98	4 300	1.6	51	**2KJ4104 - ■ FM32 - ■ ■ M1**	
	120	175	11.97	4 100	1.8	51	**2KJ4104 - ■ FM32 - ■ ■ L1**	
	136	154	10.53	4 000	2.1	51	**2KJ4104 - ■ FM32 - ■ ■ K1**	
	162	130	8.88	3 900	2.5	51	**2KJ4104 - ■ FM32 - ■ ■ J1**	
	185	113	7.74	3 700	2.8	51	**2KJ4104 - ■ FM32 - ■ ■ H1**	
	188	112	7.64	3 700	2.6	51	**2KJ4104 - ■ FM32 - ■ ■ G1**	
	199	106	7.21	3 600	2.7	51	**2KJ4104 - ■ FM32 - ■ ■ F1**	
	234	90	6.14	3 500	2.9	51	**2KJ4104 - ■ FM32 - ■ ■ E1**	
	273	77	5.26	3 300	3.2	51	**2KJ4104 - ■ FM32 - ■ ■ D1**	
	311	68	4.62	3 200	3.3	51	**2KJ4104 - ■ FM32 - ■ ■ C1**	
	368	57	3.9	3 100	3.6	51	**2KJ4104 - ■ FM32 - ■ ■ B1**	
	422	50	3.4	2 900	3.8	51	**2KJ4104 - ■ FM32 - ■ ■ A1**	
	Z.49-LEN100LU4P							
	55	380	26.43	4 800	0.83	48	**2KJ4104 - ■ FL33 - ■ ■ T1**	
	59	355	24.39	4 700	0.9	48	**2KJ4104 - ■ FL33 - ■ ■ S1**	
	65	320	22.27	4 700	0.99	48	**2KJ4104 - ■ FL33 - ■ ■ R1**	
	78	265	18.48	4 500	1.2	48	**2KJ4104 - ■ FL33 - ■ ■ Q1**	
	83	250	17.39	4 100	1.3	48	**2KJ4104 - ■ FL33 - ■ ■ P1**	
	88	235	16.42	4 200	1.3	48	**2KJ4104 - ■ FL33 - ■ ■ N1**	
	103	200	13.98	4 300	1.6	48	**2KJ4104 - ■ FL33 - ■ ■ M1**	
	121	174	11.97	4 100	1.8	48	**2KJ4104 - ■ FL33 - ■ ■ L1**	
	137	153	10.53	4 000	2.1	48	**2KJ4104 - ■ FL33 - ■ ■ K1**	
	163	129	8.88	3 900	2.5	48	**2KJ4104 - ■ FL33 - ■ ■ J1**	
	187	113	7.74	3 700	2.8	48	**2KJ4104 - ■ FL33 - ■ ■ H1**	
	189	111	7.64	3 700	2.7	48	**2KJ4104 - ■ FL33 - ■ ■ G1**	
	200	105	7.21	3 600	2.8	48	**2KJ4104 - ■ FL33 - ■ ■ F1**	
	235	89	6.14	3 500	3.0	48	**2KJ4104 - ■ FL33 - ■ ■ E1**	
	275	76	5.26	3 300	3.2	48	**2KJ4104 - ■ FL33 - ■ ■ D1**	
	313	67	4.62	3 200	3.3	48	**2KJ4104 - ■ FL33 - ■ ■ C1**	
	371	57	3.9	3 100	3.6	48	**2KJ4104 - ■ FL33 - ■ ■ B1**	
	425	49	3.4	2 900	3.9	48	**2KJ4104 - ■ FL33 - ■ ■ A1**	
	Z.59-LEN100LH4E							
	40	520	35.74	6 400	0.86	53	**2KJ4105 - ■ FM32 - ■ ■ U1**	
	45	465	32.05	5 900	0.96	53	**2KJ4105 - ■ FM32 - ■ ■ T1**	
	50	420	28.89	6 200	1.1	53	**2KJ4105 - ■ FM32 - ■ ■ S1**	
	54	390	26.66	6 100	1.2	53	**2KJ4105 - ■ FM32 - ■ ■ R1**	
	59	355	24.34	6 000	1.3	53	**2KJ4105 - ■ FM32 - ■ ■ Q1**	
	71	295	20.2	5 800	1.5	53	**2KJ4105 - ■ FM32 - ■ ■ P1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**Z.59-LEN100LH4E**							
	75	275	19.01	5 800	1.6	53	**2KJ4105 - ■ FM32 - ■ ■ N1**	
	80	260	17.95	5 700	1.7	53	**2KJ4105 - ■ FM32 - ■ ■ M1**	
	94	220	15.27	5 500	2.0	53	**2KJ4105 - ■ FM32 - ■ ■ L1**	
	110	192	13.09	5 300	2.3	53	**2KJ4105 - ■ FM32 - ■ ■ K1**	
	125	169	11.51	5 100	2.7	53	**2KJ4105 - ■ FM32 - ■ ■ J1**	
	148	142	9.71	4 900	3.2	53	**2KJ4105 - ■ FM32 - ■ ■ H1**	
	170	124	8.46	4 700	3.6	53	**2KJ4105 - ■ FM32 - ■ ■ G1**	
	178	118	8.07	4 600	3.5	53	**2KJ4105 - ■ FM32 - ■ ■ F1**	
	209	100	6.86	4 400	4.1	53	**2KJ4105 - ■ FM32 - ■ ■ E1**	
	Z.59-LEN100LU4P							
	40	520	35.74	6 400	0.87	50	**2KJ4105 - ■ FL33 - ■ ■ U1**	
	45	465	32.05	5 900	0.97	50	**2KJ4105 - ■ FL33 - ■ ■ T1**	
	50	420	28.89	6 200	1.1	50	**2KJ4105 - ■ FL33 - ■ ■ S1**	
	54	385	26.66	6 100	1.2	50	**2KJ4105 - ■ FL33 - ■ ■ R1**	
	59	350	24.34	6 100	1.3	50	**2KJ4105 - ■ FL33 - ■ ■ Q1**	
	72	290	20.2	5 800	1.5	50	**2KJ4105 - ■ FL33 - ■ ■ P1**	
	76	275	19.01	5 800	1.6	50	**2KJ4105 - ■ FL33 - ■ ■ N1**	
	81	260	17.95	5 700	1.7	50	**2KJ4105 - ■ FL33 - ■ ■ M1**	
	95	220	15.27	5 500	2.0	50	**2KJ4105 - ■ FL33 - ■ ■ L1**	
	110	190	13.09	5 300	2.4	50	**2KJ4105 - ■ FL33 - ■ ■ K1**	
	126	167	11.51	5 100	2.7	50	**2KJ4105 - ■ FL33 - ■ ■ J1**	
	149	141	9.71	4 900	3.2	50	**2KJ4105 - ■ FL33 - ■ ■ H1**	
	171	123	8.46	4 700	3.7	50	**2KJ4105 - ■ FL33 - ■ ■ G1**	
	179	117	8.07	4 600	3.5	50	**2KJ4105 - ■ FL33 - ■ ■ F1**	
	211	100	6.86	4 400	4.1	50	**2KJ4105 - ■ FL33 - ■ ■ E1**	
	D.69-LEN100LH4E							
	31	670	46.01	10 800	0.89	58	**2KJ4206 - ■ FM32 - ■ ■ A1**	
	D.69-LEN100LU4P							
	31	665	46.01	10 800	0.9	55	**2KJ4206 - ■ FL33 - ■ ■ A1**	
	E.69-LEN100LH4E							
	189	111	7.58	6 100	1.8	54	**2KJ4003 - ■ FM32 - ■ ■ Q1**	
	210	100	6.82	6 100	1.7	54	**2KJ4003 - ■ FM32 - ■ ■ P1**	
	233	90	6.17	6 100	2.3	54	**2KJ4003 - ■ FM32 - ■ ■ N1**	
	252	83	5.69	6 100	2.0	54	**2KJ4003 - ■ FM32 - ■ ■ M1**	
	275	76	5.21	6 100	2.6	54	**2KJ4003 - ■ FM32 - ■ ■ L1**	
	328	64	4.38	6 100	3.1	54	**2KJ4003 - ■ FM32 - ■ ■ K1**	
	348	60	4.12	6 100	2.7	54	**2KJ4003 - ■ FM32 - ■ ■ J1**	
	380	55	3.78	6 100	3.6	54	**2KJ4003 - ■ FM32 - ■ ■ H1**	
	435	48	3.3	6 100	4.1	54	**2KJ4003 - ■ FM32 - ■ ■ G1**	
	486	43	2.95	6 100	4.6	54	**2KJ4003 - ■ FM32 - ■ ■ F1**	
	556	38	2.58	6 100	5.2	54	**2KJ4003 - ■ FM32 - ■ ■ E1**	
	646	32	2.22	6 100	6.0	54	**2KJ4003 - ■ FM32 - ■ ■ D1**	
	E.69-LEN100LU4P							
	191	110	7.58	6 100	1.9	51	**2KJ4003 - ■ FL33 - ■ ■ Q1**	
	212	99	6.82	6 100	1.7	51	**2KJ4003 - ■ FL33 - ■ ■ P1**	
	234	90	6.17	6 100	2.3	51	**2KJ4003 - ■ FL33 - ■ ■ N1**	
	254	83	5.69	6 100	2.0	51	**2KJ4003 - ■ FL33 - ■ ■ M1**	
	277	76	5.21	6 100	2.6	51	**2KJ4003 - ■ FL33 - ■ ■ L1**	
	330	64	4.38	6 100	3.1	51	**2KJ4003 - ■ FL33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**E.69-LEN100LU4P**							
	351	60	4.12	6 100	2.8	51	**2KJ4003 - ■ FL33 - ■ ■ J1**	
	382	55	3.78	6 100	3.6	51	**2KJ4003 - ■ FL33 - ■ ■ H1**	
	438	48	3.3	6 100	4.2	51	**2KJ4003 - ■ FL33 - ■ ■ G1**	
	490	43	2.95	6 100	4.7	51	**2KJ4003 - ■ FL33 - ■ ■ F1**	
	560	38	2.58	6 100	5.3	51	**2KJ4003 - ■ FL33 - ■ ■ E1**	
	651	32	2.22	6 100	6.1	51	**2KJ4003 - ■ FL33 - ■ ■ D1**	
	Z.69-LEN100LH4E							
	38	560	38.24	11 000	1.1	58	**2KJ4106 - ■ FM32 - ■ ■ U1**	
	42	500	34.29	11 100	1.2	58	**2KJ4106 - ■ FM32 - ■ ■ T1**	
	46	450	30.9	11 200	1.3	58	**2KJ4106 - ■ FM32 - ■ ■ S1**	
	50	415	28.53	11 200	1.4	58	**2KJ4106 - ■ FM32 - ■ ■ R1**	
	55	380	26.04	11 300	1.6	58	**2KJ4106 - ■ FM32 - ■ ■ Q1**	
	66	315	21.61	11 400	1.9	58	**2KJ4106 - ■ FM32 - ■ ■ P1**	
	71	295	20.34	11 400	2.0	58	**2KJ4106 - ■ FM32 - ■ ■ N1**	
	75	280	19.21	11 500	2.1	58	**2KJ4106 - ■ FM32 - ■ ■ M1**	
	88	235	16.34	11 100	2.5	58	**2KJ4106 - ■ FM32 - ■ ■ L1**	
	102	205	14	10 600	2.9	58	**2KJ4106 - ■ FM32 - ■ ■ K1**	
	117	180	12.31	10 200	3.3	58	**2KJ4106 - ■ FM32 - ■ ■ J1**	
	138	152	10.39	9 700	3.9	58	**2KJ4106 - ■ FM32 - ■ ■ H1**	
	169	124	8.5	9 100	3.6	58	**2KJ4106 - ■ FM32 - ■ ■ F1**	
	198	106	7.23	8 600	4.2	58	**2KJ4106 - ■ FM32 - ■ ■ E1**	
	Z.69-LEN100LU4P							
	38	555	38.24	11 000	1.1	55	**2KJ4106 - ■ FL33 - ■ ■ U1**	
	42	495	34.29	11 100	1.2	55	**2KJ4106 - ■ FL33 - ■ ■ T1**	
	47	445	30.9	11 200	1.3	55	**2KJ4106 - ■ FL33 - ■ ■ S1**	
	51	415	28.53	11 200	1.4	55	**2KJ4106 - ■ FL33 - ■ ■ R1**	
	55	375	26.04	11 300	1.6	55	**2KJ4106 - ■ FL33 - ■ ■ Q1**	
	67	310	21.61	11 400	1.9	55	**2KJ4106 - ■ FL33 - ■ ■ P1**	
	71	295	20.34	11 400	2.0	55	**2KJ4106 - ■ FL33 - ■ ■ N1**	
	75	275	19.21	11 500	2.1	55	**2KJ4106 - ■ FL33 - ■ ■ M1**	
	88	235	16.34	11 000	2.5	55	**2KJ4106 - ■ FL33 - ■ ■ L1**	
	103	200	14	10 500	2.9	55	**2KJ4106 - ■ FL33 - ■ ■ K1**	
	117	179	12.31	10 100	3.4	55	**2KJ4106 - ■ FL33 - ■ ■ J1**	
	170	124	8.5	9 100	3.6	55	**2KJ4106 - ■ FL33 - ■ ■ F1**	
	200	105	7.23	8 600	4.3	55	**2KJ4106 - ■ FL33 - ■ ■ E1**	
	D.79-LEN100LH4E							
	22	975	66.67	11 900	0.86	68	**2KJ4207 - ■ FM32 - ■ ■ C1**	
	26	820	56.25	13 400	1.0	68	**2KJ4207 - ■ FM32 - ■ ■ B1**	
	29	715	49.02	13 500	1.2	68	**2KJ4207 - ■ FM32 - ■ ■ A1**	
	D.79-LEN100LU4P							
	22	965	66.67	12 000	0.87	65	**2KJ4207 - ■ FL33 - ■ ■ C1**	
	26	815	56.25	13 400	1.0	65	**2KJ4207 - ■ FL33 - ■ ■ B1**	
	29	710	49.02	13 500	1.2	65	**2KJ4207 - ■ FL33 - ■ ■ A1**	
	Z.79-LEN100LH4E							
	32	650	44.42	13 600	1.3	67	**2KJ4107 - ■ FM32 - ■ ■ W1**	
	36	585	39.94	13 700	1.4	67	**2KJ4107 - ■ FM32 - ■ ■ V1**	
	40	525	36.12	13 800	1.6	67	**2KJ4107 - ■ FM32 - ■ ■ U1**	
	43	485	33.34	13 800	1.7	67	**2KJ4107 - ■ FM32 - ■ ■ T1**	
	47	445	30.54	13 900	1.9	67	**2KJ4107 - ■ FM32 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**Z.79-LEN100LH4E**							
	56	375	25.62	14 000	2.2	67	**2KJ4107 - ■ FM32 - ■ ■ R1**	
	59	350	24.12	14 000	2.4	67	**2KJ4107 - ■ FM32 - ■ ■ Q1**	
	65	320	22.13	14 100	2.6	67	**2KJ4107 - ■ FM32 - ■ ■ P1**	
	74	280	19.33	13 700	3.0	67	**2KJ4107 - ■ FM32 - ■ ■ N1**	
	83	250	17.31	13 300	3.3	67	**2KJ4107 - ■ FM32 - ■ ■ M1**	
	Z.79-LEN100LU4P							
	33	645	44.42	13 600	1.3	64	**2KJ4107 - ■ FL33 - ■ ■ W1**	
	36	580	39.94	13 700	1.4	64	**2KJ4107 - ■ FL33 - ■ ■ V1**	
	40	525	36.12	13 800	1.6	64	**2KJ4107 - ■ FL33 - ■ ■ U1**	
	43	485	33.34	13 800	1.7	64	**2KJ4107 - ■ FL33 - ■ ■ T1**	
	47	440	30.54	13 900	1.9	64	**2KJ4107 - ■ FL33 - ■ ■ S1**	
	56	370	25.62	14 000	2.3	64	**2KJ4107 - ■ FL33 - ■ ■ R1**	
	60	350	24.12	14 000	2.4	64	**2KJ4107 - ■ FL33 - ■ ■ Q1**	
	65	320	22.13	14 100	2.6	64	**2KJ4107 - ■ FL33 - ■ ■ P1**	
	75	280	19.33	13 700	3.0	64	**2KJ4107 - ■ FL33 - ■ ■ N1**	
	83	250	17.31	13 200	3.3	64	**2KJ4107 - ■ FL33 - ■ ■ M1**	
	D.89-LEN100LH4E							
	10	2 020	137.97	18 400	0.83	91	**2KJ4208 - ■ FM32 - ■ ■ J1**	
	11	1 850	126.58	18 500	0.91	91	**2KJ4208 - ■ FM32 - ■ ■ H1**	
	13	1 610	110.57	18 500	1.0	91	**2KJ4208 - ■ FM32 - ■ ■ G1**	
	14	1 440	98.99	18 500	1.2	91	**2KJ4208 - ■ FM32 - ■ ■ F1**	
	17	1 260	86.56	18 500	1.3	91	**2KJ4208 - ■ FM32 - ■ ■ E1**	
	19	1 080	74.3	18 500	1.5	91	**2KJ4208 - ■ FM32 - ■ ■ D1**	
	22	960	65.67	18 500	1.7	91	**2KJ4208 - ■ FM32 - ■ ■ C1**	
	D.89-LEN100LU4P							
	10	2 000	137.97	18 500	0.84	88	**2KJ4208 - ■ FL33 - ■ ■ J1**	
	11	1 840	126.58	18 500	0.91	88	**2KJ4208 - ■ FL33 - ■ ■ H1**	
	13	1 600	110.57	18 500	1.0	88	**2KJ4208 - ■ FL33 - ■ ■ G1**	
	15	1 430	98.99	18 500	1.2	88	**2KJ4208 - ■ FL33 - ■ ■ F1**	
	17	1 250	86.56	18 500	1.3	88	**2KJ4208 - ■ FL33 - ■ ■ E1**	
	19	1 080	74.3	18 500	1.6	88	**2KJ4208 - ■ FL33 - ■ ■ D1**	
	22	955	65.67	18 500	1.8	88	**2KJ4208 - ■ FL33 - ■ ■ C1**	
	E.89-LEN100LH4E							
	148	142	9.67	8 000	2.0	68	**2KJ4004 - ■ FM32 - ■ ■ T1**	
	164	128	8.73	8 000	2.2	68	**2KJ4004 - ■ FM32 - ■ ■ S1**	
	181	116	7.92	8 000	2.4	68	**2KJ4004 - ■ FM32 - ■ ■ R1**	
	196	107	7.31	8 000	2.4	68	**2KJ4004 - ■ FM32 - ■ ■ Q1**	
	216	97	6.64	8 000	2.7	68	**2KJ4004 - ■ FM32 - ■ ■ P1**	
	255	82	5.62	8 000	3.9	68	**2KJ4004 - ■ FM32 - ■ ■ N1**	
	271	78	5.29	8 000	2.7	68	**2KJ4004 - ■ FM32 - ■ ■ M1**	
	293	72	4.89	8 000	5.0	68	**2KJ4004 - ■ FM32 - ■ ■ L1**	
	E.89-LEN100LU4P							
	149	141	9.67	8 000	2.0	65	**2KJ4004 - ■ FL33 - ■ ■ T1**	
	166	127	8.73	8 000	2.2	65	**2KJ4004 - ■ FL33 - ■ ■ S1**	
	182	115	7.92	8 000	2.4	65	**2KJ4004 - ■ FL33 - ■ ■ R1**	
	198	106	7.31	8 000	2.4	65	**2KJ4004 - ■ FL33 - ■ ■ Q1**	
	218	96	6.64	8 000	2.7	65	**2KJ4004 - ■ FL33 - ■ ■ P1**	
	257	82	5.62	8 000	3.9	65	**2KJ4004 - ■ FL33 - ■ ■ N1**	
	273	77	5.29	8 000	2.7	65	**2KJ4004 - ■ FL33 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**Z.89-LEN100LH4E**							
	25	840	57.36	18 500	2.0	90	**2KJ4108 - ■ FM32 - ■ ■ A2**	
	28	755	51.78	18 500	2.2	90	**2KJ4108 - ■ FM32 - ■ ■ X1**	
	31	685	46.97	18 500	2.4	90	**2KJ4108 - ■ FM32 - ■ ■ W1**	
	33	635	43.36	18 500	2.6	90	**2KJ4108 - ■ FM32 - ■ ■ V1**	
	Z.89-LEN100LU4P							
	25	830	57.36	18 500	2.0	87	**2KJ4108 - ■ FL33 - ■ ■ A2**	
	28	750	51.78	18 500	2.2	87	**2KJ4108 - ■ FL33 - ■ ■ X1**	
	31	680	46.97	18 500	2.5	87	**2KJ4108 - ■ FL33 - ■ ■ W1**	
	D.109-LEN100LH4E							
	5.4	3 860	263.74	20 000	0.8	133	**2KJ4210 - ■ FM32 - ■ ■ Q1**	
	6	3 510	239.75	20 200	0.88	133	**2KJ4210 - ■ FM32 - ■ ■ P1**	
	7.1	2 970	203.01	20 200	1.0	133	**2KJ4210 - ■ FM32 - ■ ■ N1**	
	7.5	2 790	191.07	20 200	1.1	133	**2KJ4210 - ■ FM32 - ■ ■ M1**	
	8.1	2 580	176.45	20 200	1.2	133	**2KJ4210 - ■ FM32 - ■ ■ L1**	
	9.1	2 290	157	20 200	1.3	133	**2KJ4210 - ■ FM32 - ■ ■ K1**	
	10	2 040	139.44	20 200	1.5	133	**2KJ4210 - ■ FM32 - ■ ■ J1**	
	11	1 820	124.82	20 200	1.7	133	**2KJ4210 - ■ FM32 - ■ ■ H1**	
	13	1 560	106.7	20 200	2.0	133	**2KJ4210 - ■ FM32 - ■ ■ G1**	
	15	1 390	95.28	20 200	2.2	133	**2KJ4210 - ■ FM32 - ■ ■ F1**	
	D.109-LEN100LU4P							
	5.5	3 830	263.74	20 000	0.81	130	**2KJ4210 - ■ FL33 - ■ ■ Q1**	
	6	3 480	239.75	20 200	0.89	130	**2KJ4210 - ■ FL33 - ■ ■ P1**	
	7.1	2 950	203.01	20 200	1.1	130	**2KJ4210 - ■ FL33 - ■ ■ N1**	
	7.6	2 770	191.07	20 200	1.1	130	**2KJ4210 - ■ FL33 - ■ ■ M1**	
	8.2	2 560	176.45	20 200	1.2	130	**2KJ4210 - ■ FL33 - ■ ■ L1**	
	9.2	2 280	157	20 200	1.4	130	**2KJ4210 - ■ FL33 - ■ ■ K1**	
	10	2 020	139.44	20 200	1.5	130	**2KJ4210 - ■ FL33 - ■ ■ J1**	
	12	1 810	124.82	20 200	1.7	130	**2KJ4210 - ■ FL33 - ■ ■ H1**	
	14	1 550	106.7	20 200	2.0	130	**2KJ4210 - ■ FL33 - ■ ■ G1**	
	15	1 380	95.28	20 200	2.2	130	**2KJ4210 - ■ FL33 - ■ ■ F1**	
	D.129-LEN100LH4E							
	3.8	5 460	373	26 700	0.92	197	**2KJ4211 - ■ FM32 - ■ ■ S1**	
	4.2	5 030	344.17	27 000	0.99	197	**2KJ4211 - ■ FM32 - ■ ■ R1**	
	4.5	4 640	316.9	27 200	1.1	197	**2KJ4211 - ■ FM32 - ■ ■ Q1**	
	5.3	3 950	270.24	27 600	1.3	197	**2KJ4211 - ■ FM32 - ■ ■ P1**	
	5.6	3 720	254.34	27 800	1.3	197	**2KJ4211 - ■ FM32 - ■ ■ N1**	
	6.1	3 450	236.03	27 900	1.4	197	**2KJ4211 - ■ FM32 - ■ ■ M1**	
	6.9	3 050	208.67	28 200	1.6	197	**2KJ4211 - ■ FM32 - ■ ■ L1**	
	7.7	2 720	186.28	28 400	1.8	197	**2KJ4211 - ■ FM32 - ■ ■ K1**	
	8.6	2 450	167.63	28 500	2.0	197	**2KJ4211 - ■ FM32 - ■ ■ J1**	
	D.129-LEN100LU4P							
	3.9	5 420	373	26 800	0.92	194	**2KJ4211 - ■ FL33 - ■ ■ S1**	
	4.2	5 000	344.17	27 000	1.0	194	**2KJ4211 - ■ FL33 - ■ ■ R1**	
	4.6	4 600	316.9	27 300	1.1	194	**2KJ4211 - ■ FL33 - ■ ■ Q1**	
	5.3	3 920	270.24	27 600	1.3	194	**2KJ4211 - ■ FL33 - ■ ■ P1**	
	5.7	3 690	254.34	27 800	1.4	194	**2KJ4211 - ■ FL33 - ■ ■ N1**	
	6.1	3 430	236.03	27 900	1.5	194	**2KJ4211 - ■ FL33 - ■ ■ M1**	
	6.9	3 030	208.67	28 200	1.6	194	**2KJ4211 - ■ FL33 - ■ ■ L1**	
	7.8	2 700	186.28	28 400	1.8	194	**2KJ4211 - ■ FL33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**D.129-LEN100LU4P**							
	8.6	2 430	167.63	28 500	2.1	194	**2KJ4211 - ■ FL33 - ■ ■ J1**	
	D.129-LEN112MH6E							
	3.5	5 970	270.24	26 500	0.84	205	**2KJ4211 - ■ GJ32 - ■ ■ P1**	**P01**
	D.129-LEN112MP6P							
	3.5	6 000	270.24	26 400	0.83	194	**2KJ4211 - ■ GH33 - ■ ■ P1**	**P01**
	D.149-LEN100LH4E							
	4.4	4 800	328.38	52 700	1.7	281	**2KJ4212 - ■ FM32 - ■ ■ W1**	
	5.1	4 110	281.04	53 000	1.9	281	**2KJ4212 - ■ FM32 - ■ ■ V1**	
	5.4	3 870	264.51	53 100	2.1	281	**2KJ4212 - ■ FM32 - ■ ■ U1**	
	D.149-LEN100LU4P							
	4.4	4 770	328.38	52 700	1.7	278	**2KJ4212 - ■ FL33 - ■ ■ W1**	
	5.1	4 080	281.04	53 000	2.0	278	**2KJ4212 - ■ FL33 - ■ ■ V1**	
	5.5	3 840	264.51	53 100	2.1	278	**2KJ4212 - ■ FL33 - ■ ■ U1**	
	D.149-LEN112MH6E							
	2.9	7 260	328.38	51 500	1.1	291	**2KJ4212 - ■ GJ32 - ■ ■ W1**	**P01**
	3.4	6 210	281.04	52 000	1.3	291	**2KJ4212 - ■ GJ32 - ■ ■ V1**	**P01**
	3.6	5 850	264.51	52 200	1.4	291	**2KJ4212 - ■ GJ32 - ■ ■ U1**	**P01**
	3.8	5 480	247.95	52 400	1.5	291	**2KJ4212 - ■ GJ32 - ■ ■ T1**	**P01**
	D.149-LEN112MP6P							
	2.9	7 300	328.38	51 500	1.1	280	**2KJ4212 - ■ GH33 - ■ ■ W1**	**P01**
	3.4	6 240	281.04	52 000	1.3	280	**2KJ4212 - ■ GH33 - ■ ■ V1**	**P01**
	3.6	5 880	264.51	52 200	1.4	280	**2KJ4212 - ■ GH33 - ■ ■ U1**	**P01**
	3.8	5 510	247.95	52 400	1.5	280	**2KJ4212 - ■ GH33 - ■ ■ T1**	**P01**
	D.169-LEN112MH6E							
	2.9	7 230	327.18	72 700	1.9	469	**2KJ4213 - ■ GJ32 - ■ ■ V1**	**P01**
	D.169-LEN112MP6P							
	2.9	7 270	327.18	72 600	1.9	458	**2KJ4213 - ■ GH33 - ■ ■ V1**	**P01**
	D.129-Z49-LEN100LH4E							
	3.2	6 130	446	26 400	0.81	225	**2KJ4237 - ■ FM32 - ■ ■ B1**	
	3.7	5 350	389	26 800	0.93	225	**2KJ4237 - ■ FM32 - ■ ■ A1**	
	D.129-Z49-LEN100LU4P							
	3.2	6 090	446	26 400	0.82	222	**2KJ4237 - ■ FL33 - ■ ■ B1**	
	3.7	5 310	389	26 800	0.94	222	**2KJ4237 - ■ FL33 - ■ ■ A1**	
	D.149-Z49-LEN100LH4E							
	2.1	9 310	677	50 500	0.86	301	**2KJ4240 - ■ FM32 - ■ ■ E1**	
	2.5	7 980	580	51 200	1.0	301	**2KJ4240 - ■ FM32 - ■ ■ D1**	
	2.8	7 020	510	51 600	1.1	301	**2KJ4240 - ■ FM32 - ■ ■ C1**	
	3.3	5 910	430	52 200	1.4	301	**2KJ4240 - ■ FM32 - ■ ■ B1**	
	3.8	5 160	375	52 500	1.5	301	**2KJ4240 - ■ FM32 - ■ ■ A1**	
	D.149-Z49-LEN100LU4P							
	2.1	9 250	677	50 600	0.86	298	**2KJ4240 - ■ FL33 - ■ ■ E1**	
	2.5	7 920	580	51 200	1.0	298	**2KJ4240 - ■ FL33 - ■ ■ D1**	
	2.8	6 970	510	51 600	1.1	298	**2KJ4240 - ■ FL33 - ■ ■ C1**	
	3.4	5 870	430	52 200	1.4	298	**2KJ4240 - ■ FL33 - ■ ■ B1**	
	3.9	5 120	375	52 500	1.6	298	**2KJ4240 - ■ FL33 - ■ ■ A1**	
	D.169-Z69-LEN100LH4E							
	1.1	17 500	1 273	68 800	0.8	490	**2KJ4242 - ■ FM32 - ■ ■ K1**	
	1.3	15 400	1 119	69 600	0.91	490	**2KJ4242 - ■ FM32 - ■ ■ J1**	
	1.5	12 900	944	70 500	1.1	490	**2KJ4242 - ■ FM32 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**D.169-Z69-LEN100LH4E**							
	1.7	11 300	823	71 100	1.2	490	**2KJ4242 - ■ FM32 - ■ ■ G1**	
	1.9	10 600	773	71 400	1.3	490	**2KJ4242 - ■ FM32 - ■ ■ F1**	
	2.2	9 050	658	72 000	1.5	490	**2KJ4242 - ■ FM32 - ■ ■ E1**	
	2.5	7 760	564	72 500	1.8	490	**2KJ4242 - ■ FM32 - ■ ■ D1**	
	D.169-Z69-LEN100LU4P							
	1.1	17 400	1 273	68 900	0.8	487	**2KJ4242 - ■ FL33 - ■ ■ K1**	
	1.3	15 200	1 119	69 700	0.92	487	**2KJ4242 - ■ FL33 - ■ ■ J1**	
	1.5	12 900	944	70 500	1.1	487	**2KJ4242 - ■ FL33 - ■ ■ H1**	
	1.8	11 200	823	71 100	1.2	487	**2KJ4242 - ■ FL33 - ■ ■ G1**	
	1.9	10 500	773	71 400	1.3	487	**2KJ4242 - ■ FL33 - ■ ■ F1**	
	2.2	8 990	658	72 000	1.6	487	**2KJ4242 - ■ FL33 - ■ ■ E1**	
	2.6	7 710	564	72 500	1.8	487	**2KJ4242 - ■ FL33 - ■ ■ D1**	
	D.189-Z69-LEN100LH4E							
	0.92	21 400	1 556	107 000	0.89	703	**2KJ4244 - ■ FM32 - ■ ■ L1**	
	1.1	18 300	1 333	107 000	1.0	703	**2KJ4244 - ■ FM32 - ■ ■ K1**	
	1.2	16 100	1 172	107 000	1.2	703	**2KJ4244 - ■ FM32 - ■ ■ J1**	
	1.5	13 600	989	107 000	1.4	703	**2KJ4244 - ■ FM32 - ■ ■ H1**	
	1.7	11 800	862	107 000	1.6	703	**2KJ4244 - ■ FM32 - ■ ■ G1**	
	1.8	11 100	810	107 000	1.7	703	**2KJ4244 - ■ FM32 - ■ ■ F1**	
	2.1	9 480	689	107 000	2.0	703	**2KJ4244 - ■ FM32 - ■ ■ E1**	
	D.189-Z69-LEN100LU4P							
	0.93	21 200	1 556	107 000	0.89	700	**2KJ4244 - ■ FL33 - ■ ■ L1**	
	1.1	18 200	1 333	107 000	1.0	700	**2KJ4244 - ■ FL33 - ■ ■ K1**	
	1.2	16 000	1 172	107 000	1.2	700	**2KJ4244 - ■ FL33 - ■ ■ J1**	
	1.5	13 500	989	107 000	1.4	700	**2KJ4244 - ■ FL33 - ■ ■ H1**	
	1.7	11 700	862	107 000	1.6	700	**2KJ4244 - ■ FL33 - ■ ■ G1**	
	1.8	11 000	810	107 000	1.7	700	**2KJ4244 - ■ FL33 - ■ ■ F1**	
	2.1	9 410	689	107 000	2.0	700	**2KJ4244 - ■ FL33 - ■ ■ E1**	
3	**Z.29-LEN100LN4E**							
	171	168	8.4	100	0.82	41	**2KJ4102 - ■ FP32 - ■ ■ J1**	
	197	146	7.29	400	0.89	41	**2KJ4102 - ■ FP32 - ■ ■ H1**	
	237	121	6.06	300	0.83	41	**2KJ4102 - ■ FP32 - ■ ■ F1**	
	270	106	5.31	600	0.86	41	**2KJ4102 - ■ FP32 - ■ ■ E1**	
	298	96	4.82	700	0.89	41	**2KJ4102 - ■ FP32 - ■ ■ D1**	
	316	91	4.54	800	0.93	41	**2KJ4102 - ■ FP32 - ■ ■ C1**	
	359	80	4	1 000	0.95	41	**2KJ4102 - ■ FP32 - ■ ■ B1**	
	414	69	3.47	1 200	1.0	41	**2KJ4102 - ■ FP32 - ■ ■ A1**	
	Z.29-LEN100LZ4P							
	173	166	8.4	100	0.83	31	**2KJ4102 - ■ FM33 - ■ ■ J1**	
	199	144	7.29	500	0.9	31	**2KJ4102 - ■ FM33 - ■ ■ H1**	
	239	120	6.06	300	0.84	31	**2KJ4102 - ■ FM33 - ■ ■ F1**	
	273	105	5.31	600	0.87	31	**2KJ4102 - ■ FM33 - ■ ■ E1**	
	301	95	4.82	800	0.9	31	**2KJ4102 - ■ FM33 - ■ ■ D1**	
	319	90	4.54	800	0.94	31	**2KJ4102 - ■ FM33 - ■ ■ C1**	
	362	79	4	1 000	0.96	31	**2KJ4102 - ■ FM33 - ■ ■ B1**	
	418	69	3.47	1 200	1.0	31	**2KJ4102 - ■ FM33 - ■ ■ A1**	
	E.39-LEN100LN4E							
	401	72	3.58	1 700	0.81	44	**2KJ4001 - ■ FP32 - ■ ■ J1**	
	434	66	3.31	1 900	0.88	44	**2KJ4001 - ■ FP32 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**E.39-LEN100LN4E**							
	490	58	2.93	2 000	1.1	44	**2KJ4001 - ■ FP32 - ■ ■ G1**	
	697	41	2.06	2 200	1.6	44	**2KJ4001 - ■ FP32 - ■ ■ D1**	
	820	35	1.75	2 200	1.9	44	**2KJ4001 - ■ FP32 - ■ ■ C1**	
	957	30	1.5	2 200	2.0	44	**2KJ4001 - ■ FP32 - ■ ■ B1**	
	1 112	26	1.29	2 200	2.1	44	**2KJ4001 - ■ FP32 - ■ ■ A1**	
	E.39-LEN100LZ4P							
	405	71	3.58	1 800	0.82	34	**2KJ4001 - ■ FM33 - ■ ■ J1**	
	438	65	3.31	2 000	0.89	34	**2KJ4001 - ■ FM33 - ■ ■ H1**	
	495	58	2.93	2 000	1.1	34	**2KJ4001 - ■ FM33 - ■ ■ G1**	
	633	45	2.29	2 200	1.5	34	**2KJ4001 - ■ FM33 - ■ ■ E1**	
	704	41	2.06	2 200	1.6	34	**2KJ4001 - ■ FM33 - ■ ■ D1**	
	829	35	1.75	2 200	1.9	34	**2KJ4001 - ■ FM33 - ■ ■ C1**	
	967	30	1.5	2 200	2.1	34	**2KJ4001 - ■ FM33 - ■ ■ B1**	
	1 124	26	1.29	2 200	2.1	34	**2KJ4001 - ■ FM33 - ■ ■ A1**	
	Z.39-LEN100LN4E							
	135	210	10.62	400	0.8	43	**2KJ4103 - ■ FP32 - ■ ■ J1**	
	158	182	9.1	800	0.87	43	**2KJ4103 - ■ FP32 - ■ ■ H1**	
	183	157	7.84	1 200	0.95	43	**2KJ4103 - ■ FP32 - ■ ■ G1**	
	222	129	6.46	700	1.1	43	**2KJ4103 - ■ FP32 - ■ ■ F1**	
	236	121	6.08	900	1.2	43	**2KJ4103 - ■ FP32 - ■ ■ E1**	
	263	109	5.45	1 100	1.3	43	**2KJ4103 - ■ FP32 - ■ ■ D1**	
	309	93	4.64	1 400	1.4	43	**2KJ4103 - ■ FP32 - ■ ■ C1**	
	361	80	3.98	1 600	1.5	43	**2KJ4103 - ■ FP32 - ■ ■ B1**	
	418	68	3.43	1 700	1.6	43	**2KJ4103 - ■ FP32 - ■ ■ A1**	
	Z.39-LEN100LZ4P							
	137	210	10.62	400	0.81	33	**2KJ4103 - ■ FM33 - ■ ■ J1**	
	159	180	9.1	800	0.88	33	**2KJ4103 - ■ FM33 - ■ ■ H1**	
	185	155	7.84	1 200	0.96	33	**2KJ4103 - ■ FM33 - ■ ■ G1**	
	224	128	6.46	800	1.1	33	**2KJ4103 - ■ FM33 - ■ ■ F1**	
	238	120	6.08	900	1.2	33	**2KJ4103 - ■ FM33 - ■ ■ E1**	
	266	108	5.45	1 100	1.3	33	**2KJ4103 - ■ FM33 - ■ ■ D1**	
	312	92	4.64	1 400	1.4	33	**2KJ4103 - ■ FM33 - ■ ■ C1**	
	364	79	3.98	1 600	1.5	33	**2KJ4103 - ■ FM33 - ■ ■ B1**	
	423	68	3.43	1 700	1.7	33	**2KJ4103 - ■ FM33 - ■ ■ A1**	
	E.49-LEN100LN4E							
	236	121	6.08	4 000	0.86	51	**2KJ4002 - ■ FP32 - ■ ■ N1**	
	263	109	5.45	4 000	0.95	51	**2KJ4002 - ■ FP32 - ■ ■ M1**	
	292	98	4.92	4 000	1.0	51	**2KJ4002 - ■ FP32 - ■ ■ L1**	
	316	91	4.54	4 000	1.1	51	**2KJ4002 - ■ FP32 - ■ ■ K1**	
	347	83	4.14	4 000	1.2	51	**2KJ4002 - ■ FP32 - ■ ■ J1**	
	417	69	3.44	3 900	1.5	51	**2KJ4002 - ■ FP32 - ■ ■ H1**	
	443	65	3.24	3 900	1.6	51	**2KJ4002 - ■ FP32 - ■ ■ G1**	
	469	61	3.06	3 800	1.7	51	**2KJ4002 - ■ FP32 - ■ ■ F1**	
	552	52	2.6	3 600	2.0	51	**2KJ4002 - ■ FP32 - ■ ■ E1**	
	643	44	2.23	3 500	2.3	51	**2KJ4002 - ■ FP32 - ■ ■ D1**	
	732	39	1.96	3 400	2.6	51	**2KJ4002 - ■ FP32 - ■ ■ C1**	
	870	33	1.65	3 200	3.1	51	**2KJ4002 - ■ FP32 - ■ ■ B1**	
	997	29	1.44	3 100	3.5	51	**2KJ4002 - ■ FP32 - ■ ■ A1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
3	**E.49-LEN100LZ4P**							
	238	120	6.08	4 000	0.87	41	**2KJ4002 - ■ FM33 - ■ ■ N1**	
	266	108	5.45	4 000	0.96	41	**2KJ4002 - ■ FM33 - ■ ■ M1**	
	295	97	4.92	4 000	1.0	41	**2KJ4002 - ■ FM33 - ■ ■ L1**	
	319	90	4.54	4 000	1.1	41	**2KJ4002 - ■ FM33 - ■ ■ K1**	
	350	82	4.14	4 000	1.2	41	**2KJ4002 - ■ FM33 - ■ ■ J1**	
	422	68	3.44	3 900	1.5	41	**2KJ4002 - ■ FM33 - ■ ■ H1**	
	448	64	3.24	3 900	1.6	41	**2KJ4002 - ■ FM33 - ■ ■ G1**	
	474	60	3.06	3 800	1.7	41	**2KJ4002 - ■ FM33 - ■ ■ F1**	
	558	51	2.6	3 600	2.0	41	**2KJ4002 - ■ FM33 - ■ ■ E1**	
	650	44	2.23	3 500	2.3	41	**2KJ4002 - ■ FM33 - ■ ■ D1**	
	740	39	1.96	3 300	2.7	41	**2KJ4002 - ■ FM33 - ■ ■ C1**	
	879	33	1.65	3 200	3.2	41	**2KJ4002 - ■ FM33 - ■ ■ B1**	
	1 007	28	1.44	3 100	3.6	41	**2KJ4002 - ■ FM33 - ■ ■ A1**	
	Z.49-LEN100LN4E							
	78	365	18.48	4 200	0.87	55	**2KJ4104 - ■ FP32 - ■ ■ Q1**	
	83	345	17.39	4 100	0.92	55	**2KJ4104 - ■ FP32 - ■ ■ P1**	
	87	325	16.42	4 100	0.98	55	**2KJ4104 - ■ FP32 - ■ ■ N1**	
	103	275	13.98	4 000	1.1	55	**2KJ4104 - ■ FP32 - ■ ■ M1**	
	120	235	11.97	3 900	1.3	55	**2KJ4104 - ■ FP32 - ■ ■ L1**	
	136	210	10.53	3 500	1.5	55	**2KJ4104 - ■ FP32 - ■ ■ K1**	
	162	177	8.88	3 700	1.8	55	**2KJ4104 - ■ FP32 - ■ ■ J1**	
	185	155	7.74	3 600	2.1	55	**2KJ4104 - ■ FP32 - ■ ■ H1**	
	188	153	7.64	3 100	1.9	55	**2KJ4104 - ■ FP32 - ■ ■ G1**	
	199	144	7.21	3 300	2.0	55	**2KJ4104 - ■ FP32 - ■ ■ F1**	
	234	123	6.14	3 300	2.2	55	**2KJ4104 - ■ FP32 - ■ ■ E1**	
	273	105	5.26	3 200	2.3	55	**2KJ4104 - ■ FP32 - ■ ■ D1**	
	311	92	4.62	3 100	2.4	55	**2KJ4104 - ■ FP32 - ■ ■ C1**	
	368	78	3.9	3 000	2.6	55	**2KJ4104 - ■ FP32 - ■ ■ B1**	
	422	68	3.4	2 900	2.8	55	**2KJ4104 - ■ FP32 - ■ ■ A1**	
	Z.49-LEN100LZ4P							
	78	365	18.48	4 100	0.88	45	**2KJ4104 - ■ FM33 - ■ ■ Q1**	
	83	340	17.39	4 100	0.93	45	**2KJ4104 - ■ FM33 - ■ ■ P1**	
	88	320	16.42	4 100	0.99	45	**2KJ4104 - ■ FM33 - ■ ■ N1**	
	104	275	13.98	4 000	1.2	45	**2KJ4104 - ■ FM33 - ■ ■ M1**	
	121	235	11.97	3 900	1.4	45	**2KJ4104 - ■ FM33 - ■ ■ L1**	
	138	205	10.53	3 600	1.5	45	**2KJ4104 - ■ FM33 - ■ ■ K1**	
	163	175	8.88	3 700	1.8	45	**2KJ4104 - ■ FM33 - ■ ■ J1**	
	187	153	7.74	3 600	2.1	45	**2KJ4104 - ■ FM33 - ■ ■ H1**	
	190	151	7.64	3 200	2.0	45	**2KJ4104 - ■ FM33 - ■ ■ G1**	
	201	142	7.21	3 300	2.0	45	**2KJ4104 - ■ FM33 - ■ ■ F1**	
	236	121	6.14	3 300	2.2	45	**2KJ4104 - ■ FM33 - ■ ■ E1**	
	276	104	5.26	3 200	2.4	45	**2KJ4104 - ■ FM33 - ■ ■ D1**	
	314	91	4.62	3 100	2.5	45	**2KJ4104 - ■ FM33 - ■ ■ C1**	
	372	77	3.9	3 000	2.7	45	**2KJ4104 - ■ FM33 - ■ ■ B1**	
	426	67	3.4	2 900	2.8	45	**2KJ4104 - ■ FM33 - ■ ■ A1**	
	Z.59-LEN100LN4E							
	54	530	26.66	5 600	0.85	57	**2KJ4105 - ■ FP32 - ■ ■ R1**	
	59	485	24.34	5 500	0.93	57	**2KJ4105 - ■ FP32 - ■ ■ Q1**	

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**Z.59-LEN100LN4E**							
	71	400	20.2	5 100	1.1	57	**2KJ4105 - ■ FP32 - ■ ■ P1**	
	75	380	19.01	5 200	1.2	57	**2KJ4105 - ■ FP32 - ■ ■ N1**	
	80	355	17.95	5 300	1.3	57	**2KJ4105 - ■ FP32 - ■ ■ M1**	
	94	305	15.27	5 200	1.5	57	**2KJ4105 - ■ FP32 - ■ ■ L1**	
	110	260	13.09	5 000	1.7	57	**2KJ4105 - ■ FP32 - ■ ■ K1**	
	125	230	11.51	4 900	2.0	57	**2KJ4105 - ■ FP32 - ■ ■ J1**	
	148	194	9.71	4 700	2.3	57	**2KJ4105 - ■ FP32 - ■ ■ H1**	
	170	169	8.46	4 600	2.7	57	**2KJ4105 - ■ FP32 - ■ ■ G1**	
	178	161	8.07	4 500	2.5	57	**2KJ4105 - ■ FP32 - ■ ■ F1**	
	209	137	6.86	4 300	3.0	57	**2KJ4105 - ■ FP32 - ■ ■ E1**	
	244	117	5.88	4 100	3.5	57	**2KJ4105 - ■ FP32 - ■ ■ D1**	
	278	103	5.17	4 000	4.0	57	**2KJ4105 - ■ FP32 - ■ ■ C1**	
	329	87	4.36	3 800	4.7	57	**2KJ4105 - ■ FP32 - ■ ■ B1**	
	378	76	3.8	3 700	5.3	57	**2KJ4105 - ■ FP32 - ■ ■ A1**	
	Z.59-LEN100LZ4P							
	54	525	26.66	5 600	0.85	47	**2KJ4105 - ■ FM33 - ■ ■ R1**	
	60	480	24.34	5 500	0.94	47	**2KJ4105 - ■ FM33 - ■ ■ Q1**	
	72	395	20.2	5 100	1.1	47	**2KJ4105 - ■ FM33 - ■ ■ P1**	
	76	375	19.01	5 200	1.2	47	**2KJ4105 - ■ FM33 - ■ ■ N1**	
	81	355	17.95	5 300	1.3	47	**2KJ4105 - ■ FM33 - ■ ■ M1**	
	95	300	15.27	5 200	1.5	47	**2KJ4105 - ■ FM33 - ■ ■ L1**	
	111	255	13.09	5 000	1.7	47	**2KJ4105 - ■ FM33 - ■ ■ K1**	
	126	225	11.51	4 900	2.0	47	**2KJ4105 - ■ FM33 - ■ ■ J1**	
	149	192	9.71	4 700	2.3	47	**2KJ4105 - ■ FM33 - ■ ■ H1**	
	171	167	8.46	4 500	2.7	47	**2KJ4105 - ■ FM33 - ■ ■ G1**	
	180	159	8.07	4 500	2.6	47	**2KJ4105 - ■ FM33 - ■ ■ F1**	
	211	136	6.86	4 300	3.0	47	**2KJ4105 - ■ FM33 - ■ ■ E1**	
	247	116	5.88	4 100	3.5	47	**2KJ4105 - ■ FM33 - ■ ■ D1**	
	280	102	5.17	4 000	4.0	47	**2KJ4105 - ■ FM33 - ■ ■ C1**	
	333	86	4.36	3 800	4.7	47	**2KJ4105 - ■ FM33 - ■ ■ B1**	
	382	75	3.8	3 700	5.4	47	**2KJ4105 - ■ FM33 - ■ ■ A1**	
	E.69-LEN100LN4E							
	189	151	7.58	6 100	1.4	58	**2KJ4003 - ■ FP32 - ■ ■ Q1**	
	210	136	6.82	6 100	1.2	58	**2KJ4003 - ■ FP32 - ■ ■ P1**	
	233	123	6.17	6 100	1.7	58	**2KJ4003 - ■ FP32 - ■ ■ N1**	
	252	114	5.69	6 100	1.5	58	**2KJ4003 - ■ FP32 - ■ ■ M1**	
	275	104	5.21	6 100	1.9	58	**2KJ4003 - ■ FP32 - ■ ■ L1**	
	328	87	4.38	6 100	2.3	58	**2KJ4003 - ■ FP32 - ■ ■ K1**	
	348	82	4.12	6 100	2.0	58	**2KJ4003 - ■ FP32 - ■ ■ J1**	
	380	76	3.78	6 100	2.7	58	**2KJ4003 - ■ FP32 - ■ ■ H1**	
	435	66	3.3	6 100	3.0	58	**2KJ4003 - ■ FP32 - ■ ■ G1**	
	486	59	2.95	6 100	3.4	58	**2KJ4003 - ■ FP32 - ■ ■ F1**	
	556	52	2.58	6 100	3.8	58	**2KJ4003 - ■ FP32 - ■ ■ E1**	
	646	44	2.22	6 100	4.4	58	**2KJ4003 - ■ FP32 - ■ ■ D1**	
	732	39	1.96	6 100	5.0	58	**2KJ4003 - ■ FP32 - ■ ■ C1**	
	859	33	1.67	6 100	5.9	58	**2KJ4003 - ■ FP32 - ■ ■ B1**	
	E.69-LEN100LZ4P							
	191	150	7.58	6 100	1.4	48	**2KJ4003 - ■ FM33 - ■ ■ Q1**	
	213	135	6.82	6 100	1.3	48	**2KJ4003 - ■ FM33 - ■ ■ P1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**E.69-LEN100LZ4P**							
	235	122	6.17	6 100	1.7	48	**2KJ4003 - ■ FM33 - ■ ■ N1**	
	255	112	5.69	6 100	1.5	48	**2KJ4003 - ■ FM33 - ■ ■ M1**	
	278	103	5.21	6 100	1.9	48	**2KJ4003 - ■ FM33 - ■ ■ L1**	
	331	86	4.38	6 100	2.3	48	**2KJ4003 - ■ FM33 - ■ ■ K1**	
	352	81	4.12	6 100	2.0	48	**2KJ4003 - ■ FM33 - ■ ■ J1**	
	384	75	3.78	6 100	2.7	48	**2KJ4003 - ■ FM33 - ■ ■ H1**	
	439	65	3.3	6 100	3.1	48	**2KJ4003 - ■ FM33 - ■ ■ G1**	
	492	58	2.95	6 100	3.4	48	**2KJ4003 - ■ FM33 - ■ ■ F1**	
	562	51	2.58	6 100	3.9	48	**2KJ4003 - ■ FM33 - ■ ■ E1**	
	653	44	2.22	6 100	4.5	48	**2KJ4003 - ■ FM33 - ■ ■ D1**	
	740	39	1.96	6 100	5.1	48	**2KJ4003 - ■ FM33 - ■ ■ C1**	
	868	33	1.67	6 100	5.9	48	**2KJ4003 - ■ FM33 - ■ ■ B1**	
	Z.69-LEN100LN4E							
	42	685	34.29	9 600	0.88	62	**2KJ4106 - ■ FP32 - ■ ■ T1**	
	46	615	30.9	10 200	0.97	62	**2KJ4106 - ■ FP32 - ■ ■ S1**	
	50	570	28.53	10 500	1.1	62	**2KJ4106 - ■ FP32 - ■ ■ R1**	
	55	520	26.04	10 900	1.2	62	**2KJ4106 - ■ FP32 - ■ ■ Q1**	
	66	430	21.61	11 200	1.4	62	**2KJ4106 - ■ FP32 - ■ ■ P1**	
	71	405	20.34	11 300	1.5	62	**2KJ4106 - ■ FP32 - ■ ■ N1**	
	75	380	19.21	11 200	1.6	62	**2KJ4106 - ■ FP32 - ■ ■ M1**	
	88	325	16.34	10 800	1.8	62	**2KJ4106 - ■ FP32 - ■ ■ L1**	
	102	280	14	10 300	2.1	62	**2KJ4106 - ■ FP32 - ■ ■ K1**	
	117	245	12.31	10 000	2.4	62	**2KJ4106 - ■ FP32 - ■ ■ J1**	
	138	205	10.39	9 500	2.9	62	**2KJ4106 - ■ FP32 - ■ ■ H1**	
	159	181	9.05	9 100	3.3	62	**2KJ4106 - ■ FP32 - ■ ■ G1**	
	169	170	8.5	8 900	2.6	62	**2KJ4106 - ■ FP32 - ■ ■ F1**	
	198	144	7.23	8 500	3.1	62	**2KJ4106 - ■ FP32 - ■ ■ E1**	
	231	124	6.2	8 100	3.6	62	**2KJ4106 - ■ FP32 - ■ ■ D1**	
	263	109	5.45	7 800	3.9	62	**2KJ4106 - ■ FP32 - ■ ■ C1**	
	312	92	4.6	7 400	4.9	62	**2KJ4106 - ■ FP32 - ■ ■ B1**	
	Z.69-LEN100LZ4P							
	42	675	34.29	9 700	0.89	52	**2KJ4106 - ■ FM33 - ■ ■ T1**	
	47	610	30.9	10 300	0.98	52	**2KJ4106 - ■ FM33 - ■ ■ S1**	
	51	560	28.53	10 700	1.1	52	**2KJ4106 - ■ FM33 - ■ ■ R1**	
	56	515	26.04	10 900	1.2	52	**2KJ4106 - ■ FM33 - ■ ■ Q1**	
	67	425	21.61	11 200	1.4	52	**2KJ4106 - ■ FM33 - ■ ■ P1**	
	71	400	20.34	11 300	1.5	52	**2KJ4106 - ■ FM33 - ■ ■ N1**	
	75	380	19.21	11 200	1.6	52	**2KJ4106 - ■ FM33 - ■ ■ M1**	
	89	320	16.34	10 700	1.9	52	**2KJ4106 - ■ FM33 - ■ ■ L1**	
	104	275	14	10 300	2.2	52	**2KJ4106 - ■ FM33 - ■ ■ K1**	
	118	240	12.31	9 900	2.5	52	**2KJ4106 - ■ FM33 - ■ ■ J1**	
	140	205	10.39	9 500	2.9	52	**2KJ4106 - ■ FM33 - ■ ■ H1**	
	160	179	9.05	9 100	3.3	52	**2KJ4106 - ■ FM33 - ■ ■ G1**	
	171	168	8.5	8 900	2.7	52	**2KJ4106 - ■ FM33 - ■ ■ F1**	
	201	143	7.23	8 500	3.1	52	**2KJ4106 - ■ FM33 - ■ ■ E1**	
	234	123	6.2	8 100	3.6	52	**2KJ4106 - ■ FM33 - ■ ■ D1**	
	266	108	5.45	7 800	4.0	52	**2KJ4106 - ■ FM33 - ■ ■ C1**	
	315	91	4.6	7 400	4.9	52	**2KJ4106 - ■ FM33 - ■ ■ B1**	

Article No. supplement		
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Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
3	**D.79-LEN100LN4E**							
	29	975	49.02	10 700	0.86	72	**2KJ4207 - ■ FP32 - ■ ■ A1**	
	D.79-LEN100LZ4P							
	30	965	49.02	10 700	0.87	62	**2KJ4207 - ■ FM33 - ■ ■ A1**	
	Z.79-LEN100LN4E							
	32	885	44.42	11 200	0.95	71	**2KJ4107 - ■ FP32 - ■ ■ W1**	
	36	795	39.94	11 700	1.1	71	**2KJ4107 - ■ FP32 - ■ ■ V1**	
	40	720	36.12	12 000	1.2	71	**2KJ4107 - ■ FP32 - ■ ■ U1**	
	43	665	33.34	12 300	1.3	71	**2KJ4107 - ■ FP32 - ■ ■ T1**	
	47	610	30.54	12 500	1.4	71	**2KJ4107 - ■ FP32 - ■ ■ S1**	
	56	510	25.62	12 700	1.6	71	**2KJ4107 - ■ FP32 - ■ ■ R1**	
	59	480	24.12	12 800	1.7	71	**2KJ4107 - ■ FP32 - ■ ■ Q1**	
	65	440	22.13	12 800	1.9	71	**2KJ4107 - ■ FP32 - ■ ■ P1**	
	74	385	19.33	12 800	2.2	71	**2KJ4107 - ■ FP32 - ■ ■ N1**	
	83	345	17.31	12 700	2.4	71	**2KJ4107 - ■ FP32 - ■ ■ M1**	
	95	300	15.13	12 500	2.8	71	**2KJ4107 - ■ FP32 - ■ ■ L1**	
	110	255	12.99	12 000	3.2	71	**2KJ4107 - ■ FP32 - ■ ■ K1**	
	125	225	11.48	11 500	3.7	71	**2KJ4107 - ■ FP32 - ■ ■ J1**	
	Z.79-LEN100LZ4P							
	33	875	44.42	11 300	0.96	61	**2KJ4107 - ■ FM33 - ■ ■ W1**	
	36	785	39.94	11 800	1.1	61	**2KJ4107 - ■ FM33 - ■ ■ V1**	
	40	710	36.12	12 100	1.2	61	**2KJ4107 - ■ FM33 - ■ ■ U1**	
	43	655	33.34	12 300	1.3	61	**2KJ4107 - ■ FM33 - ■ ■ T1**	
	47	600	30.54	12 500	1.4	61	**2KJ4107 - ■ FM33 - ■ ■ S1**	
	57	505	25.62	12 700	1.7	61	**2KJ4107 - ■ FM33 - ■ ■ R1**	
	60	475	24.12	12 800	1.8	61	**2KJ4107 - ■ FM33 - ■ ■ Q1**	
	66	435	22.13	12 800	1.9	61	**2KJ4107 - ■ FM33 - ■ ■ P1**	
	75	380	19.33	12 800	2.2	61	**2KJ4107 - ■ FM33 - ■ ■ N1**	
	84	340	17.31	12 700	2.5	61	**2KJ4107 - ■ FM33 - ■ ■ M1**	
	96	295	15.13	12 500	2.8	61	**2KJ4107 - ■ FM33 - ■ ■ L1**	
	112	255	12.99	11 900	3.3	61	**2KJ4107 - ■ FM33 - ■ ■ K1**	
	126	225	11.48	11 500	3.7	61	**2KJ4107 - ■ FM33 - ■ ■ J1**	
	D.89-LEN100LN4E							
	14	1 970	98.99	18 500	0.85	95	**2KJ4208 - ■ FP32 - ■ ■ F1**	
	17	1 720	86.56	18 500	0.97	95	**2KJ4208 - ■ FP32 - ■ ■ E1**	
	19	1 480	74.3	18 500	1.1	95	**2KJ4208 - ■ FP32 - ■ ■ D1**	
	22	1 310	65.67	18 500	1.3	95	**2KJ4208 - ■ FP32 - ■ ■ C1**	
	D.89-LEN100LZ4P							
	15	1 950	98.99	18 500	0.86	85	**2KJ4208 - ■ FM33 - ■ ■ F1**	
	17	1 710	86.56	18 500	0.98	85	**2KJ4208 - ■ FM33 - ■ ■ E1**	
	20	1 460	74.3	18 500	1.1	85	**2KJ4208 - ■ FM33 - ■ ■ D1**	
	22	1 290	65.67	18 500	1.3	85	**2KJ4208 - ■ FM33 - ■ ■ C1**	
	E.89-LEN100LN4E							
	148	193	9.67	8 000	1.5	72	**2KJ4004 - ■ FP32 - ■ ■ T1**	
	164	174	8.73	8 000	1.6	72	**2KJ4004 - ■ FP32 - ■ ■ S1**	
	181	158	7.92	8 000	1.8	72	**2KJ4004 - ■ FP32 - ■ ■ R1**	
	196	146	7.31	8 000	1.8	72	**2KJ4004 - ■ FP32 - ■ ■ Q1**	
	216	133	6.64	8 000	2.0	72	**2KJ4004 - ■ FP32 - ■ ■ P1**	
	255	112	5.62	8 000	2.9	72	**2KJ4004 - ■ FP32 - ■ ■ N1**	
	271	106	5.29	8 000	2.0	72	**2KJ4004 - ■ FP32 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**E.89-LEN100LN4E**							
	293	98	4.89	8 000	3.7	72	**2KJ4004 - ■ FP32 - ■ ■ L1**	
	330	87	4.35	8 000	4.1	72	**2KJ4004 - ■ FP32 - ■ ■ K1**	
	372	77	3.86	8 000	4.7	72	**2KJ4004 - ■ FP32 - ■ ■ J1**	
	415	69	3.46	8 000	5.3	72	**2KJ4004 - ■ FP32 - ■ ■ H1**	
	E.89-LEN100LZ4P							
	150	191	9.67	8 000	1.5	62	**2KJ4004 - ■ FM33 - ■ ■ T1**	
	166	172	8.73	8 000	1.6	62	**2KJ4004 - ■ FM33 - ■ ■ S1**	
	183	156	7.92	8 000	1.8	62	**2KJ4004 - ■ FM33 - ■ ■ R1**	
	198	144	7.31	8 000	1.8	62	**2KJ4004 - ■ FM33 - ■ ■ Q1**	
	218	131	6.64	8 000	2.0	62	**2KJ4004 - ■ FM33 - ■ ■ P1**	
	258	111	5.62	8 000	2.9	62	**2KJ4004 - ■ FM33 - ■ ■ N1**	
	274	105	5.29	8 000	2.0	62	**2KJ4004 - ■ FM33 - ■ ■ M1**	
	297	97	4.89	8 000	3.7	62	**2KJ4004 - ■ FM33 - ■ ■ L1**	
	333	86	4.35	8 000	4.2	62	**2KJ4004 - ■ FM33 - ■ ■ K1**	
	376	76	3.86	8 000	4.7	62	**2KJ4004 - ■ FM33 - ■ ■ J1**	
	419	68	3.46	8 000	5.3	62	**2KJ4004 - ■ FM33 - ■ ■ H1**	
	Z.89-LEN100LN4E							
	25	1 140	57.36	18 500	1.5	94	**2KJ4108 - ■ FP32 - ■ ■ A2**	
	28	1 030	51.78	18 500	1.6	94	**2KJ4108 - ■ FP32 - ■ ■ X1**	
	31	935	46.97	18 500	1.8	94	**2KJ4108 - ■ FP32 - ■ ■ W1**	
	33	865	43.36	18 500	1.9	94	**2KJ4108 - ■ FP32 - ■ ■ V1**	
	36	785	39.41	18 500	2.1	94	**2KJ4108 - ■ FP32 - ■ ■ U1**	
	43	665	33.38	18 500	2.5	94	**2KJ4108 - ■ FP32 - ■ ■ T1**	
	46	625	31.41	18 500	2.7	94	**2KJ4108 - ■ FP32 - ■ ■ S1**	
	Z.89-LEN100LZ4P							
	25	1 130	57.36	18 500	1.5	84	**2KJ4108 - ■ FM33 - ■ ■ A2**	
	28	1 020	51.78	18 500	1.6	84	**2KJ4108 - ■ FM33 - ■ ■ X1**	
	31	925	46.97	18 500	1.8	84	**2KJ4108 - ■ FM33 - ■ ■ W1**	
	33	855	43.36	18 500	2.0	84	**2KJ4108 - ■ FM33 - ■ ■ V1**	
	37	775	39.41	18 500	2.2	84	**2KJ4108 - ■ FM33 - ■ ■ U1**	
	43	660	33.38	18 500	2.5	84	**2KJ4108 - ■ FM33 - ■ ■ T1**	
	46	620	31.41	18 500	2.7	84	**2KJ4108 - ■ FM33 - ■ ■ S1**	
	D.109-LEN100LN4E							
	7.5	3 810	191.07	20 000	0.81	137	**2KJ4210 - ■ FP32 - ■ ■ M1**	
	8.1	3 520	176.45	20 200	0.88	137	**2KJ4210 - ■ FP32 - ■ ■ L1**	
	9.1	3 130	157	20 200	0.99	137	**2KJ4210 - ■ FP32 - ■ ■ K1**	
	10	2 780	139.44	20 200	1.1	137	**2KJ4210 - ■ FP32 - ■ ■ J1**	
	11	2 490	124.82	20 200	1.2	137	**2KJ4210 - ■ FP32 - ■ ■ H1**	
	13	2 130	106.7	20 200	1.5	137	**2KJ4210 - ■ FP32 - ■ ■ G1**	
	15	1 900	95.28	20 200	1.6	137	**2KJ4210 - ■ FP32 - ■ ■ F1**	
	17	1 680	84.21	20 200	1.8	137	**2KJ4210 - ■ FP32 - ■ ■ E1**	
	19	1 470	73.9	20 200	2.1	137	**2KJ4210 - ■ FP32 - ■ ■ D1**	
	22	1 280	64.34	20 200	2.4	137	**2KJ4210 - ■ FP32 - ■ ■ C1**	
	D.109-LEN100LZ4P							
	7.6	3 770	191.07	20 100	0.82	127	**2KJ4210 - ■ FM33 - ■ ■ M1**	
	8.2	3 480	176.45	20 200	0.89	127	**2KJ4210 - ■ FM33 - ■ ■ L1**	
	9.2	3 100	157	20 200	1.0	127	**2KJ4210 - ■ FM33 - ■ ■ K1**	
	10	2 750	139.44	20 200	1.1	127	**2KJ4210 - ■ FM33 - ■ ■ J1**	
	12	2 460	124.82	20 200	1.3	127	**2KJ4210 - ■ FM33 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**D.109-LEN100LZ4P**							
	14	2 100	106.7	20 200	1.5	127	**2KJ4210 - ■ FM33 - ■ ■ G1**	
	15	1 880	95.28	20 200	1.6	127	**2KJ4210 - ■ FM33 - ■ ■ F1**	
	17	1 660	84.21	20 200	1.9	127	**2KJ4210 - ■ FM33 - ■ ■ E1**	
	20	1 460	73.9	20 200	2.1	127	**2KJ4210 - ■ FM33 - ■ ■ D1**	
	23	1 270	64.34	20 200	2.4	127	**2KJ4210 - ■ FM33 - ■ ■ C1**	
	E.109-LEN100LN4E							
	200	144	7.19	10 500	3.9	96	**2KJ4005 - ■ FP32 - ■ ■ Q1**	
	212	135	6.76	10 500	4.2	96	**2KJ4005 - ■ FP32 - ■ ■ P1**	
	229	125	6.28	10 500	4.5	96	**2KJ4005 - ■ FP32 - ■ ■ N1**	
	E.109-LEN100LZ4P							
	202	142	7.19	10 500	4.0	86	**2KJ4005 - ■ FM33 - ■ ■ Q1**	
	214	134	6.76	10 500	4.2	86	**2KJ4005 - ■ FM33 - ■ ■ P1**	
	231	124	6.28	10 500	4.6	86	**2KJ4005 - ■ FM33 - ■ ■ N1**	
	D.129-LEN100LN4E							
	5.3	5 390	270.24	26 800	0.93	201	**2KJ4211 - ■ FP32 - ■ ■ P1**	
	5.6	5 070	254.34	27 000	0.98	201	**2KJ4211 - ■ FP32 - ■ ■ N1**	
	6.1	4 710	236.03	27 200	1.1	201	**2KJ4211 - ■ FP32 - ■ ■ M1**	
	6.9	4 160	208.67	27 500	1.2	201	**2KJ4211 - ■ FP32 - ■ ■ L1**	
	7.7	3 710	186.28	27 800	1.3	201	**2KJ4211 - ■ FP32 - ■ ■ K1**	
	8.6	3 340	167.63	28 000	1.5	201	**2KJ4211 - ■ FP32 - ■ ■ J1**	
	9.9	2 900	145.49	28 300	1.7	201	**2KJ4211 - ■ FP32 - ■ ■ H1**	
	11	2 610	130.84	28 400	1.9	201	**2KJ4211 - ■ FP32 - ■ ■ G1**	
	13	2 280	114.36	28 600	2.2	201	**2KJ4211 - ■ FP32 - ■ ■ F1**	
	D.129-LEN100LZ4P							
	4.6	6 260	316.9	26 300	0.8	191	**2KJ4211 - ■ FM33 - ■ ■ Q1**	
	5.4	5 340	270.24	26 800	0.94	191	**2KJ4211 - ■ FM33 - ■ ■ P1**	
	5.7	5 020	254.34	27 000	0.99	191	**2KJ4211 - ■ FM33 - ■ ■ N1**	
	6.1	4 660	236.03	27 200	1.1	191	**2KJ4211 - ■ FM33 - ■ ■ M1**	
	6.9	4 120	208.67	27 500	1.2	191	**2KJ4211 - ■ FM33 - ■ ■ L1**	
	7.8	3 680	186.28	27 800	1.4	191	**2KJ4211 - ■ FM33 - ■ ■ K1**	
	8.7	3 310	167.63	28 000	1.5	191	**2KJ4211 - ■ FM33 - ■ ■ J1**	
	10	2 870	145.49	28 300	1.7	191	**2KJ4211 - ■ FM33 - ■ ■ H1**	
	11	2 580	130.84	28 400	1.9	191	**2KJ4211 - ■ FM33 - ■ ■ G1**	
	13	2 260	114.36	28 600	2.2	191	**2KJ4211 - ■ FM33 - ■ ■ F1**	
	E.129-LEN100LN4E							
	147	195	9.79	13 500	3.4	121	**2KJ4006 - ■ FP32 - ■ ■ T1**	
	171	167	8.38	13 500	4.0	121	**2KJ4006 - ■ FP32 - ■ ■ S1**	
	182	157	7.88	13 500	4.2	121	**2KJ4006 - ■ FP32 - ■ ■ R1**	
	E.129-LEN100LZ4P							
	148	193	9.79	13 500	3.4	111	**2KJ4006 - ■ FM33 - ■ ■ T1**	
	173	166	8.38	13 500	4.0	111	**2KJ4006 - ■ FM33 - ■ ■ S1**	
	184	156	7.88	13 500	4.3	111	**2KJ4006 - ■ FM33 - ■ ■ R1**	
	D.149-LEN100LN4E							
	4.4	6 550	328.38	51 900	1.2	285	**2KJ4212 - ■ FP32 - ■ ■ W1**	
	5.1	5 610	281.04	52 300	1.4	285	**2KJ4212 - ■ FP32 - ■ ■ V1**	
	5.4	5 280	264.51	52 500	1.5	285	**2KJ4212 - ■ FP32 - ■ ■ U1**	
	5.8	4 950	247.95	52 600	1.6	285	**2KJ4212 - ■ FP32 - ■ ■ T1**	
	6.5	4 380	219.8	52 900	1.8	285	**2KJ4212 - ■ FP32 - ■ ■ S1**	
	7.3	3 890	195.24	53 100	2.1	285	**2KJ4212 - ■ FP32 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**D.149-LEN100LZ4P**							
	4.4	6 480	328.38	51 900	1.2	275	**2KJ4212 - ■ FM33 - ■ ■ W1**	
	5.2	5 550	281.04	52 300	1.4	275	**2KJ4212 - ■ FM33 - ■ ■ V1**	
	5.5	5 220	264.51	52 500	1.5	275	**2KJ4212 - ■ FM33 - ■ ■ U1**	
	5.8	4 890	247.95	52 700	1.6	275	**2KJ4212 - ■ FM33 - ■ ■ T1**	
	6.6	4 340	219.8	52 900	1.8	275	**2KJ4212 - ■ FM33 - ■ ■ S1**	
	7.4	3 850	195.24	53 100	2.1	275	**2KJ4212 - ■ FM33 - ■ ■ R1**	
	D.149-LEN132SE6E							
	2.9	9 800	328.38	50 300	0.82	301	**2KJ4212 - ■ HF32 - ■ ■ W1**	**P01**
	3.4	8 380	281.04	51 000	0.95	301	**2KJ4212 - ■ HF32 - ■ ■ V1**	**P01**
	3.6	7 890	264.51	51 200	1.0	301	**2KJ4212 - ■ HF32 - ■ ■ U1**	**P01**
	3.9	7 400	247.95	51 500	1.1	301	**2KJ4212 - ■ HF32 - ■ ■ T1**	**P01**
	D.149-LEN132SM6P							
	2.9	9 740	328.38	50 300	0.82	302	**2KJ4212 - ■ HF33 - ■ ■ W1**	**P01**
	3.4	8 340	281.04	51 000	0.96	302	**2KJ4212 - ■ HF33 - ■ ■ V1**	**P01**
	3.6	7 850	264.51	51 200	1.0	302	**2KJ4212 - ■ HF33 - ■ ■ U1**	**P01**
	3.9	7 360	247.95	51 500	1.1	302	**2KJ4212 - ■ HF33 - ■ ■ T1**	**P01**
	D.169-LEN132SE6E							
	2.9	9 760	327.18	71 700	1.4	479	**2KJ4213 - ■ HF32 - ■ ■ V1**	**P01**
	3.1	9 110	305.28	71 900	1.5	479	**2KJ4213 - ■ HF32 - ■ ■ U1**	**P01**
	3.5	8 100	271.4	72 300	1.7	479	**2KJ4213 - ■ HF32 - ■ ■ T1**	**P01**
	3.9	7 270	243.68	72 600	1.9	479	**2KJ4213 - ■ HF32 - ■ ■ S1**	**P01**
	D.169-LEN132SM6P							
	2.9	9 710	327.18	71 700	1.4	480	**2KJ4213 - ■ HF33 - ■ ■ V1**	**P01**
	3.2	9 060	305.28	72 000	1.5	480	**2KJ4213 - ■ HF33 - ■ ■ U1**	**P01**
	3.6	8 050	271.4	72 300	1.7	480	**2KJ4213 - ■ HF33 - ■ ■ T1**	**P01**
	4	7 230	243.68	72 700	1.9	480	**2KJ4213 - ■ HF33 - ■ ■ S1**	**P01**
	D.189-LEN132SE6E							
	3.1	9 360	313.63	107 000	2.0	692	**2KJ4214 - ■ HF32 - ■ ■ T1**	**P01**
	D.189-LEN132SM6P							
	3.1	9 310	313.63	107 000	2.0	693	**2KJ4214 - ■ HF33 - ■ ■ T1**	**P01**
	D.149-Z49-LEN100LN4E							
	2.8	9 600	510	50 400	0.83	305	**2KJ4240 - ■ FP32 - ■ ■ C1**	
	3.3	8 090	430	51 100	0.99	305	**2KJ4240 - ■ FP32 - ■ ■ B1**	
	3.8	7 060	375	51 600	1.1	305	**2KJ4240 - ■ FP32 - ■ ■ A1**	
	D.149-Z49-LEN100LZ4P							
	2.8	9 500	510	50 400	0.84	295	**2KJ4240 - ■ FM33 - ■ ■ C1**	
	3.4	8 010	430	51 200	1.0	295	**2KJ4240 - ■ FM33 - ■ ■ B1**	
	3.9	6 980	375	51 600	1.1	295	**2KJ4240 - ■ FM33 - ■ ■ A1**	
	D.169-Z69-LEN100LN4E							
	1.7	15 400	823	69 600	0.9	494	**2KJ4242 - ■ FP32 - ■ ■ G1**	
	1.9	14 500	773	69 900	0.96	494	**2KJ4242 - ■ FP32 - ■ ■ F1**	
	2.2	12 300	658	70 800	1.1	494	**2KJ4242 - ■ FP32 - ■ ■ E1**	
	2.5	10 600	564	71 400	1.3	494	**2KJ4242 - ■ FP32 - ■ ■ D1**	
	2.9	9 330	496	71 900	1.5	494	**2KJ4242 - ■ FP32 - ■ ■ C1**	
	3.4	7 870	418	72 400	1.8	494	**2KJ4242 - ■ FP32 - ■ ■ B1**	
	3.9	6 850	364	72 800	2.0	494	**2KJ4242 - ■ FP32 - ■ ■ A1**	
	D.169-Z69-LEN100LZ4P							
	1.5	17 500	944	68 800	0.8	484	**2KJ4242 - ■ FM33 - ■ ■ H1**	
	1.8	15 300	823	69 600	0.91	484	**2KJ4242 - ■ FM33 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
3	**D.169-Z69-LEN100LZ4P**							
	1.9	14 400	773	70 000	0.97	484	**2KJ4242 - ■ FM33 - ■ ■ F1**	
	2.2	12 200	658	70 800	1.1	484	**2KJ4242 - ■ FM33 - ■ ■ E1**	
	2.6	10 500	564	71 400	1.3	484	**2KJ4242 - ■ FM33 - ■ ■ D1**	
	2.9	9 240	496	71 900	1.5	484	**2KJ4242 - ■ FM33 - ■ ■ C1**	
	3.5	7 780	418	72 400	1.8	484	**2KJ4242 - ■ FM33 - ■ ■ B1**	
	D.189-Z69-LEN100LN4E							
	1.2	22 000	1 172	107 000	0.86	707	**2KJ4244 - ■ FP32 - ■ ■ J1**	
	1.5	18 600	989	107 000	1.0	707	**2KJ4244 - ■ FP32 - ■ ■ H1**	
	1.7	16 200	862	107 000	1.2	707	**2KJ4244 - ■ FP32 - ■ ■ G1**	
	1.8	15 200	810	107 000	1.2	707	**2KJ4244 - ■ FP32 - ■ ■ F1**	
	2.1	12 900	689	107 000	1.5	707	**2KJ4244 - ■ FP32 - ■ ■ E1**	
	2.4	11 100	590	107 000	1.7	707	**2KJ4244 - ■ FP32 - ■ ■ D1**	
	2.8	9 770	519	107 000	1.9	707	**2KJ4244 - ■ FP32 - ■ ■ C1**	
	D.189-Z69-LEN100LZ4P							
	1.2	21 800	1 172	107 000	0.87	697	**2KJ4244 - ■ FM33 - ■ ■ J1**	
	1.5	18 400	989	107 000	1.0	697	**2KJ4244 - ■ FM33 - ■ ■ H1**	
	1.7	16 000	862	107 000	1.2	697	**2KJ4244 - ■ FM33 - ■ ■ G1**	
	1.8	15 000	810	107 000	1.3	697	**2KJ4244 - ■ FM33 - ■ ■ F1**	
	2.1	12 800	689	107 000	1.5	697	**2KJ4244 - ■ FM33 - ■ ■ E1**	
	2.5	10 900	590	107 000	1.7	697	**2KJ4244 - ■ FM33 - ■ ■ D1**	
	2.8	9 670	519	107 000	2.0	697	**2KJ4244 - ■ FM33 - ■ ■ C1**	
4	**E.39-LEN112MH4E**							
	493	78	2.93	800	0.84	51	**2KJ4001 - ■ GJ32 - ■ ■ G1**	
	963	40	1.5	1 500	1.5	51	**2KJ4001 - ■ GJ32 - ■ ■ B1**	
	1 120	34	1.29	1 600	1.6	51	**2KJ4001 - ■ GJ32 - ■ ■ A1**	
	E.39-LEN112MR4P							
	495	77	2.93	900	0.84	40	**2KJ4001 - ■ GJ33 - ■ ■ G1**	
	967	40	1.5	1 500	1.5	40	**2KJ4001 - ■ GJ33 - ■ ■ B1**	
	1 124	34	1.29	1 500	1.6	40	**2KJ4001 - ■ GJ33 - ■ ■ A1**	
	Z.39-LEN112MH4E							
	224	171	6.46	100	0.85	50	**2KJ4103 - ■ GJ32 - ■ ■ F1**	
	238	161	6.08	100	0.91	50	**2KJ4103 - ■ GJ32 - ■ ■ E1**	
	265	144	5.45	100	0.97	50	**2KJ4103 - ■ GJ32 - ■ ■ D1**	
	311	123	4.64	400	1.1	50	**2KJ4103 - ■ GJ32 - ■ ■ C1**	
	363	105	3.98	800	1.2	50	**2KJ4103 - ■ GJ32 - ■ ■ B1**	
	421	91	3.43	1 000	1.2	50	**2KJ4103 - ■ GJ32 - ■ ■ A1**	
	Z.39-LEN112MR4P							
	224	170	6.46	100	0.86	39	**2KJ4103 - ■ GJ33 - ■ ■ F1**	
	238	160	6.08	100	0.92	39	**2KJ4103 - ■ GJ33 - ■ ■ E1**	
	266	144	5.45	100	0.98	39	**2KJ4103 - ■ GJ33 - ■ ■ D1**	
	312	122	4.64	400	1.1	39	**2KJ4103 - ■ GJ33 - ■ ■ C1**	
	364	105	3.98	800	1.2	39	**2KJ4103 - ■ GJ33 - ■ ■ B1**	
	423	90	3.43	1 000	1.2	39	**2KJ4103 - ■ GJ33 - ■ ■ A1**	
	E.49-LEN112MH4E							
	318	120	4.54	3 700	0.85	56	**2KJ4002 - ■ GJ32 - ■ ■ K1**	
	349	109	4.14	3 900	0.93	56	**2KJ4002 - ■ GJ32 - ■ ■ J1**	
	420	91	3.44	3 800	1.1	56	**2KJ4002 - ■ GJ32 - ■ ■ H1**	
	446	86	3.24	3 700	1.2	56	**2KJ4002 - ■ GJ32 - ■ ■ G1**	
	472	81	3.06	3 700	1.2	56	**2KJ4002 - ■ GJ32 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**E.49-LEN112MH4E**							
	556	69	2.6	3 500	1.5	56	**2KJ4002 - ■ GJ32 - ■ ■ E1**	
	648	59	2.23	3 400	1.7	56	**2KJ4002 - ■ GJ32 - ■ ■ D1**	
	737	52	1.96	3 300	2.0	56	**2KJ4002 - ■ GJ32 - ■ ■ C1**	
	876	44	1.65	3 100	2.4	56	**2KJ4002 - ■ GJ32 - ■ ■ B1**	
	1 003	38	1.44	3 000	2.7	56	**2KJ4002 - ■ GJ32 - ■ ■ A1**	
	E.49-LEN112MR4P							
	319	120	4.54	3 700	0.85	45	**2KJ4002 - ■ GJ33 - ■ ■ K1**	
	350	109	4.14	3 800	0.94	45	**2KJ4002 - ■ GJ33 - ■ ■ J1**	
	422	91	3.44	3 800	1.1	45	**2KJ4002 - ■ GJ33 - ■ ■ H1**	
	448	85	3.24	3 700	1.2	45	**2KJ4002 - ■ GJ33 - ■ ■ G1**	
	474	81	3.06	3 700	1.3	45	**2KJ4002 - ■ GJ33 - ■ ■ F1**	
	558	68	2.6	3 500	1.5	45	**2KJ4002 - ■ GJ33 - ■ ■ E1**	
	650	59	2.23	3 400	1.7	45	**2KJ4002 - ■ GJ33 - ■ ■ D1**	
	740	52	1.96	3 200	2.0	45	**2KJ4002 - ■ GJ33 - ■ ■ C1**	
	879	44	1.65	3 100	2.4	45	**2KJ4002 - ■ GJ33 - ■ ■ B1**	
	1 007	38	1.44	3 000	2.7	45	**2KJ4002 - ■ GJ33 - ■ ■ A1**	
	Z.49-LEN112MH4E							
	103	370	13.98	3 600	0.87	60	**2KJ4104 - ■ GJ32 - ■ ■ M1**	
	121	315	11.97	3 600	1.0	60	**2KJ4104 - ■ GJ32 - ■ ■ L1**	
	137	275	10.53	3 500	1.1	60	**2KJ4104 - ■ GJ32 - ■ ■ K1**	
	163	235	8.88	3 400	1.4	60	**2KJ4104 - ■ GJ32 - ■ ■ J1**	
	187	205	7.74	3 400	1.6	60	**2KJ4104 - ■ GJ32 - ■ ■ H1**	
	189	200	7.64	3 300	1.5	60	**2KJ4104 - ■ GJ32 - ■ ■ G1**	
	200	191	7.21	3 200	1.5	60	**2KJ4104 - ■ GJ32 - ■ ■ F1**	
	235	162	6.14	3 200	1.6	60	**2KJ4104 - ■ GJ32 - ■ ■ E1**	
	275	139	5.26	2 600	1.8	60	**2KJ4104 - ■ GJ32 - ■ ■ D1**	
	313	122	4.62	2 900	1.8	60	**2KJ4104 - ■ GJ32 - ■ ■ C1**	
	371	103	3.9	2 900	2.0	60	**2KJ4104 - ■ GJ32 - ■ ■ B1**	
	425	90	3.4	2 800	2.1	60	**2KJ4104 - ■ GJ32 - ■ ■ A1**	
	Z.49-LEN112MR4P							
	104	365	13.98	3 600	0.87	49	**2KJ4104 - ■ GJ33 - ■ ■ M1**	
	121	315	11.97	3 600	1.0	49	**2KJ4104 - ■ GJ33 - ■ ■ L1**	
	138	275	10.53	3 500	1.2	49	**2KJ4104 - ■ GJ33 - ■ ■ K1**	
	163	230	8.88	3 500	1.4	49	**2KJ4104 - ■ GJ33 - ■ ■ J1**	
	187	200	7.74	3 400	1.6	49	**2KJ4104 - ■ GJ33 - ■ ■ H1**	
	190	200	7.64	3 300	1.5	49	**2KJ4104 - ■ GJ33 - ■ ■ G1**	
	201	190	7.21	3 200	1.5	49	**2KJ4104 - ■ GJ33 - ■ ■ F1**	
	236	162	6.14	3 200	1.6	49	**2KJ4104 - ■ GJ33 - ■ ■ E1**	
	276	139	5.26	2 600	1.8	49	**2KJ4104 - ■ GJ33 - ■ ■ D1**	
	314	122	4.62	2 800	1.8	49	**2KJ4104 - ■ GJ33 - ■ ■ C1**	
	372	103	3.9	2 900	2.0	49	**2KJ4104 - ■ GJ33 - ■ ■ B1**	
	426	90	3.4	2 800	2.1	49	**2KJ4104 - ■ GJ33 - ■ ■ A1**	
	Z.59-LEN112MH4E							
	72	530	20.2	4 900	0.84	62	**2KJ4105 - ■ GJ32 - ■ ■ P1**	
	76	500	19.01	4 900	0.9	62	**2KJ4105 - ■ GJ32 - ■ ■ N1**	
	81	475	17.95	4 800	0.95	62	**2KJ4105 - ■ GJ32 - ■ ■ M1**	
	95	400	15.27	4 000	1.1	62	**2KJ4105 - ■ GJ32 - ■ ■ L1**	
	110	345	13.09	4 400	1.3	62	**2KJ4105 - ■ GJ32 - ■ ■ K1**	
	126	300	11.51	4 600	1.5	62	**2KJ4105 - ■ GJ32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**Z.59-LEN112MH4E**							
	149	255	9.71	4 500	1.8	62	**2KJ4105 - ■ GJ32 - ■ ■ H1**	
	171	220	8.46	4 300	2.0	62	**2KJ4105 - ■ GJ32 - ■ ■ G1**	
	179	210	8.07	4 300	1.9	62	**2KJ4105 - ■ GJ32 - ■ ■ F1**	
	211	181	6.86	4 100	2.3	62	**2KJ4105 - ■ GJ32 - ■ ■ E1**	
	246	155	5.88	4 000	2.6	62	**2KJ4105 - ■ GJ32 - ■ ■ D1**	
	279	137	5.17	3 800	3.0	62	**2KJ4105 - ■ GJ32 - ■ ■ C1**	
	331	115	4.36	3 700	3.5	62	**2KJ4105 - ■ GJ32 - ■ ■ B1**	
	380	100	3.8	3 600	4.0	62	**2KJ4105 - ■ GJ32 - ■ ■ A1**	
	Z.59-LEN112MR4P							
	72	530	20.2	4 900	0.85	51	**2KJ4105 - ■ GJ33 - ■ ■ P1**	
	76	500	19.01	4 900	0.9	51	**2KJ4105 - ■ GJ33 - ■ ■ N1**	
	81	470	17.95	4 800	0.95	51	**2KJ4105 - ■ GJ33 - ■ ■ M1**	
	95	400	15.27	3 900	1.1	51	**2KJ4105 - ■ GJ33 - ■ ■ L1**	
	111	345	13.09	4 400	1.3	51	**2KJ4105 - ■ GJ33 - ■ ■ K1**	
	126	300	11.51	4 600	1.5	51	**2KJ4105 - ■ GJ33 - ■ ■ J1**	
	149	255	9.71	4 400	1.8	51	**2KJ4105 - ■ GJ33 - ■ ■ H1**	
	171	220	8.46	4 300	2.0	51	**2KJ4105 - ■ GJ33 - ■ ■ G1**	
	180	210	8.07	4 200	1.9	51	**2KJ4105 - ■ GJ33 - ■ ■ F1**	
	211	181	6.86	4 100	2.3	51	**2KJ4105 - ■ GJ33 - ■ ■ E1**	
	247	155	5.88	4 000	2.6	51	**2KJ4105 - ■ GJ33 - ■ ■ D1**	
	280	136	5.17	3 800	3.0	51	**2KJ4105 - ■ GJ33 - ■ ■ C1**	
	333	115	4.36	3 700	3.5	51	**2KJ4105 - ■ GJ33 - ■ ■ B1**	
	382	100	3.8	3 600	4.0	51	**2KJ4105 - ■ GJ33 - ■ ■ A1**	
	E.69-LEN112MH4E							
	191	200	7.58	6 100	1.0	63	**2KJ4003 - ■ GJ32 - ■ ■ Q1**	
	212	180	6.82	6 100	0.94	63	**2KJ4003 - ■ GJ32 - ■ ■ P1**	
	234	163	6.17	6 100	1.3	63	**2KJ4003 - ■ GJ32 - ■ ■ N1**	
	254	150	5.69	6 100	1.1	63	**2KJ4003 - ■ GJ32 - ■ ■ M1**	
	277	138	5.21	6 100	1.5	63	**2KJ4003 - ■ GJ32 - ■ ■ L1**	
	330	116	4.38	6 100	1.7	63	**2KJ4003 - ■ GJ32 - ■ ■ K1**	
	351	109	4.12	6 100	1.5	63	**2KJ4003 - ■ GJ32 - ■ ■ J1**	
	382	100	3.78	6 100	2.0	63	**2KJ4003 - ■ GJ32 - ■ ■ H1**	
	438	87	3.3	6 100	2.3	63	**2KJ4003 - ■ GJ32 - ■ ■ G1**	
	490	78	2.95	6 100	2.6	63	**2KJ4003 - ■ GJ32 - ■ ■ F1**	
	560	68	2.58	6 100	2.9	63	**2KJ4003 - ■ GJ32 - ■ ■ E1**	
	651	59	2.22	6 100	3.3	63	**2KJ4003 - ■ GJ32 - ■ ■ D1**	
	737	52	1.96	6 100	3.8	63	**2KJ4003 - ■ GJ32 - ■ ■ C1**	
	865	44	1.67	6 100	4.4	63	**2KJ4003 - ■ GJ32 - ■ ■ B1**	
	1 010	38	1.43	6 100	5.2	63	**2KJ4003 - ■ GJ32 - ■ ■ A1**	
	E.69-LEN112MR4P							
	191	200	7.58	6 100	1.0	52	**2KJ4003 - ■ GJ33 - ■ ■ Q1**	
	213	180	6.82	6 100	0.95	52	**2KJ4003 - ■ GJ33 - ■ ■ P1**	
	235	163	6.17	6 100	1.3	52	**2KJ4003 - ■ GJ33 - ■ ■ N1**	
	255	150	5.69	6 100	1.1	52	**2KJ4003 - ■ GJ33 - ■ ■ M1**	
	278	137	5.21	6 100	1.5	52	**2KJ4003 - ■ GJ33 - ■ ■ L1**	
	331	115	4.38	6 100	1.7	52	**2KJ4003 - ■ GJ33 - ■ ■ K1**	
	352	109	4.12	6 100	1.5	52	**2KJ4003 - ■ GJ33 - ■ ■ J1**	
	384	100	3.78	6 100	2.0	52	**2KJ4003 - ■ GJ33 - ■ ■ H1**	
	439	87	3.3	6 100	2.3	52	**2KJ4003 - ■ GJ33 - ■ ■ G1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**E.69-LEN112MR4P**							
	492	78	2.95	6 100	2.6	52	**2KJ4003 - ■ GJ33 - ■ ■ F1**	
	562	68	2.58	6 100	2.9	52	**2KJ4003 - ■ GJ33 - ■ ■ E1**	
	653	58	2.22	6 100	3.4	52	**2KJ4003 - ■ GJ33 - ■ ■ D1**	
	740	52	1.96	6 100	3.8	52	**2KJ4003 - ■ GJ33 - ■ ■ C1**	
	868	44	1.67	6 100	4.5	52	**2KJ4003 - ■ GJ33 - ■ ■ B1**	
	1 014	38	1.43	6 100	5.2	52	**2KJ4003 - ■ GJ33 - ■ ■ A1**	
	Z.69-LEN112MH4E							
	51	750	28.53	10 600	0.8	67	**2KJ4106 - ■ GJ32 - ■ ■ R1**	
	55	685	26.04	7 500	0.87	67	**2KJ4106 - ■ GJ32 - ■ ■ Q1**	
	67	570	21.61	8 500	1.1	67	**2KJ4106 - ■ GJ32 - ■ ■ P1**	
	71	535	20.34	8 800	1.1	67	**2KJ4106 - ■ GJ32 - ■ ■ N1**	
	75	505	19.21	9 100	1.2	67	**2KJ4106 - ■ GJ32 - ■ ■ M1**	
	88	430	16.34	9 600	1.4	67	**2KJ4106 - ■ GJ32 - ■ ■ L1**	
	103	370	14	9 900	1.6	67	**2KJ4106 - ■ GJ32 - ■ ■ K1**	
	117	325	12.31	9 700	1.8	67	**2KJ4106 - ■ GJ32 - ■ ■ J1**	
	139	275	10.39	9 200	2.2	67	**2KJ4106 - ■ GJ32 - ■ ■ H1**	
	160	235	9.05	8 900	2.5	67	**2KJ4106 - ■ GJ32 - ■ ■ G1**	
	170	225	8.5	8 700	2.0	67	**2KJ4106 - ■ GJ32 - ■ ■ F1**	
	200	191	7.23	8 300	2.3	67	**2KJ4106 - ■ GJ32 - ■ ■ E1**	
	233	164	6.2	8 000	2.7	67	**2KJ4106 - ■ GJ32 - ■ ■ D1**	
	265	144	5.45	7 700	3.0	67	**2KJ4106 - ■ GJ32 - ■ ■ C1**	
	314	122	4.6	7 300	3.7	67	**2KJ4106 - ■ GJ32 - ■ ■ B1**	
	360	106	4.01	7 000	4.2	67	**2KJ4106 - ■ GJ32 - ■ ■ A1**	
	Z.69-LEN112MR4P							
	51	750	28.53	10 600	0.8	56	**2KJ4106 - ■ GJ33 - ■ ■ R1**	
	56	685	26.04	7 500	0.87	56	**2KJ4106 - ■ GJ33 - ■ ■ Q1**	
	67	565	21.61	8 600	1.1	56	**2KJ4106 - ■ GJ33 - ■ ■ P1**	
	71	535	20.34	8 800	1.1	56	**2KJ4106 - ■ GJ33 - ■ ■ N1**	
	75	505	19.21	9 100	1.2	56	**2KJ4106 - ■ GJ33 - ■ ■ M1**	
	89	430	16.34	9 600	1.4	56	**2KJ4106 - ■ GJ33 - ■ ■ L1**	
	104	365	14	10 000	1.6	56	**2KJ4106 - ■ GJ33 - ■ ■ K1**	
	118	320	12.31	9 700	1.9	56	**2KJ4106 - ■ GJ33 - ■ ■ J1**	
	140	270	10.39	9 200	2.2	56	**2KJ4106 - ■ GJ33 - ■ ■ H1**	
	160	235	9.05	8 900	2.5	56	**2KJ4106 - ■ GJ33 - ■ ■ G1**	
	171	220	8.5	8 700	2.0	56	**2KJ4106 - ■ GJ33 - ■ ■ F1**	
	201	190	7.23	8 300	2.3	56	**2KJ4106 - ■ GJ33 - ■ ■ E1**	
	234	163	6.2	8 000	2.7	56	**2KJ4106 - ■ GJ33 - ■ ■ D1**	
	266	144	5.45	7 700	3.0	56	**2KJ4106 - ■ GJ33 - ■ ■ C1**	
	315	121	4.6	7 300	3.7	56	**2KJ4106 - ■ GJ33 - ■ ■ B1**	
	362	106	4.01	7 000	4.2	56	**2KJ4106 - ■ GJ33 - ■ ■ A1**	
	Z.79-LEN112MH4E							
	36	1 050	39.94	13 100	0.8	76	**2KJ4107 - ■ GJ32 - ■ ■ V1**	
	40	955	36.12	13 200	0.88	76	**2KJ4107 - ■ GJ32 - ■ ■ U1**	
	43	880	33.34	13 300	0.95	76	**2KJ4107 - ■ GJ32 - ■ ■ T1**	
	47	805	30.54	13 400	1.0	76	**2KJ4107 - ■ GJ32 - ■ ■ S1**	
	56	675	25.62	10 200	1.2	76	**2KJ4107 - ■ GJ32 - ■ ■ R1**	
	60	635	24.12	10 400	1.3	76	**2KJ4107 - ■ GJ32 - ■ ■ Q1**	
	65	585	22.13	10 600	1.4	76	**2KJ4107 - ■ GJ32 - ■ ■ P1**	
	75	510	19.33	10 800	1.6	76	**2KJ4107 - ■ GJ32 - ■ ■ N1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**Z.79-LEN112MH4E**							
	83	455	17.31	11 000	1.8	76	**2KJ4107 - ■ GJ32 - ■ ■ M1**	
	96	400	15.13	11 000	2.1	76	**2KJ4107 - ■ GJ32 - ■ ■ L1**	
	111	340	12.99	11 100	2.4	76	**2KJ4107 - ■ GJ32 - ■ ■ K1**	
	126	300	11.48	11 000	2.8	76	**2KJ4107 - ■ GJ32 - ■ ■ J1**	
	148	255	9.76	10 800	3.2	76	**2KJ4107 - ■ GJ32 - ■ ■ H1**	
	173	220	8.37	10 300	3.6	76	**2KJ4107 - ■ GJ32 - ■ ■ G1**	
	176	215	8.19	9 900	3.3	76	**2KJ4107 - ■ GJ32 - ■ ■ F1**	
	202	189	7.16	9 800	3.9	76	**2KJ4107 - ■ GJ32 - ■ ■ E1**	
	235	163	6.15	9 300	4.4	76	**2KJ4107 - ■ GJ32 - ■ ■ D1**	
	266	144	5.43	9 000	4.8	76	**2KJ4107 - ■ GJ32 - ■ ■ C1**	
	Z.79-LEN112MR4P							
	36	1 050	39.94	13 100	0.8	65	**2KJ4107 - ■ GJ33 - ■ ■ V1**	
	40	950	36.12	13 200	0.88	65	**2KJ4107 - ■ GJ33 - ■ ■ U1**	
	43	875	33.34	13 300	0.96	65	**2KJ4107 - ■ GJ33 - ■ ■ T1**	
	47	805	30.54	13 400	1.0	65	**2KJ4107 - ■ GJ33 - ■ ■ S1**	
	57	675	25.62	10 200	1.2	65	**2KJ4107 - ■ GJ33 - ■ ■ R1**	
	60	635	24.12	10 400	1.3	65	**2KJ4107 - ■ GJ33 - ■ ■ Q1**	
	66	580	22.13	10 600	1.4	65	**2KJ4107 - ■ GJ33 - ■ ■ P1**	
	75	505	19.33	10 900	1.6	65	**2KJ4107 - ■ GJ33 - ■ ■ N1**	
	84	455	17.31	11 000	1.8	65	**2KJ4107 - ■ GJ33 - ■ ■ M1**	
	96	395	15.13	11 100	2.1	65	**2KJ4107 - ■ GJ33 - ■ ■ L1**	
	112	340	12.99	11 100	2.5	65	**2KJ4107 - ■ GJ33 - ■ ■ K1**	
	126	300	11.48	11 000	2.8	65	**2KJ4107 - ■ GJ33 - ■ ■ J1**	
	149	255	9.76	10 800	3.2	65	**2KJ4107 - ■ GJ33 - ■ ■ H1**	
	173	220	8.37	10 300	3.6	65	**2KJ4107 - ■ GJ33 - ■ ■ G1**	
	177	215	8.19	9 900	3.3	65	**2KJ4107 - ■ GJ33 - ■ ■ F1**	
	203	189	7.16	9 800	3.9	65	**2KJ4107 - ■ GJ33 - ■ ■ E1**	
	236	162	6.15	9 300	4.4	65	**2KJ4107 - ■ GJ33 - ■ ■ D1**	
	267	143	5.43	9 000	4.8	65	**2KJ4107 - ■ GJ33 - ■ ■ C1**	
	D.89-LEN112MH4E							
	19	1 960	74.3	18 500	0.86	99	**2KJ4208 - ■ GJ32 - ■ ■ D1**	
	22	1 730	65.67	18 500	0.97	99	**2KJ4208 - ■ GJ32 - ■ ■ C1**	
	D.89-LEN112MR4P							
	20	1 950	74.3	18 500	0.86	88	**2KJ4208 - ■ GJ33 - ■ ■ D1**	
	22	1 730	65.67	18 500	0.97	88	**2KJ4208 - ■ GJ33 - ■ ■ C1**	
	E.89-LEN112MH4E							
	149	255	9.67	8 000	1.1	76	**2KJ4004 - ■ GJ32 - ■ ■ T1**	
	166	230	8.73	8 000	1.2	76	**2KJ4004 - ■ GJ32 - ■ ■ S1**	
	182	205	7.92	8 000	1.3	76	**2KJ4004 - ■ GJ32 - ■ ■ R1**	
	198	193	7.31	8 000	1.3	76	**2KJ4004 - ■ GJ32 - ■ ■ Q1**	
	218	176	6.64	8 000	1.5	76	**2KJ4004 - ■ GJ32 - ■ ■ P1**	
	257	149	5.62	8 000	2.2	76	**2KJ4004 - ■ GJ32 - ■ ■ N1**	
	273	140	5.29	8 000	1.5	76	**2KJ4004 - ■ GJ32 - ■ ■ M1**	
	296	129	4.89	8 000	2.8	76	**2KJ4004 - ■ GJ32 - ■ ■ L1**	
	332	115	4.35	8 000	3.1	76	**2KJ4004 - ■ GJ32 - ■ ■ K1**	
	374	102	3.86	8 000	3.5	76	**2KJ4004 - ■ GJ32 - ■ ■ J1**	
	418	92	3.46	8 000	4.0	76	**2KJ4004 - ■ GJ32 - ■ ■ H1**	
	488	78	2.96	8 000	4.6	76	**2KJ4004 - ■ GJ32 - ■ ■ G1**	
	547	70	2.64	8 000	5.2	76	**2KJ4004 - ■ GJ32 - ■ ■ F1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**E.89-LEN112MH4E**							
	620	62	2.33	8 000	5.8	76	**2KJ4004 - ■ GJ32 - ■ ■ E1**	
	E.89-LEN112MR4P							
	150	255	9.67	8 000	1.1	65	**2KJ4004 - ■ GJ33 - ■ ■ T1**	
	166	230	8.73	8 000	1.2	65	**2KJ4004 - ■ GJ33 - ■ ■ S1**	
	183	205	7.92	8 000	1.3	65	**2KJ4004 - ■ GJ33 - ■ ■ R1**	
	198	193	7.31	8 000	1.4	65	**2KJ4004 - ■ GJ33 - ■ ■ Q1**	
	218	175	6.64	8 000	1.5	65	**2KJ4004 - ■ GJ33 - ■ ■ P1**	
	258	148	5.62	8 000	2.2	65	**2KJ4004 - ■ GJ33 - ■ ■ N1**	
	274	139	5.29	8 000	1.5	65	**2KJ4004 - ■ GJ33 - ■ ■ M1**	
	297	129	4.89	8 000	2.8	65	**2KJ4004 - ■ GJ33 - ■ ■ L1**	
	333	115	4.35	8 000	3.1	65	**2KJ4004 - ■ GJ33 - ■ ■ K1**	
	376	102	3.86	8 000	3.5	65	**2KJ4004 - ■ GJ33 - ■ ■ J1**	
	419	91	3.46	8 000	4.0	65	**2KJ4004 - ■ GJ33 - ■ ■ H1**	
	490	78	2.96	8 000	4.6	65	**2KJ4004 - ■ GJ33 - ■ ■ G1**	
	549	70	2.64	8 000	5.2	65	**2KJ4004 - ■ GJ33 - ■ ■ F1**	
	622	61	2.33	8 000	5.9	65	**2KJ4004 - ■ GJ33 - ■ ■ E1**	
	Z.89-LEN112MH4E							
	25	1 510	57.36	18 500	1.1	98	**2KJ4108 - ■ GJ32 - ■ ■ A2**	
	28	1 360	51.78	18 500	1.2	98	**2KJ4108 - ■ GJ32 - ■ ■ X1**	
	31	1 240	46.97	18 500	1.4	98	**2KJ4108 - ■ GJ32 - ■ ■ W1**	
	33	1 140	43.36	18 500	1.5	98	**2KJ4108 - ■ GJ32 - ■ ■ V1**	
	37	1 040	39.41	18 500	1.6	98	**2KJ4108 - ■ GJ32 - ■ ■ U1**	
	43	880	33.38	18 500	1.9	98	**2KJ4108 - ■ GJ32 - ■ ■ T1**	
	46	830	31.41	18 500	2.0	98	**2KJ4108 - ■ GJ32 - ■ ■ S1**	
	50	765	29.01	18 500	2.2	98	**2KJ4108 - ■ GJ32 - ■ ■ R1**	
	56	680	25.81	18 500	2.5	98	**2KJ4108 - ■ GJ32 - ■ ■ Q1**	
	63	605	22.92	18 500	2.8	98	**2KJ4108 - ■ GJ32 - ■ ■ P1**	
	70	540	20.52	18 500	3.1	98	**2KJ4108 - ■ GJ32 - ■ ■ N1**	
	Z.89-LEN112MR4P							
	25	1 510	57.36	18 500	1.1	87	**2KJ4108 - ■ GJ33 - ■ ■ A2**	
	28	1 360	51.78	18 500	1.2	87	**2KJ4108 - ■ GJ33 - ■ ■ X1**	
	31	1 230	46.97	18 500	1.4	87	**2KJ4108 - ■ GJ33 - ■ ■ W1**	
	33	1 140	43.36	18 500	1.5	87	**2KJ4108 - ■ GJ33 - ■ ■ V1**	
	37	1 030	39.41	18 500	1.6	87	**2KJ4108 - ■ GJ33 - ■ ■ U1**	
	43	875	33.38	18 500	1.9	87	**2KJ4108 - ■ GJ33 - ■ ■ T1**	
	46	825	31.41	18 500	2.0	87	**2KJ4108 - ■ GJ33 - ■ ■ S1**	
	50	760	29.01	18 500	2.2	87	**2KJ4108 - ■ GJ33 - ■ ■ R1**	
	56	680	25.81	18 500	2.5	87	**2KJ4108 - ■ GJ33 - ■ ■ Q1**	
	63	600	22.92	18 500	2.8	87	**2KJ4108 - ■ GJ33 - ■ ■ P1**	
	71	540	20.52	18 500	3.1	87	**2KJ4108 - ■ GJ33 - ■ ■ N1**	
	D.109-LEN112MH4E							
	10	3 680	139.44	20 100	0.84	141	**2KJ4210 - ■ GJ32 - ■ ■ J1**	
	12	3 300	124.82	20 200	0.94	141	**2KJ4210 - ■ GJ32 - ■ ■ H1**	
	14	2 820	106.7	20 200	1.1	141	**2KJ4210 - ■ GJ32 - ■ ■ G1**	
	15	2 510	95.28	20 200	1.2	141	**2KJ4210 - ■ GJ32 - ■ ■ F1**	
	17	2 220	84.21	20 200	1.4	141	**2KJ4210 - ■ GJ32 - ■ ■ E1**	
	20	1 950	73.9	20 200	1.6	141	**2KJ4210 - ■ GJ32 - ■ ■ D1**	
	22	1 700	64.34	20 200	1.8	141	**2KJ4210 - ■ GJ32 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**D.109-LEN112MR4P**							
	10	3 670	139.44	20 100	0.84	130	**2KJ4210 - ■ GJ33 - ■ ■ J1**	
	12	3 280	124.82	20 200	0.94	130	**2KJ4210 - ■ GJ33 - ■ ■ H1**	
	14	2 810	106.7	20 200	1.1	130	**2KJ4210 - ■ GJ33 - ■ ■ G1**	
	15	2 510	95.28	20 200	1.2	130	**2KJ4210 - ■ GJ33 - ■ ■ F1**	
	17	2 210	84.21	20 200	1.4	130	**2KJ4210 - ■ GJ33 - ■ ■ E1**	
	20	1 940	73.9	20 200	1.6	130	**2KJ4210 - ■ GJ33 - ■ ■ D1**	
	23	1 690	64.34	20 200	1.8	130	**2KJ4210 - ■ GJ33 - ■ ■ C1**	
	E.109-LEN112MH4E							
	201	190	7.19	10 500	3.0	100	**2KJ4005 - ■ GJ32 - ■ ■ Q1**	
	214	179	6.76	10 500	3.2	100	**2KJ4005 - ■ GJ32 - ■ ■ P1**	
	230	166	6.28	10 500	3.4	100	**2KJ4005 - ■ GJ32 - ■ ■ N1**	
	260	147	5.55	10 500	3.8	100	**2KJ4005 - ■ GJ32 - ■ ■ M1**	
	292	131	4.95	10 500	4.3	100	**2KJ4005 - ■ GJ32 - ■ ■ L1**	
	324	118	4.46	10 500	4.7	100	**2KJ4005 - ■ GJ32 - ■ ■ K1**	
	E.109-LEN112MR4P							
	202	189	7.19	10 500	3.0	89	**2KJ4005 - ■ GJ33 - ■ ■ Q1**	
	214	178	6.76	10 500	3.2	89	**2KJ4005 - ■ GJ33 - ■ ■ P1**	
	231	165	6.28	10 500	3.4	89	**2KJ4005 - ■ GJ33 - ■ ■ N1**	
	261	146	5.55	10 500	3.8	89	**2KJ4005 - ■ GJ33 - ■ ■ M1**	
	293	130	4.95	10 500	4.3	89	**2KJ4005 - ■ GJ33 - ■ ■ L1**	
	325	117	4.46	10 500	4.8	89	**2KJ4005 - ■ GJ33 - ■ ■ K1**	
	Z.109-LEN112MH4E							
	28	1 350	51.17	20 200	2.3	139	**2KJ4110 - ■ GJ32 - ■ ■ X1**	
	Z.109-LEN112MR4P							
	28	1 340	51.17	20 200	2.3	128	**2KJ4110 - ■ GJ33 - ■ ■ X1**	
	D.129-LEN112MH4E							
	6.1	6 240	236.03	26 300	0.8	205	**2KJ4211 - ■ GJ32 - ■ ■ M1**	
	6.9	5 510	208.67	26 700	0.91	205	**2KJ4211 - ■ GJ32 - ■ ■ L1**	
	7.8	4 920	186.28	27 100	1.0	205	**2KJ4211 - ■ GJ32 - ■ ■ K1**	
	8.6	4 430	167.63	27 400	1.1	205	**2KJ4211 - ■ GJ32 - ■ ■ J1**	
	9.9	3 840	145.49	27 700	1.3	205	**2KJ4211 - ■ GJ32 - ■ ■ H1**	
	11	3 450	130.84	27 900	1.4	205	**2KJ4211 - ■ GJ32 - ■ ■ G1**	
	13	3 020	114.36	28 200	1.7	205	**2KJ4211 - ■ GJ32 - ■ ■ F1**	
	14	2 690	102.05	28 400	1.9	205	**2KJ4211 - ■ GJ32 - ■ ■ E1**	
	16	2 370	89.91	28 500	2.1	205	**2KJ4211 - ■ GJ32 - ■ ■ D1**	
	D.129-LEN112MR4P							
	6.1	6 210	236.03	26 300	0.8	194	**2KJ4211 - ■ GJ33 - ■ ■ M1**	
	6.9	5 490	208.67	26 700	0.91	194	**2KJ4211 - ■ GJ33 - ■ ■ L1**	
	7.8	4 900	186.28	27 100	1.0	194	**2KJ4211 - ■ GJ33 - ■ ■ K1**	
	8.7	4 410	167.63	27 400	1.1	194	**2KJ4211 - ■ GJ33 - ■ ■ J1**	
	10	3 830	145.49	27 700	1.3	194	**2KJ4211 - ■ GJ33 - ■ ■ H1**	
	11	3 440	130.84	27 900	1.5	194	**2KJ4211 - ■ GJ33 - ■ ■ G1**	
	13	3 010	114.36	28 200	1.7	194	**2KJ4211 - ■ GJ33 - ■ ■ F1**	
	14	2 680	102.05	28 400	1.9	194	**2KJ4211 - ■ GJ33 - ■ ■ E1**	
	16	2 360	89.91	28 600	2.1	194	**2KJ4211 - ■ GJ33 - ■ ■ D1**	
	E.129-LEN112MH4E							
	148	255	9.79	13 500	2.6	125	**2KJ4006 - ■ GJ32 - ■ ■ T1**	
	172	220	8.38	13 500	3.0	125	**2KJ4006 - ■ GJ32 - ■ ■ S1**	
	183	205	7.88	13 500	3.2	125	**2KJ4006 - ■ GJ32 - ■ ■ R1**	
	196	195	7.39	13 500	4.1	125	**2KJ4006 - ■ GJ32 - ■ ■ Q1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**E.129-LEN112MR4P**							
	148	255	9.79	13 500	2.6	114	**2KJ4006 - ■ GJ33 - ■ ■ T1**	
	173	220	8.38	13 500	3.0	114	**2KJ4006 - ■ GJ33 - ■ ■ S1**	
	184	205	7.88	13 500	3.2	114	**2KJ4006 - ■ GJ33 - ■ ■ R1**	
	196	195	7.39	13 500	4.1	114	**2KJ4006 - ■ GJ33 - ■ ■ Q1**	
	D.149-LEN112MH4E							
	4.4	8 680	328.38	50 800	0.92	291	**2KJ4212 - ■ GJ32 - ■ ■ W1**	
	5.1	7 430	281.04	51 400	1.1	291	**2KJ4212 - ■ GJ32 - ■ ■ V1**	
	5.5	6 990	264.51	51 600	1.1	291	**2KJ4212 - ■ GJ32 - ■ ■ U1**	
	5.8	6 550	247.95	51 900	1.2	291	**2KJ4212 - ■ GJ32 - ■ ■ T1**	
	6.6	5 810	219.8	52 200	1.4	291	**2KJ4212 - ■ GJ32 - ■ ■ S1**	
	7.4	5 160	195.24	52 500	1.5	291	**2KJ4212 - ■ GJ32 - ■ ■ R1**	
	8.2	4 650	176.18	52 800	1.7	291	**2KJ4212 - ■ GJ32 - ■ ■ Q1**	
	9.3	4 120	156.11	53 000	1.9	291	**2KJ4212 - ■ GJ32 - ■ ■ P1**	
	10	3 650	138.26	53 200	2.2	291	**2KJ4212 - ■ GJ32 - ■ ■ N1**	
	D.149-LEN112MR4P							
	4.4	8 650	328.38	50 900	0.92	280	**2KJ4212 - ■ GJ33 - ■ ■ W1**	
	5.2	7 400	281.04	51 500	1.1	280	**2KJ4212 - ■ GJ33 - ■ ■ V1**	
	5.5	6 960	264.51	51 600	1.1	280	**2KJ4212 - ■ GJ33 - ■ ■ U1**	
	5.8	6 530	247.95	51 900	1.2	280	**2KJ4212 - ■ GJ33 - ■ ■ T1**	
	6.6	5 790	219.8	52 200	1.4	280	**2KJ4212 - ■ GJ33 - ■ ■ S1**	
	7.4	5 140	195.24	52 500	1.6	280	**2KJ4212 - ■ GJ33 - ■ ■ R1**	
	8.2	4 640	176.18	52 800	1.7	280	**2KJ4212 - ■ GJ33 - ■ ■ Q1**	
	9.3	4 110	156.11	53 000	1.9	280	**2KJ4212 - ■ GJ33 - ■ ■ P1**	
	10	3 640	138.26	53 200	2.2	280	**2KJ4212 - ■ GJ33 - ■ ■ N1**	
	D.149-LEN132ME6E							
	3.9	9 860	247.95	50 300	0.81	311	**2KJ4212 - ■ HH32 - ■ ■ T1**	**P01**
	D.149-LEN132ML6P							
	3.9	9 910	247.95	50 300	0.81	307	**2KJ4212 - ■ HH33 - ■ ■ T1**	**P01**
	D.169-LEN112MH4E							
	4.4	8 640	327.18	72 100	1.6	469	**2KJ4213 - ■ GJ32 - ■ ■ V1**	
	4.7	8 070	305.28	72 300	1.7	469	**2KJ4213 - ■ GJ32 - ■ ■ U1**	
	5.3	7 170	271.4	72 700	2.0	469	**2KJ4213 - ■ GJ32 - ■ ■ T1**	
	D.169-LEN112MR4P							
	4.4	8 620	327.18	72 100	1.6	458	**2KJ4213 - ■ GJ33 - ■ ■ V1**	
	4.7	8 040	305.28	72 300	1.7	458	**2KJ4213 - ■ GJ33 - ■ ■ U1**	
	5.3	7 150	271.4	72 700	2.0	458	**2KJ4213 - ■ GJ33 - ■ ■ T1**	
	D.169-LEN132ME6E							
	2.9	13 000	327.18	70 500	1.1	489	**2KJ4213 - ■ HH32 - ■ ■ V1**	**P01**
	3.1	12 100	305.28	70 800	1.2	489	**2KJ4213 - ■ HH32 - ■ ■ U1**	**P01**
	3.5	10 700	271.4	71 300	1.3	489	**2KJ4213 - ■ HH32 - ■ ■ T1**	**P01**
	3.9	9 690	243.68	71 700	1.4	489	**2KJ4213 - ■ HH32 - ■ ■ S1**	**P01**
	D.169-LEN132ML6P							
	2.9	13 000	327.18	70 500	1.1	485	**2KJ4213 - ■ HH33 - ■ ■ V1**	**P01**
	3.1	12 200	305.28	70 800	1.1	485	**2KJ4213 - ■ HH33 - ■ ■ U1**	**P01**
	3.5	10 800	271.4	71 300	1.3	485	**2KJ4213 - ■ HH33 - ■ ■ T1**	**P01**
	3.9	9 740	243.68	71 700	1.4	485	**2KJ4213 - ■ HH33 - ■ ■ S1**	**P01**
	D.189-LEN132ME6E							
	3.1	12 400	313.63	107 000	1.5	702	**2KJ4214 - ■ HH32 - ■ ■ T1**	**P01**
	3.4	11 100	280.59	107 000	1.7	702	**2KJ4214 - ■ HH32 - ■ ■ S1**	**P01**
	3.8	10 000	253.06	107 000	1.9	702	**2KJ4214 - ■ HH32 - ■ ■ R1**	**P01**

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**D.189-LEN132ML6P**							
	3	12 500	313.63	107 000	1.5	698	**2KJ4214 - ■ HH33 - ■ ■ T1**	**P01**
	3.4	11 200	280.59	107 000	1.7	698	**2KJ4214 - ■ HH33 - ■ ■ S1**	**P01**
	3.8	10 100	253.06	107 000	1.9	698	**2KJ4214 - ■ HH33 - ■ ■ R1**	**P01**
	D.149-Z49-LEN112MH4E							
	3.9	9 360	375	50 500	0.85	310	**2KJ4240 - ■ GJ32 - ■ ■ A1**	
	D.149-Z49-LEN112MR4P							
	3.9	9 330	375	50 500	0.86	299	**2KJ4240 - ■ GJ33 - ■ ■ A1**	
	D.169-Z69-LEN112MH4E							
	2.2	16 400	658	69 200	0.85	499	**2KJ4242 - ■ GJ32 - ■ ■ E1**	
	2.6	14 000	564	70 100	0.99	499	**2KJ4242 - ■ GJ32 - ■ ■ D1**	
	2.9	12 300	496	70 800	1.1	499	**2KJ4242 - ■ GJ32 - ■ ■ C1**	
	3.5	10 400	418	71 500	1.3	499	**2KJ4242 - ■ GJ32 - ■ ■ B1**	
	4	9 090	364	72 000	1.5	499	**2KJ4242 - ■ GJ32 - ■ ■ A1**	
	D.169-Z69-LEN112MR4P							
	2.2	16 300	658	69 300	0.85	488	**2KJ4242 - ■ GJ33 - ■ ■ E1**	
	2.6	14 000	564	70 100	1.0	488	**2KJ4242 - ■ GJ33 - ■ ■ D1**	
	2.9	12 300	496	70 800	1.1	488	**2KJ4242 - ■ GJ33 - ■ ■ C1**	
	3.5	10 400	418	71 500	1.3	488	**2KJ4242 - ■ GJ33 - ■ ■ B1**	
	4	9 060	364	72 000	1.5	488	**2KJ4242 - ■ GJ33 - ■ ■ A1**	
	D.189-Z69-LEN112MH4E							
	1.7	21 500	862	107 000	0.88	712	**2KJ4244 - ■ GJ32 - ■ ■ G1**	
	1.8	20 200	810	107 000	0.94	712	**2KJ4244 - ■ GJ32 - ■ ■ F1**	
	2.1	17 200	689	107 000	1.1	712	**2KJ4244 - ■ GJ32 - ■ ■ E1**	
	2.4	14 700	590	107 000	1.3	712	**2KJ4244 - ■ GJ32 - ■ ■ D1**	
	2.8	12 900	519	107 000	1.5	712	**2KJ4244 - ■ GJ32 - ■ ■ C1**	
	3.3	10 900	438	107 000	1.7	712	**2KJ4244 - ■ GJ32 - ■ ■ B1**	
	3.8	9 540	382	107 000	2.0	712	**2KJ4244 - ■ GJ32 - ■ ■ A1**	
	D.189-Z69-LEN112MR4P							
	1.7	21 400	862	107 000	0.89	701	**2KJ4244 - ■ GJ33 - ■ ■ G1**	
	1.8	20 100	810	107 000	0.94	701	**2KJ4244 - ■ GJ33 - ■ ■ F1**	
	2.1	17 100	689	107 000	1.1	701	**2KJ4244 - ■ GJ33 - ■ ■ E1**	
	2.5	14 600	590	107 000	1.3	701	**2KJ4244 - ■ GJ33 - ■ ■ D1**	
	2.8	12 900	519	107 000	1.5	701	**2KJ4244 - ■ GJ33 - ■ ■ C1**	
	3.3	10 900	438	107 000	1.7	701	**2KJ4244 - ■ GJ33 - ■ ■ B1**	
	3.8	9 510	382	107 000	2.0	701	**2KJ4244 - ■ GJ33 - ■ ■ A1**	
5.5	**E.49-LEN132SJ4E**							
	424	124	3.44	2 500	0.82	72	**2KJ4002 - ■ HG32 - ■ ■ H1**	
	451	117	3.24	2 600	0.87	72	**2KJ4002 - ■ HG32 - ■ ■ G1**	
	477	110	3.06	2 800	0.92	72	**2KJ4002 - ■ HG32 - ■ ■ F1**	
	562	94	2.6	2 900	1.1	72	**2KJ4002 - ■ HG32 - ■ ■ E1**	
	745	70	1.96	3 000	1.5	72	**2KJ4002 - ■ HG32 - ■ ■ C1**	
	885	59	1.65	3 000	1.7	72	**2KJ4002 - ■ HG32 - ■ ■ B1**	
	1 014	52	1.44	2 900	2.0	72	**2KJ4002 - ■ HG32 - ■ ■ A1**	
	E.49-LEN132SR4P							
	423	124	3.44	2 500	0.81	75	**2KJ4002 - ■ HG33 - ■ ■ H1**	
	449	117	3.24	2 600	0.86	75	**2KJ4002 - ■ HG33 - ■ ■ G1**	
	475	110	3.06	2 800	0.91	75	**2KJ4002 - ■ HG33 - ■ ■ F1**	
	560	94	2.6	2 900	1.1	75	**2KJ4002 - ■ HG33 - ■ ■ E1**	
	742	71	1.96	3 000	1.5	75	**2KJ4002 - ■ HG33 - ■ ■ C1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**E.49-LEN132SR4P**							
	882	60	1.65	3 000	1.7	75	**2KJ4002 - ■ HG33 - ■ ■ B1**	
	1 010	52	1.44	2 900	2.0	75	**2KJ4002 - ■ HG33 - ■ ■ A1**	
	Z.49-LEN132SJ4E							
	139	375	10.53	3 100	0.84	76	**2KJ4104 - ■ HG32 - ■ ■ K1**	
	164	315	8.88	3 100	1.0	76	**2KJ4104 - ■ HG32 - ■ ■ J1**	
	189	275	7.74	3 100	1.1	76	**2KJ4104 - ■ HG32 - ■ ■ H1**	
	191	275	7.64	3 000	1.1	76	**2KJ4104 - ■ HG32 - ■ ■ G1**	
	202	255	7.21	3 000	1.1	76	**2KJ4104 - ■ HG32 - ■ ■ F1**	
	238	220	6.14	2 900	1.2	76	**2KJ4104 - ■ HG32 - ■ ■ E1**	
	278	189	5.26	2 800	1.3	76	**2KJ4104 - ■ HG32 - ■ ■ D1**	
	316	166	4.62	2 800	1.4	76	**2KJ4104 - ■ HG32 - ■ ■ C1**	
	374	140	3.9	2 700	1.5	76	**2KJ4104 - ■ HG32 - ■ ■ B1**	
	429	122	3.4	2 200	1.6	76	**2KJ4104 - ■ HG32 - ■ ■ A1**	
	Z.49-LEN132SR4P							
	138	380	10.53	3 100	0.84	79	**2KJ4104 - ■ HG33 - ■ ■ K1**	
	164	320	8.88	3 100	1.0	79	**2KJ4104 - ■ HG33 - ■ ■ J1**	
	188	275	7.74	3 100	1.1	79	**2KJ4104 - ■ HG33 - ■ ■ H1**	
	190	275	7.64	3 000	1.1	79	**2KJ4104 - ■ HG33 - ■ ■ G1**	
	202	260	7.21	2 900	1.1	79	**2KJ4104 - ■ HG33 - ■ ■ F1**	
	237	220	6.14	2 900	1.2	79	**2KJ4104 - ■ HG33 - ■ ■ E1**	
	277	190	5.26	2 800	1.3	79	**2KJ4104 - ■ HG33 - ■ ■ D1**	
	315	167	4.62	2 800	1.3	79	**2KJ4104 - ■ HG33 - ■ ■ C1**	
	373	141	3.9	2 700	1.5	79	**2KJ4104 - ■ HG33 - ■ ■ B1**	
	428	123	3.4	2 200	1.6	79	**2KJ4104 - ■ HG33 - ■ ■ A1**	
	Z.59-LEN132SJ4E							
	96	545	15.27	4 200	0.82	78	**2KJ4105 - ■ HG32 - ■ ■ L1**	
	112	470	13.09	4 200	0.96	78	**2KJ4105 - ■ HG32 - ■ ■ K1**	
	127	410	11.51	4 100	1.1	78	**2KJ4105 - ■ HG32 - ■ ■ J1**	
	150	345	9.71	3 300	1.3	78	**2KJ4105 - ■ HG32 - ■ ■ H1**	
	173	300	8.46	3 700	1.5	78	**2KJ4105 - ■ HG32 - ■ ■ G1**	
	181	290	8.07	2 600	1.4	78	**2KJ4105 - ■ HG32 - ■ ■ F1**	
	213	245	6.86	3 100	1.7	78	**2KJ4105 - ■ HG32 - ■ ■ E1**	
	248	210	5.88	3 500	1.9	78	**2KJ4105 - ■ HG32 - ■ ■ D1**	
	282	186	5.17	3 600	2.2	78	**2KJ4105 - ■ HG32 - ■ ■ C1**	
	335	157	4.36	3 500	2.6	78	**2KJ4105 - ■ HG32 - ■ ■ B1**	
	384	137	3.8	3 400	3.0	78	**2KJ4105 - ■ HG32 - ■ ■ A1**	
	Z.59-LEN132SR4P							
	95	550	15.27	4 200	0.82	81	**2KJ4105 - ■ HG33 - ■ ■ L1**	
	111	470	13.09	4 200	0.95	81	**2KJ4105 - ■ HG33 - ■ ■ K1**	
	126	415	11.51	4 100	1.1	81	**2KJ4105 - ■ HG33 - ■ ■ J1**	
	150	350	9.71	3 300	1.3	81	**2KJ4105 - ■ HG33 - ■ ■ H1**	
	172	305	8.46	3 600	1.5	81	**2KJ4105 - ■ HG33 - ■ ■ G1**	
	180	290	8.07	2 600	1.4	81	**2KJ4105 - ■ HG33 - ■ ■ F1**	
	212	245	6.86	3 100	1.7	81	**2KJ4105 - ■ HG33 - ■ ■ E1**	
	247	210	5.88	3 500	1.9	81	**2KJ4105 - ■ HG33 - ■ ■ D1**	
	281	187	5.17	3 600	2.2	81	**2KJ4105 - ■ HG33 - ■ ■ C1**	
	334	157	4.36	3 500	2.6	81	**2KJ4105 - ■ HG33 - ■ ■ B1**	
	383	137	3.8	3 400	3.0	81	**2KJ4105 - ■ HG33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**E.69-LEN132SJ4E**							
	280	187	5.21	6 100	1.1	79	**2KJ4003 - ■ HG32 - ■ ■ L1**	
	333	158	4.38	6 100	1.3	79	**2KJ4003 - ■ HG32 - ■ ■ K1**	
	354	148	4.12	6 100	1.1	79	**2KJ4003 - ■ HG32 - ■ ■ J1**	
	386	136	3.78	6 100	1.5	79	**2KJ4003 - ■ HG32 - ■ ■ H1**	
	442	119	3.3	6 100	1.7	79	**2KJ4003 - ■ HG32 - ■ ■ G1**	
	495	106	2.95	6 100	1.9	79	**2KJ4003 - ■ HG32 - ■ ■ F1**	
	566	93	2.58	6 100	2.1	79	**2KJ4003 - ■ HG32 - ■ ■ E1**	
	658	80	2.22	6 100	2.5	79	**2KJ4003 - ■ HG32 - ■ ■ D1**	
	745	70	1.96	6 100	2.8	79	**2KJ4003 - ■ HG32 - ■ ■ C1**	
	874	60	1.67	6 100	3.3	79	**2KJ4003 - ■ HG32 - ■ ■ B1**	
	1 021	51	1.43	6 100	3.8	79	**2KJ4003 - ■ HG32 - ■ ■ A1**	
	E.69-LEN132SR4P							
	279	188	5.21	6 100	1.1	82	**2KJ4003 - ■ HG33 - ■ ■ L1**	
	332	158	4.38	6 100	1.3	82	**2KJ4003 - ■ HG33 - ■ ■ K1**	
	353	149	4.12	6 100	1.1	82	**2KJ4003 - ■ HG33 - ■ ■ J1**	
	385	136	3.78	6 100	1.5	82	**2KJ4003 - ■ HG33 - ■ ■ H1**	
	441	119	3.3	6 100	1.7	82	**2KJ4003 - ■ HG33 - ■ ■ G1**	
	493	106	2.95	6 100	1.9	82	**2KJ4003 - ■ HG33 - ■ ■ F1**	
	564	93	2.58	6 100	2.1	82	**2KJ4003 - ■ HG33 - ■ ■ E1**	
	655	80	2.22	6 100	2.4	82	**2KJ4003 - ■ HG33 - ■ ■ D1**	
	742	71	1.96	6 100	2.8	82	**2KJ4003 - ■ HG33 - ■ ■ C1**	
	871	60	1.67	6 100	3.3	82	**2KJ4003 - ■ HG33 - ■ ■ B1**	
	1 017	52	1.43	6 100	3.8	82	**2KJ4003 - ■ HG33 - ■ ■ A1**	
	Z.69-LEN132SJ4E							
	72	730	20.34	10 300	0.82	83	**2KJ4106 - ■ HG32 - ■ ■ N1**	
	76	690	19.21	10 200	0.87	83	**2KJ4106 - ■ HG32 - ■ ■ M1**	
	89	585	16.34	9 900	1.0	83	**2KJ4106 - ■ HG32 - ■ ■ L1**	
	104	500	14	7 200	1.2	83	**2KJ4106 - ■ HG32 - ■ ■ K1**	
	119	440	12.31	7 700	1.4	83	**2KJ4106 - ■ HG32 - ■ ■ J1**	
	141	370	10.39	8 200	1.6	83	**2KJ4106 - ■ HG32 - ■ ■ H1**	
	161	325	9.05	8 400	1.8	83	**2KJ4106 - ■ HG32 - ■ ■ G1**	
	172	305	8.5	7 100	1.5	83	**2KJ4106 - ■ HG32 - ■ ■ F1**	
	202	260	7.23	7 400	1.7	83	**2KJ4106 - ■ HG32 - ■ ■ E1**	
	235	220	6.2	7 700	2.0	83	**2KJ4106 - ■ HG32 - ■ ■ D1**	
	268	196	5.45	7 500	2.2	83	**2KJ4106 - ■ HG32 - ■ ■ C1**	
	317	165	4.6	7 100	2.7	83	**2KJ4106 - ■ HG32 - ■ ■ B1**	
	364	144	4.01	6 900	3.1	83	**2KJ4106 - ■ HG32 - ■ ■ A1**	
	Z.69-LEN132SR4P							
	72	730	20.34	10 300	0.82	86	**2KJ4106 - ■ HG33 - ■ ■ N1**	
	76	690	19.21	10 200	0.87	86	**2KJ4106 - ■ HG33 - ■ ■ M1**	
	89	590	16.34	9 900	1.0	86	**2KJ4106 - ■ HG33 - ■ ■ L1**	
	104	505	14	7 100	1.2	86	**2KJ4106 - ■ HG33 - ■ ■ K1**	
	118	440	12.31	7 700	1.4	86	**2KJ4106 - ■ HG33 - ■ ■ J1**	
	140	375	10.39	8 100	1.6	86	**2KJ4106 - ■ HG33 - ■ ■ H1**	
	161	325	9.05	8 400	1.8	86	**2KJ4106 - ■ HG33 - ■ ■ G1**	
	171	305	8.5	7 100	1.5	86	**2KJ4106 - ■ HG33 - ■ ■ F1**	
	201	260	7.23	7 400	1.7	86	**2KJ4106 - ■ HG33 - ■ ■ E1**	
	235	220	6.2	7 700	2.0	86	**2KJ4106 - ■ HG33 - ■ ■ D1**	
	267	197	5.45	7 500	2.2	86	**2KJ4106 - ■ HG33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**Z.69-LEN132SR4P**							
	316	166	4.6	7 100	2.7	86	**2KJ4106 - ■ HG33 - ■ ■ B1**	
	363	145	4.01	6 900	3.1	86	**2KJ4106 - ■ HG33 - ■ ■ A1**	
	Z.79-LEN132SJ4E							
	57	920	25.62	13 100	0.91	93	**2KJ4107 - ■ HG32 - ■ ■ R1**	
	61	865	24.12	12 900	0.97	93	**2KJ4107 - ■ HG32 - ■ ■ Q1**	
	66	795	22.13	12 700	1.1	93	**2KJ4107 - ■ HG32 - ■ ■ P1**	
	76	695	19.33	12 400	1.2	93	**2KJ4107 - ■ HG32 - ■ ■ N1**	
	84	620	17.31	8 500	1.3	93	**2KJ4107 - ■ HG32 - ■ ■ M1**	
	96	540	15.13	8 900	1.5	93	**2KJ4107 - ■ HG32 - ■ ■ L1**	
	112	465	12.99	9 200	1.8	93	**2KJ4107 - ■ HG32 - ■ ■ K1**	
	127	410	11.48	9 300	2.0	93	**2KJ4107 - ■ HG32 - ■ ■ J1**	
	150	350	9.76	9 400	2.3	93	**2KJ4107 - ■ HG32 - ■ ■ H1**	
	174	300	8.37	9 400	2.6	93	**2KJ4107 - ■ HG32 - ■ ■ G1**	
	178	295	8.19	8 400	2.4	93	**2KJ4107 - ■ HG32 - ■ ■ F1**	
	204	255	7.16	8 500	2.8	93	**2KJ4107 - ■ HG32 - ■ ■ E1**	
	237	220	6.15	8 500	3.2	93	**2KJ4107 - ■ HG32 - ■ ■ D1**	
	269	195	5.43	8 500	3.5	93	**2KJ4107 - ■ HG32 - ■ ■ C1**	
	316	166	4.62	8 400	4.7	93	**2KJ4107 - ■ HG32 - ■ ■ B1**	
	Z.79-LEN132SR4P							
	57	925	25.62	13 100	0.91	96	**2KJ4107 - ■ HG33 - ■ ■ R1**	
	60	870	24.12	13 000	0.96	96	**2KJ4107 - ■ HG33 - ■ ■ Q1**	
	66	795	22.13	12 700	1.1	96	**2KJ4107 - ■ HG33 - ■ ■ P1**	
	75	695	19.33	12 400	1.2	96	**2KJ4107 - ■ HG33 - ■ ■ N1**	
	84	625	17.31	8 400	1.3	96	**2KJ4107 - ■ HG33 - ■ ■ M1**	
	96	545	15.13	8 800	1.5	96	**2KJ4107 - ■ HG33 - ■ ■ L1**	
	112	465	12.99	9 200	1.8	96	**2KJ4107 - ■ HG33 - ■ ■ K1**	
	127	410	11.48	9 400	2.0	96	**2KJ4107 - ■ HG33 - ■ ■ J1**	
	149	350	9.76	9 400	2.3	96	**2KJ4107 - ■ HG33 - ■ ■ H1**	
	174	300	8.37	9 500	2.6	96	**2KJ4107 - ■ HG33 - ■ ■ G1**	
	178	295	8.19	8 400	2.4	96	**2KJ4107 - ■ HG33 - ■ ■ F1**	
	203	255	7.16	8 600	2.8	96	**2KJ4107 - ■ HG33 - ■ ■ E1**	
	237	220	6.15	8 500	3.2	96	**2KJ4107 - ■ HG33 - ■ ■ D1**	
	268	196	5.43	8 500	3.5	96	**2KJ4107 - ■ HG33 - ■ ■ C1**	
	315	167	4.62	8 400	4.6	96	**2KJ4107 - ■ HG33 - ■ ■ B1**	
	D.89-LEN132SJ4E							
	26	2 000	55.84	18 500	0.84	116	**2KJ4208 - ■ HG32 - ■ ■ B1**	
	30	1 720	47.87	18 500	0.98	116	**2KJ4208 - ■ HG32 - ■ ■ A1**	
	D.89-LEN132SR4P							
	26	2 010	55.84	18 500	0.83	119	**2KJ4208 - ■ HG33 - ■ ■ B1**	
	30	1 720	47.87	18 500	0.97	119	**2KJ4208 - ■ HG33 - ■ ■ A1**	
	E.89-LEN132SJ4E							
	220	235	6.64	8 000	1.1	93	**2KJ4004 - ■ HG32 - ■ ■ P1**	
	260	200	5.62	8 000	1.6	93	**2KJ4004 - ■ HG32 - ■ ■ N1**	
	276	190	5.29	8 000	1.1	93	**2KJ4004 - ■ HG32 - ■ ■ M1**	
	299	176	4.89	8 000	2.0	93	**2KJ4004 - ■ HG32 - ■ ■ L1**	
	336	156	4.35	8 000	2.3	93	**2KJ4004 - ■ HG32 - ■ ■ K1**	
	378	139	3.86	8 000	2.6	93	**2KJ4004 - ■ HG32 - ■ ■ J1**	
	422	124	3.46	8 000	2.9	93	**2KJ4004 - ■ HG32 - ■ ■ H1**	
	493	106	2.96	8 000	3.4	93	**2KJ4004 - ■ HG32 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**E.89-LEN132SJ4E**							
	553	95	2.64	8 000	3.8	93	**2KJ4004 - ■ HG32 - ■ ■ F1**	
	627	84	2.33	8 000	4.3	93	**2KJ4004 - ■ HG32 - ■ ■ E1**	
	712	74	2.05	7 900	4.9	93	**2KJ4004 - ■ HG32 - ■ ■ D1**	
	820	64	1.78	7 600	5.7	93	**2KJ4004 - ■ HG32 - ■ ■ C1**	
	961	55	1.52	7 300	6.6	93	**2KJ4004 - ■ HG32 - ■ ■ B1**	
	E.89-LEN132SR4P							
	219	240	6.64	8 000	1.1	96	**2KJ4004 - ■ HG33 - ■ ■ P1**	
	259	200	5.62	8 000	1.6	96	**2KJ4004 - ■ HG33 - ■ ■ N1**	
	275	191	5.29	8 000	1.1	96	**2KJ4004 - ■ HG33 - ■ ■ M1**	
	298	177	4.89	8 000	2.0	96	**2KJ4004 - ■ HG33 - ■ ■ L1**	
	334	157	4.35	8 000	2.3	96	**2KJ4004 - ■ HG33 - ■ ■ K1**	
	377	139	3.86	8 000	2.6	96	**2KJ4004 - ■ HG33 - ■ ■ J1**	
	421	125	3.46	8 000	2.9	96	**2KJ4004 - ■ HG33 - ■ ■ H1**	
	492	107	2.96	8 000	3.4	96	**2KJ4004 - ■ HG33 - ■ ■ G1**	
	551	95	2.64	8 000	3.8	96	**2KJ4004 - ■ HG33 - ■ ■ F1**	
	624	84	2.33	8 000	4.3	96	**2KJ4004 - ■ HG33 - ■ ■ E1**	
	710	74	2.05	7 900	4.9	96	**2KJ4004 - ■ HG33 - ■ ■ D1**	
	817	64	1.78	7 600	5.7	96	**2KJ4004 - ■ HG33 - ■ ■ C1**	
	957	55	1.52	7 300	6.6	96	**2KJ4004 - ■ HG33 - ■ ■ B1**	
	Z.89-LEN132SJ4E							
	37	1 410	39.41	18 500	1.2	115	**2KJ4108 - ■ HG32 - ■ ■ U1**	
	44	1 200	33.38	18 500	1.4	115	**2KJ4108 - ■ HG32 - ■ ■ T1**	
	46	1 130	31.41	18 500	1.5	115	**2KJ4108 - ■ HG32 - ■ ■ S1**	
	50	1 040	29.01	18 500	1.6	115	**2KJ4108 - ■ HG32 - ■ ■ R1**	
	57	925	25.81	18 500	1.8	115	**2KJ4108 - ■ HG32 - ■ ■ Q1**	
	64	825	22.92	18 500	2.0	115	**2KJ4108 - ■ HG32 - ■ ■ P1**	
	71	735	20.52	18 500	2.3	115	**2KJ4108 - ■ HG32 - ■ ■ N1**	
	83	630	17.54	18 500	2.7	115	**2KJ4108 - ■ HG32 - ■ ■ M1**	
	93	560	15.66	18 500	3.0	115	**2KJ4108 - ■ HG32 - ■ ■ L1**	
	105	495	13.84	17 800	3.4	115	**2KJ4108 - ■ HG32 - ■ ■ K1**	
	120	435	12.15	17 200	3.7	115	**2KJ4108 - ■ HG32 - ■ ■ J1**	
	212	245	6.89	14 600	4.2	115	**2KJ4108 - ■ HG32 - ■ ■ E1**	
	Z.89-LEN132SR4P							
	37	1 420	39.41	18 500	1.2	118	**2KJ4108 - ■ HG33 - ■ ■ U1**	
	44	1 200	33.38	18 500	1.4	118	**2KJ4108 - ■ HG33 - ■ ■ T1**	
	46	1 130	31.41	18 500	1.5	118	**2KJ4108 - ■ HG33 - ■ ■ S1**	
	50	1 040	29.01	18 500	1.6	118	**2KJ4108 - ■ HG33 - ■ ■ R1**	
	56	930	25.81	18 500	1.8	118	**2KJ4108 - ■ HG33 - ■ ■ Q1**	
	63	825	22.92	18 500	2.0	118	**2KJ4108 - ■ HG33 - ■ ■ P1**	
	71	740	20.52	18 500	2.3	118	**2KJ4108 - ■ HG33 - ■ ■ N1**	
	83	630	17.54	18 500	2.7	118	**2KJ4108 - ■ HG33 - ■ ■ M1**	
	93	565	15.66	18 500	3.0	118	**2KJ4108 - ■ HG33 - ■ ■ L1**	
	105	500	13.84	17 800	3.4	118	**2KJ4108 - ■ HG33 - ■ ■ K1**	
	120	435	12.15	17 200	3.7	118	**2KJ4108 - ■ HG33 - ■ ■ J1**	
	211	245	6.89	14 600	4.2	118	**2KJ4108 - ■ HG33 - ■ ■ E1**	
	D.109-LEN132SJ4E							
	14	3 830	106.7	20 000	0.81	157	**2KJ4210 - ■ HG32 - ■ ■ G1**	
	15	3 420	95.28	20 200	0.9	157	**2KJ4210 - ■ HG32 - ■ ■ F1**	
	17	3 030	84.21	20 200	1.0	157	**2KJ4210 - ■ HG32 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**D.109-LEN132SJ4E**							
	20	2 650	73.9	20 200	1.2	157	**2KJ4210 - ■ HG32 - ■ ■ D1**	
	23	2 310	64.34	20 200	1.3	157	**2KJ4210 - ■ HG32 - ■ ■ C1**	
	D.109-LEN132SR4P							
	14	3 850	106.7	20 000	0.8	160	**2KJ4210 - ■ HG33 - ■ ■ G1**	
	15	3 440	95.28	20 200	0.9	160	**2KJ4210 - ■ HG33 - ■ ■ F1**	
	17	3 040	84.21	20 200	1.0	160	**2KJ4210 - ■ HG33 - ■ ■ E1**	
	20	2 660	73.9	20 200	1.2	160	**2KJ4210 - ■ HG33 - ■ ■ D1**	
	23	2 320	64.34	20 200	1.3	160	**2KJ4210 - ■ HG33 - ■ ■ C1**	
	E.109-LEN132SJ4E							
	203	255	7.19	10 500	2.2	116	**2KJ4005 - ■ HG32 - ■ ■ Q1**	
	216	240	6.76	10 500	2.3	116	**2KJ4005 - ■ HG32 - ■ ■ P1**	
	232	225	6.28	10 500	2.5	116	**2KJ4005 - ■ HG32 - ■ ■ N1**	
	263	200	5.55	10 500	2.8	116	**2KJ4005 - ■ HG32 - ■ ■ M1**	
	295	178	4.95	10 500	3.1	116	**2KJ4005 - ■ HG32 - ■ ■ L1**	
	327	160	4.46	10 500	3.5	116	**2KJ4005 - ■ HG32 - ■ ■ K1**	
	377	139	3.87	10 500	4.0	116	**2KJ4005 - ■ HG32 - ■ ■ J1**	
	420	125	3.48	10 500	4.4	116	**2KJ4005 - ■ HG32 - ■ ■ H1**	
	480	109	3.04	10 500	5.0	116	**2KJ4005 - ■ HG32 - ■ ■ G1**	
	539	98	2.71	10 500	5.6	116	**2KJ4005 - ■ HG32 - ■ ■ F1**	
	E.109-LEN132SR4P							
	202	260	7.19	10 500	2.2	119	**2KJ4005 - ■ HG33 - ■ ■ Q1**	
	215	240	6.76	10 500	2.3	119	**2KJ4005 - ■ HG33 - ■ ■ P1**	
	232	225	6.28	10 500	2.5	119	**2KJ4005 - ■ HG33 - ■ ■ N1**	
	262	200	5.55	10 500	2.8	119	**2KJ4005 - ■ HG33 - ■ ■ M1**	
	294	179	4.95	10 500	3.1	119	**2KJ4005 - ■ HG33 - ■ ■ L1**	
	326	161	4.46	10 500	3.5	119	**2KJ4005 - ■ HG33 - ■ ■ K1**	
	376	140	3.87	10 500	4.0	119	**2KJ4005 - ■ HG33 - ■ ■ J1**	
	418	126	3.48	10 500	4.4	119	**2KJ4005 - ■ HG33 - ■ ■ H1**	
	479	110	3.04	10 500	5.0	119	**2KJ4005 - ■ HG33 - ■ ■ G1**	
	537	98	2.71	10 500	5.6	119	**2KJ4005 - ■ HG33 - ■ ■ F1**	
	Z.109-LEN132SJ4E							
	29	1 840	51.17	20 200	1.7	155	**2KJ4110 - ■ HG32 - ■ ■ X1**	
	33	1 570	43.64	20 200	2.0	155	**2KJ4110 - ■ HG32 - ■ ■ W1**	
	36	1 470	41.07	20 200	2.1	155	**2KJ4110 - ■ HG32 - ■ ■ V1**	
	38	1 370	38.12	20 200	2.3	155	**2KJ4110 - ■ HG32 - ■ ■ U1**	
	43	1 210	33.7	20 200	2.6	155	**2KJ4110 - ■ HG32 - ■ ■ T1**	
	Z.109-LEN132SR4P							
	28	1 840	51.17	20 200	1.7	158	**2KJ4110 - ■ HG33 - ■ ■ X1**	
	33	1 570	43.64	20 200	2.0	158	**2KJ4110 - ■ HG33 - ■ ■ W1**	
	35	1 480	41.07	20 200	2.1	158	**2KJ4110 - ■ HG33 - ■ ■ V1**	
	38	1 370	38.12	20 200	2.3	158	**2KJ4110 - ■ HG33 - ■ ■ U1**	
	43	1 210	33.7	20 200	2.5	158	**2KJ4110 - ■ HG33 - ■ ■ T1**	
	D.129-LEN132SJ4E							
	8.7	6 030	167.63	26 400	0.83	221	**2KJ4211 - ■ HG32 - ■ ■ J1**	
	10	5 230	145.49	26 900	0.96	221	**2KJ4211 - ■ HG32 - ■ ■ H1**	
	11	4 700	130.84	27 200	1.1	221	**2KJ4211 - ■ HG32 - ■ ■ G1**	
	13	4 110	114.36	27 500	1.2	221	**2KJ4211 - ■ HG32 - ■ ■ F1**	
	14	3 670	102.05	27 800	1.4	221	**2KJ4211 - ■ HG32 - ■ ■ E1**	
	16	3 230	89.91	28 100	1.5	221	**2KJ4211 - ■ HG32 - ■ ■ D1**	
	19	2 830	78.78	28 300	1.8	221	**2KJ4211 - ■ HG32 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
5.5	**D.129-LEN132SR4P**							
	8.7	6 050	167.63	26 400	0.83	224	**2KJ4211 - ■ HG33 - ■ ■ J1**	
	10	5 250	145.49	26 900	0.95	224	**2KJ4211 - ■ HG33 - ■ ■ H1**	
	11	4 720	130.84	27 200	1.1	224	**2KJ4211 - ■ HG33 - ■ ■ G1**	
	13	4 120	114.36	27 500	1.2	224	**2KJ4211 - ■ HG33 - ■ ■ F1**	
	14	3 680	102.05	27 800	1.4	224	**2KJ4211 - ■ HG33 - ■ ■ E1**	
	16	3 240	89.91	28 100	1.5	224	**2KJ4211 - ■ HG33 - ■ ■ D1**	
	18	2 840	78.78	28 300	1.8	224	**2KJ4211 - ■ HG33 - ■ ■ C1**	
	E.129-LEN132SJ4E							
	149	350	9.79	13 500	1.9	141	**2KJ4006 - ■ HG32 - ■ ■ T1**	
	174	300	8.38	13 500	2.2	141	**2KJ4006 - ■ HG32 - ■ ■ S1**	
	185	280	7.88	13 500	2.3	141	**2KJ4006 - ■ HG32 - ■ ■ R1**	
	198	265	7.39	13 500	3.0	141	**2KJ4006 - ■ HG32 - ■ ■ Q1**	
	223	235	6.55	13 500	3.4	141	**2KJ4006 - ■ HG32 - ■ ■ P1**	
	251	205	5.82	13 500	3.8	141	**2KJ4006 - ■ HG32 - ■ ■ N1**	
	278	189	5.25	13 500	4.2	141	**2KJ4006 - ■ HG32 - ■ ■ M1**	
	314	167	4.65	13 500	4.8	141	**2KJ4006 - ■ HG32 - ■ ■ L1**	
	E.129-LEN132SR4P							
	149	350	9.79	13 500	1.9	144	**2KJ4006 - ■ HG33 - ■ ■ T1**	
	174	300	8.38	13 500	2.2	144	**2KJ4006 - ■ HG33 - ■ ■ S1**	
	185	280	7.88	13 500	2.3	144	**2KJ4006 - ■ HG33 - ■ ■ R1**	
	197	265	7.39	13 500	3.0	144	**2KJ4006 - ■ HG33 - ■ ■ Q1**	
	222	235	6.55	13 500	3.4	144	**2KJ4006 - ■ HG33 - ■ ■ P1**	
	250	210	5.82	13 500	3.8	144	**2KJ4006 - ■ HG33 - ■ ■ N1**	
	277	190	5.25	13 500	4.2	144	**2KJ4006 - ■ HG33 - ■ ■ M1**	
	313	168	4.65	13 500	4.7	144	**2KJ4006 - ■ HG33 - ■ ■ L1**	
	Z.129-LEN132SJ4E							
	23	2 240	62.48	28 600	2.2	217	**2KJ4111 - ■ HG32 - ■ ■ X1**	
	Z.129-LEN132SR4P							
	23	2 250	62.48	28 600	2.2	220	**2KJ4111 - ■ HG33 - ■ ■ X1**	
	D.149-LEN132SJ4E							
	5.5	9 510	264.51	50 400	0.84	306	**2KJ4212 - ■ HG32 - ■ ■ U1**	
	5.9	8 920	247.95	50 700	0.9	306	**2KJ4212 - ■ HG32 - ■ ■ T1**	
	6.6	7 900	219.8	51 200	1.0	306	**2KJ4212 - ■ HG32 - ■ ■ S1**	
	7.5	7 020	195.24	51 600	1.1	306	**2KJ4212 - ■ HG32 - ■ ■ R1**	
	8.3	6 330	176.18	52 000	1.3	306	**2KJ4212 - ■ HG32 - ■ ■ Q1**	
	9.4	5 610	156.11	52 300	1.4	306	**2KJ4212 - ■ HG32 - ■ ■ P1**	
	11	4 970	138.26	52 600	1.6	306	**2KJ4212 - ■ HG32 - ■ ■ N1**	
	12	4 420	123.04	52 900	1.8	306	**2KJ4212 - ■ HG32 - ■ ■ M1**	
	13	3 960	110.26	53 100	2.0	306	**2KJ4212 - ■ HG32 - ■ ■ L1**	
	D.149-LEN132SR4P							
	5.5	9 540	264.51	50 400	0.84	309	**2KJ4212 - ■ HG33 - ■ ■ U1**	
	5.9	8 950	247.95	50 700	0.89	309	**2KJ4212 - ■ HG33 - ■ ■ T1**	
	6.6	7 930	219.8	51 200	1.0	309	**2KJ4212 - ■ HG33 - ■ ■ S1**	
	7.5	7 040	195.24	51 600	1.1	309	**2KJ4212 - ■ HG33 - ■ ■ R1**	
	8.3	6 360	176.18	51 900	1.3	309	**2KJ4212 - ■ HG33 - ■ ■ Q1**	
	9.3	5 630	156.11	52 300	1.4	309	**2KJ4212 - ■ HG33 - ■ ■ P1**	
	11	4 990	138.26	52 600	1.6	309	**2KJ4212 - ■ HG33 - ■ ■ N1**	
	12	4 440	123.04	52 900	1.8	309	**2KJ4212 - ■ HG33 - ■ ■ M1**	
	13	3 980	110.26	53 100	2.0	309	**2KJ4212 - ■ HG33 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**E.149-LEN132SJ4E**							
	150	350	9.76	16 000	3.4	179	**2KJ4007 - ■ HG32 - ■ ■ S1**	
	160	325	9.11	16 000	3.8	179	**2KJ4007 - ■ HG32 - ■ ■ R1**	
	E.149-LEN132SR4P							
	149	350	9.76	16 000	3.4	182	**2KJ4007 - ■ HG33 - ■ ■ S1**	
	160	325	9.11	16 000	3.8	182	**2KJ4007 - ■ HG33 - ■ ■ R1**	
	D.169-LEN132MN6E							
	3.1	16 700	305.28	69 100	0.84	498	**2KJ4213 - ■ HL32 - ■ ■ U1**	**P01**
	3.5	14 800	271.4	69 800	0.94	498	**2KJ4213 - ■ HL32 - ■ ■ T1**	**P01**
	3.9	13 300	243.68	70 400	1.1	498	**2KJ4213 - ■ HL32 - ■ ■ S1**	**P01**
	D.169-LEN132MY6P							
	3.1	16 700	305.28	69 100	0.84	485	**2KJ4213 - ■ HK33 - ■ ■ U1**	**P01**
	3.5	14 800	271.4	69 800	0.94	485	**2KJ4213 - ■ HK33 - ■ ■ T1**	**P01**
	3.9	13 300	243.68	70 400	1.1	485	**2KJ4213 - ■ HK33 - ■ ■ S1**	**P01**
	D.169-LEN132SJ4E							
	4.5	11 700	327.18	71 000	1.2	484	**2KJ4213 - ■ HG32 - ■ ■ V1**	
	4.8	10 900	305.28	71 300	1.3	484	**2KJ4213 - ■ HG32 - ■ ■ U1**	
	5.4	9 760	271.4	71 700	1.4	484	**2KJ4213 - ■ HG32 - ■ ■ T1**	
	6	8 760	243.68	72 100	1.6	484	**2KJ4213 - ■ HG32 - ■ ■ S1**	
	6.6	7 930	220.58	72 400	1.8	484	**2KJ4213 - ■ HG32 - ■ ■ R1**	
	7.5	6 970	193.75	72 700	2.0	484	**2KJ4213 - ■ HG32 - ■ ■ Q1**	
	D.169-LEN132SR4P							
	4.4	11 800	327.18	70 900	1.2	487	**2KJ4213 - ■ HG33 - ■ ■ V1**	
	4.8	11 000	305.28	71 200	1.3	487	**2KJ4213 - ■ HG33 - ■ ■ U1**	
	5.4	9 790	271.4	71 700	1.4	487	**2KJ4213 - ■ HG33 - ■ ■ T1**	
	6	8 790	243.68	72 100	1.6	487	**2KJ4213 - ■ HG33 - ■ ■ S1**	
	6.6	7 960	220.58	72 400	1.8	487	**2KJ4213 - ■ HG33 - ■ ■ R1**	
	7.5	6 990	193.75	72 700	2.0	487	**2KJ4213 - ■ HG33 - ■ ■ Q1**	
	D.189-LEN132MN6E							
	3.1	17 100	313.63	107 000	1.1	711	**2KJ4214 - ■ HL32 - ■ ■ T1**	**P01**
	3.4	15 300	280.59	107 000	1.2	711	**2KJ4214 - ■ HL32 - ■ ■ S1**	**P01**
	3.8	13 800	253.06	107 000	1.4	711	**2KJ4214 - ■ HL32 - ■ ■ R1**	**P01**
	4.3	12 200	223.66	107 000	1.6	711	**2KJ4214 - ■ HL32 - ■ ■ Q1**	**P01**
	D.189-LEN132MY6P							
	3.1	17 100	313.63	107 000	1.1	698	**2KJ4214 - ■ HK33 - ■ ■ T1**	**P01**
	3.4	15 300	280.59	107 000	1.2	698	**2KJ4214 - ■ HK33 - ■ ■ S1**	**P01**
	3.8	13 800	253.06	107 000	1.4	698	**2KJ4214 - ■ HK33 - ■ ■ R1**	**P01**
	4.3	12 200	223.66	107 000	1.6	698	**2KJ4214 - ■ HK33 - ■ ■ Q1**	**P01**
	D.189-LEN132SJ4E							
	4.7	11 200	313.63	107 000	1.7	697	**2KJ4214 - ■ HG32 - ■ ■ T1**	
	5.2	10 000	280.59	107 000	1.9	697	**2KJ4214 - ■ HG32 - ■ ■ S1**	
	5.8	9 100	253.06	107 000	2.1	697	**2KJ4214 - ■ HG32 - ■ ■ R1**	
	D.189-LEN132SR4P							
	4.6	11 300	313.63	107 000	1.7	700	**2KJ4214 - ■ HG33 - ■ ■ T1**	
	5.2	10 100	280.59	107 000	1.9	700	**2KJ4214 - ■ HG33 - ■ ■ S1**	
	5.7	9 130	253.06	107 000	2.1	700	**2KJ4214 - ■ HG33 - ■ ■ R1**	
	D.169-Z69-LEN132SJ4E							
	2.9	16 800	496	69 100	0.83	515	**2KJ4242 - ■ HG32 - ■ ■ C1**	
	3.5	14 200	418	70 100	0.98	515	**2KJ4242 - ■ HG32 - ■ ■ B1**	
	4	12 300	364	70 800	1.1	515	**2KJ4242 - ■ HG32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**D.169-Z69-LEN132SR4P**							
	2.9	16 900	496	69 000	0.83	518	**2KJ4242 - ■ HG33 - ■ ■ C1**	
	3.5	14 200	418	70 100	0.98	518	**2KJ4242 - ■ HG33 - ■ ■ B1**	
	4	12 400	364	70 700	1.1	518	**2KJ4242 - ■ HG33 - ■ ■ A1**	
	D.189-Z69-LEN132SJ4E							
	2.1	23 400	689	107 000	0.81	728	**2KJ4244 - ■ HG32 - ■ ■ E1**	
	2.5	20 000	590	107 000	0.95	728	**2KJ4244 - ■ HG32 - ■ ■ D1**	
	2.8	17 600	519	107 000	1.1	728	**2KJ4244 - ■ HG32 - ■ ■ C1**	
	3.3	14 900	438	107 000	1.3	728	**2KJ4244 - ■ HG32 - ■ ■ B1**	
	3.8	13 000	382	107 000	1.5	728	**2KJ4244 - ■ HG32 - ■ ■ A1**	
	D.189-Z69-LEN132SR4P							
	2.1	23 500	689	107 000	0.81	731	**2KJ4244 - ■ HG33 - ■ ■ E1**	
	2.5	20 100	590	107 000	0.94	731	**2KJ4244 - ■ HG33 - ■ ■ D1**	
	2.8	17 700	519	107 000	1.1	731	**2KJ4244 - ■ HG33 - ■ ■ C1**	
	3.3	14 900	438	107 000	1.3	731	**2KJ4244 - ■ HG33 - ■ ■ B1**	
	3.8	13 000	382	107 000	1.5	731	**2KJ4244 - ■ HG33 - ■ ■ A1**	
7.5	**E.49-LEN132ML4E**							
	562	128	2.6	1 300	0.8	85	**2KJ4002 - ■ HK32 - ■ ■ E1**	
	E.49-LEN132MT4P							
	560	128	2.6	1 300	0.8	75	**2KJ4002 - ■ HJ33 - ■ ■ E1**	
	Z.49-LEN132ML4E							
	189	380	7.74	2 700	0.84	89	**2KJ4104 - ■ HK32 - ■ ■ H1**	
	202	350	7.21	2 500	0.82	89	**2KJ4104 - ■ HK32 - ■ ■ F1**	
	238	300	6.14	2 500	0.88	89	**2KJ4104 - ■ HK32 - ■ ■ E1**	
	278	255	5.26	2 500	0.95	89	**2KJ4104 - ■ HK32 - ■ ■ D1**	
	316	225	4.62	2 500	0.99	89	**2KJ4104 - ■ HK32 - ■ ■ C1**	
	374	191	3.9	2 500	1.1	89	**2KJ4104 - ■ HK32 - ■ ■ B1**	
	429	167	3.4	2 400	1.1	89	**2KJ4104 - ■ HK32 - ■ ■ A1**	
	Z.49-LEN132MT4P							
	188	380	7.74	2 700	0.84	79	**2KJ4104 - ■ HJ33 - ■ ■ H1**	
	202	355	7.21	2 500	0.82	79	**2KJ4104 - ■ HJ33 - ■ ■ F1**	
	237	300	6.14	2 600	0.88	79	**2KJ4104 - ■ HJ33 - ■ ■ E1**	
	277	255	5.26	2 600	0.95	79	**2KJ4104 - ■ HJ33 - ■ ■ D1**	
	315	225	4.62	2 500	0.99	79	**2KJ4104 - ■ HJ33 - ■ ■ C1**	
	373	192	3.9	2 500	1.1	79	**2KJ4104 - ■ HJ33 - ■ ■ B1**	
	428	167	3.4	2 400	1.1	79	**2KJ4104 - ■ HJ33 - ■ ■ A1**	
	Z.59-LEN132ML4E							
	127	565	11.51	3 500	0.8	91	**2KJ4105 - ■ HK32 - ■ ■ J1**	
	150	475	9.71	3 600	0.94	91	**2KJ4105 - ■ HK32 - ■ ■ H1**	
	173	415	8.46	3 600	1.1	91	**2KJ4105 - ■ HK32 - ■ ■ G1**	
	181	395	8.07	3 500	1.0	91	**2KJ4105 - ■ HK32 - ■ ■ F1**	
	213	335	6.86	3 400	1.2	91	**2KJ4105 - ■ HK32 - ■ ■ E1**	
	248	285	5.88	3 400	1.4	91	**2KJ4105 - ■ HK32 - ■ ■ D1**	
	282	250	5.17	2 200	1.6	91	**2KJ4105 - ■ HK32 - ■ ■ C1**	
	335	210	4.36	2 700	1.9	91	**2KJ4105 - ■ HK32 - ■ ■ B1**	
	384	186	3.8	2 900	2.2	91	**2KJ4105 - ■ HK32 - ■ ■ A1**	
	Z.59-LEN132MT4P							
	150	475	9.71	3 600	0.94	81	**2KJ4105 - ■ HJ33 - ■ ■ H1**	
	172	415	8.46	3 600	1.1	81	**2KJ4105 - ■ HJ33 - ■ ■ G1**	
	180	395	8.07	3 500	1.0	81	**2KJ4105 - ■ HJ33 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
7.5	**Z.59-LEN132MT4P**							
	212	335	6.86	3 400	1.2	81	**2KJ4105 - ■ HJ33 - ■ ■ E1**	
	247	285	5.88	3 400	1.4	81	**2KJ4105 - ■ HJ33 - ■ ■ D1**	
	281	255	5.17	2 100	1.6	81	**2KJ4105 - ■ HJ33 - ■ ■ C1**	
	334	215	4.36	2 600	1.9	81	**2KJ4105 - ■ HJ33 - ■ ■ B1**	
	383	187	3.8	2 900	2.2	81	**2KJ4105 - ■ HJ33 - ■ ■ A1**	
	E.69-LEN132ML4E							
	333	215	4.38	6 100	0.93	92	**2KJ4003 - ■ HK32 - ■ ■ K1**	
	354	200	4.12	6 100	0.82	92	**2KJ4003 - ■ HK32 - ■ ■ J1**	
	386	185	3.78	6 100	1.1	92	**2KJ4003 - ■ HK32 - ■ ■ H1**	
	442	162	3.3	6 100	1.2	92	**2KJ4003 - ■ HK32 - ■ ■ G1**	
	495	145	2.95	6 100	1.4	92	**2KJ4003 - ■ HK32 - ■ ■ F1**	
	566	127	2.58	6 100	1.6	92	**2KJ4003 - ■ HK32 - ■ ■ E1**	
	658	109	2.22	6 100	1.8	92	**2KJ4003 - ■ HK32 - ■ ■ D1**	
	745	96	1.96	6 100	2.0	92	**2KJ4003 - ■ HK32 - ■ ■ C1**	
	874	82	1.67	6 100	2.4	92	**2KJ4003 - ■ HK32 - ■ ■ B1**	
	1 021	70	1.43	6 100	2.8	92	**2KJ4003 - ■ HK32 - ■ ■ A1**	
	E.69-LEN132MT4P							
	332	215	4.38	6 100	0.93	82	**2KJ4003 - ■ HJ33 - ■ ■ K1**	
	353	200	4.12	6 100	0.81	82	**2KJ4003 - ■ HJ33 - ■ ■ J1**	
	385	186	3.78	6 100	1.1	82	**2KJ4003 - ■ HJ33 - ■ ■ H1**	
	441	162	3.3	6 100	1.2	82	**2KJ4003 - ■ HJ33 - ■ ■ G1**	
	493	145	2.95	6 100	1.4	82	**2KJ4003 - ■ HJ33 - ■ ■ F1**	
	564	127	2.58	6 100	1.6	82	**2KJ4003 - ■ HJ33 - ■ ■ E1**	
	655	109	2.22	6 100	1.8	82	**2KJ4003 - ■ HJ33 - ■ ■ D1**	
	742	96	1.96	6 100	2.0	82	**2KJ4003 - ■ HJ33 - ■ ■ C1**	
	871	82	1.67	6 100	2.4	82	**2KJ4003 - ■ HJ33 - ■ ■ B1**	
	1 017	70	1.43	6 100	2.8	82	**2KJ4003 - ■ HJ33 - ■ ■ A1**	
	Z.69-LEN132ML4E							
	104	685	14	8 900	0.87	96	**2KJ4106 - ■ HK32 - ■ ■ K1**	
	119	600	12.31	8 700	0.99	96	**2KJ4106 - ■ HK32 - ■ ■ J1**	
	141	510	10.39	8 400	1.2	96	**2KJ4106 - ■ HK32 - ■ ■ H1**	
	161	440	9.05	6 100	1.3	96	**2KJ4106 - ■ HK32 - ■ ■ G1**	
	172	415	8.5	8 100	1.1	96	**2KJ4106 - ■ HK32 - ■ ■ F1**	
	202	355	7.23	7 800	1.3	96	**2KJ4106 - ■ HK32 - ■ ■ E1**	
	235	300	6.2	5 700	1.5	96	**2KJ4106 - ■ HK32 - ■ ■ D1**	
	268	265	5.45	6 000	1.6	96	**2KJ4106 - ■ HK32 - ■ ■ C1**	
	317	225	4.6	6 300	2.0	96	**2KJ4106 - ■ HK32 - ■ ■ B1**	
	364	197	4.01	6 500	2.3	96	**2KJ4106 - ■ HK32 - ■ ■ A1**	
	Z.69-LEN132MT4P							
	104	685	14	9 000	0.87	86	**2KJ4106 - ■ HJ33 - ■ ■ K1**	
	118	605	12.31	8 700	0.99	86	**2KJ4106 - ■ HJ33 - ■ ■ J1**	
	140	510	10.39	8 500	1.2	86	**2KJ4106 - ■ HJ33 - ■ ■ H1**	
	161	445	9.05	8 200	1.3	86	**2KJ4106 - ■ HJ33 - ■ ■ G1**	
	171	415	8.5	8 100	1.1	86	**2KJ4106 - ■ HJ33 - ■ ■ F1**	
	201	355	7.23	7 800	1.3	86	**2KJ4106 - ■ HJ33 - ■ ■ E1**	
	235	305	6.2	7 500	1.5	86	**2KJ4106 - ■ HJ33 - ■ ■ D1**	
	267	265	5.45	6 000	1.6	86	**2KJ4106 - ■ HJ33 - ■ ■ C1**	
	316	225	4.6	6 300	2.0	86	**2KJ4106 - ■ HJ33 - ■ ■ B1**	
	363	197	4.01	6 500	2.3	86	**2KJ4106 - ■ HJ33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**Z.79-LEN132ML4E**							
	76	945	19.33	11 600	0.89	106	**2KJ4107 - ■ HK32 - ■ ■ N1**	
	84	845	17.31	11 400	0.99	106	**2KJ4107 - ■ HK32 - ■ ■ M1**	
	96	740	15.13	11 100	1.1	106	**2KJ4107 - ■ HK32 - ■ ■ L1**	
	112	635	12.99	10 700	1.3	106	**2KJ4107 - ■ HK32 - ■ ■ K1**	
	127	560	11.48	10 400	1.5	106	**2KJ4107 - ■ HK32 - ■ ■ J1**	
	150	475	9.76	10 100	1.7	106	**2KJ4107 - ■ HK32 - ■ ■ H1**	
	174	410	8.37	7 800	1.9	106	**2KJ4107 - ■ HK32 - ■ ■ G1**	
	178	400	8.19	6 500	1.8	106	**2KJ4107 - ■ HK32 - ■ ■ F1**	
	204	350	7.16	6 800	2.1	106	**2KJ4107 - ■ HK32 - ■ ■ E1**	
	237	300	6.15	7 000	2.4	106	**2KJ4107 - ■ HK32 - ■ ■ D1**	
	269	265	5.43	7 200	2.6	106	**2KJ4107 - ■ HK32 - ■ ■ C1**	
	316	225	4.62	7 300	3.4	106	**2KJ4107 - ■ HK32 - ■ ■ B1**	
	369	194	3.96	7 300	4.0	106	**2KJ4107 - ■ HK32 - ■ ■ A1**	
	Z.79-LEN132MT4P							
	75	950	19.33	11 600	0.88	96	**2KJ4107 - ■ HJ33 - ■ ■ N1**	
	84	850	17.31	11 400	0.99	96	**2KJ4107 - ■ HJ33 - ■ ■ M1**	
	96	745	15.13	11 100	1.1	96	**2KJ4107 - ■ HJ33 - ■ ■ L1**	
	112	635	12.99	10 700	1.3	96	**2KJ4107 - ■ HJ33 - ■ ■ K1**	
	127	565	11.48	10 400	1.5	96	**2KJ4107 - ■ HJ33 - ■ ■ J1**	
	149	480	9.76	10 100	1.7	96	**2KJ4107 - ■ HJ33 - ■ ■ H1**	
	174	410	8.37	7 800	1.9	96	**2KJ4107 - ■ HJ33 - ■ ■ G1**	
	178	400	8.19	6 500	1.8	96	**2KJ4107 - ■ HJ33 - ■ ■ F1**	
	203	350	7.16	6 800	2.1	96	**2KJ4107 - ■ HJ33 - ■ ■ E1**	
	237	300	6.15	7 100	2.4	96	**2KJ4107 - ■ HJ33 - ■ ■ D1**	
	268	265	5.43	7 200	2.6	96	**2KJ4107 - ■ HJ33 - ■ ■ C1**	
	315	225	4.62	7 300	3.4	96	**2KJ4107 - ■ HJ33 - ■ ■ B1**	
	367	195	3.96	7 300	4.0	96	**2KJ4107 - ■ HJ33 - ■ ■ A1**	
	E.89-LEN132ML4E							
	220	325	6.64	8 000	0.8	106	**2KJ4004 - ■ HK32 - ■ ■ P1**	
	260	275	5.62	8 000	1.2	106	**2KJ4004 - ■ HK32 - ■ ■ N1**	
	276	260	5.29	8 000	0.81	106	**2KJ4004 - ■ HK32 - ■ ■ M1**	
	299	240	4.89	8 000	1.5	106	**2KJ4004 - ■ HK32 - ■ ■ L1**	
	336	210	4.35	8 000	1.7	106	**2KJ4004 - ■ HK32 - ■ ■ K1**	
	378	189	3.86	8 000	1.9	106	**2KJ4004 - ■ HK32 - ■ ■ J1**	
	422	170	3.46	8 000	2.2	106	**2KJ4004 - ■ HK32 - ■ ■ H1**	
	493	145	2.96	8 000	2.5	106	**2KJ4004 - ■ HK32 - ■ ■ G1**	
	553	130	2.64	8 000	2.8	106	**2KJ4004 - ■ HK32 - ■ ■ F1**	
	627	114	2.33	8 000	3.1	106	**2KJ4004 - ■ HK32 - ■ ■ E1**	
	712	101	2.05	7 700	3.6	106	**2KJ4004 - ■ HK32 - ■ ■ D1**	
	820	87	1.78	7 400	4.2	106	**2KJ4004 - ■ HK32 - ■ ■ C1**	
	961	75	1.52	7 100	4.8	106	**2KJ4004 - ■ HK32 - ■ ■ B1**	
	1 123	64	1.3	6 800	5.6	106	**2KJ4004 - ■ HK32 - ■ ■ A1**	
	E.89-LEN132MT4P							
	219	325	6.64	8 000	0.8	96	**2KJ4004 - ■ HJ33 - ■ ■ P1**	
	259	275	5.62	8 000	1.2	96	**2KJ4004 - ■ HJ33 - ■ ■ N1**	
	275	260	5.29	8 000	0.81	96	**2KJ4004 - ■ HJ33 - ■ ■ M1**	
	298	240	4.89	8 000	1.5	96	**2KJ4004 - ■ HJ33 - ■ ■ L1**	
	334	210	4.35	8 000	1.7	96	**2KJ4004 - ■ HJ33 - ■ ■ K1**	
	377	190	3.86	8 000	1.9	96	**2KJ4004 - ■ HJ33 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
7.5	**E.89-LEN132MT4P**							
	421	170	3.46	8 000	2.1	96	**2KJ4004 - ■ HJ33 - ■ ■ H1**	
	492	146	2.96	8 000	2.5	96	**2KJ4004 - ■ HJ33 - ■ ■ G1**	
	551	130	2.64	8 000	2.8	96	**2KJ4004 - ■ HJ33 - ■ ■ F1**	
	624	115	2.33	8 000	3.1	96	**2KJ4004 - ■ HJ33 - ■ ■ E1**	
	710	101	2.05	7 700	3.6	96	**2KJ4004 - ■ HJ33 - ■ ■ D1**	
	817	88	1.78	7 400	4.2	96	**2KJ4004 - ■ HJ33 - ■ ■ C1**	
	957	75	1.52	7 100	4.8	96	**2KJ4004 - ■ HJ33 - ■ ■ B1**	
	1 119	64	1.3	6 800	5.6	96	**2KJ4004 - ■ HJ33 - ■ ■ A1**	
	Z.89-LEN132ML4E							
	37	1 930	39.41	18 500	0.87	128	**2KJ4108 - ■ HK32 - ■ ■ U1**	
	44	1 630	33.38	18 500	1.0	128	**2KJ4108 - ■ HK32 - ■ ■ T1**	
	46	1 540	31.41	18 500	1.1	128	**2KJ4108 - ■ HK32 - ■ ■ S1**	
	50	1 420	29.01	18 500	1.2	128	**2KJ4108 - ■ HK32 - ■ ■ R1**	
	57	1 260	25.81	18 500	1.3	128	**2KJ4108 - ■ HK32 - ■ ■ Q1**	
	64	1 120	22.92	18 500	1.5	128	**2KJ4108 - ■ HK32 - ■ ■ P1**	
	71	1 000	20.52	18 500	1.7	128	**2KJ4108 - ■ HK32 - ■ ■ N1**	
	83	860	17.54	18 400	2.0	128	**2KJ4108 - ■ HK32 - ■ ■ M1**	
	93	765	15.66	17 900	2.2	128	**2KJ4108 - ■ HK32 - ■ ■ L1**	
	105	675	13.84	17 300	2.5	128	**2KJ4108 - ■ HK32 - ■ ■ K1**	
	120	595	12.15	16 700	2.7	128	**2KJ4108 - ■ HK32 - ■ ■ J1**	
	138	515	10.58	16 100	3.1	128	**2KJ4108 - ■ HK32 - ■ ■ H1**	
	162	440	9.04	15 400	3.5	128	**2KJ4108 - ■ HK32 - ■ ■ G1**	
	189	380	7.74	14 800	4.0	128	**2KJ4108 - ■ HK32 - ■ ■ F1**	
	212	335	6.89	14 400	3.1	128	**2KJ4108 - ■ HK32 - ■ ■ E1**	
	241	295	6.05	13 800	3.6	128	**2KJ4108 - ■ HK32 - ■ ■ D1**	
	278	255	5.26	13 300	4.1	128	**2KJ4108 - ■ HK32 - ■ ■ C1**	
	324	220	4.5	12 600	4.8	128	**2KJ4108 - ■ HK32 - ■ ■ B1**	
	Z.89-LEN132MT4P							
	37	1 940	39.41	18 500	0.87	118	**2KJ4108 - ■ HJ33 - ■ ■ U1**	
	44	1 640	33.38	18 500	1.0	118	**2KJ4108 - ■ HJ33 - ■ ■ T1**	
	46	1 540	31.41	18 500	1.1	118	**2KJ4108 - ■ HJ33 - ■ ■ S1**	
	50	1 420	29.01	18 500	1.2	118	**2KJ4108 - ■ HJ33 - ■ ■ R1**	
	56	1 270	25.81	18 500	1.3	118	**2KJ4108 - ■ HJ33 - ■ ■ Q1**	
	63	1 120	22.92	18 500	1.5	118	**2KJ4108 - ■ HJ33 - ■ ■ P1**	
	71	1 010	20.52	18 500	1.7	118	**2KJ4108 - ■ HJ33 - ■ ■ N1**	
	83	860	17.54	18 400	1.9	118	**2KJ4108 - ■ HJ33 - ■ ■ M1**	
	93	770	15.66	17 900	2.2	118	**2KJ4108 - ■ HJ33 - ■ ■ L1**	
	105	680	13.84	17 300	2.5	118	**2KJ4108 - ■ HJ33 - ■ ■ K1**	
	120	595	12.15	16 700	2.7	118	**2KJ4108 - ■ HJ33 - ■ ■ J1**	
	138	520	10.58	16 100	3.1	118	**2KJ4108 - ■ HJ33 - ■ ■ H1**	
	161	445	9.04	15 400	3.5	118	**2KJ4108 - ■ HJ33 - ■ ■ G1**	
	188	380	7.74	14 800	4.0	118	**2KJ4108 - ■ HJ33 - ■ ■ F1**	
	211	335	6.89	14 400	3.1	118	**2KJ4108 - ■ HJ33 - ■ ■ E1**	
	240	295	6.05	13 800	3.6	118	**2KJ4108 - ■ HJ33 - ■ ■ D1**	
	277	255	5.26	13 300	4.1	118	**2KJ4108 - ■ HJ33 - ■ ■ C1**	
	323	220	4.5	12 700	4.8	118	**2KJ4108 - ■ HJ33 - ■ ■ B1**	
	D.109-LEN132ML4E							
	20	3 620	73.9	20 200	0.86	170	**2KJ4210 - ■ HK32 - ■ ■ D1**	
	23	3 150	64.34	20 200	0.98	170	**2KJ4210 - ■ HK32 - ■ ■ C1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**D.109-LEN132MT4P**							
	20	3 630	73.9	20 200	0.85	160	**2KJ4210 - ■ HJ33 - ■ ■ D1**	
	23	3 160	64.34	20 200	0.98	160	**2KJ4210 - ■ HJ33 - ■ ■ C1**	
	E.109-LEN132ML4E							
	203	350	7.19	10 500	1.6	129	**2KJ4005 - ■ HK32 - ■ ■ Q1**	
	216	330	6.76	10 500	1.7	129	**2KJ4005 - ■ HK32 - ■ ■ P1**	
	232	305	6.28	10 500	1.8	129	**2KJ4005 - ■ HK32 - ■ ■ N1**	
	263	270	5.55	10 500	2.1	129	**2KJ4005 - ■ HK32 - ■ ■ M1**	
	295	240	4.95	10 500	2.3	129	**2KJ4005 - ■ HK32 - ■ ■ L1**	
	327	215	4.46	10 500	2.6	129	**2KJ4005 - ■ HK32 - ■ ■ K1**	
	377	190	3.87	10 500	2.9	129	**2KJ4005 - ■ HK32 - ■ ■ J1**	
	420	171	3.48	10 500	3.2	129	**2KJ4005 - ■ HK32 - ■ ■ H1**	
	480	149	3.04	10 500	3.7	129	**2KJ4005 - ■ HK32 - ■ ■ G1**	
	539	133	2.71	10 500	4.1	129	**2KJ4005 - ■ HK32 - ■ ■ F1**	
	611	117	2.39	10 500	4.6	129	**2KJ4005 - ■ HK32 - ■ ■ E1**	
	695	103	2.1	10 500	5.2	129	**2KJ4005 - ■ HK32 - ■ ■ D1**	
	798	90	1.83	10 100	5.9	129	**2KJ4005 - ■ HK32 - ■ ■ C1**	
	874	82	1.67	9 900	6.5	129	**2KJ4005 - ■ HK32 - ■ ■ B1**	
	1 021	70	1.43	9 500	6.6	129	**2KJ4005 - ■ HK32 - ■ ■ A1**	
	E.109-LEN132MT4P							
	202	350	7.19	10 500	1.6	119	**2KJ4005 - ■ HJ33 - ■ ■ Q1**	
	215	330	6.76	10 500	1.7	119	**2KJ4005 - ■ HJ33 - ■ ■ P1**	
	232	305	6.28	10 500	1.8	119	**2KJ4005 - ■ HJ33 - ■ ■ N1**	
	262	270	5.55	10 500	2.0	119	**2KJ4005 - ■ HJ33 - ■ ■ M1**	
	294	240	4.95	10 500	2.3	119	**2KJ4005 - ■ HJ33 - ■ ■ L1**	
	326	220	4.46	10 500	2.6	119	**2KJ4005 - ■ HJ33 - ■ ■ K1**	
	376	191	3.87	10 500	2.9	119	**2KJ4005 - ■ HJ33 - ■ ■ J1**	
	418	171	3.48	10 500	3.2	119	**2KJ4005 - ■ HJ33 - ■ ■ H1**	
	479	150	3.04	10 500	3.6	119	**2KJ4005 - ■ HJ33 - ■ ■ G1**	
	537	133	2.71	10 500	4.1	119	**2KJ4005 - ■ HJ33 - ■ ■ F1**	
	609	118	2.39	10 500	4.6	119	**2KJ4005 - ■ HJ33 - ■ ■ E1**	
	693	103	2.1	10 500	5.2	119	**2KJ4005 - ■ HJ33 - ■ ■ D1**	
	795	90	1.83	10 100	5.9	119	**2KJ4005 - ■ HJ33 - ■ ■ C1**	
	871	82	1.67	9 900	6.4	119	**2KJ4005 - ■ HJ33 - ■ ■ B1**	
	1 017	70	1.43	9 500	6.6	119	**2KJ4005 - ■ HJ33 - ■ ■ A1**	
	Z.109-LEN132ML4E							
	29	2 510	51.17	20 200	1.2	168	**2KJ4110 - ■ HK32 - ■ ■ X1**	
	33	2 140	43.64	20 200	1.4	168	**2KJ4110 - ■ HK32 - ■ ■ W1**	
	36	2 010	41.07	20 200	1.5	168	**2KJ4110 - ■ HK32 - ■ ■ V1**	
	38	1 870	38.12	20 200	1.7	168	**2KJ4110 - ■ HK32 - ■ ■ U1**	
	43	1 650	33.7	20 200	1.9	168	**2KJ4110 - ■ HK32 - ■ ■ T1**	
	49	1 470	30.08	20 200	2.1	168	**2KJ4110 - ■ HK32 - ■ ■ S1**	
	54	1 320	27.07	20 200	2.3	168	**2KJ4110 - ■ HK32 - ■ ■ R1**	
	62	1 150	23.49	20 200	2.5	168	**2KJ4110 - ■ HK32 - ■ ■ Q1**	
	69	1 030	21.13	20 200	2.7	168	**2KJ4110 - ■ HK32 - ■ ■ P1**	
	79	905	18.47	20 200	3.0	168	**2KJ4110 - ■ HK32 - ■ ■ N1**	
	89	805	16.48	20 200	3.3	168	**2KJ4110 - ■ HK32 - ■ ■ M1**	
	Z.109-LEN132MT4P							
	28	2 510	51.17	20 200	1.2	158	**2KJ4110 - ■ HJ33 - ■ ■ X1**	
	33	2 140	43.64	20 200	1.4	158	**2KJ4110 - ■ HJ33 - ■ ■ W1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**Z.109-LEN132MT4P**							
	35	2 020	41.07	20 200	1.5	158	**2KJ4110 - ■ HJ33 - ■ ■ V1**	
	38	1 870	38.12	20 200	1.7	158	**2KJ4110 - ■ HJ33 - ■ ■ U1**	
	43	1 650	33.7	20 200	1.9	158	**2KJ4110 - ■ HJ33 - ■ ■ T1**	
	48	1 480	30.08	20 200	2.1	158	**2KJ4110 - ■ HJ33 - ■ ■ S1**	
	54	1 330	27.07	20 200	2.3	158	**2KJ4110 - ■ HJ33 - ■ ■ R1**	
	62	1 150	23.49	20 200	2.5	158	**2KJ4110 - ■ HJ33 - ■ ■ Q1**	
	69	1 040	21.13	20 200	2.7	158	**2KJ4110 - ■ HJ33 - ■ ■ P1**	
	79	905	18.47	20 200	3.0	158	**2KJ4110 - ■ HJ33 - ■ ■ N1**	
	88	810	16.48	20 200	3.2	158	**2KJ4110 - ■ HJ33 - ■ ■ M1**	
	D.129-LEN132ML4E							
	13	5 610	114.36	26 700	0.89	234	**2KJ4211 - ■ HK32 - ■ ■ F1**	
	14	5 000	102.05	27 000	1.0	234	**2KJ4211 - ■ HK32 - ■ ■ E1**	
	16	4 410	89.91	27 400	1.1	234	**2KJ4211 - ■ HK32 - ■ ■ D1**	
	19	3 860	78.78	27 700	1.3	234	**2KJ4211 - ■ HK32 - ■ ■ C1**	
	D.129-LEN132MT4P							
	13	5 630	114.36	26 600	0.89	224	**2KJ4211 - ■ HJ33 - ■ ■ F1**	
	14	5 020	102.05	27 000	1.0	224	**2KJ4211 - ■ HJ33 - ■ ■ E1**	
	16	4 420	89.91	27 400	1.1	224	**2KJ4211 - ■ HJ33 - ■ ■ D1**	
	18	3 870	78.78	27 700	1.3	224	**2KJ4211 - ■ HJ33 - ■ ■ C1**	
	E.129-LEN132ML4E							
	149	480	9.79	13 500	1.4	154	**2KJ4006 - ■ HK32 - ■ ■ T1**	
	174	410	8.38	13 500	1.6	154	**2KJ4006 - ■ HK32 - ■ ■ S1**	
	185	385	7.88	13 500	1.7	154	**2KJ4006 - ■ HK32 - ■ ■ R1**	
	198	360	7.39	13 500	2.2	154	**2KJ4006 - ■ HK32 - ■ ■ Q1**	
	223	320	6.55	13 500	2.5	154	**2KJ4006 - ■ HK32 - ■ ■ P1**	
	251	285	5.82	13 500	2.8	154	**2KJ4006 - ■ HK32 - ■ ■ N1**	
	278	255	5.25	13 500	3.1	154	**2KJ4006 - ■ HK32 - ■ ■ M1**	
	314	225	4.65	13 500	3.5	154	**2KJ4006 - ■ HK32 - ■ ■ L1**	
	354	200	4.12	13 500	3.9	154	**2KJ4006 - ■ HK32 - ■ ■ K1**	
	398	180	3.67	13 500	4.3	154	**2KJ4006 - ■ HK32 - ■ ■ J1**	
	444	161	3.29	13 300	4.8	154	**2KJ4006 - ■ HK32 - ■ ■ H1**	
	502	143	2.91	12 900	5.4	154	**2KJ4006 - ■ HK32 - ■ ■ G1**	
	E.129-LEN132MT4P							
	149	480	9.79	13 500	1.4	144	**2KJ4006 - ■ HJ33 - ■ ■ T1**	
	174	410	8.38	13 500	1.6	144	**2KJ4006 - ■ HJ33 - ■ ■ S1**	
	185	385	7.88	13 500	1.7	144	**2KJ4006 - ■ HJ33 - ■ ■ R1**	
	197	360	7.39	13 500	2.2	144	**2KJ4006 - ■ HJ33 - ■ ■ Q1**	
	222	320	6.55	13 500	2.5	144	**2KJ4006 - ■ HJ33 - ■ ■ P1**	
	250	285	5.82	13 500	2.8	144	**2KJ4006 - ■ HJ33 - ■ ■ N1**	
	277	255	5.25	13 500	3.1	144	**2KJ4006 - ■ HJ33 - ■ ■ M1**	
	313	225	4.65	13 500	3.5	144	**2KJ4006 - ■ HJ33 - ■ ■ L1**	
	353	200	4.12	13 500	3.9	144	**2KJ4006 - ■ HJ33 - ■ ■ K1**	
	396	181	3.67	13 500	4.3	144	**2KJ4006 - ■ HJ33 - ■ ■ J1**	
	442	162	3.29	13 300	4.8	144	**2KJ4006 - ■ HJ33 - ■ ■ H1**	
	500	143	2.91	12 900	5.4	144	**2KJ4006 - ■ HJ33 - ■ ■ G1**	
	Z.129-LEN132ML4E							
	23	3 060	62.48	28 200	1.6	230	**2KJ4111 - ■ HK32 - ■ ■ X1**	
	27	2 620	53.47	28 400	1.9	230	**2KJ4111 - ■ HK32 - ■ ■ W1**	
	29	2 460	50.33	28 500	2.0	230	**2KJ4111 - ■ HK32 - ■ ■ V1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**Z.129-LEN132ML4E**							
	31	2 310	47.18	28 600	2.2	230	**2KJ4111 - ■ HK32 - ■ ■ U1**	
	35	2 050	41.82	28 700	2.4	230	**2KJ4111 - ■ HK32 - ■ ■ T1**	
	39	1 820	37.15	28 900	2.7	230	**2KJ4111 - ■ HK32 - ■ ■ S1**	
	Z.129-LEN132MT4P							
	23	3 070	62.48	28 200	1.6	220	**2KJ4111 - ■ HJ33 - ■ ■ X1**	
	27	2 630	53.47	28 400	1.9	220	**2KJ4111 - ■ HJ33 - ■ ■ W1**	
	29	2 470	50.33	28 500	2.0	220	**2KJ4111 - ■ HJ33 - ■ ■ V1**	
	31	2 320	47.18	28 600	2.2	220	**2KJ4111 - ■ HJ33 - ■ ■ U1**	
	35	2 050	41.82	28 700	2.4	220	**2KJ4111 - ■ HJ33 - ■ ■ T1**	
	39	1 820	37.15	28 900	2.7	220	**2KJ4111 - ■ HJ33 - ■ ■ S1**	
	D.149-LEN132ML4E							
	7.5	9 570	195.24	50 400	0.84	319	**2KJ4212 - ■ HK32 - ■ ■ R1**	
	8.3	8 640	176.18	50 900	0.93	319	**2KJ4212 - ■ HK32 - ■ ■ Q1**	
	9.4	7 650	156.11	51 300	1.0	319	**2KJ4212 - ■ HK32 - ■ ■ P1**	
	11	6 780	138.26	51 700	1.2	319	**2KJ4212 - ■ HK32 - ■ ■ N1**	
	12	6 030	123.04	52 100	1.3	319	**2KJ4212 - ■ HK32 - ■ ■ M1**	
	13	5 400	110.26	52 400	1.5	319	**2KJ4212 - ■ HK32 - ■ ■ L1**	
	15	4 790	97.75	52 700	1.7	319	**2KJ4212 - ■ HK32 - ■ ■ K1**	
	17	4 230	86.29	53 000	1.9	319	**2KJ4212 - ■ HK32 - ■ ■ J1**	
	19	3 720	75.87	53 200	2.1	319	**2KJ4212 - ■ HK32 - ■ ■ H1**	
	21	3 370	68.71	53 400	2.4	319	**2KJ4212 - ■ HK32 - ■ ■ G1**	
	D.149-LEN132MT4P							
	7.5	9 610	195.24	50 400	0.83	309	**2KJ4212 - ■ HJ33 - ■ ■ R1**	
	8.3	8 670	176.18	50 800	0.92	309	**2KJ4212 - ■ HJ33 - ■ ■ Q1**	
	9.3	7 680	156.11	51 300	1.0	309	**2KJ4212 - ■ HJ33 - ■ ■ P1**	
	11	6 800	138.26	51 700	1.2	309	**2KJ4212 - ■ HJ33 - ■ ■ N1**	
	12	6 050	123.04	52 100	1.3	309	**2KJ4212 - ■ HJ33 - ■ ■ M1**	
	13	5 420	110.26	52 400	1.5	309	**2KJ4212 - ■ HJ33 - ■ ■ L1**	
	15	4 810	97.75	52 700	1.7	309	**2KJ4212 - ■ HJ33 - ■ ■ K1**	
	17	4 240	86.29	53 000	1.9	309	**2KJ4212 - ■ HJ33 - ■ ■ J1**	
	19	3 730	75.87	53 200	2.1	309	**2KJ4212 - ■ HJ33 - ■ ■ H1**	
	21	3 380	68.71	53 400	2.4	309	**2KJ4212 - ■ HJ33 - ■ ■ G1**	
	E.149-LEN132ML4E							
	150	475	9.76	16 000	2.5	192	**2KJ4007 - ■ HK32 - ■ ■ S1**	
	160	445	9.11	16 000	2.8	192	**2KJ4007 - ■ HK32 - ■ ■ R1**	
	180	395	8.1	16 000	3.3	192	**2KJ4007 - ■ HK32 - ■ ■ Q1**	
	201	355	7.27	16 000	3.8	192	**2KJ4007 - ■ HK32 - ■ ■ P1**	
	222	320	6.58	16 000	4.1	192	**2KJ4007 - ■ HK32 - ■ ■ N1**	
	E.149-LEN132MT4P							
	149	480	9.76	16 000	2.5	182	**2KJ4007 - ■ HJ33 - ■ ■ S1**	
	160	445	9.11	16 000	2.8	182	**2KJ4007 - ■ HJ33 - ■ ■ R1**	
	180	395	8.1	16 000	3.3	182	**2KJ4007 - ■ HJ33 - ■ ■ Q1**	
	200	355	7.27	16 000	3.8	182	**2KJ4007 - ■ HJ33 - ■ ■ P1**	
	221	320	6.58	16 000	4.1	182	**2KJ4007 - ■ HJ33 - ■ ■ N1**	
	D.169-LEN132ML4E							
	4.5	16 000	327.18	69 400	0.87	497	**2KJ4213 - ■ HK32 - ■ ■ V1**	
	4.8	14 900	305.28	69 800	0.93	497	**2KJ4213 - ■ HK32 - ■ ■ U1**	
	5.4	13 300	271.4	70 400	1.1	497	**2KJ4213 - ■ HK32 - ■ ■ T1**	
	6	11 900	243.68	70 900	1.2	497	**2KJ4213 - ■ HK32 - ■ ■ S1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**D.169-LEN132ML4E**							
	6.6	10 800	220.58	71 300	1.3	497	**2KJ4213 - ■ HK32 - ■ ■ R1**	
	7.5	9 500	193.75	71 800	1.5	497	**2KJ4213 - ■ HK32 - ■ ■ Q1**	
	8.3	8 610	175.57	72 100	1.6	497	**2KJ4213 - ■ HK32 - ■ ■ P1**	
	9.3	7 670	156.36	72 500	1.8	497	**2KJ4213 - ■ HK32 - ■ ■ N1**	
	10	6 880	140.41	72 800	2.0	497	**2KJ4213 - ■ HK32 - ■ ■ M1**	
	D.169-LEN132MT4P							
	4.4	16 100	327.18	69 300	0.87	487	**2KJ4213 - ■ HJ33 - ■ ■ V1**	
	4.8	15 000	305.28	69 700	0.93	487	**2KJ4213 - ■ HJ33 - ■ ■ U1**	
	5.4	13 300	271.4	70 400	1.0	487	**2KJ4213 - ■ HJ33 - ■ ■ T1**	
	6	11 900	243.68	70 900	1.2	487	**2KJ4213 - ■ HJ33 - ■ ■ S1**	
	6.6	10 800	220.58	71 300	1.3	487	**2KJ4213 - ■ HJ33 - ■ ■ R1**	
	7.5	9 530	193.75	71 800	1.5	487	**2KJ4213 - ■ HJ33 - ■ ■ Q1**	
	8.3	8 640	175.57	72 100	1.6	487	**2KJ4213 - ■ HJ33 - ■ ■ P1**	
	9.3	7 690	156.36	72 500	1.8	487	**2KJ4213 - ■ HJ33 - ■ ■ N1**	
	10	6 910	140.41	72 800	2.0	487	**2KJ4213 - ■ HJ33 - ■ ■ M1**	
	D.189-LEN132ML4E							
	4.7	15 300	313.63	107 000	1.2	710	**2KJ4214 - ■ HK32 - ■ ■ T1**	
	5.2	13 700	280.59	107 000	1.4	710	**2KJ4214 - ■ HK32 - ■ ■ S1**	
	5.8	12 400	253.06	107 000	1.5	710	**2KJ4214 - ■ HK32 - ■ ■ R1**	
	6.5	10 900	223.66	107 000	1.7	710	**2KJ4214 - ■ HK32 - ■ ■ Q1**	
	7.1	10 000	204.44	107 000	1.9	710	**2KJ4214 - ■ HK32 - ■ ■ P1**	
	7.9	9 020	183.92	107 000	2.1	710	**2KJ4214 - ■ HK32 - ■ ■ N1**	
	D.189-LEN132MT4P							
	4.6	15 400	313.63	107 000	1.2	700	**2KJ4214 - ■ HJ33 - ■ ■ T1**	
	5.2	13 800	280.59	107 000	1.4	700	**2KJ4214 - ■ HJ33 - ■ ■ S1**	
	5.7	12 400	253.06	107 000	1.5	700	**2KJ4214 - ■ HJ33 - ■ ■ R1**	
	6.5	11 000	223.66	107 000	1.7	700	**2KJ4214 - ■ HJ33 - ■ ■ Q1**	
	7.1	10 000	204.44	107 000	1.9	700	**2KJ4214 - ■ HJ33 - ■ ■ P1**	
	7.9	9 050	183.92	107 000	2.1	700	**2KJ4214 - ■ HJ33 - ■ ■ N1**	
	D.169-Z69-LEN132ML4E							
	4	16 900	364	69 000	0.83	528	**2KJ4242 - ■ HK32 - ■ ■ A1**	
	D.169-Z69-LEN132MT4P							
	4	16 900	364	69 000	0.82	518	**2KJ4242 - ■ HJ33 - ■ ■ A1**	
	D.189-Z69-LEN132ML4E							
	3.3	20 300	438	107 000	0.93	741	**2KJ4244 - ■ HK32 - ■ ■ B1**	
	3.8	17 700	382	107 000	1.1	741	**2KJ4244 - ■ HK32 - ■ ■ A1**	
	D.189-Z69-LEN132MT4P							
	3.3	20 400	438	107 000	0.93	731	**2KJ4244 - ■ HJ33 - ■ ■ B1**	
	3.8	17 800	382	107 000	1.1	731	**2KJ4244 - ■ HJ33 - ■ ■ A1**	
9.2	**E.49-LEN132MS4E**							
	560	157	2.6	100	0.65	94	**2KJ4002 - ■ HV32 - ■ ■ E1**	
	Z.49-LEN132MS4E							
	315	275	4.62	2 300	0.81	98	**2KJ4104 - ■ HV32 - ■ ■ C1**	
	373	235	3.9	2 300	0.87	98	**2KJ4104 - ■ HV32 - ■ ■ B1**	
	428	205	3.4	2 300	0.93	98	**2KJ4104 - ■ HV32 - ■ ■ A1**	
	Z.59-LEN132MS4E							
	172	510	8.46	3 200	0.88	100	**2KJ4105 - ■ HV32 - ■ ■ G1**	
	180	485	8.07	3 100	0.84	100	**2KJ4105 - ■ HV32 - ■ ■ F1**	
	212	410	6.86	3 100	0.99	100	**2KJ4105 - ■ HV32 - ■ ■ E1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**Z.59-LEN132MS4E**							
	247	355	5.88	3 100	1.2	100	**2KJ4105 - ■ HV32 - ■ ■ D1**	
	281	310	5.17	3 100	1.3	100	**2KJ4105 - ■ HV32 - ■ ■ C1**	
	334	260	4.36	3 100	1.5	100	**2KJ4105 - ■ HV32 - ■ ■ B1**	
	383	225	3.8	2 000	1.8	100	**2KJ4105 - ■ HV32 - ■ ■ A1**	
	E.69-LEN132MS4E							
	385	225	3.78	1 000	0.88	101	**2KJ4003 - ■ HV32 - ■ ■ H1**	
	441	199	3.3	6 100	1.0	101	**2KJ4003 - ■ HV32 - ■ ■ G1**	
	493	178	2.95	6 100	1.1	101	**2KJ4003 - ■ HV32 - ■ ■ F1**	
	655	134	2.22	6 100	1.5	101	**2KJ4003 - ■ HV32 - ■ ■ D1**	
	742	118	1.96	6 100	1.7	101	**2KJ4003 - ■ HV32 - ■ ■ C1**	
	871	101	1.67	6 000	1.9	101	**2KJ4003 - ■ HV32 - ■ ■ B1**	
	1 017	86	1.43	5 900	2.3	101	**2KJ4003 - ■ HV32 - ■ ■ A1**	
	Z.69-LEN132MS4E							
	118	740	12.31	8 300	0.81	105	**2KJ4106 - ■ HV32 - ■ ■ J1**	
	140	625	10.39	8 100	0.96	105	**2KJ4106 - ■ HV32 - ■ ■ H1**	
	161	545	9.05	7 900	1.1	105	**2KJ4106 - ■ HV32 - ■ ■ G1**	
	171	510	8.5	7 800	0.87	105	**2KJ4106 - ■ HV32 - ■ ■ F1**	
	201	435	7.23	7 500	1.0	105	**2KJ4106 - ■ HV32 - ■ ■ E1**	
	235	370	6.2	7 300	1.2	105	**2KJ4106 - ■ HV32 - ■ ■ D1**	
	267	325	5.45	7 100	1.3	105	**2KJ4106 - ■ HV32 - ■ ■ C1**	
	316	275	4.6	6 800	1.6	105	**2KJ4106 - ■ HV32 - ■ ■ B1**	
	363	240	4.01	5 400	1.8	105	**2KJ4106 - ■ HV32 - ■ ■ A1**	
	Z.79-LEN132MS4E							
	84	1 040	17.31	10 800	0.8	115	**2KJ4107 - ■ HV32 - ■ ■ M1**	
	96	910	15.13	10 600	0.92	115	**2KJ4107 - ■ HV32 - ■ ■ L1**	
	112	780	12.99	10 300	1.1	115	**2KJ4107 - ■ HV32 - ■ ■ K1**	
	127	690	11.48	10 100	1.2	115	**2KJ4107 - ■ HV32 - ■ ■ J1**	
	149	585	9.76	9 700	1.4	115	**2KJ4107 - ■ HV32 - ■ ■ H1**	
	174	505	8.37	6 400	1.6	115	**2KJ4107 - ■ HV32 - ■ ■ G1**	
	178	495	8.19	4 700	1.4	115	**2KJ4107 - ■ HV32 - ■ ■ F1**	
	203	430	7.16	5 300	1.7	115	**2KJ4107 - ■ HV32 - ■ ■ E1**	
	237	370	6.15	5 800	1.9	115	**2KJ4107 - ■ HV32 - ■ ■ D1**	
	268	325	5.43	6 100	2.1	115	**2KJ4107 - ■ HV32 - ■ ■ C1**	
	315	275	4.62	6 400	2.8	115	**2KJ4107 - ■ HV32 - ■ ■ B1**	
	367	235	3.96	6 500	3.2	115	**2KJ4107 - ■ HV32 - ■ ■ A1**	
	E.89-LEN132MS4E							
	259	335	5.62	8 000	0.94	115	**2KJ4004 - ■ HV32 - ■ ■ N1**	
	298	295	4.89	8 000	1.2	115	**2KJ4004 - ■ HV32 - ■ ■ L1**	
	334	260	4.35	8 000	1.4	115	**2KJ4004 - ■ HV32 - ■ ■ K1**	
	377	230	3.86	8 000	1.5	115	**2KJ4004 - ■ HV32 - ■ ■ J1**	
	421	205	3.46	8 000	1.7	115	**2KJ4004 - ■ HV32 - ■ ■ H1**	
	492	179	2.96	8 000	2.0	115	**2KJ4004 - ■ HV32 - ■ ■ G1**	
	551	159	2.64	8 000	2.3	115	**2KJ4004 - ■ HV32 - ■ ■ F1**	
	624	141	2.33	7 800	2.6	115	**2KJ4004 - ■ HV32 - ■ ■ E1**	
	710	124	2.05	7 500	2.9	115	**2KJ4004 - ■ HV32 - ■ ■ D1**	
	817	107	1.78	7 300	3.4	115	**2KJ4004 - ■ HV32 - ■ ■ C1**	
	957	92	1.52	7 000	3.9	115	**2KJ4004 - ■ HV32 - ■ ■ B1**	
	1 119	78	1.3	6 700	4.6	115	**2KJ4004 - ■ HV32 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
9.2	**Z.89-LEN132MS4E**							
	44	2 010	33.38	18 500	0.83	137	**2KJ4108 - ■ HV32 - ■ ■ T1**	
	46	1 890	31.41	18 500	0.89	137	**2KJ4108 - ■ HV32 - ■ ■ S1**	
	50	1 750	29.01	18 500	0.96	137	**2KJ4108 - ■ HV32 - ■ ■ R1**	
	56	1 550	25.81	18 500	1.1	137	**2KJ4108 - ■ HV32 - ■ ■ Q1**	
	63	1 380	22.92	18 500	1.2	137	**2KJ4108 - ■ HV32 - ■ ■ P1**	
	71	1 230	20.52	18 500	1.4	137	**2KJ4108 - ■ HV32 - ■ ■ N1**	
	83	1 050	17.54	17 800	1.6	137	**2KJ4108 - ■ HV32 - ■ ■ M1**	
	93	945	15.66	17 400	1.8	137	**2KJ4108 - ■ HV32 - ■ ■ L1**	
	105	835	13.84	16 900	2.0	137	**2KJ4108 - ■ HV32 - ■ ■ K1**	
	120	730	12.15	16 400	2.2	137	**2KJ4108 - ■ HV32 - ■ ■ J1**	
	138	635	10.58	15 800	2.5	137	**2KJ4108 - ■ HV32 - ■ ■ H1**	
	161	545	9.04	15 200	2.9	137	**2KJ4108 - ■ HV32 - ■ ■ G1**	
	188	465	7.74	14 500	3.3	137	**2KJ4108 - ■ HV32 - ■ ■ F1**	
	211	415	6.89	14 200	2.5	137	**2KJ4108 - ■ HV32 - ■ ■ E1**	
	240	365	6.05	13 700	2.9	137	**2KJ4108 - ■ HV32 - ■ ■ D1**	
	277	315	5.26	13 100	3.3	137	**2KJ4108 - ■ HV32 - ■ ■ C1**	
	323	270	4.5	12 500	3.9	137	**2KJ4108 - ■ HV32 - ■ ■ B1**	
	378	230	3.85	12 000	4.6	137	**2KJ4108 - ■ HV32 - ■ ■ A1**	
	E.69-LEN160MRA4P							
	385	225	3.78	1 000	0.88	98	**2KJ4003 - ■ JQ33 - ■ ■ H1**	
	441	199	3.3	6 100	1.0	98	**2KJ4003 - ■ JQ33 - ■ ■ G1**	
	493	178	2.95	6 100	1.1	98	**2KJ4003 - ■ JQ33 - ■ ■ F1**	
	655	134	2.22	6 100	1.5	98	**2KJ4003 - ■ JQ33 - ■ ■ D1**	
	742	118	1.96	6 100	1.7	98	**2KJ4003 - ■ JQ33 - ■ ■ C1**	
	871	101	1.67	6 000	1.9	98	**2KJ4003 - ■ JQ33 - ■ ■ B1**	
	1 017	86	1.43	5 900	2.3	98	**2KJ4003 - ■ JQ33 - ■ ■ A1**	
	Z.79-LEN160MRA4P							
	84	1 040	17.31	10 800	0.8	114	**2KJ4107 - ■ JQ33 - ■ ■ M1**	
	96	910	15.13	10 600	0.92	114	**2KJ4107 - ■ JQ33 - ■ ■ L1**	
	112	780	12.99	10 300	1.1	114	**2KJ4107 - ■ JQ33 - ■ ■ K1**	
	127	690	11.48	10 100	1.2	114	**2KJ4107 - ■ JQ33 - ■ ■ J1**	
	149	585	9.76	9 700	1.4	114	**2KJ4107 - ■ JQ33 - ■ ■ H1**	
	174	505	8.37	6 400	1.6	114	**2KJ4107 - ■ JQ33 - ■ ■ G1**	
	178	495	8.19	4 700	1.4	114	**2KJ4107 - ■ JQ33 - ■ ■ F1**	
	203	430	7.16	5 300	1.7	114	**2KJ4107 - ■ JQ33 - ■ ■ E1**	
	237	370	6.15	5 800	1.9	114	**2KJ4107 - ■ JQ33 - ■ ■ D1**	
	268	325	5.43	6 100	2.1	114	**2KJ4107 - ■ JQ33 - ■ ■ C1**	
	315	275	4.62	6 400	2.8	114	**2KJ4107 - ■ JQ33 - ■ ■ B1**	
	367	235	3.96	6 500	3.2	114	**2KJ4107 - ■ JQ33 - ■ ■ A1**	
	E.89-LEN160MRA4P							
	259	335	5.62	8 000	0.94	115	**2KJ4004 - ■ JQ33 - ■ ■ N1**	
	298	295	4.89	8 000	1.2	115	**2KJ4004 - ■ JQ33 - ■ ■ L1**	
	334	260	4.35	8 000	1.4	115	**2KJ4004 - ■ JQ33 - ■ ■ K1**	
	377	230	3.86	8 000	1.5	115	**2KJ4004 - ■ JQ33 - ■ ■ J1**	
	421	205	3.46	8 000	1.7	115	**2KJ4004 - ■ JQ33 - ■ ■ H1**	
	492	179	2.96	8 000	2.0	115	**2KJ4004 - ■ JQ33 - ■ ■ G1**	
	551	159	2.64	8 000	2.3	115	**2KJ4004 - ■ JQ33 - ■ ■ F1**	
	624	141	2.33	7 800	2.6	115	**2KJ4004 - ■ JQ33 - ■ ■ E1**	
	710	124	2.05	7 500	2.9	115	**2KJ4004 - ■ JQ33 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**E.89-LEN160MRA4P**							
	817	107	1.78	7 300	3.4	115	**2KJ4004 - ■ JQ33 - ■ ■ C1**	
	957	92	1.52	7 000	3.9	115	**2KJ4004 - ■ JQ33 - ■ ■ B1**	
	1 119	78	1.3	6 700	4.6	115	**2KJ4004 - ■ JQ33 - ■ ■ A1**	
	Z.89-LEN160MRA4P							
	44	2 010	33.38	18 500	0.83	137	**2KJ4108 - ■ JQ33 - ■ ■ T1**	
	46	1 890	31.41	18 500	0.89	137	**2KJ4108 - ■ JQ33 - ■ ■ S1**	
	50	1 750	29.01	18 500	0.96	137	**2KJ4108 - ■ JQ33 - ■ ■ R1**	
	56	1 550	25.81	18 500	1.1	137	**2KJ4108 - ■ JQ33 - ■ ■ Q1**	
	63	1 380	22.92	18 500	1.2	137	**2KJ4108 - ■ JQ33 - ■ ■ P1**	
	71	1 230	20.52	18 500	1.4	137	**2KJ4108 - ■ JQ33 - ■ ■ N1**	
	83	1 050	17.54	17 800	1.6	137	**2KJ4108 - ■ JQ33 - ■ ■ M1**	
	93	945	15.66	17 400	1.8	137	**2KJ4108 - ■ JQ33 - ■ ■ L1**	
	105	835	13.84	16 900	2.0	137	**2KJ4108 - ■ JQ33 - ■ ■ K1**	
	120	730	12.15	16 400	2.2	137	**2KJ4108 - ■ JQ33 - ■ ■ J1**	
	138	635	10.58	15 800	2.5	137	**2KJ4108 - ■ JQ33 - ■ ■ H1**	
	161	545	9.04	15 200	2.9	137	**2KJ4108 - ■ JQ33 - ■ ■ G1**	
	188	465	7.74	14 500	3.3	137	**2KJ4108 - ■ JQ33 - ■ ■ F1**	
	211	415	6.89	14 200	2.5	137	**2KJ4108 - ■ JQ33 - ■ ■ E1**	
	240	365	6.05	13 700	2.9	137	**2KJ4108 - ■ JQ33 - ■ ■ D1**	
	277	315	5.26	13 100	3.3	137	**2KJ4108 - ■ JQ33 - ■ ■ C1**	
	323	270	4.5	12 500	3.9	137	**2KJ4108 - ■ JQ33 - ■ ■ B1**	
	378	230	3.85	12 000	4.6	137	**2KJ4108 - ■ JQ33 - ■ ■ A1**	
	D.109-LEN132MS4E							
	23	3 880	64.34	20 000	0.8	179	**2KJ4210 - ■ HV32 - ■ ■ C1**	
	E.109-LEN132MS4E							
	202	430	7.19	10 500	1.3	138	**2KJ4005 - ■ HV32 - ■ ■ Q1**	
	215	405	6.76	10 500	1.4	138	**2KJ4005 - ■ HV32 - ■ ■ P1**	
	232	375	6.28	10 500	1.5	138	**2KJ4005 - ■ HV32 - ■ ■ N1**	
	262	335	5.55	10 500	1.7	138	**2KJ4005 - ■ HV32 - ■ ■ M1**	
	294	295	4.95	10 500	1.9	138	**2KJ4005 - ■ HV32 - ■ ■ L1**	
	326	265	4.46	10 500	2.1	138	**2KJ4005 - ■ HV32 - ■ ■ K1**	
	376	230	3.87	10 500	2.4	138	**2KJ4005 - ■ HV32 - ■ ■ J1**	
	418	210	3.48	10 500	2.6	138	**2KJ4005 - ■ HV32 - ■ ■ H1**	
	479	184	3.04	10 500	3.0	138	**2KJ4005 - ■ HV32 - ■ ■ G1**	
	537	164	2.71	10 500	3.3	138	**2KJ4005 - ■ HV32 - ■ ■ F1**	
	609	144	2.39	10 500	3.7	138	**2KJ4005 - ■ HV32 - ■ ■ E1**	
	693	127	2.1	10 400	4.2	138	**2KJ4005 - ■ HV32 - ■ ■ D1**	
	795	111	1.83	10 000	4.8	138	**2KJ4005 - ■ HV32 - ■ ■ C1**	
	871	101	1.67	9 800	5.3	138	**2KJ4005 - ■ HV32 - ■ ■ B1**	
	1 017	86	1.43	9 400	5.4	138	**2KJ4005 - ■ HV32 - ■ ■ A1**	
	Z.109-LEN132MS4E							
	28	3 090	51.17	20 200	1.0	177	**2KJ4110 - ■ HV32 - ■ ■ X1**	
	33	2 630	43.64	20 200	1.2	177	**2KJ4110 - ■ HV32 - ■ ■ W1**	
	35	2 480	41.07	20 200	1.2	177	**2KJ4110 - ■ HV32 - ■ ■ V1**	
	38	2 300	38.12	20 200	1.3	177	**2KJ4110 - ■ HV32 - ■ ■ U1**	
	43	2 030	33.7	20 200	1.5	177	**2KJ4110 - ■ HV32 - ■ ■ T1**	
	48	1 810	30.08	20 200	1.7	177	**2KJ4110 - ■ HV32 - ■ ■ S1**	
	54	1 630	27.07	20 200	1.9	177	**2KJ4110 - ■ HV32 - ■ ■ R1**	
	62	1 410	23.49	20 200	2.1	177	**2KJ4110 - ■ HV32 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**Z.109-LEN132MS4E**							
	69	1 270	21.13	20 200	2.2	177	**2KJ4110 - ■ HV32 - ■ ■ P1**	
	79	1 110	18.47	20 200	2.4	177	**2KJ4110 - ■ HV32 - ■ ■ N1**	
	88	995	16.48	20 200	2.6	177	**2KJ4110 - ■ HV32 - ■ ■ M1**	
	100	875	14.52	19 800	2.9	177	**2KJ4110 - ■ HV32 - ■ ■ L1**	
	114	765	12.72	19 200	3.3	177	**2KJ4110 - ■ HV32 - ■ ■ K1**	
	131	670	11.09	18 600	3.7	177	**2KJ4110 - ■ HV32 - ■ ■ J1**	
	D.129-LEN132MS4E							
	14	6 160	102.05	26 300	0.81	243	**2KJ4211 - ■ HV32 - ■ ■ E1**	
	16	5 420	89.91	26 800	0.92	243	**2KJ4211 - ■ HV32 - ■ ■ D1**	
	18	4 750	78.78	27 200	1.1	243	**2KJ4211 - ■ HV32 - ■ ■ C1**	
	E.129-LEN132MS4E							
	149	590	9.79	13 500	1.1	163	**2KJ4006 - ■ HV32 - ■ ■ T1**	
	174	505	8.38	13 500	1.3	163	**2KJ4006 - ■ HV32 - ■ ■ S1**	
	185	475	7.88	13 500	1.4	163	**2KJ4006 - ■ HV32 - ■ ■ R1**	
	197	445	7.39	13 500	1.8	163	**2KJ4006 - ■ HV32 - ■ ■ Q1**	
	222	395	6.55	13 500	2.0	163	**2KJ4006 - ■ HV32 - ■ ■ P1**	
	250	350	5.82	13 500	2.3	163	**2KJ4006 - ■ HV32 - ■ ■ N1**	
	277	315	5.25	13 500	2.5	163	**2KJ4006 - ■ HV32 - ■ ■ M1**	
	313	280	4.65	13 500	2.8	163	**2KJ4006 - ■ HV32 - ■ ■ L1**	
	353	245	4.12	13 500	3.2	163	**2KJ4006 - ■ HV32 - ■ ■ K1**	
	396	220	3.67	13 400	3.5	163	**2KJ4006 - ■ HV32 - ■ ■ J1**	
	442	199	3.29	13 100	3.9	163	**2KJ4006 - ■ HV32 - ■ ■ H1**	
	500	176	2.91	12 700	4.4	163	**2KJ4006 - ■ HV32 - ■ ■ G1**	
	566	155	2.57	12 300	4.9	163	**2KJ4006 - ■ HV32 - ■ ■ F1**	
	644	136	2.26	11 900	5.6	163	**2KJ4006 - ■ HV32 - ■ ■ E1**	
	710	124	2.05	11 600	6.2	163	**2KJ4006 - ■ HV32 - ■ ■ D1**	
	Z.129-LEN132MS4E							
	23	3 770	62.48	27 700	1.3	239	**2KJ4111 - ■ HV32 - ■ ■ X1**	
	27	3 220	53.47	28 100	1.5	239	**2KJ4111 - ■ HV32 - ■ ■ W1**	
	29	3 030	50.33	28 200	1.6	239	**2KJ4111 - ■ HV32 - ■ ■ V1**	
	31	2 840	47.18	28 300	1.8	239	**2KJ4111 - ■ HV32 - ■ ■ U1**	
	35	2 520	41.82	28 500	2.0	239	**2KJ4111 - ■ HV32 - ■ ■ T1**	
	39	2 240	37.15	28 600	2.2	239	**2KJ4111 - ■ HV32 - ■ ■ S1**	
	43	2 020	33.52	28 800	2.5	239	**2KJ4111 - ■ HV32 - ■ ■ R1**	
	49	1 790	29.7	28 900	2.8	239	**2KJ4111 - ■ HV32 - ■ ■ Q1**	
	D.149-LEN132MS4E							
	9.3	9 420	156.11	50 500	0.85	328	**2KJ4212 - ■ HV32 - ■ ■ P1**	
	11	8 340	138.26	51 000	0.96	328	**2KJ4212 - ■ HV32 - ■ ■ N1**	
	12	7 430	123.04	51 400	1.1	328	**2KJ4212 - ■ HV32 - ■ ■ M1**	
	13	6 650	110.26	51 800	1.2	328	**2KJ4212 - ■ HV32 - ■ ■ L1**	
	15	5 900	97.75	52 200	1.4	328	**2KJ4212 - ■ HV32 - ■ ■ K1**	
	17	5 210	86.29	52 500	1.5	328	**2KJ4212 - ■ HV32 - ■ ■ J1**	
	19	4 580	75.87	52 800	1.7	328	**2KJ4212 - ■ HV32 - ■ ■ H1**	
	21	4 140	68.71	53 000	1.9	328	**2KJ4212 - ■ HV32 - ■ ■ G1**	
	E.149-LEN132MS4E							
	149	585	9.76	16 000	2.0	201	**2KJ4007 - ■ HV32 - ■ ■ S1**	
	160	550	9.11	16 000	2.3	201	**2KJ4007 - ■ HV32 - ■ ■ R1**	
	180	485	8.1	16 000	2.7	201	**2KJ4007 - ■ HV32 - ■ ■ Q1**	
	200	435	7.27	16 000	3.1	201	**2KJ4007 - ■ HV32 - ■ ■ P1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**E.149-LEN132MS4E**							
	221	395	6.58	16 000	3.3	201	**2KJ4007 - ■ HV32 - ■ ■ N1**	
	252	345	5.78	16 000	4.3	201	**2KJ4007 - ■ HV32 - ■ ■ M1**	
	278	315	5.24	16 000	4.7	201	**2KJ4007 - ■ HV32 - ■ ■ L1**	
	Z.149-LEN132MS4E							
	26	3 420	56.64	53 400	2.3	321	**2KJ4112 - ■ HV32 - ■ ■ W1**	
	28	3 190	52.84	53 500	2.4	321	**2KJ4112 - ■ HV32 - ■ ■ V1**	
	D.169-LEN132MS4E							
	5.4	16 300	271.4	69 300	0.85	506	**2KJ4213 - ■ HV32 - ■ ■ T1**	
	6	14 700	243.68	69 900	0.95	506	**2KJ4213 - ■ HV32 - ■ ■ S1**	
	6.6	13 300	220.58	70 400	1.1	506	**2KJ4213 - ■ HV32 - ■ ■ R1**	
	7.5	11 700	193.75	71 000	1.2	506	**2KJ4213 - ■ HV32 - ■ ■ Q1**	
	8.3	10 600	175.57	71 400	1.3	506	**2KJ4213 - ■ HV32 - ■ ■ P1**	
	9.3	9 440	156.36	71 800	1.5	506	**2KJ4213 - ■ HV32 - ■ ■ N1**	
	10	8 470	140.41	72 200	1.7	506	**2KJ4213 - ■ HV32 - ■ ■ M1**	
	12	7 560	125.28	72 500	1.9	506	**2KJ4213 - ■ HV32 - ■ ■ L1**	
	13	6 740	111.69	72 800	2.1	506	**2KJ4213 - ■ HV32 - ■ ■ K1**	
	D.189-LEN132MS4E							
	4.6	18 900	313.63	107 000	1.0	719	**2KJ4214 - ■ HV32 - ■ ■ T1**	
	5.2	16 900	280.59	107 000	1.1	719	**2KJ4214 - ■ HV32 - ■ ■ S1**	
	5.7	15 200	253.06	107 000	1.2	719	**2KJ4214 - ■ HV32 - ■ ■ R1**	
	6.5	13 500	223.66	107 000	1.4	719	**2KJ4214 - ■ HV32 - ■ ■ Q1**	
	7.1	12 300	204.44	107 000	1.5	719	**2KJ4214 - ■ HV32 - ■ ■ P1**	
	7.9	11 100	183.92	107 000	1.7	719	**2KJ4214 - ■ HV32 - ■ ■ N1**	
	8.9	9 920	164.36	107 000	1.9	719	**2KJ4214 - ■ HV32 - ■ ■ M1**	
	9.8	8 970	148.63	107 000	2.1	719	**2KJ4214 - ■ HV32 - ■ ■ L1**	
	D.109-LEN160MRA4P							
	23	3 880	64.34	20 000	0.8	178	**2KJ4210 - ■ JQ33 - ■ ■ C1**	
	E.109-LEN160MRA4P							
	202	430	7.19	10 500	1.3	137	**2KJ4005 - ■ JQ33 - ■ ■ Q1**	
	215	405	6.76	10 500	1.4	137	**2KJ4005 - ■ JQ33 - ■ ■ P1**	
	232	375	6.28	10 500	1.5	137	**2KJ4005 - ■ JQ33 - ■ ■ N1**	
	262	335	5.55	10 500	1.7	137	**2KJ4005 - ■ JQ33 - ■ ■ M1**	
	294	295	4.95	10 500	1.9	137	**2KJ4005 - ■ JQ33 - ■ ■ L1**	
	326	265	4.46	10 500	2.1	137	**2KJ4005 - ■ JQ33 - ■ ■ K1**	
	376	230	3.87	10 500	2.4	137	**2KJ4005 - ■ JQ33 - ■ ■ J1**	
	418	210	3.48	10 500	2.6	137	**2KJ4005 - ■ JQ33 - ■ ■ H1**	
	479	184	3.04	10 500	3.0	137	**2KJ4005 - ■ JQ33 - ■ ■ G1**	
	537	164	2.71	10 500	3.3	137	**2KJ4005 - ■ JQ33 - ■ ■ F1**	
	609	144	2.39	10 500	3.7	137	**2KJ4005 - ■ JQ33 - ■ ■ E1**	
	693	127	2.1	10 400	4.2	137	**2KJ4005 - ■ JQ33 - ■ ■ D1**	
	795	111	1.83	10 000	4.8	137	**2KJ4005 - ■ JQ33 - ■ ■ C1**	
	871	101	1.67	9 800	5.3	137	**2KJ4005 - ■ JQ33 - ■ ■ B1**	
	1 017	86	1.43	9 400	5.4	137	**2KJ4005 - ■ JQ33 - ■ ■ A1**	
	Z.109-LEN160MRA4P							
	28	3 090	51.17	20 200	1.0	175	**2KJ4110 - ■ JQ33 - ■ ■ X1**	
	33	2 630	43.64	20 200	1.2	175	**2KJ4110 - ■ JQ33 - ■ ■ W1**	
	35	2 480	41.07	20 200	1.2	175	**2KJ4110 - ■ JQ33 - ■ ■ V1**	
	38	2 300	38.12	20 200	1.3	175	**2KJ4110 - ■ JQ33 - ■ ■ U1**	
	43	2 030	33.7	20 200	1.5	175	**2KJ4110 - ■ JQ33 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**Z.109-LEN160MRA4P**							
	48	1 810	30.08	20 200	1.7	175	**2KJ4110 - ■ JQ33 - ■ ■ S1**	
	54	1 630	27.07	20 200	1.9	175	**2KJ4110 - ■ JQ33 - ■ ■ R1**	
	62	1 410	23.49	20 200	2.1	175	**2KJ4110 - ■ JQ33 - ■ ■ Q1**	
	69	1 270	21.13	20 200	2.2	175	**2KJ4110 - ■ JQ33 - ■ ■ P1**	
	79	1 110	18.47	20 200	2.4	175	**2KJ4110 - ■ JQ33 - ■ ■ N1**	
	88	995	16.48	20 200	2.6	175	**2KJ4110 - ■ JQ33 - ■ ■ M1**	
	100	875	14.52	19 800	2.9	175	**2KJ4110 - ■ JQ33 - ■ ■ L1**	
	114	765	12.72	19 200	3.3	175	**2KJ4110 - ■ JQ33 - ■ ■ K1**	
	131	670	11.09	18 600	3.7	175	**2KJ4110 - ■ JQ33 - ■ ■ J1**	
	D.129-LEN160MRA4P							
	14	6 160	102.05	26 300	0.81	241	**2KJ4211 - ■ JQ33 - ■ ■ E1**	
	16	5 420	89.91	26 800	0.92	241	**2KJ4211 - ■ JQ33 - ■ ■ D1**	
	18	4 750	78.78	27 200	1.1	241	**2KJ4211 - ■ JQ33 - ■ ■ C1**	
	E.129-LEN160MRA4P							
	149	590	9.79	13 500	1.1	161	**2KJ4006 - ■ JQ33 - ■ ■ T1**	
	174	505	8.38	13 500	1.3	161	**2KJ4006 - ■ JQ33 - ■ ■ S1**	
	185	475	7.88	13 500	1.4	161	**2KJ4006 - ■ JQ33 - ■ ■ R1**	
	197	445	7.39	13 500	1.8	161	**2KJ4006 - ■ JQ33 - ■ ■ Q1**	
	222	395	6.55	13 500	2.0	161	**2KJ4006 - ■ JQ33 - ■ ■ P1**	
	250	350	5.82	13 500	2.3	161	**2KJ4006 - ■ JQ33 - ■ ■ N1**	
	277	315	5.25	13 500	2.5	161	**2KJ4006 - ■ JQ33 - ■ ■ M1**	
	313	280	4.65	13 500	2.8	161	**2KJ4006 - ■ JQ33 - ■ ■ L1**	
	353	245	4.12	13 500	3.2	161	**2KJ4006 - ■ JQ33 - ■ ■ K1**	
	396	220	3.67	13 400	3.5	161	**2KJ4006 - ■ JQ33 - ■ ■ J1**	
	442	199	3.29	13 100	3.9	161	**2KJ4006 - ■ JQ33 - ■ ■ H1**	
	500	176	2.91	12 700	4.4	161	**2KJ4006 - ■ JQ33 - ■ ■ G1**	
	566	155	2.57	12 300	4.9	161	**2KJ4006 - ■ JQ33 - ■ ■ F1**	
	644	136	2.26	11 900	5.6	161	**2KJ4006 - ■ JQ33 - ■ ■ E1**	
	710	124	2.05	11 600	6.2	161	**2KJ4006 - ■ JQ33 - ■ ■ D1**	
	Z.129-LEN160MRA4P							
	23	3 770	62.48	27 700	1.3	237	**2KJ4111 - ■ JQ33 - ■ ■ X1**	
	27	3 220	53.47	28 100	1.5	237	**2KJ4111 - ■ JQ33 - ■ ■ W1**	
	29	3 030	50.33	28 200	1.6	237	**2KJ4111 - ■ JQ33 - ■ ■ V1**	
	31	2 840	47.18	28 300	1.8	237	**2KJ4111 - ■ JQ33 - ■ ■ U1**	
	35	2 520	41.82	28 500	2.0	237	**2KJ4111 - ■ JQ33 - ■ ■ T1**	
	39	2 240	37.15	28 600	2.2	237	**2KJ4111 - ■ JQ33 - ■ ■ S1**	
	43	2 020	33.52	28 800	2.5	237	**2KJ4111 - ■ JQ33 - ■ ■ R1**	
	49	1 790	29.7	28 900	2.8	237	**2KJ4111 - ■ JQ33 - ■ ■ Q1**	
	D.149-LEN160MRA4P							
	9.3	9 420	156.11	50 500	0.85	325	**2KJ4212 - ■ JQ33 - ■ ■ P1**	
	11	8 340	138.26	51 000	0.96	325	**2KJ4212 - ■ JQ33 - ■ ■ N1**	
	12	7 430	123.04	51 400	1.1	325	**2KJ4212 - ■ JQ33 - ■ ■ M1**	
	13	6 650	110.26	51 800	1.2	325	**2KJ4212 - ■ JQ33 - ■ ■ L1**	
	15	5 900	97.75	52 200	1.4	325	**2KJ4212 - ■ JQ33 - ■ ■ K1**	
	17	5 210	86.29	52 500	1.5	325	**2KJ4212 - ■ JQ33 - ■ ■ J1**	
	19	4 580	75.87	52 800	1.7	325	**2KJ4212 - ■ JQ33 - ■ ■ H1**	
	21	4 140	68.71	53 000	1.9	325	**2KJ4212 - ■ JQ33 - ■ ■ G1**	
	E.149-LEN160MRA4P							
	149	585	9.76	16 000	2.0	198	**2KJ4007 - ■ JQ33 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
9.2	**E.149-LEN160MRA4P**							
	160	550	9.11	16 000	2.3	198	**2KJ4007 - ■ JQ33 - ■ ■ R1**	
	180	485	8.1	16 000	2.7	198	**2KJ4007 - ■ JQ33 - ■ ■ Q1**	
	200	435	7.27	16 000	3.1	198	**2KJ4007 - ■ JQ33 - ■ ■ P1**	
	221	395	6.58	16 000	3.3	198	**2KJ4007 - ■ JQ33 - ■ ■ N1**	
	252	345	5.78	16 000	4.3	198	**2KJ4007 - ■ JQ33 - ■ ■ M1**	
	278	315	5.24	16 000	4.7	198	**2KJ4007 - ■ JQ33 - ■ ■ L1**	
	Z.149-LEN160MRA4P							
	26	3 420	56.64	53 400	2.3	319	**2KJ4112 - ■ JQ33 - ■ ■ W1**	
	28	3 190	52.84	53 500	2.4	319	**2KJ4112 - ■ JQ33 - ■ ■ V1**	
	D.169-LEN160MRA4P							
	5.4	16 300	271.4	69 300	0.85	504	**2KJ4213 - ■ JQ33 - ■ ■ T1**	
	6	14 700	243.68	69 900	0.95	504	**2KJ4213 - ■ JQ33 - ■ ■ S1**	
	6.6	13 300	220.58	70 400	1.1	504	**2KJ4213 - ■ JQ33 - ■ ■ R1**	
	7.5	11 700	193.75	71 000	1.2	504	**2KJ4213 - ■ JQ33 - ■ ■ Q1**	
	8.3	10 600	175.57	71 400	1.3	504	**2KJ4213 - ■ JQ33 - ■ ■ P1**	
	9.3	9 440	156.36	71 800	1.5	504	**2KJ4213 - ■ JQ33 - ■ ■ N1**	
	10	8 470	140.41	72 200	1.7	504	**2KJ4213 - ■ JQ33 - ■ ■ M1**	
	12	7 560	125.28	72 500	1.9	504	**2KJ4213 - ■ JQ33 - ■ ■ L1**	
	13	6 740	111.69	72 800	2.1	504	**2KJ4213 - ■ JQ33 - ■ ■ K1**	
	D.189-LEN160MRA4P							
	4.6	18 900	313.63	107 000	1.0	717	**2KJ4214 - ■ JQ33 - ■ ■ T1**	
	5.2	16 900	280.59	107 000	1.1	717	**2KJ4214 - ■ JQ33 - ■ ■ S1**	
	5.7	15 200	253.06	107 000	1.2	717	**2KJ4214 - ■ JQ33 - ■ ■ R1**	
	6.5	13 500	223.66	107 000	1.4	717	**2KJ4214 - ■ JQ33 - ■ ■ Q1**	
	7.1	12 300	204.44	107 000	1.5	717	**2KJ4214 - ■ JQ33 - ■ ■ P1**	
	7.9	11 100	183.92	107 000	1.7	717	**2KJ4214 - ■ JQ33 - ■ ■ N1**	
	8.9	9 920	164.36	107 000	1.9	717	**2KJ4214 - ■ JQ33 - ■ ■ M1**	
	9.8	8 970	148.63	107 000	2.1	717	**2KJ4214 - ■ JQ33 - ■ ■ L1**	
	D.189-Z69-LEN132MS4E							
	3.8	21 800	382	107 000	0.87	750	**2KJ4244 - ■ HV32 - ■ ■ A1**	
11	**E.69-LEN160MJ4E**							
	444	235	3.3	5 200	0.85	121	**2KJ4003 - ■ JP32 - ■ ■ G1**	
	497	210	2.95	5 400	0.95	121	**2KJ4003 - ■ JP32 - ■ ■ F1**	
	877	120	1.67	5 400	1.6	121	**2KJ4003 - ■ JP32 - ■ ■ B1**	
	1 024	103	1.43	5 300	1.9	121	**2KJ4003 - ■ JP32 - ■ ■ A1**	
	Z.79-LEN160MJ4E							
	113	930	12.99	9 800	0.9	137	**2KJ4107 - ■ JP32 - ■ ■ K1**	
	128	820	11.48	9 600	1.0	137	**2KJ4107 - ■ JP32 - ■ ■ J1**	
	150	700	9.76	9 400	1.2	137	**2KJ4107 - ■ JP32 - ■ ■ H1**	
	175	600	8.37	9 100	1.3	137	**2KJ4107 - ■ JP32 - ■ ■ G1**	
	179	585	8.19	8 800	1.2	137	**2KJ4107 - ■ JP32 - ■ ■ F1**	
	205	510	7.16	8 600	1.4	137	**2KJ4107 - ■ JP32 - ■ ■ E1**	
	238	440	6.15	4 400	1.6	137	**2KJ4107 - ■ JP32 - ■ ■ D1**	
	270	385	5.43	5 000	1.8	137	**2KJ4107 - ■ JP32 - ■ ■ C1**	
	317	330	4.62	5 300	2.3	137	**2KJ4107 - ■ JP32 - ■ ■ B1**	
	370	280	3.96	5 700	2.7	137	**2KJ4107 - ■ JP32 - ■ ■ A1**	
	E.89-LEN160MJ4E							
	300	350	4.89	8 000	1.0	138	**2KJ4004 - ■ JP32 - ■ ■ L1**	
	337	310	4.35	8 000	1.2	138	**2KJ4004 - ■ JP32 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**E.89-LEN160MJ4E**							
	380	275	3.86	8 000	1.3	138	**2KJ4004 - ■ JP32 - ■ ■ J1**	
	423	245	3.46	8 000	1.5	138	**2KJ4004 - ■ JP32 - ■ ■ H1**	
	495	210	2.96	8 000	1.7	138	**2KJ4004 - ■ JP32 - ■ ■ G1**	
	555	189	2.64	7 800	1.9	138	**2KJ4004 - ■ JP32 - ■ ■ F1**	
	629	167	2.33	7 600	2.2	138	**2KJ4004 - ■ JP32 - ■ ■ E1**	
	715	147	2.05	7 400	2.4	138	**2KJ4004 - ■ JP32 - ■ ■ D1**	
	823	128	1.78	7 100	2.9	138	**2KJ4004 - ■ JP32 - ■ ■ C1**	
	964	109	1.52	6 900	3.3	138	**2KJ4004 - ■ JP32 - ■ ■ B1**	
	1 127	93	1.3	6 600	3.9	138	**2KJ4004 - ■ JP32 - ■ ■ A1**	
	Z.89-LEN160MJ4E							
	50	2 080	29.01	15 500	0.81	160	**2KJ4108 - ■ JP32 - ■ ■ R1**	
	57	1 850	25.81	16 800	0.91	160	**2KJ4108 - ■ JP32 - ■ ■ Q1**	
	64	1 640	22.92	17 900	1.0	160	**2KJ4108 - ■ JP32 - ■ ■ P1**	
	71	1 470	20.52	17 700	1.1	160	**2KJ4108 - ■ JP32 - ■ ■ N1**	
	84	1 250	17.54	17 200	1.3	160	**2KJ4108 - ■ JP32 - ■ ■ M1**	
	94	1 120	15.66	16 800	1.5	160	**2KJ4108 - ■ JP32 - ■ ■ L1**	
	106	990	13.84	16 400	1.7	160	**2KJ4108 - ■ JP32 - ■ ■ K1**	
	121	870	12.15	15 900	1.9	160	**2KJ4108 - ■ JP32 - ■ ■ J1**	
	138	755	10.58	15 400	2.1	160	**2KJ4108 - ■ JP32 - ■ ■ H1**	
	162	645	9.04	14 800	2.4	160	**2KJ4108 - ■ JP32 - ■ ■ G1**	
	189	555	7.74	14 200	2.8	160	**2KJ4108 - ■ JP32 - ■ ■ F1**	
	213	490	6.89	13 900	2.1	160	**2KJ4108 - ■ JP32 - ■ ■ E1**	
	242	430	6.05	13 400	2.4	160	**2KJ4108 - ■ JP32 - ■ ■ D1**	
	279	375	5.26	12 900	2.8	160	**2KJ4108 - ■ JP32 - ■ ■ C1**	
	326	320	4.5	12 400	3.3	160	**2KJ4108 - ■ JP32 - ■ ■ B1**	
	381	275	3.85	11 800	3.8	160	**2KJ4108 - ■ JP32 - ■ ■ A1**	
	E.69-LEN160MRB4P							
	442	235	3.3	5 200	0.84	90	**2KJ4003 - ■ JR33 - ■ ■ G1**	
	495	210	2.95	5 400	0.94	90	**2KJ4003 - ■ JR33 - ■ ■ F1**	
	874	120	1.67	5 400	1.6	90	**2KJ4003 - ■ JR33 - ■ ■ B1**	
	1 021	103	1.43	5 300	1.9	90	**2KJ4003 - ■ JR33 - ■ ■ A1**	
	Z.79-LEN160MRB4P							
	112	935	12.99	9 800	0.9	106	**2KJ4107 - ■ JR33 - ■ ■ K1**	
	127	825	11.48	9 600	1.0	106	**2KJ4107 - ■ JR33 - ■ ■ J1**	
	150	700	9.76	9 400	1.2	106	**2KJ4107 - ■ JR33 - ■ ■ H1**	
	174	600	8.37	9 100	1.3	106	**2KJ4107 - ■ JR33 - ■ ■ G1**	
	178	585	8.19	8 900	1.2	106	**2KJ4107 - ■ JR33 - ■ ■ F1**	
	204	515	7.16	8 600	1.4	106	**2KJ4107 - ■ JR33 - ■ ■ E1**	
	237	440	6.15	4 500	1.6	106	**2KJ4107 - ■ JR33 - ■ ■ D1**	
	269	390	5.43	4 900	1.8	106	**2KJ4107 - ■ JR33 - ■ ■ C1**	
	316	330	4.62	5 300	2.3	106	**2KJ4107 - ■ JR33 - ■ ■ B1**	
	369	285	3.96	5 600	2.7	106	**2KJ4107 - ■ JR33 - ■ ■ A1**	
	E.89-LEN160MRB4P							
	299	350	4.89	8 000	1.0	107	**2KJ4004 - ■ JR33 - ■ ■ L1**	
	336	310	4.35	8 000	1.2	107	**2KJ4004 - ■ JR33 - ■ ■ K1**	
	378	275	3.86	8 000	1.3	107	**2KJ4004 - ■ JR33 - ■ ■ J1**	
	422	245	3.46	8 000	1.5	107	**2KJ4004 - ■ JR33 - ■ ■ H1**	
	493	210	2.96	8 000	1.7	107	**2KJ4004 - ■ JR33 - ■ ■ G1**	
	553	190	2.64	7 800	1.9	107	**2KJ4004 - ■ JR33 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**E.89-LEN160MRB4P**							
	627	168	2.33	7 600	2.1	107	**2KJ4004 - ■ JR33 - ■ ■ E1**	
	712	148	2.05	7 400	2.4	107	**2KJ4004 - ■ JR33 - ■ ■ D1**	
	820	128	1.78	7 100	2.8	107	**2KJ4004 - ■ JR33 - ■ ■ C1**	
	961	109	1.52	6 900	3.3	107	**2KJ4004 - ■ JR33 - ■ ■ B1**	
	1 123	94	1.3	6 600	3.8	107	**2KJ4004 - ■ JR33 - ■ ■ A1**	
	Z.89-LEN160MRB4P							
	50	2 080	29.01	15 600	0.8	129	**2KJ4108 - ■ JR33 - ■ ■ R1**	
	57	1 850	25.81	16 900	0.9	129	**2KJ4108 - ■ JR33 - ■ ■ Q1**	
	64	1 640	22.92	17 900	1.0	129	**2KJ4108 - ■ JR33 - ■ ■ P1**	
	71	1 470	20.52	17 700	1.1	129	**2KJ4108 - ■ JR33 - ■ ■ N1**	
	83	1 260	17.54	17 200	1.3	129	**2KJ4108 - ■ JR33 - ■ ■ M1**	
	93	1 120	15.66	16 800	1.5	129	**2KJ4108 - ■ JR33 - ■ ■ L1**	
	105	995	13.84	16 400	1.7	129	**2KJ4108 - ■ JR33 - ■ ■ K1**	
	120	870	12.15	15 900	1.9	129	**2KJ4108 - ■ JR33 - ■ ■ J1**	
	138	760	10.58	15 400	2.1	129	**2KJ4108 - ■ JR33 - ■ ■ H1**	
	162	650	9.04	14 800	2.4	129	**2KJ4108 - ■ JR33 - ■ ■ G1**	
	189	555	7.74	14 300	2.7	129	**2KJ4108 - ■ JR33 - ■ ■ F1**	
	212	495	6.89	13 900	2.1	129	**2KJ4108 - ■ JR33 - ■ ■ E1**	
	241	435	6.05	13 500	2.4	129	**2KJ4108 - ■ JR33 - ■ ■ D1**	
	278	375	5.26	12 900	2.8	129	**2KJ4108 - ■ JR33 - ■ ■ C1**	
	324	320	4.5	12 400	3.3	129	**2KJ4108 - ■ JR33 - ■ ■ B1**	
	379	275	3.85	11 800	3.8	129	**2KJ4108 - ■ JR33 - ■ ■ A1**	
	E.109-LEN160MJ4E							
	204	515	7.19	10 500	1.1	160	**2KJ4005 - ■ JP32 - ■ ■ Q1**	
	217	485	6.76	10 500	1.2	160	**2KJ4005 - ■ JP32 - ■ ■ P1**	
	233	450	6.28	10 500	1.3	160	**2KJ4005 - ■ JP32 - ■ ■ N1**	
	264	395	5.55	10 500	1.4	160	**2KJ4005 - ■ JP32 - ■ ■ M1**	
	296	355	4.95	10 500	1.6	160	**2KJ4005 - ■ JP32 - ■ ■ L1**	
	328	320	4.46	10 500	1.8	160	**2KJ4005 - ■ JP32 - ■ ■ K1**	
	379	275	3.87	10 500	2.0	160	**2KJ4005 - ■ JP32 - ■ ■ J1**	
	421	250	3.48	10 500	2.2	160	**2KJ4005 - ■ JP32 - ■ ■ H1**	
	482	215	3.04	10 500	2.5	160	**2KJ4005 - ■ JP32 - ■ ■ G1**	
	541	194	2.71	10 500	2.8	160	**2KJ4005 - ■ JP32 - ■ ■ F1**	
	613	171	2.39	10 500	3.2	160	**2KJ4005 - ■ JP32 - ■ ■ E1**	
	698	151	2.1	10 200	3.6	160	**2KJ4005 - ■ JP32 - ■ ■ D1**	
	801	131	1.83	9 900	4.0	160	**2KJ4005 - ■ JP32 - ■ ■ C1**	
	877	120	1.67	9 600	4.4	160	**2KJ4005 - ■ JP32 - ■ ■ B1**	
	1 024	103	1.43	9 200	4.5	160	**2KJ4005 - ■ JP32 - ■ ■ A1**	
	Z.109-LEN160MJ4E							
	29	3 660	51.17	20 200	0.84	198	**2KJ4110 - ■ JP32 - ■ ■ X1**	
	34	3 120	43.64	20 200	0.99	198	**2KJ4110 - ■ JP32 - ■ ■ W1**	
	36	2 940	41.07	20 200	1.1	198	**2KJ4110 - ■ JP32 - ■ ■ V1**	
	38	2 730	38.12	20 200	1.1	198	**2KJ4110 - ■ JP32 - ■ ■ U1**	
	43	2 410	33.7	20 200	1.3	198	**2KJ4110 - ■ JP32 - ■ ■ T1**	
	49	2 150	30.08	20 200	1.4	198	**2KJ4110 - ■ JP32 - ■ ■ S1**	
	54	1 940	27.07	20 200	1.6	198	**2KJ4110 - ■ JP32 - ■ ■ R1**	
	62	1 680	23.49	20 200	1.7	198	**2KJ4110 - ■ JP32 - ■ ■ Q1**	
	69	1 510	21.13	20 200	1.9	198	**2KJ4110 - ■ JP32 - ■ ■ P1**	
	79	1 320	18.47	20 200	2.1	198	**2KJ4110 - ■ JP32 - ■ ■ N1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**Z.109-LEN160MJ4E**							
	89	1 180	16.48	19 900	2.2	198	**2KJ4110 - ■ JP32 - ■ ■ M1**	
	101	1 040	14.52	19 400	2.5	198	**2KJ4110 - ■ JP32 - ■ ■ L1**	
	115	910	12.72	18 900	2.8	198	**2KJ4110 - ■ JP32 - ■ ■ K1**	
	132	795	11.09	18 300	3.1	198	**2KJ4110 - ■ JP32 - ■ ■ J1**	
	145	725	10.12	17 900	3.3	198	**2KJ4110 - ■ JP32 - ■ ■ H1**	
	168	625	8.71	17 300	3.8	198	**2KJ4110 - ■ JP32 - ■ ■ G1**	
	174	600	8.41	17 000	3.8	198	**2KJ4110 - ■ JP32 - ■ ■ F1**	
	198	530	7.41	16 500	4.3	198	**2KJ4110 - ■ JP32 - ■ ■ E1**	
	D.129-LEN160MJ4E							
	19	5 640	78.78	26 600	0.89	264	**2KJ4211 - ■ JP32 - ■ ■ C1**	
	E.129-LEN160MJ4E							
	150	700	9.79	13 500	0.95	184	**2KJ4006 - ■ JP32 - ■ ■ T1**	
	175	600	8.38	13 500	1.1	184	**2KJ4006 - ■ JP32 - ■ ■ S1**	
	186	565	7.88	13 500	1.2	184	**2KJ4006 - ■ JP32 - ■ ■ R1**	
	198	530	7.39	13 500	1.5	184	**2KJ4006 - ■ JP32 - ■ ■ Q1**	
	224	470	6.55	13 500	1.7	184	**2KJ4006 - ■ JP32 - ■ ■ P1**	
	252	415	5.82	13 500	1.9	184	**2KJ4006 - ■ JP32 - ■ ■ N1**	
	279	375	5.25	13 500	2.1	184	**2KJ4006 - ■ JP32 - ■ ■ M1**	
	315	330	4.65	13 500	2.4	184	**2KJ4006 - ■ JP32 - ■ ■ L1**	
	356	295	4.12	13 500	2.7	184	**2KJ4006 - ■ JP32 - ■ ■ K1**	
	399	260	3.67	13 200	3.0	184	**2KJ4006 - ■ JP32 - ■ ■ J1**	
	445	235	3.29	12 800	3.3	184	**2KJ4006 - ■ JP32 - ■ ■ H1**	
	503	205	2.91	12 500	3.7	184	**2KJ4006 - ■ JP32 - ■ ■ G1**	
	570	184	2.57	12 100	4.2	184	**2KJ4006 - ■ JP32 - ■ ■ F1**	
	648	162	2.26	11 700	4.7	184	**2KJ4006 - ■ JP32 - ■ ■ E1**	
	715	147	2.05	11 400	5.2	184	**2KJ4006 - ■ JP32 - ■ ■ D1**	
	823	128	1.78	11 000	6.0	184	**2KJ4006 - ■ JP32 - ■ ■ C1**	
	Z.129-LEN160MJ4E							
	23	4 480	62.48	27 300	1.1	260	**2KJ4111 - ■ JP32 - ■ ■ X1**	
	27	3 830	53.47	27 700	1.3	260	**2KJ4111 - ■ JP32 - ■ ■ W1**	
	29	3 600	50.33	27 800	1.4	260	**2KJ4111 - ■ JP32 - ■ ■ V1**	
	31	3 380	47.18	28 000	1.5	260	**2KJ4111 - ■ JP32 - ■ ■ U1**	
	35	2 990	41.82	28 200	1.7	260	**2KJ4111 - ■ JP32 - ■ ■ T1**	
	39	2 660	37.15	28 400	1.9	260	**2KJ4111 - ■ JP32 - ■ ■ S1**	
	44	2 400	33.52	28 500	2.1	260	**2KJ4111 - ■ JP32 - ■ ■ R1**	
	49	2 130	29.7	28 600	2.3	260	**2KJ4111 - ■ JP32 - ■ ■ Q1**	
	56	1 880	26.3	27 900	2.7	260	**2KJ4111 - ■ JP32 - ■ ■ P1**	
	63	1 670	23.41	27 200	3.0	260	**2KJ4111 - ■ JP32 - ■ ■ N1**	
	D.149-LEN160MJ4E							
	11	9 910	138.26	50 300	0.81	348	**2KJ4212 - ■ JP32 - ■ ■ N1**	
	12	8 820	123.04	50 800	0.91	348	**2KJ4212 - ■ JP32 - ■ ■ M1**	
	13	7 900	110.26	51 200	1.0	348	**2KJ4212 - ■ JP32 - ■ ■ L1**	
	15	7 000	97.75	51 600	1.1	348	**2KJ4212 - ■ JP32 - ■ ■ K1**	
	17	6 180	86.29	52 000	1.3	348	**2KJ4212 - ■ JP32 - ■ ■ J1**	
	19	5 440	75.87	52 400	1.5	348	**2KJ4212 - ■ JP32 - ■ ■ H1**	
	21	4 920	68.71	52 600	1.6	348	**2KJ4212 - ■ JP32 - ■ ■ G1**	
	E.149-LEN160MJ4E							
	150	700	9.76	16 000	1.7	221	**2KJ4007 - ■ JP32 - ■ ■ S1**	
	161	650	9.11	16 000	1.9	221	**2KJ4007 - ■ JP32 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**E.149-LEN160MJ4E**							
	181	580	8.1	16 000	2.3	221	**2KJ4007 - ■ JP32 - ■ ■ Q1**	
	202	520	7.27	16 000	2.6	221	**2KJ4007 - ■ JP32 - ■ ■ P1**	
	223	470	6.58	16 000	2.8	221	**2KJ4007 - ■ JP32 - ■ ■ N1**	
	253	410	5.78	16 000	3.6	221	**2KJ4007 - ■ JP32 - ■ ■ M1**	
	280	375	5.24	16 000	4.0	221	**2KJ4007 - ■ JP32 - ■ ■ L1**	
	314	335	4.67	16 000	4.4	221	**2KJ4007 - ■ JP32 - ■ ■ K1**	
	350	300	4.19	15 800	4.9	221	**2KJ4007 - ■ JP32 - ■ ■ J1**	
	Z.149-LEN160MJ4E							
	26	4 060	56.64	53 000	2.0	342	**2KJ4112 - ■ JP32 - ■ ■ W1**	
	28	3 780	52.84	53 200	2.0	342	**2KJ4112 - ■ JP32 - ■ ■ V1**	
	31	3 360	46.98	53 300	2.2	342	**2KJ4112 - ■ JP32 - ■ ■ U1**	
	35	3 020	42.18	51 900	2.5	342	**2KJ4112 - ■ JP32 - ■ ■ T1**	
	D.169-LEN160MJ4E							
	6	17 400	243.68	68 900	0.8	527	**2KJ4213 - ■ JP32 - ■ ■ S1**	
	6.6	15 800	220.58	69 500	0.89	527	**2KJ4213 - ■ JP32 - ■ ■ R1**	
	7.6	13 800	193.75	70 200	1.0	527	**2KJ4213 - ■ JP32 - ■ ■ Q1**	
	8.3	12 500	175.57	70 700	1.1	527	**2KJ4213 - ■ JP32 - ■ ■ P1**	
	9.4	11 200	156.36	71 100	1.2	527	**2KJ4213 - ■ JP32 - ■ ■ N1**	
	10	10 000	140.41	71 600	1.4	527	**2KJ4213 - ■ JP32 - ■ ■ M1**	
	12	8 980	125.28	72 000	1.6	527	**2KJ4213 - ■ JP32 - ■ ■ L1**	
	13	8 000	111.69	72 400	1.7	527	**2KJ4213 - ■ JP32 - ■ ■ K1**	
	15	7 100	99.06	72 700	2.0	527	**2KJ4213 - ■ JP32 - ■ ■ J1**	
	16	6 520	90.94	72 900	2.1	527	**2KJ4213 - ■ JP32 - ■ ■ H1**	
	D.189-LEN160MJ4E							
	4.7	22 400	313.63	107 000	0.84	740	**2KJ4214 - ■ JP32 - ■ ■ T1**	
	5.2	20 100	280.59	107 000	0.94	740	**2KJ4214 - ■ JP32 - ■ ■ S1**	
	5.8	18 100	253.06	107 000	1.0	740	**2KJ4214 - ■ JP32 - ■ ■ R1**	
	6.6	16 000	223.66	107 000	1.2	740	**2KJ4214 - ■ JP32 - ■ ■ Q1**	
	7.2	14 600	204.44	107 000	1.3	740	**2KJ4214 - ■ JP32 - ■ ■ P1**	
	8	13 100	183.92	107 000	1.4	740	**2KJ4214 - ■ JP32 - ■ ■ N1**	
	8.9	11 700	164.36	107 000	1.6	740	**2KJ4214 - ■ JP32 - ■ ■ M1**	
	9.9	10 600	148.63	107 000	1.8	740	**2KJ4214 - ■ JP32 - ■ ■ L1**	
	11	9 400	131.17	107 000	2.0	740	**2KJ4214 - ■ JP32 - ■ ■ K1**	
	E.109-LEN160MRB4P							
	203	515	7.19	10 500	1.1	129	**2KJ4005 - ■ JR33 - ■ ■ Q1**	
	216	485	6.76	10 500	1.2	129	**2KJ4005 - ■ JR33 - ■ ■ P1**	
	232	450	6.28	10 500	1.3	129	**2KJ4005 - ■ JR33 - ■ ■ N1**	
	263	395	5.55	10 500	1.4	129	**2KJ4005 - ■ JR33 - ■ ■ M1**	
	295	355	4.95	10 500	1.6	129	**2KJ4005 - ■ JR33 - ■ ■ L1**	
	327	320	4.46	10 500	1.7	129	**2KJ4005 - ■ JR33 - ■ ■ K1**	
	377	275	3.87	10 500	2.0	129	**2KJ4005 - ■ JR33 - ■ ■ J1**	
	420	250	3.48	10 500	2.2	129	**2KJ4005 - ■ JR33 - ■ ■ H1**	
	480	215	3.04	10 500	2.5	129	**2KJ4005 - ■ JR33 - ■ ■ G1**	
	539	195	2.71	10 500	2.8	129	**2KJ4005 - ■ JR33 - ■ ■ F1**	
	611	172	2.39	10 500	3.1	129	**2KJ4005 - ■ JR33 - ■ ■ E1**	
	695	151	2.1	10 200	3.5	129	**2KJ4005 - ■ JR33 - ■ ■ D1**	
	798	132	1.83	9 900	4.0	129	**2KJ4005 - ■ JR33 - ■ ■ C1**	
	874	120	1.67	9 600	4.4	129	**2KJ4005 - ■ JR33 - ■ ■ B1**	
	1 021	103	1.43	9 300	4.5	129	**2KJ4005 - ■ JR33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**Z.109-LEN160MRB4P**							
	29	3 680	51.17	20 100	0.84	167	**2KJ4110 - ■ JR33 - ■ ■ X1**	
	33	3 140	43.64	20 200	0.99	167	**2KJ4110 - ■ JR33 - ■ ■ W1**	
	36	2 950	41.07	20 200	1.0	167	**2KJ4110 - ■ JR33 - ■ ■ V1**	
	38	2 740	38.12	20 200	1.1	167	**2KJ4110 - ■ JR33 - ■ ■ U1**	
	43	2 420	33.7	20 200	1.3	167	**2KJ4110 - ■ JR33 - ■ ■ T1**	
	49	2 160	30.08	20 200	1.4	167	**2KJ4110 - ■ JR33 - ■ ■ S1**	
	54	1 940	27.07	20 200	1.6	167	**2KJ4110 - ■ JR33 - ■ ■ R1**	
	62	1 690	23.49	20 200	1.7	167	**2KJ4110 - ■ JR33 - ■ ■ Q1**	
	69	1 520	21.13	20 200	1.9	167	**2KJ4110 - ■ JR33 - ■ ■ P1**	
	79	1 320	18.47	20 200	2.0	167	**2KJ4110 - ■ JR33 - ■ ■ N1**	
	89	1 180	16.48	20 000	2.2	167	**2KJ4110 - ■ JR33 - ■ ■ M1**	
	101	1 040	14.52	19 400	2.5	167	**2KJ4110 - ■ JR33 - ■ ■ L1**	
	115	915	12.72	18 900	2.7	167	**2KJ4110 - ■ JR33 - ■ ■ K1**	
	132	795	11.09	18 300	3.1	167	**2KJ4110 - ■ JR33 - ■ ■ J1**	
	144	725	10.12	17 900	3.3	167	**2KJ4110 - ■ JR33 - ■ ■ H1**	
	168	625	8.71	17 300	3.8	167	**2KJ4110 - ■ JR33 - ■ ■ G1**	
	174	605	8.41	17 000	3.8	167	**2KJ4110 - ■ JR33 - ■ ■ F1**	
	197	530	7.41	16 500	4.3	167	**2KJ4110 - ■ JR33 - ■ ■ E1**	
	D.129-LEN160MRB4P							
	19	5 660	78.78	26 600	0.88	233	**2KJ4211 - ■ JR33 - ■ ■ C1**	
	E.129-LEN160MRB4P							
	149	700	9.79	13 500	0.94	153	**2KJ4006 - ■ JR33 - ■ ■ T1**	
	174	600	8.38	13 500	1.1	153	**2KJ4006 - ■ JR33 - ■ ■ S1**	
	185	565	7.88	13 500	1.2	153	**2KJ4006 - ■ JR33 - ■ ■ R1**	
	198	530	7.39	13 500	1.5	153	**2KJ4006 - ■ JR33 - ■ ■ Q1**	
	223	470	6.55	13 500	1.7	153	**2KJ4006 - ■ JR33 - ■ ■ P1**	
	251	415	5.82	13 500	1.9	153	**2KJ4006 - ■ JR33 - ■ ■ N1**	
	278	375	5.25	13 500	2.1	153	**2KJ4006 - ■ JR33 - ■ ■ M1**	
	314	335	4.65	13 500	2.4	153	**2KJ4006 - ■ JR33 - ■ ■ L1**	
	354	295	4.12	13 500	2.6	153	**2KJ4006 - ■ JR33 - ■ ■ K1**	
	398	260	3.67	13 200	3.0	153	**2KJ4006 - ■ JR33 - ■ ■ J1**	
	444	235	3.29	12 800	3.3	153	**2KJ4006 - ■ JR33 - ■ ■ H1**	
	502	205	2.91	12 500	3.7	153	**2KJ4006 - ■ JR33 - ■ ■ G1**	
	568	185	2.57	12 100	4.1	153	**2KJ4006 - ■ JR33 - ■ ■ F1**	
	646	163	2.26	11 700	4.7	153	**2KJ4006 - ■ JR33 - ■ ■ E1**	
	712	148	2.05	11 400	5.2	153	**2KJ4006 - ■ JR33 - ■ ■ D1**	
	820	128	1.78	11 000	5.9	153	**2KJ4006 - ■ JR33 - ■ ■ C1**	
	Z.129-LEN160MRB4P							
	23	4 490	62.48	27 300	1.1	229	**2KJ4111 - ■ JR33 - ■ ■ X1**	
	27	3 840	53.47	27 700	1.3	229	**2KJ4111 - ■ JR33 - ■ ■ W1**	
	29	3 620	50.33	27 800	1.4	229	**2KJ4111 - ■ JR33 - ■ ■ V1**	
	31	3 390	47.18	28 000	1.5	229	**2KJ4111 - ■ JR33 - ■ ■ U1**	
	35	3 000	41.82	28 200	1.7	229	**2KJ4111 - ■ JR33 - ■ ■ T1**	
	39	2 670	37.15	28 400	1.9	229	**2KJ4111 - ■ JR33 - ■ ■ S1**	
	44	2 410	33.52	28 500	2.1	229	**2KJ4111 - ■ JR33 - ■ ■ R1**	
	49	2 130	29.7	28 600	2.3	229	**2KJ4111 - ■ JR33 - ■ ■ Q1**	
	56	1 890	26.3	27 900	2.6	229	**2KJ4111 - ■ JR33 - ■ ■ P1**	
	62	1 680	23.41	27 200	3.0	229	**2KJ4111 - ■ JR33 - ■ ■ N1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
9.2	**D.149-LEN160MRB4P**							
	11	9 940	138.26	50 200	0.8	317	**2KJ4212 - ■ JR33 - ■ ■ N1**	
	12	8 850	123.04	50 800	0.9	317	**2KJ4212 - ■ JR33 - ■ ■ M1**	
	13	7 930	110.26	51 200	1.0	317	**2KJ4212 - ■ JR33 - ■ ■ L1**	
	15	7 030	97.75	51 600	1.1	317	**2KJ4212 - ■ JR33 - ■ ■ K1**	
	17	6 200	86.29	52 000	1.3	317	**2KJ4212 - ■ JR33 - ■ ■ J1**	
	19	5 450	75.87	52 400	1.5	317	**2KJ4212 - ■ JR33 - ■ ■ H1**	
	21	4 940	68.71	52 600	1.6	317	**2KJ4212 - ■ JR33 - ■ ■ G1**	
	E.149-LEN160MRB4P							
	150	700	9.76	16 000	1.7	190	**2KJ4007 - ■ JR33 - ■ ■ S1**	
	160	655	9.11	16 000	1.9	190	**2KJ4007 - ■ JR33 - ■ ■ R1**	
	180	580	8.1	16 000	2.3	190	**2KJ4007 - ■ JR33 - ■ ■ Q1**	
	201	520	7.27	16 000	2.6	190	**2KJ4007 - ■ JR33 - ■ ■ P1**	
	222	470	6.58	16 000	2.8	190	**2KJ4007 - ■ JR33 - ■ ■ N1**	
	253	415	5.78	16 000	3.6	190	**2KJ4007 - ■ JR33 - ■ ■ M1**	
	279	375	5.24	16 000	4.0	190	**2KJ4007 - ■ JR33 - ■ ■ L1**	
	313	335	4.67	16 000	4.4	190	**2KJ4007 - ■ JR33 - ■ ■ K1**	
	348	300	4.19	15 800	4.9	190	**2KJ4007 - ■ JR33 - ■ ■ J1**	
	Z.149-LEN160MRB4P							
	26	4 070	56.64	53 000	2.0	311	**2KJ4112 - ■ JR33 - ■ ■ W1**	
	28	3 800	52.84	53 100	2.0	311	**2KJ4112 - ■ JR33 - ■ ■ V1**	
	31	3 380	46.98	53 300	2.2	311	**2KJ4112 - ■ JR33 - ■ ■ U1**	
	35	3 030	42.18	51 900	2.5	311	**2KJ4112 - ■ JR33 - ■ ■ T1**	
	D.169-LEN160MRB4P							
	6	17 500	243.68	68 800	0.8	496	**2KJ4213 - ■ JR33 - ■ ■ S1**	
	6.6	15 800	220.58	69 500	0.88	496	**2KJ4213 - ■ JR33 - ■ ■ R1**	
	7.5	13 900	193.75	70 200	1.0	496	**2KJ4213 - ■ JR33 - ■ ■ Q1**	
	8.3	12 600	175.57	70 600	1.1	496	**2KJ4213 - ■ JR33 - ■ ■ P1**	
	9.3	11 200	156.36	71 100	1.2	496	**2KJ4213 - ■ JR33 - ■ ■ N1**	
	10	10 100	140.41	71 600	1.4	496	**2KJ4213 - ■ JR33 - ■ ■ M1**	
	12	9 010	125.28	72 000	1.6	496	**2KJ4213 - ■ JR33 - ■ ■ L1**	
	13	8 030	111.69	72 400	1.7	496	**2KJ4213 - ■ JR33 - ■ ■ K1**	
	15	7 120	99.06	72 700	2.0	496	**2KJ4213 - ■ JR33 - ■ ■ J1**	
	16	6 540	90.94	72 900	2.1	496	**2KJ4213 - ■ JR33 - ■ ■ H1**	
	D.189-LEN160MRB4P							
	4.7	22 500	313.63	107 000	0.84	709	**2KJ4214 - ■ JR33 - ■ ■ T1**	
	5.2	20 100	280.59	107 000	0.94	709	**2KJ4214 - ■ JR33 - ■ ■ S1**	
	5.8	18 200	253.06	107 000	1.0	709	**2KJ4214 - ■ JR33 - ■ ■ R1**	
	6.5	16 000	223.66	107 000	1.2	709	**2KJ4214 - ■ JR33 - ■ ■ Q1**	
	7.1	14 700	204.44	107 000	1.3	709	**2KJ4214 - ■ JR33 - ■ ■ P1**	
	7.9	13 200	183.92	107 000	1.4	709	**2KJ4214 - ■ JR33 - ■ ■ N1**	
	8.9	11 800	164.36	107 000	1.6	709	**2KJ4214 - ■ JR33 - ■ ■ M1**	
	9.8	10 600	148.63	107 000	1.8	709	**2KJ4214 - ■ JR33 - ■ ■ L1**	
	11	9 430	131.17	107 000	2.0	709	**2KJ4214 - ■ JR33 - ■ ■ K1**	
15	**Z.79-LEN160LH4E**							
	150	950	9.76	8 600	0.85	161	**2KJ4107 - ■ JS32 - ■ ■ H1**	
	175	815	8.37	8 400	0.97	161	**2KJ4107 - ■ JS32 - ■ ■ G1**	
	179	800	8.19	8 100	0.89	161	**2KJ4107 - ■ JS32 - ■ ■ F1**	
	205	700	7.16	8 000	1.0	161	**2KJ4107 - ■ JS32 - ■ ■ E1**	
	238	600	6.15	7 800	1.2	161	**2KJ4107 - ■ JS32 - ■ ■ D1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**Z.79-LEN160LH4E**							
	270	530	5.43	7 600	1.3	161	**2KJ4107 - ■ JS32 - ■ ■ C1**	
	317	450	4.62	7 400	1.7	161	**2KJ4107 - ■ JS32 - ■ ■ B1**	
	370	385	3.96	3 700	2.0	161	**2KJ4107 - ■ JS32 - ■ ■ A1**	
	Z.79-LEN160LQ4P							
	150	955	9.76	8 600	0.85	131	**2KJ4107 - ■ JU33 - ■ ■ H1**	
	174	820	8.37	8 400	0.96	131	**2KJ4107 - ■ JU33 - ■ ■ G1**	
	178	800	8.19	8 100	0.89	131	**2KJ4107 - ■ JU33 - ■ ■ F1**	
	204	700	7.16	8 000	1.0	131	**2KJ4107 - ■ JU33 - ■ ■ E1**	
	237	600	6.15	7 800	1.2	131	**2KJ4107 - ■ JU33 - ■ ■ D1**	
	269	530	5.43	7 700	1.3	131	**2KJ4107 - ■ JU33 - ■ ■ C1**	
	316	450	4.62	7 400	1.7	131	**2KJ4107 - ■ JU33 - ■ ■ B1**	
	369	385	3.96	3 800	2.0	131	**2KJ4107 - ■ JU33 - ■ ■ A1**	
	E.89-LEN160LH4E							
	337	425	4.35	6 900	0.85	162	**2KJ4004 - ■ JS32 - ■ ■ K1**	
	380	375	3.86	7 200	0.95	162	**2KJ4004 - ■ JS32 - ■ ■ J1**	
	423	335	3.46	7 300	1.1	162	**2KJ4004 - ■ JS32 - ■ ■ H1**	
	495	285	2.96	7 500	1.2	162	**2KJ4004 - ■ JS32 - ■ ■ G1**	
	555	255	2.64	7 300	1.4	162	**2KJ4004 - ■ JS32 - ■ ■ F1**	
	629	225	2.33	7 200	1.6	162	**2KJ4004 - ■ JS32 - ■ ■ E1**	
	715	200	2.05	7 000	1.8	162	**2KJ4004 - ■ JS32 - ■ ■ D1**	
	823	174	1.78	6 800	2.1	162	**2KJ4004 - ■ JS32 - ■ ■ C1**	
	964	149	1.52	6 600	2.4	162	**2KJ4004 - ■ JS32 - ■ ■ B1**	
	1 127	127	1.3	6 300	2.8	162	**2KJ4004 - ■ JS32 - ■ ■ A1**	
	E.89-LEN160LQ4P							
	336	425	4.35	6 900	0.84	132	**2KJ4004 - ■ JU33 - ■ ■ K1**	
	378	375	3.86	7 200	0.95	132	**2KJ4004 - ■ JU33 - ■ ■ J1**	
	422	335	3.46	7 400	1.1	132	**2KJ4004 - ■ JU33 - ■ ■ H1**	
	493	290	2.96	7 400	1.2	132	**2KJ4004 - ■ JU33 - ■ ■ G1**	
	553	255	2.64	7 300	1.4	132	**2KJ4004 - ■ JU33 - ■ ■ F1**	
	627	225	2.33	7 200	1.6	132	**2KJ4004 - ■ JU33 - ■ ■ E1**	
	712	200	2.05	7 000	1.8	132	**2KJ4004 - ■ JU33 - ■ ■ D1**	
	820	175	1.78	6 800	2.1	132	**2KJ4004 - ■ JU33 - ■ ■ C1**	
	961	149	1.52	6 600	2.4	132	**2KJ4004 - ■ JU33 - ■ ■ B1**	
	1 123	128	1.3	6 300	2.8	132	**2KJ4004 - ■ JU33 - ■ ■ A1**	
	Z.89-LEN160LH4E							
	71	2 000	20.52	12 000	0.84	184	**2KJ4108 - ■ JS32 - ■ ■ N1**	
	84	1 710	17.54	13 700	0.98	184	**2KJ4108 - ■ JS32 - ■ ■ M1**	
	94	1 530	15.66	14 700	1.1	184	**2KJ4108 - ■ JS32 - ■ ■ L1**	
	106	1 350	13.84	15 400	1.2	184	**2KJ4108 - ■ JS32 - ■ ■ K1**	
	121	1 180	12.15	15 000	1.4	184	**2KJ4108 - ■ JS32 - ■ ■ J1**	
	138	1 030	10.58	14 600	1.5	184	**2KJ4108 - ■ JS32 - ■ ■ H1**	
	162	880	9.04	14 200	1.8	184	**2KJ4108 - ■ JS32 - ■ ■ G1**	
	189	755	7.74	13 700	2.0	184	**2KJ4108 - ■ JS32 - ■ ■ F1**	
	213	670	6.89	13 500	1.6	184	**2KJ4108 - ■ JS32 - ■ ■ E1**	
	242	590	6.05	13 000	1.8	184	**2KJ4108 - ■ JS32 - ■ ■ D1**	
	279	510	5.26	12 600	2.1	184	**2KJ4108 - ■ JS32 - ■ ■ C1**	
	326	440	4.5	12 000	2.4	184	**2KJ4108 - ■ JS32 - ■ ■ B1**	
	381	375	3.85	11 600	2.8	184	**2KJ4108 - ■ JS32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
15	**Z.89-LEN160LQ4P**							
	71	2 010	20.52	11 900	0.83	154	**2KJ4108 - ■ JU33 - ■ ■ N1**	
	83	1 720	17.54	13 700	0.98	154	**2KJ4108 - ■ JU33 - ■ ■ M1**	
	93	1 530	15.66	14 700	1.1	154	**2KJ4108 - ■ JU33 - ■ ■ L1**	
	105	1 350	13.84	15 400	1.2	154	**2KJ4108 - ■ JU33 - ■ ■ K1**	
	120	1 190	12.15	15 000	1.4	154	**2KJ4108 - ■ JU33 - ■ ■ J1**	
	138	1 030	10.58	14 600	1.5	154	**2KJ4108 - ■ JU33 - ■ ■ H1**	
	162	885	9.04	14 200	1.8	154	**2KJ4108 - ■ JU33 - ■ ■ G1**	
	189	755	7.74	13 700	2.0	154	**2KJ4108 - ■ JU33 - ■ ■ F1**	
	212	675	6.89	13 500	1.6	154	**2KJ4108 - ■ JU33 - ■ ■ E1**	
	241	590	6.05	13 000	1.8	154	**2KJ4108 - ■ JU33 - ■ ■ D1**	
	278	515	5.26	12 600	2.1	154	**2KJ4108 - ■ JU33 - ■ ■ C1**	
	324	440	4.5	12 100	2.4	154	**2KJ4108 - ■ JU33 - ■ ■ B1**	
	379	375	3.85	11 600	2.8	154	**2KJ4108 - ■ JU33 - ■ ■ A1**	
	E.109-LEN160LH4E							
	204	700	7.19	10 500	0.8	184	**2KJ4005 - ■ JS32 - ■ ■ Q1**	
	217	660	6.76	10 500	0.85	184	**2KJ4005 - ■ JS32 - ■ ■ P1**	
	233	610	6.28	10 500	0.92	184	**2KJ4005 - ■ JS32 - ■ ■ N1**	
	264	540	5.55	10 500	1.0	184	**2KJ4005 - ■ JS32 - ■ ■ M1**	
	296	480	4.95	10 500	1.2	184	**2KJ4005 - ■ JS32 - ■ ■ L1**	
	328	435	4.46	10 500	1.3	184	**2KJ4005 - ■ JS32 - ■ ■ K1**	
	379	375	3.87	10 500	1.5	184	**2KJ4005 - ■ JS32 - ■ ■ J1**	
	421	340	3.48	10 500	1.6	184	**2KJ4005 - ■ JS32 - ■ ■ H1**	
	482	295	3.04	10 500	1.8	184	**2KJ4005 - ■ JS32 - ■ ■ G1**	
	541	265	2.71	10 500	2.1	184	**2KJ4005 - ■ JS32 - ■ ■ F1**	
	613	230	2.39	10 200	2.3	184	**2KJ4005 - ■ JS32 - ■ ■ E1**	
	698	205	2.1	9 900	2.6	184	**2KJ4005 - ■ JS32 - ■ ■ D1**	
	801	179	1.83	9 600	3.0	184	**2KJ4005 - ■ JS32 - ■ ■ C1**	
	877	163	1.67	9 400	3.2	184	**2KJ4005 - ■ JS32 - ■ ■ B1**	
	1 024	140	1.43	9 000	3.3	184	**2KJ4005 - ■ JS32 - ■ ■ A1**	
	E.109-LEN160LQ4P							
	203	705	7.19	10 500	0.8	154	**2KJ4005 - ■ JU33 - ■ ■ Q1**	
	216	660	6.76	10 500	0.85	154	**2KJ4005 - ■ JU33 - ■ ■ P1**	
	232	615	6.28	10 500	0.92	154	**2KJ4005 - ■ JU33 - ■ ■ N1**	
	263	545	5.55	10 500	1.0	154	**2KJ4005 - ■ JU33 - ■ ■ M1**	
	295	485	4.95	10 500	1.2	154	**2KJ4005 - ■ JU33 - ■ ■ L1**	
	327	435	4.46	10 500	1.3	154	**2KJ4005 - ■ JU33 - ■ ■ K1**	
	377	380	3.87	10 500	1.5	154	**2KJ4005 - ■ JU33 - ■ ■ J1**	
	420	340	3.48	10 500	1.6	154	**2KJ4005 - ■ JU33 - ■ ■ H1**	
	480	295	3.04	10 500	1.8	154	**2KJ4005 - ■ JU33 - ■ ■ G1**	
	539	265	2.71	10 500	2.0	154	**2KJ4005 - ■ JU33 - ■ ■ F1**	
	611	230	2.39	10 200	2.3	154	**2KJ4005 - ■ JU33 - ■ ■ E1**	
	695	205	2.1	9 900	2.6	154	**2KJ4005 - ■ JU33 - ■ ■ D1**	
	798	180	1.83	9 600	3.0	154	**2KJ4005 - ■ JU33 - ■ ■ C1**	
	874	164	1.67	9 400	3.2	154	**2KJ4005 - ■ JU33 - ■ ■ B1**	
	1 021	140	1.43	9 000	3.3	154	**2KJ4005 - ■ JU33 - ■ ■ A1**	
	Z.109-LEN160LH4E							
	38	3 720	38.12	20 100	0.83	222	**2KJ4110 - ■ JS32 - ■ ■ U1**	
	43	3 290	33.7	20 200	0.94	222	**2KJ4110 - ■ JS32 - ■ ■ T1**	
	49	2 940	30.08	20 200	1.1	222	**2KJ4110 - ■ JS32 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**Z.109-LEN160LH4E**							
	54	2 640	27.07	20 200	1.1	222	**2KJ4110 - ■ JS32 - ■ ■ R1**	
	62	2 290	23.49	19 900	1.3	222	**2KJ4110 - ■ JS32 - ■ ■ Q1**	
	69	2 060	21.13	19 600	1.4	222	**2KJ4110 - ■ JS32 - ■ ■ P1**	
	79	1 800	18.47	19 300	1.5	222	**2KJ4110 - ■ JS32 - ■ ■ N1**	
	89	1 610	16.48	18 900	1.6	222	**2KJ4110 - ■ JS32 - ■ ■ M1**	
	101	1 420	14.52	18 500	1.8	222	**2KJ4110 - ■ JS32 - ■ ■ L1**	
	115	1 240	12.72	18 100	2.0	222	**2KJ4110 - ■ JS32 - ■ ■ K1**	
	132	1 080	11.09	17 600	2.3	222	**2KJ4110 - ■ JS32 - ■ ■ J1**	
	145	990	10.12	17 300	2.5	222	**2KJ4110 - ■ JS32 - ■ ■ H1**	
	168	850	8.71	16 700	2.8	222	**2KJ4110 - ■ JS32 - ■ ■ G1**	
	174	820	8.41	16 500	2.8	222	**2KJ4110 - ■ JS32 - ■ ■ F1**	
	198	725	7.41	16 000	3.1	222	**2KJ4110 - ■ JS32 - ■ ■ E1**	
	225	635	6.5	15 500	3.6	222	**2KJ4110 - ■ JS32 - ■ ■ D1**	
	259	550	5.66	15 100	4.1	222	**2KJ4110 - ■ JS32 - ■ ■ C1**	
	283	505	5.17	14 700	4.5	222	**2KJ4110 - ■ JS32 - ■ ■ B1**	
	329	435	4.45	14 200	4.9	222	**2KJ4110 - ■ JS32 - ■ ■ A1**	
	Z.109-LEN160LQ4P							
	38	3 740	38.12	20 100	0.83	192	**2KJ4110 - ■ JU33 - ■ ■ U1**	
	43	3 300	33.7	20 200	0.94	192	**2KJ4110 - ■ JU33 - ■ ■ T1**	
	49	2 950	30.08	20 200	1.1	192	**2KJ4110 - ■ JU33 - ■ ■ S1**	
	54	2 650	27.07	20 200	1.1	192	**2KJ4110 - ■ JU33 - ■ ■ R1**	
	62	2 300	23.49	19 900	1.3	192	**2KJ4110 - ■ JU33 - ■ ■ Q1**	
	69	2 070	21.13	19 600	1.4	192	**2KJ4110 - ■ JU33 - ■ ■ P1**	
	79	1 810	18.47	19 300	1.5	192	**2KJ4110 - ■ JU33 - ■ ■ N1**	
	89	1 610	16.48	18 900	1.6	192	**2KJ4110 - ■ JU33 - ■ ■ M1**	
	101	1 420	14.52	18 500	1.8	192	**2KJ4110 - ■ JU33 - ■ ■ L1**	
	115	1 240	12.72	18 100	2.0	192	**2KJ4110 - ■ JU33 - ■ ■ K1**	
	132	1 080	11.09	17 600	2.3	192	**2KJ4110 - ■ JU33 - ■ ■ J1**	
	144	990	10.12	17 300	2.4	192	**2KJ4110 - ■ JU33 - ■ ■ H1**	
	168	855	8.71	16 700	2.8	192	**2KJ4110 - ■ JU33 - ■ ■ G1**	
	174	825	8.41	16 500	2.8	192	**2KJ4110 - ■ JU33 - ■ ■ F1**	
	197	725	7.41	16 000	3.1	192	**2KJ4110 - ■ JU33 - ■ ■ E1**	
	225	635	6.5	15 600	3.6	192	**2KJ4110 - ■ JU33 - ■ ■ D1**	
	258	555	5.66	15 100	4.1	192	**2KJ4110 - ■ JU33 - ■ ■ C1**	
	282	505	5.17	14 700	4.5	192	**2KJ4110 - ■ JU33 - ■ ■ B1**	
	328	435	4.45	14 200	4.9	192	**2KJ4110 - ■ JU33 - ■ ■ A1**	
	E.129-LEN160LH4E							
	175	815	8.38	13 500	0.81	208	**2KJ4006 - ■ JS32 - ■ ■ S1**	
	186	770	7.88	13 500	0.86	208	**2KJ4006 - ■ JS32 - ■ ■ R1**	
	198	720	7.39	13 500	1.1	208	**2KJ4006 - ■ JS32 - ■ ■ Q1**	
	224	640	6.55	13 500	1.2	208	**2KJ4006 - ■ JS32 - ■ ■ P1**	
	252	565	5.82	13 500	1.4	208	**2KJ4006 - ■ JS32 - ■ ■ N1**	
	279	510	5.25	13 500	1.5	208	**2KJ4006 - ■ JS32 - ■ ■ M1**	
	315	455	4.65	13 200	1.7	208	**2KJ4006 - ■ JS32 - ■ ■ L1**	
	356	400	4.12	12 900	1.9	208	**2KJ4006 - ■ JS32 - ■ ■ K1**	
	399	355	3.67	12 600	2.2	208	**2KJ4006 - ■ JS32 - ■ ■ J1**	
	445	320	3.29	12 300	2.4	208	**2KJ4006 - ■ JS32 - ■ ■ H1**	
	503	285	2.91	12 000	2.7	208	**2KJ4006 - ■ JS32 - ■ ■ G1**	
	570	250	2.57	11 700	3.0	208	**2KJ4006 - ■ JS32 - ■ ■ F1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
15	**E.129-LEN160LH4E**							
	648	220	2.26	11 300	3.4	208	**2KJ4006 - ■ JS32 - ■ ■ E1**	
	715	200	2.05	11 000	3.8	208	**2KJ4006 - ■ JS32 - ■ ■ D1**	
	823	174	1.78	10 700	4.4	208	**2KJ4006 - ■ JS32 - ■ ■ C1**	
	1 003	143	1.46	10 100	5.3	208	**2KJ4006 - ■ JS32 - ■ ■ B1**	
	1 181	121	1.24	9 700	6.1	208	**2KJ4006 - ■ JS32 - ■ ■ A1**	
	E.129-LEN160LQ4P							
	174	820	8.38	13 500	0.81	178	**2KJ4006 - ■ JU33 - ■ ■ S1**	
	185	770	7.88	13 500	0.86	178	**2KJ4006 - ■ JU33 - ■ ■ R1**	
	198	725	7.39	13 500	1.1	178	**2KJ4006 - ■ JU33 - ■ ■ Q1**	
	223	640	6.55	13 500	1.2	178	**2KJ4006 - ■ JU33 - ■ ■ P1**	
	251	570	5.82	13 500	1.4	178	**2KJ4006 - ■ JU33 - ■ ■ N1**	
	278	515	5.25	13 500	1.5	178	**2KJ4006 - ■ JU33 - ■ ■ M1**	
	314	455	4.65	13 200	1.7	178	**2KJ4006 - ■ JU33 - ■ ■ L1**	
	354	400	4.12	12 900	1.9	178	**2KJ4006 - ■ JU33 - ■ ■ K1**	
	398	360	3.67	12 600	2.2	178	**2KJ4006 - ■ JU33 - ■ ■ J1**	
	444	320	3.29	12 300	2.4	178	**2KJ4006 - ■ JU33 - ■ ■ H1**	
	502	285	2.91	12 000	2.7	178	**2KJ4006 - ■ JU33 - ■ ■ G1**	
	568	250	2.57	11 700	3.0	178	**2KJ4006 - ■ JU33 - ■ ■ F1**	
	646	220	2.26	11 300	3.4	178	**2KJ4006 - ■ JU33 - ■ ■ E1**	
	712	200	2.05	11 100	3.8	178	**2KJ4006 - ■ JU33 - ■ ■ D1**	
	820	175	1.78	10 700	4.4	178	**2KJ4006 - ■ JU33 - ■ ■ C1**	
	1 000	143	1.46	10 200	5.3	178	**2KJ4006 - ■ JU33 - ■ ■ B1**	
	1 177	122	1.24	9 700	6.1	178	**2KJ4006 - ■ JU33 - ■ ■ A1**	
	Z.129-LEN160LH4E							
	23	6 100	62.48	26 400	0.82	284	**2KJ4111 - ■ JS32 - ■ ■ X1**	
	27	5 220	53.47	26 900	0.96	284	**2KJ4111 - ■ JS32 - ■ ■ W1**	
	29	4 920	50.33	27 100	1.0	284	**2KJ4111 - ■ JS32 - ■ ■ V1**	
	31	4 610	47.18	27 200	1.1	284	**2KJ4111 - ■ JS32 - ■ ■ U1**	
	35	4 080	41.82	27 600	1.2	284	**2KJ4111 - ■ JS32 - ■ ■ T1**	
	39	3 630	37.15	27 800	1.4	284	**2KJ4111 - ■ JS32 - ■ ■ S1**	
	44	3 270	33.52	27 800	1.5	284	**2KJ4111 - ■ JS32 - ■ ■ R1**	
	49	2 900	29.7	27 300	1.7	284	**2KJ4111 - ■ JS32 - ■ ■ Q1**	
	56	2 570	26.3	26 700	1.9	284	**2KJ4111 - ■ JS32 - ■ ■ P1**	
	63	2 280	23.41	26 100	2.2	284	**2KJ4111 - ■ JS32 - ■ ■ N1**	
	70	2 050	20.98	25 500	2.4	284	**2KJ4111 - ■ JS32 - ■ ■ M1**	
	79	1 810	18.6	24 900	2.7	284	**2KJ4111 - ■ JS32 - ■ ■ L1**	
	89	1 600	16.42	24 200	3.1	284	**2KJ4111 - ■ JS32 - ■ ■ K1**	
	102	1 410	14.43	23 500	3.5	284	**2KJ4111 - ■ JS32 - ■ ■ J1**	
	Z.129-LEN160LQ4P							
	23	6 130	62.48	26 400	0.82	254	**2KJ4111 - ■ JU33 - ■ ■ X1**	
	27	5 240	53.47	26 900	0.95	254	**2KJ4111 - ■ JU33 - ■ ■ W1**	
	29	4 930	50.33	27 100	1.0	254	**2KJ4111 - ■ JU33 - ■ ■ V1**	
	31	4 620	47.18	27 200	1.1	254	**2KJ4111 - ■ JU33 - ■ ■ U1**	
	35	4 100	41.82	27 500	1.2	254	**2KJ4111 - ■ JU33 - ■ ■ T1**	
	39	3 640	37.15	27 800	1.4	254	**2KJ4111 - ■ JU33 - ■ ■ S1**	
	44	3 280	33.52	27 900	1.5	254	**2KJ4111 - ■ JU33 - ■ ■ R1**	
	49	2 910	29.7	27 300	1.7	254	**2KJ4111 - ■ JU33 - ■ ■ Q1**	
	56	2 580	26.3	26 700	1.9	254	**2KJ4111 - ■ JU33 - ■ ■ P1**	
	62	2 290	23.41	26 100	2.2	254	**2KJ4111 - ■ JU33 - ■ ■ N1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
15	**Z.129-LEN160LQ4P**							
	70	2 050	20.98	25 600	2.4	254	**2KJ4111 - ■ JU33 - ■ ■ M1**	
	78	1 820	18.6	24 900	2.7	254	**2KJ4111 - ■ JU33 - ■ ■ L1**	
	89	1 610	16.42	24 300	3.1	254	**2KJ4111 - ■ JU33 - ■ ■ K1**	
	101	1 410	14.43	23 600	3.5	254	**2KJ4111 - ■ JU33 - ■ ■ J1**	
	D.149-LEN160LH4E							
	15	9 550	97.75	50 400	0.84	372	**2KJ4212 - ■ JS32 - ■ ■ K1**	
	17	8 430	86.29	51 000	0.95	372	**2KJ4212 - ■ JS32 - ■ ■ J1**	
	19	7 410	75.87	51 400	1.1	372	**2KJ4212 - ■ JS32 - ■ ■ H1**	
	21	6 710	68.71	51 800	1.2	372	**2KJ4212 - ■ JS32 - ■ ■ G1**	
	D.149-LEN160LQ4P							
	15	9 590	97.75	50 400	0.83	342	**2KJ4212 - ■ JU33 - ■ ■ K1**	
	17	8 460	86.29	50 900	0.94	342	**2KJ4212 - ■ JU33 - ■ ■ J1**	
	19	7 440	75.87	51 400	1.1	342	**2KJ4212 - ■ JU33 - ■ ■ H1**	
	21	6 740	68.71	51 800	1.2	342	**2KJ4212 - ■ JU33 - ■ ■ G1**	
	E.149-LEN160LH4E							
	150	950	9.76	16 000	1.3	245	**2KJ4007 - ■ JS32 - ■ ■ S1**	
	161	890	9.11	16 000	1.4	245	**2KJ4007 - ■ JS32 - ■ ■ R1**	
	181	790	8.1	16 000	1.7	245	**2KJ4007 - ■ JS32 - ■ ■ Q1**	
	202	710	7.27	16 000	1.9	245	**2KJ4007 - ■ JS32 - ■ ■ P1**	
	223	640	6.58	16 000	2.1	245	**2KJ4007 - ■ JS32 - ■ ■ N1**	
	253	565	5.78	16 000	2.6	245	**2KJ4007 - ■ JS32 - ■ ■ M1**	
	280	510	5.24	16 000	2.9	245	**2KJ4007 - ■ JS32 - ■ ■ L1**	
	314	455	4.67	15 700	3.2	245	**2KJ4007 - ■ JS32 - ■ ■ K1**	
	350	410	4.19	15 300	3.6	245	**2KJ4007 - ■ JS32 - ■ ■ J1**	
	392	365	3.74	14 900	4.0	245	**2KJ4007 - ■ JS32 - ■ ■ H1**	
	440	325	3.33	14 500	4.5	245	**2KJ4007 - ■ JS32 - ■ ■ G1**	
	495	285	2.96	14 100	5.0	245	**2KJ4007 - ■ JS32 - ■ ■ F1**	
	541	265	2.71	13 800	5.5	245	**2KJ4007 - ■ JS32 - ■ ■ E1**	
	E.149-LEN160LQ4P							
	150	955	9.76	16 000	1.3	215	**2KJ4007 - ■ JU33 - ■ ■ S1**	
	160	890	9.11	16 000	1.4	215	**2KJ4007 - ■ JU33 - ■ ■ R1**	
	180	795	8.1	16 000	1.7	215	**2KJ4007 - ■ JU33 - ■ ■ Q1**	
	201	710	7.27	16 000	1.9	215	**2KJ4007 - ■ JU33 - ■ ■ P1**	
	222	645	6.58	16 000	2.1	215	**2KJ4007 - ■ JU33 - ■ ■ N1**	
	253	565	5.78	16 000	2.6	215	**2KJ4007 - ■ JU33 - ■ ■ M1**	
	279	510	5.24	16 000	2.9	215	**2KJ4007 - ■ JU33 - ■ ■ L1**	
	313	455	4.67	15 700	3.2	215	**2KJ4007 - ■ JU33 - ■ ■ K1**	
	348	410	4.19	15 300	3.6	215	**2KJ4007 - ■ JU33 - ■ ■ J1**	
	390	365	3.74	14 900	4.0	215	**2KJ4007 - ■ JU33 - ■ ■ H1**	
	438	325	3.33	14 500	4.5	215	**2KJ4007 - ■ JU33 - ■ ■ G1**	
	493	290	2.96	14 100	5.0	215	**2KJ4007 - ■ JU33 - ■ ■ F1**	
	539	265	2.71	13 800	5.5	215	**2KJ4007 - ■ JU33 - ■ ■ E1**	
	Z.149-LEN160LH4E							
	26	5 530	56.64	52 300	1.4	366	**2KJ4112 - ■ JS32 - ■ ■ W1**	
	28	5 160	52.84	52 500	1.5	366	**2KJ4112 - ■ JS32 - ■ ■ V1**	
	31	4 590	46.98	51 600	1.6	366	**2KJ4112 - ■ JS32 - ■ ■ U1**	
	35	4 120	42.18	50 400	1.9	366	**2KJ4112 - ■ JS32 - ■ ■ T1**	
	38	3 730	38.18	49 300	2.0	366	**2KJ4112 - ■ JS32 - ■ ■ S1**	
	44	3 280	33.54	47 800	2.4	366	**2KJ4112 - ■ JS32 - ■ ■ R1**	
	48	2 970	30.39	46 700	2.7	366	**2KJ4112 - ■ JS32 - ■ ■ Q1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
15	**Z.149-LEN160LQ4P**							
	26	5 550	56.64	52 300	1.4	336	**2KJ4112 - ■ JU33 - ■ ■ W1**	
	28	5 180	52.84	52 500	1.5	336	**2KJ4112 - ■ JU33 - ■ ■ V1**	
	31	4 610	46.98	51 600	1.6	336	**2KJ4112 - ■ JU33 - ■ ■ U1**	
	35	4 130	42.18	50 400	1.9	336	**2KJ4112 - ■ JU33 - ■ ■ T1**	
	38	3 740	38.18	49 300	2.0	336	**2KJ4112 - ■ JU33 - ■ ■ S1**	
	44	3 290	33.54	47 800	2.4	336	**2KJ4112 - ■ JU33 - ■ ■ R1**	
	48	2 980	30.39	46 700	2.7	336	**2KJ4112 - ■ JU33 - ■ ■ Q1**	
	D.169-LEN160LH4E							
	8.3	17 100	175.57	69 000	0.82	551	**2KJ4213 - ■ JS32 - ■ ■ P1**	
	9.4	15 200	156.36	69 700	0.92	551	**2KJ4213 - ■ JS32 - ■ ■ N1**	
	10	13 700	140.41	70 200	1.0	551	**2KJ4213 - ■ JS32 - ■ ■ M1**	
	12	12 200	125.28	70 800	1.1	551	**2KJ4213 - ■ JS32 - ■ ■ L1**	
	13	10 900	111.69	71 300	1.3	551	**2KJ4213 - ■ JS32 - ■ ■ K1**	
	15	9 680	99.06	71 700	1.4	551	**2KJ4213 - ■ JS32 - ■ ■ J1**	
	16	8 890	90.94	72 000	1.6	551	**2KJ4213 - ■ JS32 - ■ ■ H1**	
	18	7 830	80.12	72 400	1.8	551	**2KJ4213 - ■ JS32 - ■ ■ G1**	
	22	6 420	65.72	72 900	2.2	551	**2KJ4213 - ■ JS32 - ■ ■ F1**	
	D.169-LEN160LQ4P							
	8.3	17 200	175.57	68 900	0.81	521	**2KJ4213 - ■ JU33 - ■ ■ P1**	
	9.3	15 300	156.36	69 600	0.91	521	**2KJ4213 - ■ JU33 - ■ ■ N1**	
	10	13 700	140.41	70 200	1.0	521	**2KJ4213 - ■ JU33 - ■ ■ M1**	
	12	12 200	125.28	70 800	1.1	521	**2KJ4213 - ■ JU33 - ■ ■ L1**	
	13	10 900	111.69	71 300	1.3	521	**2KJ4213 - ■ JU33 - ■ ■ K1**	
	15	9 710	99.06	71 700	1.4	521	**2KJ4213 - ■ JU33 - ■ ■ J1**	
	16	8 920	90.94	72 000	1.6	521	**2KJ4213 - ■ JU33 - ■ ■ H1**	
	18	7 860	80.12	72 400	1.8	521	**2KJ4213 - ■ JU33 - ■ ■ G1**	
	22	6 440	65.72	72 900	2.2	521	**2KJ4213 - ■ JU33 - ■ ■ F1**	
	D.189-LEN160LH4E							
	6.6	21 800	223.66	107 000	0.87	764	**2KJ4214 - ■ JS32 - ■ ■ Q1**	
	7.2	19 900	204.44	107 000	0.95	764	**2KJ4214 - ■ JS32 - ■ ■ P1**	
	8	17 900	183.92	107 000	1.1	764	**2KJ4214 - ■ JS32 - ■ ■ N1**	
	8.9	16 000	164.36	107 000	1.2	764	**2KJ4214 - ■ JS32 - ■ ■ M1**	
	9.9	14 500	148.63	107 000	1.3	764	**2KJ4214 - ■ JS32 - ■ ■ L1**	
	11	12 800	131.17	107 000	1.5	764	**2KJ4214 - ■ JS32 - ■ ■ K1**	
	13	11 400	116.88	107 000	1.7	764	**2KJ4214 - ■ JS32 - ■ ■ J1**	
	14	10 300	105.89	107 000	1.8	764	**2KJ4214 - ■ JS32 - ■ ■ H1**	
	15	9 310	95.24	107 000	2.0	764	**2KJ4214 - ■ JS32 - ■ ■ G1**	
	D.189-LEN160LQ4P							
	6.5	21 900	223.66	107 000	0.87	734	**2KJ4214 - ■ JU33 - ■ ■ Q1**	
	7.1	20 000	204.44	107 000	0.95	734	**2KJ4214 - ■ JU33 - ■ ■ P1**	
	7.9	18 000	183.92	107 000	1.1	734	**2KJ4214 - ■ JU33 - ■ ■ N1**	
	8.9	16 100	164.36	107 000	1.2	734	**2KJ4214 - ■ JU33 - ■ ■ M1**	
	9.8	14 500	148.63	107 000	1.3	734	**2KJ4214 - ■ JU33 - ■ ■ L1**	
	11	12 800	131.17	107 000	1.5	734	**2KJ4214 - ■ JU33 - ■ ■ K1**	
	12	11 400	116.88	107 000	1.7	734	**2KJ4214 - ■ JU33 - ■ ■ J1**	
	14	10 300	105.89	107 000	1.8	734	**2KJ4214 - ■ JU33 - ■ ■ H1**	
	15	9 340	95.24	107 000	2.0	734	**2KJ4214 - ■ JU33 - ■ ■ G1**	
18.5	**E.89-LEN180MM4E**							
	555	315	2.64	6 300	1.1	208	**2KJ4004 - ■ KL32 - ■ ■ F1**	

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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
18.5	**E.89-LEN180MM4E**							
	715	245	2.05	6 400	1.5	208	**2KJ4004 - ■ KL32 - ■ ■ D1**	
	823	215	1.78	6 400	1.7	208	**2KJ4004 - ■ KL32 - ■ ■ C1**	
	964	183	1.52	6 300	2.0	208	**2KJ4004 - ■ KL32 - ■ ■ B1**	
	1 127	157	1.3	6 100	2.3	208	**2KJ4004 - ■ KL32 - ■ ■ A1**	
	E.89-LEN180MQ4P							
	555	315	2.64	6 300	1.1	213	**2KJ4004 - ■ KL33 - ■ ■ F1**	
	715	245	2.05	6 400	1.5	213	**2KJ4004 - ■ KL33 - ■ ■ D1**	
	823	215	1.78	6 400	1.7	213	**2KJ4004 - ■ KL33 - ■ ■ C1**	
	964	183	1.52	6 300	2.0	213	**2KJ4004 - ■ KL33 - ■ ■ B1**	
	1 127	157	1.3	6 100	2.3	213	**2KJ4004 - ■ KL33 - ■ ■ A1**	
	Z.89-LEN180MM4E							
	94	1 880	15.66	10 300	0.89	230	**2KJ4108 - ■ KL32 - ■ ■ L1**	
	106	1 660	13.84	11 700	1.0	230	**2KJ4108 - ■ KL32 - ■ ■ K1**	
	121	1 460	12.15	12 800	1.1	230	**2KJ4108 - ■ KL32 - ■ ■ J1**	
	138	1 270	10.58	13 800	1.2	230	**2KJ4108 - ■ KL32 - ■ ■ H1**	
	162	1 090	9.04	13 500	1.4	230	**2KJ4108 - ■ KL32 - ■ ■ G1**	
	189	930	7.74	13 200	1.6	230	**2KJ4108 - ■ KL32 - ■ ■ F1**	
	213	830	6.89	12 600	1.3	230	**2KJ4108 - ■ KL32 - ■ ■ E1**	
	242	730	6.05	12 700	1.5	230	**2KJ4108 - ■ KL32 - ■ ■ D1**	
	279	630	5.26	12 300	1.7	230	**2KJ4108 - ■ KL32 - ■ ■ C1**	
	326	540	4.5	11 800	2.0	230	**2KJ4108 - ■ KL32 - ■ ■ B1**	
	381	460	3.85	11 300	2.3	230	**2KJ4108 - ■ KL32 - ■ ■ A1**	
	Z.89-LEN180MQ4P							
	94	1 880	15.66	10 300	0.89	235	**2KJ4108 - ■ KL33 - ■ ■ L1**	
	106	1 660	13.84	11 700	1.0	235	**2KJ4108 - ■ KL33 - ■ ■ K1**	
	121	1 460	12.15	12 800	1.1	235	**2KJ4108 - ■ KL33 - ■ ■ J1**	
	138	1 270	10.58	13 700	1.2	235	**2KJ4108 - ■ KL33 - ■ ■ H1**	
	162	1 090	9.04	13 500	1.4	235	**2KJ4108 - ■ KL33 - ■ ■ G1**	
	189	930	7.74	13 100	1.6	235	**2KJ4108 - ■ KL33 - ■ ■ F1**	
	213	830	6.89	12 600	1.3	235	**2KJ4108 - ■ KL33 - ■ ■ E1**	
	242	730	6.05	12 600	1.5	235	**2KJ4108 - ■ KL33 - ■ ■ D1**	
	279	630	5.26	12 200	1.7	235	**2KJ4108 - ■ KL33 - ■ ■ C1**	
	326	540	4.5	11 800	2.0	235	**2KJ4108 - ■ KL33 - ■ ■ B1**	
	381	460	3.85	11 300	2.3	235	**2KJ4108 - ■ KL33 - ■ ■ A1**	
	E.109-LEN180MM4E							
	421	420	3.48	10 500	1.3	232	**2KJ4005 - ■ KL32 - ■ ■ H1**	
	482	365	3.04	10 400	1.5	232	**2KJ4005 - ■ KL32 - ■ ■ G1**	
	541	325	2.71	10 200	1.7	232	**2KJ4005 - ■ KL32 - ■ ■ F1**	
	613	285	2.39	9 900	1.9	232	**2KJ4005 - ■ KL32 - ■ ■ E1**	
	698	250	2.1	9 600	2.1	232	**2KJ4005 - ■ KL32 - ■ ■ D1**	
	801	220	1.83	9 300	2.4	232	**2KJ4005 - ■ KL32 - ■ ■ C1**	
	877	200	1.67	9 100	2.6	232	**2KJ4005 - ■ KL32 - ■ ■ B1**	
	1 024	172	1.43	8 800	2.7	232	**2KJ4005 - ■ KL32 - ■ ■ A1**	
	E.109-LEN180MQ4P							
	421	420	3.48	10 500	1.3	237	**2KJ4005 - ■ KL33 - ■ ■ H1**	
	482	365	3.04	10 400	1.5	237	**2KJ4005 - ■ KL33 - ■ ■ G1**	
	541	325	2.71	10 100	1.7	237	**2KJ4005 - ■ KL33 - ■ ■ F1**	
	613	285	2.39	9 900	1.9	237	**2KJ4005 - ■ KL33 - ■ ■ E1**	
	698	250	2.1	9 600	2.1	237	**2KJ4005 - ■ KL33 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**E.109-LEN180MQ4P**							
	801	220	1.83	9 300	2.4	237	**2KJ4005 - ■ KL33 - ■ ■ C1**	
	877	200	1.67	9 100	2.6	237	**2KJ4005 - ■ KL33 - ■ ■ B1**	
	1 024	172	1.43	8 800	2.7	237	**2KJ4005 - ■ KL33 - ■ ■ A1**	
	Z.109-LEN180MM4E							
	69	2 540	21.13	18 500	1.1	271	**2KJ4110 - ■ KL32 - ■ ■ P1**	
	79	2 220	18.47	18 300	1.2	271	**2KJ4110 - ■ KL32 - ■ ■ N1**	
	89	1 980	16.48	18 100	1.3	271	**2KJ4110 - ■ KL32 - ■ ■ M1**	
	101	1 750	14.52	17 700	1.5	271	**2KJ4110 - ■ KL32 - ■ ■ L1**	
	115	1 530	12.72	17 400	1.6	271	**2KJ4110 - ■ KL32 - ■ ■ K1**	
	132	1 330	11.09	17 000	1.8	271	**2KJ4110 - ■ KL32 - ■ ■ J1**	
	145	1 220	10.12	16 700	2.0	271	**2KJ4110 - ■ KL32 - ■ ■ H1**	
	168	1 050	8.71	16 300	2.3	271	**2KJ4110 - ■ KL32 - ■ ■ G1**	
	174	1 010	8.41	16 000	2.3	271	**2KJ4110 - ■ KL32 - ■ ■ F1**	
	198	890	7.41	15 600	2.6	271	**2KJ4110 - ■ KL32 - ■ ■ E1**	
	225	780	6.5	15 200	2.9	271	**2KJ4110 - ■ KL32 - ■ ■ D1**	
	259	680	5.66	14 700	3.4	271	**2KJ4110 - ■ KL32 - ■ ■ C1**	
	283	620	5.17	14 400	3.7	271	**2KJ4110 - ■ KL32 - ■ ■ B1**	
	329	535	4.45	13 900	4.0	271	**2KJ4110 - ■ KL32 - ■ ■ A1**	
	Z.109-LEN180MQ4P							
	69	2 540	21.13	18 500	1.1	276	**2KJ4110 - ■ KL33 - ■ ■ P1**	
	79	2 220	18.47	18 300	1.2	276	**2KJ4110 - ■ KL33 - ■ ■ N1**	
	89	1 980	16.48	18 000	1.3	276	**2KJ4110 - ■ KL33 - ■ ■ M1**	
	101	1 750	14.52	17 700	1.5	276	**2KJ4110 - ■ KL33 - ■ ■ L1**	
	115	1 530	12.72	17 400	1.6	276	**2KJ4110 - ■ KL33 - ■ ■ K1**	
	132	1 330	11.09	17 000	1.8	276	**2KJ4110 - ■ KL33 - ■ ■ J1**	
	145	1 220	10.12	16 700	2.0	276	**2KJ4110 - ■ KL33 - ■ ■ H1**	
	168	1 050	8.71	16 300	2.3	276	**2KJ4110 - ■ KL33 - ■ ■ G1**	
	174	1 010	8.41	16 000	2.3	276	**2KJ4110 - ■ KL33 - ■ ■ F1**	
	198	890	7.41	15 600	2.6	276	**2KJ4110 - ■ KL33 - ■ ■ E1**	
	225	780	6.5	15 200	2.9	276	**2KJ4110 - ■ KL33 - ■ ■ D1**	
	259	680	5.66	14 700	3.4	276	**2KJ4110 - ■ KL33 - ■ ■ C1**	
	283	620	5.17	14 400	3.7	276	**2KJ4110 - ■ KL33 - ■ ■ B1**	
	329	535	4.45	13 900	4.0	276	**2KJ4110 - ■ KL33 - ■ ■ A1**	
	E.129-LEN180MM4E							
	356	495	4.12	12 400	1.6	255	**2KJ4006 - ■ KL32 - ■ ■ K1**	
	399	440	3.67	12 100	1.8	255	**2KJ4006 - ■ KL32 - ■ ■ J1**	
	445	395	3.29	11 900	2.0	255	**2KJ4006 - ■ KL32 - ■ ■ H1**	
	503	350	2.91	11 600	2.2	255	**2KJ4006 - ■ KL32 - ■ ■ G1**	
	570	310	2.57	11 300	2.5	255	**2KJ4006 - ■ KL32 - ■ ■ F1**	
	648	270	2.26	11 000	2.8	255	**2KJ4006 - ■ KL32 - ■ ■ E1**	
	715	245	2.05	10 800	3.1	255	**2KJ4006 - ■ KL32 - ■ ■ D1**	
	823	215	1.78	10 400	3.5	255	**2KJ4006 - ■ KL32 - ■ ■ C1**	
	1 003	176	1.46	9 900	4.3	255	**2KJ4006 - ■ KL32 - ■ ■ B1**	
	1 181	150	1.24	9 500	5.0	255	**2KJ4006 - ■ KL32 - ■ ■ A1**	
	E.129-LEN180MQ4P							
	356	495	4.12	12 400	1.6	260	**2KJ4006 - ■ KL33 - ■ ■ K1**	
	399	440	3.67	12 100	1.8	260	**2KJ4006 - ■ KL33 - ■ ■ J1**	
	445	395	3.29	11 900	2.0	260	**2KJ4006 - ■ KL33 - ■ ■ H1**	
	503	350	2.91	11 600	2.2	260	**2KJ4006 - ■ KL33 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**E.129-LEN180MQ4P**							
	570	310	2.57	11 300	2.5	260	**2KJ4006 - ■ KL33 - ■ ■ F1**	
	648	270	2.26	11 000	2.8	260	**2KJ4006 - ■ KL33 - ■ ■ E1**	
	715	245	2.05	10 800	3.1	260	**2KJ4006 - ■ KL33 - ■ ■ D1**	
	823	215	1.78	10 400	3.5	260	**2KJ4006 - ■ KL33 - ■ ■ C1**	
	1 003	176	1.46	9 900	4.3	260	**2KJ4006 - ■ KL33 - ■ ■ B1**	
	1 181	150	1.24	9 500	5.0	260	**2KJ4006 - ■ KL33 - ■ ■ A1**	
	Z.129-LEN180MM4E							
	56	3 170	26.3	25 700	1.6	331	**2KJ4111 - ■ KL32 - ■ ■ P1**	
	63	2 820	23.41	25 200	1.8	331	**2KJ4111 - ■ KL32 - ■ ■ N1**	
	70	2 530	20.98	24 700	2.0	331	**2KJ4111 - ■ KL32 - ■ ■ M1**	
	79	2 240	18.6	24 200	2.2	331	**2KJ4111 - ■ KL32 - ■ ■ L1**	
	89	1 980	16.42	23 600	2.5	331	**2KJ4111 - ■ KL32 - ■ ■ K1**	
	102	1 740	14.43	23 000	2.8	331	**2KJ4111 - ■ KL32 - ■ ■ J1**	
	112	1 570	13.07	22 500	3.1	331	**2KJ4111 - ■ KL32 - ■ ■ H1**	
	129	1 370	11.38	21 800	3.5	331	**2KJ4111 - ■ KL32 - ■ ■ G1**	
	157	1 120	9.33	20 900	4.1	331	**2KJ4111 - ■ KL32 - ■ ■ F1**	
	172	1 020	8.53	20 200	3.5	331	**2KJ4111 - ■ KL32 - ■ ■ E1**	
	195	900	7.5	19 600	4.0	331	**2KJ4111 - ■ KL32 - ■ ■ D1**	
	216	815	6.79	19 100	4.4	331	**2KJ4111 - ■ KL32 - ■ ■ C1**	
	Z.129-LEN180MQ4P							
	56	3 170	26.3	25 600	1.6	336	**2KJ4111 - ■ KL33 - ■ ■ P1**	
	63	2 820	23.41	25 200	1.8	336	**2KJ4111 - ■ KL33 - ■ ■ N1**	
	70	2 530	20.98	24 700	2.0	336	**2KJ4111 - ■ KL33 - ■ ■ M1**	
	79	2 240	18.6	24 200	2.2	336	**2KJ4111 - ■ KL33 - ■ ■ L1**	
	89	1 980	16.42	23 600	2.5	336	**2KJ4111 - ■ KL33 - ■ ■ K1**	
	102	1 740	14.43	23 000	2.8	336	**2KJ4111 - ■ KL33 - ■ ■ J1**	
	112	1 570	13.07	22 500	3.1	336	**2KJ4111 - ■ KL33 - ■ ■ H1**	
	129	1 370	11.38	21 800	3.5	336	**2KJ4111 - ■ KL33 - ■ ■ G1**	
	157	1 120	9.33	20 800	4.1	336	**2KJ4111 - ■ KL33 - ■ ■ F1**	
	172	1 020	8.53	20 100	3.5	336	**2KJ4111 - ■ KL33 - ■ ■ E1**	
	195	900	7.5	19 500	4.0	336	**2KJ4111 - ■ KL33 - ■ ■ D1**	
	216	815	6.79	19 100	4.4	336	**2KJ4111 - ■ KL33 - ■ ■ C1**	
	D.149-LEN180MM4E							
	19	9 150	75.87	50 600	0.87	421	**2KJ4212 - ■ KL32 - ■ ■ H1**	
	21	8 280	68.71	51 000	0.97	421	**2KJ4212 - ■ KL32 - ■ ■ G1**	
	24	7 210	59.82	51 500	1.1	421	**2KJ4212 - ■ KL32 - ■ ■ F1**	
	30	5 910	49.05	50 500	1.4	421	**2KJ4212 - ■ KL32 - ■ ■ E1**	
	34	5 240	43.51	49 400	1.5	421	**2KJ4212 - ■ KL32 - ■ ■ D1**	
	37	4 750	39.41	48 400	1.7	421	**2KJ4212 - ■ KL32 - ■ ■ C1**	
	43	4 130	34.31	47 000	1.9	421	**2KJ4212 - ■ KL32 - ■ ■ B1**	
	D.149-LEN180MQ4P							
	19	9 150	75.87	50 600	0.87	426	**2KJ4212 - ■ KL33 - ■ ■ H1**	
	21	8 280	68.71	51 000	0.97	426	**2KJ4212 - ■ KL33 - ■ ■ G1**	
	24	7 210	59.82	51 500	1.1	426	**2KJ4212 - ■ KL33 - ■ ■ F1**	
	30	5 910	49.05	50 500	1.4	426	**2KJ4212 - ■ KL33 - ■ ■ E1**	
	34	5 240	43.51	49 300	1.5	426	**2KJ4212 - ■ KL33 - ■ ■ D1**	
	37	4 750	39.41	48 300	1.7	426	**2KJ4212 - ■ KL33 - ■ ■ C1**	
	43	4 130	34.31	46 900	1.9	426	**2KJ4212 - ■ KL33 - ■ ■ B1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**E.149-LEN180MM4E**							
	280	630	5.24	15 600	2.4	294	**2KJ4007 - ■ KL32 - ■ ■ L1**	
	314	560	4.67	15 200	2.6	294	**2KJ4007 - ■ KL32 - ■ ■ K1**	
	350	505	4.19	14 900	2.9	294	**2KJ4007 - ■ KL32 - ■ ■ J1**	
	392	450	3.74	14 500	3.3	294	**2KJ4007 - ■ KL32 - ■ ■ H1**	
	440	400	3.33	14 200	3.7	294	**2KJ4007 - ■ KL32 - ■ ■ G1**	
	495	355	2.96	13 800	4.1	294	**2KJ4007 - ■ KL32 - ■ ■ F1**	
	541	325	2.71	13 500	4.5	294	**2KJ4007 - ■ KL32 - ■ ■ E1**	
	613	285	2.39	13 100	5.1	294	**2KJ4007 - ■ KL32 - ■ ■ D1**	
	747	235	1.96	12 500	6.2	294	**2KJ4007 - ■ KL32 - ■ ■ C1**	
	E.149-LEN180MQ4P							
	280	630	5.24	15 500	2.4	299	**2KJ4007 - ■ KL33 - ■ ■ L1**	
	314	560	4.67	15 200	2.6	299	**2KJ4007 - ■ KL33 - ■ ■ K1**	
	350	505	4.19	14 900	2.9	299	**2KJ4007 - ■ KL33 - ■ ■ J1**	
	392	450	3.74	14 500	3.3	299	**2KJ4007 - ■ KL33 - ■ ■ H1**	
	440	400	3.33	14 200	3.7	299	**2KJ4007 - ■ KL33 - ■ ■ G1**	
	495	355	2.96	13 800	4.1	299	**2KJ4007 - ■ KL33 - ■ ■ F1**	
	541	325	2.71	13 500	4.5	299	**2KJ4007 - ■ KL33 - ■ ■ E1**	
	613	285	2.39	13 100	5.1	299	**2KJ4007 - ■ KL33 - ■ ■ D1**	
	747	235	1.96	12 500	6.2	299	**2KJ4007 - ■ KL33 - ■ ■ C1**	
	Z.149-LEN180MM4E							
	48	3 660	30.39	45 800	2.2	415	**2KJ4112 - ■ KL32 - ■ ■ Q1**	
	54	3 260	27.07	44 600	2.5	415	**2KJ4112 - ■ KL32 - ■ ■ P1**	
	60	2 930	24.3	43 500	2.7	415	**2KJ4112 - ■ KL32 - ■ ■ N1**	
	68	2 610	21.69	42 300	3.1	415	**2KJ4112 - ■ KL32 - ■ ■ M1**	
	Z.149-LEN180MQ4P							
	48	3 660	30.39	45 700	2.2	420	**2KJ4112 - ■ KL33 - ■ ■ Q1**	
	54	3 260	27.07	44 500	2.5	420	**2KJ4112 - ■ KL33 - ■ ■ P1**	
	60	2 930	24.3	43 400	2.7	420	**2KJ4112 - ■ KL33 - ■ ■ N1**	
	68	2 610	21.69	42 300	3.1	420	**2KJ4112 - ■ KL33 - ■ ■ M1**	
	D.169-LEN180MM4E							
	10	16 900	140.41	69 000	0.83	597	**2KJ4213 - ■ KL32 - ■ ■ M1**	
	12	15 100	125.28	69 700	0.93	597	**2KJ4213 - ■ KL32 - ■ ■ L1**	
	13	13 400	111.69	70 400	1.0	597	**2KJ4213 - ■ KL32 - ■ ■ K1**	
	15	11 900	99.06	70 900	1.2	597	**2KJ4213 - ■ KL32 - ■ ■ J1**	
	16	10 900	90.94	71 300	1.3	597	**2KJ4213 - ■ KL32 - ■ ■ H1**	
	18	9 660	80.12	71 700	1.4	597	**2KJ4213 - ■ KL32 - ■ ■ G1**	
	22	7 920	65.72	72 400	1.8	597	**2KJ4213 - ■ KL32 - ■ ■ F1**	
	25	6 950	57.63	72 800	2.0	597	**2KJ4213 - ■ KL32 - ■ ■ E1**	
	33	5 430	45.06	73 300	2.6	597	**2KJ4213 - ■ KL32 - ■ ■ D1**	
	D.169-LEN180MQ4P							
	10	16 900	140.41	69 000	0.83	602	**2KJ4213 - ■ KL33 - ■ ■ M1**	
	12	15 100	125.28	69 700	0.93	602	**2KJ4213 - ■ KL33 - ■ ■ L1**	
	13	13 400	111.69	70 400	1.0	602	**2KJ4213 - ■ KL33 - ■ ■ K1**	
	15	11 900	99.06	70 900	1.2	602	**2KJ4213 - ■ KL33 - ■ ■ J1**	
	16	10 900	90.94	71 300	1.3	602	**2KJ4213 - ■ KL33 - ■ ■ H1**	
	18	9 660	80.12	71 700	1.4	602	**2KJ4213 - ■ KL33 - ■ ■ G1**	
	22	7 920	65.72	72 400	1.8	602	**2KJ4213 - ■ KL33 - ■ ■ F1**	
	25	6 950	57.63	72 800	2.0	602	**2KJ4213 - ■ KL33 - ■ ■ E1**	
	33	5 430	45.06	73 300	2.6	602	**2KJ4213 - ■ KL33 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**Z.169-LEN180MM4E**							
	40	4 400	36.55	73 700	2.7	553	**2KJ4113 - ■ KL32 - ■ ■ Q1**	
	Z.169-LEN180MQ4P							
	40	4 400	36.55	73 700	2.7	558	**2KJ4113 - ■ KL33 - ■ ■ Q1**	
	D.189-LEN180MM4E							
	8	22 100	183.92	107 000	0.86	811	**2KJ4214 - ■ KL32 - ■ ■ N1**	
	8.9	19 800	164.36	107 000	0.96	811	**2KJ4214 - ■ KL32 - ■ ■ M1**	
	9.9	17 900	148.63	107 000	1.1	811	**2KJ4214 - ■ KL32 - ■ ■ L1**	
	11	15 800	131.17	107 000	1.2	811	**2KJ4214 - ■ KL32 - ■ ■ K1**	
	13	14 000	116.88	107 000	1.3	811	**2KJ4214 - ■ KL32 - ■ ■ J1**	
	14	12 700	105.89	107 000	1.5	811	**2KJ4214 - ■ KL32 - ■ ■ H1**	
	15	11 400	95.24	107 000	1.7	811	**2KJ4214 - ■ KL32 - ■ ■ G1**	
	19	9 540	79.14	107 000	2.0	811	**2KJ4214 - ■ KL32 - ■ ■ F1**	
	21	8 480	70.36	107 000	2.2	811	**2KJ4214 - ■ KL32 - ■ ■ E1**	
	D.189-LEN180MQ4P							
	8	22 100	183.92	107 000	0.86	816	**2KJ4214 - ■ KL33 - ■ ■ N1**	
	8.9	19 800	164.36	107 000	0.96	816	**2KJ4214 - ■ KL33 - ■ ■ M1**	
	9.9	17 900	148.63	107 000	1.1	816	**2KJ4214 - ■ KL33 - ■ ■ L1**	
	11	15 800	131.17	107 000	1.2	816	**2KJ4214 - ■ KL33 - ■ ■ K1**	
	13	14 000	116.88	107 000	1.3	816	**2KJ4214 - ■ KL33 - ■ ■ J1**	
	14	12 700	105.89	107 000	1.5	816	**2KJ4214 - ■ KL33 - ■ ■ H1**	
	15	11 400	95.24	107 000	1.7	816	**2KJ4214 - ■ KL33 - ■ ■ G1**	
	19	9 540	79.14	107 000	2.0	816	**2KJ4214 - ■ KL33 - ■ ■ F1**	
	21	8 480	70.36	107 000	2.2	816	**2KJ4214 - ■ KL33 - ■ ■ E1**	
22	**E.89-LEN180LL4E**							
	555	375	2.64	5 000	0.95	223	**2KJ4004 - ■ KN32 - ■ ■ F1**	
	964	215	1.52	5 600	1.7	223	**2KJ4004 - ■ KN32 - ■ ■ B1**	
	1 127	186	1.3	5 600	1.9	223	**2KJ4004 - ■ KN32 - ■ ■ A1**	
	E.89-LEN180LQ4P							
	555	375	2.64	5 000	0.95	235	**2KJ4004 - ■ KP33 - ■ ■ F1**	
	964	215	1.52	5 600	1.7	235	**2KJ4004 - ■ KP33 - ■ ■ B1**	
	1 127	186	1.3	5 600	1.9	235	**2KJ4004 - ■ KP33 - ■ ■ A1**	
	Z.89-LEN180LL4E							
	106	1 980	13.84	7 700	0.85	245	**2KJ4108 - ■ KN32 - ■ ■ K1**	
	121	1 740	12.15	9 300	0.94	245	**2KJ4108 - ■ KN32 - ■ ■ J1**	
	138	1 510	10.58	10 800	1.0	245	**2KJ4108 - ■ KN32 - ■ ■ H1**	
	162	1 290	9.04	12 000	1.2	245	**2KJ4108 - ■ KN32 - ■ ■ G1**	
	189	1 110	7.74	12 600	1.4	245	**2KJ4108 - ■ KN32 - ■ ■ F1**	
	213	985	6.89	10 200	1.1	245	**2KJ4108 - ■ KN32 - ■ ■ E1**	
	242	865	6.05	11 000	1.2	245	**2KJ4108 - ■ KN32 - ■ ■ D1**	
	279	750	5.26	11 700	1.4	245	**2KJ4108 - ■ KN32 - ■ ■ C1**	
	326	645	4.5	11 500	1.6	245	**2KJ4108 - ■ KN32 - ■ ■ B1**	
	381	550	3.85	11 100	1.9	245	**2KJ4108 - ■ KN32 - ■ ■ A1**	
	Z.89-LEN180LQ4P							
	106	1 980	13.84	7 700	0.85	257	**2KJ4108 - ■ KP33 - ■ ■ K1**	
	121	1 740	12.15	9 300	0.94	257	**2KJ4108 - ■ KP33 - ■ ■ J1**	
	138	1 510	10.58	10 800	1.0	257	**2KJ4108 - ■ KP33 - ■ ■ H1**	
	162	1 290	9.04	12 000	1.2	257	**2KJ4108 - ■ KP33 - ■ ■ G1**	
	189	1 110	7.74	12 600	1.4	257	**2KJ4108 - ■ KP33 - ■ ■ F1**	
	213	985	6.89	10 200	1.1	257	**2KJ4108 - ■ KP33 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**Z.89-LEN180LQ4P**							
	242	865	6.05	10 900	1.2	257	**2KJ4108 - ■ KP33 - ■ ■ D1**	
	279	750	5.26	11 600	1.4	257	**2KJ4108 - ■ KP33 - ■ ■ C1**	
	326	645	4.5	11 500	1.6	257	**2KJ4108 - ■ KP33 - ■ ■ B1**	
	381	550	3.85	11 100	1.9	257	**2KJ4108 - ■ KP33 - ■ ■ A1**	
	E.109-LEN180LL4E							
	421	495	3.48	10 200	1.1	247	**2KJ4005 - ■ KN32 - ■ ■ H1**	
	482	435	3.04	10 000	1.3	247	**2KJ4005 - ■ KN32 - ■ ■ G1**	
	541	385	2.71	9 800	1.4	247	**2KJ4005 - ■ KN32 - ■ ■ F1**	
	613	340	2.39	9 600	1.6	247	**2KJ4005 - ■ KN32 - ■ ■ E1**	
	698	300	2.1	9 300	1.8	247	**2KJ4005 - ■ KN32 - ■ ■ D1**	
	801	260	1.83	9 100	2.0	247	**2KJ4005 - ■ KN32 - ■ ■ C1**	
	877	235	1.67	8 900	2.2	247	**2KJ4005 - ■ KN32 - ■ ■ B1**	
	1 024	205	1.43	8 600	2.3	247	**2KJ4005 - ■ KN32 - ■ ■ A1**	
	E.109-LEN180LQ4P							
	421	495	3.48	10 200	1.1	259	**2KJ4005 - ■ KP33 - ■ ■ H1**	
	482	435	3.04	10 000	1.3	259	**2KJ4005 - ■ KP33 - ■ ■ G1**	
	541	385	2.71	9 800	1.4	259	**2KJ4005 - ■ KP33 - ■ ■ F1**	
	613	340	2.39	9 600	1.6	259	**2KJ4005 - ■ KP33 - ■ ■ E1**	
	698	300	2.1	9 300	1.8	259	**2KJ4005 - ■ KP33 - ■ ■ D1**	
	801	260	1.83	9 100	2.0	259	**2KJ4005 - ■ KP33 - ■ ■ C1**	
	877	235	1.67	8 900	2.2	259	**2KJ4005 - ■ KP33 - ■ ■ B1**	
	1 024	205	1.43	8 600	2.3	259	**2KJ4005 - ■ KP33 - ■ ■ A1**	
	Z.109-LEN180LL4E							
	69	3 030	21.13	17 400	0.93	286	**2KJ4110 - ■ KN32 - ■ ■ P1**	
	79	2 640	18.47	17 300	1.0	286	**2KJ4110 - ■ KN32 - ■ ■ N1**	
	89	2 360	16.48	17 200	1.1	286	**2KJ4110 - ■ KN32 - ■ ■ M1**	
	101	2 080	14.52	17 000	1.2	286	**2KJ4110 - ■ KN32 - ■ ■ L1**	
	115	1 820	12.72	16 700	1.4	286	**2KJ4110 - ■ KN32 - ■ ■ K1**	
	132	1 590	11.09	16 400	1.5	286	**2KJ4110 - ■ KN32 - ■ ■ J1**	
	145	1 450	10.12	16 200	1.7	286	**2KJ4110 - ■ KN32 - ■ ■ H1**	
	168	1 240	8.71	15 800	1.9	286	**2KJ4110 - ■ KN32 - ■ ■ G1**	
	174	1 200	8.41	15 500	1.9	286	**2KJ4110 - ■ KN32 - ■ ■ F1**	
	198	1 060	7.41	15 200	2.1	286	**2KJ4110 - ■ KN32 - ■ ■ E1**	
	225	930	6.5	14 800	2.4	286	**2KJ4110 - ■ KN32 - ■ ■ D1**	
	259	810	5.66	14 400	2.8	286	**2KJ4110 - ■ KN32 - ■ ■ C1**	
	283	740	5.17	14 100	3.1	286	**2KJ4110 - ■ KN32 - ■ ■ B1**	
	329	635	4.45	13 700	3.4	286	**2KJ4110 - ■ KN32 - ■ ■ A1**	
	Z.109-LEN180LQ4P							
	69	3 030	21.13	17 300	0.93	298	**2KJ4110 - ■ KP33 - ■ ■ P1**	
	79	2 640	18.47	17 300	1.0	298	**2KJ4110 - ■ KP33 - ■ ■ N1**	
	89	2 360	16.48	17 200	1.1	298	**2KJ4110 - ■ KP33 - ■ ■ M1**	
	101	2 080	14.52	17 000	1.2	298	**2KJ4110 - ■ KP33 - ■ ■ L1**	
	115	1 820	12.72	16 700	1.4	298	**2KJ4110 - ■ KP33 - ■ ■ K1**	
	132	1 590	11.09	16 400	1.5	298	**2KJ4110 - ■ KP33 - ■ ■ J1**	
	145	1 450	10.12	16 200	1.7	298	**2KJ4110 - ■ KP33 - ■ ■ H1**	
	168	1 240	8.71	15 800	1.9	298	**2KJ4110 - ■ KP33 - ■ ■ G1**	
	174	1 200	8.41	15 500	1.9	298	**2KJ4110 - ■ KP33 - ■ ■ F1**	
	198	1 060	7.41	15 100	2.1	298	**2KJ4110 - ■ KP33 - ■ ■ E1**	
	225	930	6.5	14 800	2.4	298	**2KJ4110 - ■ KP33 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**Z.109-LEN180LQ4P**							
	259	810	5.66	14 400	2.8	298	**2KJ4110 - ■ KP33 - ■ ■ C1**	
	283	740	5.17	14 100	3.1	298	**2KJ4110 - ■ KP33 - ■ ■ B1**	
	329	635	4.45	13 700	3.4	298	**2KJ4110 - ■ KP33 - ■ ■ A1**	
	E.129-LEN180LL4E							
	356	590	4.12	11 800	1.3	270	**2KJ4006 - ■ KN32 - ■ ■ K1**	
	399	525	3.67	11 700	1.5	270	**2KJ4006 - ■ KN32 - ■ ■ J1**	
	445	470	3.29	11 500	1.7	270	**2KJ4006 - ■ KN32 - ■ ■ H1**	
	503	415	2.91	11 200	1.8	270	**2KJ4006 - ■ KN32 - ■ ■ G1**	
	570	365	2.57	11 000	2.1	270	**2KJ4006 - ■ KN32 - ■ ■ F1**	
	648	320	2.26	10 700	2.3	270	**2KJ4006 - ■ KN32 - ■ ■ E1**	
	715	290	2.05	10 500	2.6	270	**2KJ4006 - ■ KN32 - ■ ■ D1**	
	823	255	1.78	10 200	3.0	270	**2KJ4006 - ■ KN32 - ■ ■ C1**	
	1 003	205	1.46	9 700	3.6	270	**2KJ4006 - ■ KN32 - ■ ■ B1**	
	1 181	178	1.24	9 300	4.2	270	**2KJ4006 - ■ KN32 - ■ ■ A1**	
	E.129-LEN180LQ4P							
	356	590	4.12	11 800	1.3	282	**2KJ4006 - ■ KP33 - ■ ■ K1**	
	399	525	3.67	11 600	1.5	282	**2KJ4006 - ■ KP33 - ■ ■ J1**	
	445	470	3.29	11 400	1.7	282	**2KJ4006 - ■ KP33 - ■ ■ H1**	
	503	415	2.91	11 200	1.8	282	**2KJ4006 - ■ KP33 - ■ ■ G1**	
	570	365	2.57	11 000	2.1	282	**2KJ4006 - ■ KP33 - ■ ■ F1**	
	648	320	2.26	10 700	2.3	282	**2KJ4006 - ■ KP33 - ■ ■ E1**	
	715	290	2.05	10 500	2.6	282	**2KJ4006 - ■ KP33 - ■ ■ D1**	
	823	255	1.78	10 100	3.0	282	**2KJ4006 - ■ KP33 - ■ ■ C1**	
	1 003	205	1.46	9 700	3.6	282	**2KJ4006 - ■ KP33 - ■ ■ B1**	
	1 181	178	1.24	9 300	4.2	282	**2KJ4006 - ■ KP33 - ■ ■ A1**	
	Z.129-LEN180LL4E							
	56	3 770	26.3	24 600	1.3	346	**2KJ4111 - ■ KN32 - ■ ■ P1**	
	63	3 350	23.41	24 300	1.5	346	**2KJ4111 - ■ KN32 - ■ ■ N1**	
	70	3 000	20.98	23 900	1.7	346	**2KJ4111 - ■ KN32 - ■ ■ M1**	
	79	2 660	18.6	23 500	1.9	346	**2KJ4111 - ■ KN32 - ■ ■ L1**	
	89	2 350	16.42	23 000	2.1	346	**2KJ4111 - ■ KN32 - ■ ■ K1**	
	102	2 060	14.43	22 400	2.4	346	**2KJ4111 - ■ KN32 - ■ ■ J1**	
	112	1 870	13.07	22 000	2.6	346	**2KJ4111 - ■ KN32 - ■ ■ H1**	
	129	1 630	11.38	21 400	2.9	346	**2KJ4111 - ■ KN32 - ■ ■ G1**	
	157	1 330	9.33	20 500	3.5	346	**2KJ4111 - ■ KN32 - ■ ■ F1**	
	172	1 220	8.53	19 800	3.0	346	**2KJ4111 - ■ KN32 - ■ ■ E1**	
	195	1 070	7.5	19 200	3.4	346	**2KJ4111 - ■ KN32 - ■ ■ D1**	
	216	970	6.79	18 800	3.7	346	**2KJ4111 - ■ KN32 - ■ ■ C1**	
	248	845	5.91	18 200	4.3	346	**2KJ4111 - ■ KN32 - ■ ■ B1**	
	302	695	4.85	17 300	4.7	346	**2KJ4111 - ■ KN32 - ■ ■ A1**	
	Z.129-LEN180LQ4P							
	56	3 770	26.3	24 600	1.3	358	**2KJ4111 - ■ KP33 - ■ ■ P1**	
	63	3 350	23.41	24 300	1.5	358	**2KJ4111 - ■ KP33 - ■ ■ N1**	
	70	3 000	20.98	23 900	1.7	358	**2KJ4111 - ■ KP33 - ■ ■ M1**	
	79	2 660	18.6	23 400	1.9	358	**2KJ4111 - ■ KP33 - ■ ■ L1**	
	89	2 350	16.42	22 900	2.1	358	**2KJ4111 - ■ KP33 - ■ ■ K1**	
	102	2 060	14.43	22 400	2.4	358	**2KJ4111 - ■ KP33 - ■ ■ J1**	
	112	1 870	13.07	22 000	2.6	358	**2KJ4111 - ■ KP33 - ■ ■ H1**	
	129	1 630	11.38	21 400	2.9	358	**2KJ4111 - ■ KP33 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**Z.129-LEN180LQ4P**							
	157	1 330	9.33	20 500	3.5	358	**2KJ4111 - ■ KP33 - ■ ■ F1**	
	172	1 220	8.53	19 700	3.0	358	**2KJ4111 - ■ KP33 - ■ ■ E1**	
	195	1 070	7.5	19 200	3.4	358	**2KJ4111 - ■ KP33 - ■ ■ D1**	
	216	970	6.79	18 800	3.7	358	**2KJ4111 - ■ KP33 - ■ ■ C1**	
	248	845	5.91	18 200	4.3	358	**2KJ4111 - ■ KP33 - ■ ■ B1**	
	302	695	4.85	17 300	4.7	358	**2KJ4111 - ■ KP33 - ■ ■ A1**	
	D.149-LEN180LL4E							
	21	9 850	68.71	50 300	0.81	436	**2KJ4212 - ■ KN32 - ■ ■ G1**	
	24	8 570	59.82	50 500	0.93	436	**2KJ4212 - ■ KN32 - ■ ■ F1**	
	30	7 030	49.05	49 000	1.1	436	**2KJ4212 - ■ KN32 - ■ ■ E1**	
	34	6 240	43.51	48 000	1.3	436	**2KJ4212 - ■ KN32 - ■ ■ D1**	
	37	5 650	39.41	47 200	1.4	436	**2KJ4212 - ■ KN32 - ■ ■ C1**	
	43	4 920	34.31	45 900	1.6	436	**2KJ4212 - ■ KN32 - ■ ■ B1**	
	D.149-LEN180LQ4P							
	21	9 850	68.71	50 300	0.81	448	**2KJ4212 - ■ KP33 - ■ ■ G1**	
	24	8 570	59.82	50 400	0.93	448	**2KJ4212 - ■ KP33 - ■ ■ F1**	
	30	7 030	49.05	48 900	1.1	448	**2KJ4212 - ■ KP33 - ■ ■ E1**	
	34	6 240	43.51	48 000	1.3	448	**2KJ4212 - ■ KP33 - ■ ■ D1**	
	37	5 650	39.41	47 100	1.4	448	**2KJ4212 - ■ KP33 - ■ ■ C1**	
	43	4 920	34.31	45 900	1.6	448	**2KJ4212 - ■ KP33 - ■ ■ B1**	
	E.149-LEN180LL4E							
	280	750	5.24	15 000	2.0	309	**2KJ4007 - ■ KN32 - ■ ■ L1**	
	314	670	4.67	14 700	2.2	309	**2KJ4007 - ■ KN32 - ■ ■ K1**	
	350	600	4.19	14 500	2.5	309	**2KJ4007 - ■ KN32 - ■ ■ J1**	
	392	535	3.74	14 100	2.8	309	**2KJ4007 - ■ KN32 - ■ ■ H1**	
	440	475	3.33	13 800	3.1	309	**2KJ4007 - ■ KN32 - ■ ■ G1**	
	495	425	2.96	13 500	3.4	309	**2KJ4007 - ■ KN32 - ■ ■ F1**	
	541	385	2.71	13 200	3.8	309	**2KJ4007 - ■ KN32 - ■ ■ E1**	
	613	340	2.39	12 900	4.3	309	**2KJ4007 - ■ KN32 - ■ ■ D1**	
	747	280	1.96	12 300	5.2	309	**2KJ4007 - ■ KN32 - ■ ■ C1**	
	852	245	1.72	11 900	5.9	309	**2KJ4007 - ■ KN32 - ■ ■ B1**	
	1 093	192	1.34	11 200	6.7	309	**2KJ4007 - ■ KN32 - ■ ■ A1**	
	E.149-LEN180LQ4P							
	280	750	5.24	15 000	2.0	321	**2KJ4007 - ■ KP33 - ■ ■ L1**	
	314	670	4.67	14 700	2.2	321	**2KJ4007 - ■ KP33 - ■ ■ K1**	
	350	600	4.19	14 400	2.5	321	**2KJ4007 - ■ KP33 - ■ ■ J1**	
	392	535	3.74	14 100	2.8	321	**2KJ4007 - ■ KP33 - ■ ■ H1**	
	440	475	3.33	13 800	3.1	321	**2KJ4007 - ■ KP33 - ■ ■ G1**	
	495	425	2.96	13 400	3.4	321	**2KJ4007 - ■ KP33 - ■ ■ F1**	
	541	385	2.71	13 200	3.8	321	**2KJ4007 - ■ KP33 - ■ ■ E1**	
	613	340	2.39	12 800	4.3	321	**2KJ4007 - ■ KP33 - ■ ■ D1**	
	747	280	1.96	12 200	5.2	321	**2KJ4007 - ■ KP33 - ■ ■ C1**	
	852	245	1.72	11 900	5.9	321	**2KJ4007 - ■ KP33 - ■ ■ B1**	
	1 093	192	1.34	11 100	6.7	321	**2KJ4007 - ■ KP33 - ■ ■ A1**	
	Z.149-LEN180LL4E							
	48	4 350	30.39	44 800	1.8	430	**2KJ4112 - ■ KN32 - ■ ■ Q1**	
	54	3 880	27.07	43 700	2.1	430	**2KJ4112 - ■ KN32 - ■ ■ P1**	
	60	3 480	24.3	42 700	2.3	430	**2KJ4112 - ■ KN32 - ■ ■ N1**	
	68	3 110	21.69	41 600	2.6	430	**2KJ4112 - ■ KN32 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**Z.149-LEN180LL4E**							
	76	2 770	19.33	40 500	2.9	430	**2KJ4112 - ■ KN32 - ■ ■ L1**	
	85	2 460	17.15	39 400	3.3	430	**2KJ4112 - ■ KN32 - ■ ■ K1**	
	Z.149-LEN180LQ4P							
	48	4 350	30.39	44 800	1.8	442	**2KJ4112 - ■ KP33 - ■ ■ Q1**	
	54	3 880	27.07	43 700	2.1	442	**2KJ4112 - ■ KP33 - ■ ■ P1**	
	60	3 480	24.3	42 700	2.3	442	**2KJ4112 - ■ KP33 - ■ ■ N1**	
	68	3 110	21.69	41 600	2.6	442	**2KJ4112 - ■ KP33 - ■ ■ M1**	
	76	2 770	19.33	40 500	2.9	442	**2KJ4112 - ■ KP33 - ■ ■ L1**	
	85	2 460	17.15	39 300	3.3	442	**2KJ4112 - ■ KP33 - ■ ■ K1**	
	D.169-LEN180LL4E							
	13	16 000	111.69	69 400	0.87	612	**2KJ4213 - ■ KN32 - ■ ■ K1**	
	15	14 200	99.06	70 100	0.99	612	**2KJ4213 - ■ KN32 - ■ ■ J1**	
	16	13 000	90.94	70 500	1.1	612	**2KJ4213 - ■ KN32 - ■ ■ H1**	
	18	11 400	80.12	71 000	1.2	612	**2KJ4213 - ■ KN32 - ■ ■ G1**	
	22	9 420	65.72	71 800	1.5	612	**2KJ4213 - ■ KN32 - ■ ■ F1**	
	25	8 260	57.63	72 300	1.7	612	**2KJ4213 - ■ KN32 - ■ ■ E1**	
	33	6 460	45.06	72 900	2.2	612	**2KJ4213 - ■ KN32 - ■ ■ D1**	
	35	5 940	41.43	73 100	2.4	612	**2KJ4213 - ■ KN32 - ■ ■ C1**	
	40	5 210	36.33	73 400	2.7	612	**2KJ4213 - ■ KN32 - ■ ■ B1**	
	D.169-LEN180LQ4P							
	13	16 000	111.69	69 400	0.87	624	**2KJ4213 - ■ KP33 - ■ ■ K1**	
	15	14 200	99.06	70 100	0.99	624	**2KJ4213 - ■ KP33 - ■ ■ J1**	
	16	13 000	90.94	70 500	1.1	624	**2KJ4213 - ■ KP33 - ■ ■ H1**	
	18	11 400	80.12	71 000	1.2	624	**2KJ4213 - ■ KP33 - ■ ■ G1**	
	22	9 420	65.72	71 800	1.5	624	**2KJ4213 - ■ KP33 - ■ ■ F1**	
	25	8 260	57.63	72 300	1.7	624	**2KJ4213 - ■ KP33 - ■ ■ E1**	
	33	6 460	45.06	72 900	2.2	624	**2KJ4213 - ■ KP33 - ■ ■ D1**	
	35	5 940	41.43	73 100	2.4	624	**2KJ4213 - ■ KP33 - ■ ■ C1**	
	40	5 210	36.33	73 400	2.7	624	**2KJ4213 - ■ KP33 - ■ ■ B1**	
	Z.169-LEN180LL4E							
	40	5 240	36.55	73 400	2.3	568	**2KJ4113 - ■ KN32 - ■ ■ Q1**	
	Z.169-LEN180LQ4P							
	40	5 240	36.55	73 400	2.3	580	**2KJ4113 - ■ KP33 - ■ ■ Q1**	
	D.189-LEN180LL4E							
	8.9	23 500	164.36	107 000	0.81	826	**2KJ4214 - ■ KN32 - ■ ■ M1**	
	9.9	21 300	148.63	107 000	0.89	826	**2KJ4214 - ■ KN32 - ■ ■ L1**	
	11	18 800	131.17	107 000	1.0	826	**2KJ4214 - ■ KN32 - ■ ■ K1**	
	13	16 700	116.88	107 000	1.1	826	**2KJ4214 - ■ KN32 - ■ ■ J1**	
	14	15 100	105.89	107 000	1.3	826	**2KJ4214 - ■ KN32 - ■ ■ H1**	
	15	13 600	95.24	107 000	1.4	826	**2KJ4214 - ■ KN32 - ■ ■ G1**	
	19	11 300	79.14	107 000	1.7	826	**2KJ4214 - ■ KN32 - ■ ■ F1**	
	21	10 000	70.36	107 000	1.9	826	**2KJ4214 - ■ KN32 - ■ ■ E1**	
	26	8 040	56.08	107 000	2.4	826	**2KJ4214 - ■ KN32 - ■ ■ D1**	
	D.189-LEN180LQ4P							
	8.9	23 500	164.36	107 000	0.81	838	**2KJ4214 - ■ KP33 - ■ ■ M1**	
	9.9	21 300	148.63	107 000	0.89	838	**2KJ4214 - ■ KP33 - ■ ■ L1**	
	11	18 800	131.17	107 000	1.0	838	**2KJ4214 - ■ KP33 - ■ ■ K1**	
	13	16 700	116.88	107 000	1.1	838	**2KJ4214 - ■ KP33 - ■ ■ J1**	
	14	15 100	105.89	107 000	1.3	838	**2KJ4214 - ■ KP33 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
22	**D.189-LEN180LQ4P**							
	15	13 600	95.24	107 000	1.4	838	**2KJ4214 - ■ KP33 - ■ ■ G1**	
	19	11 300	79.14	107 000	1.7	838	**2KJ4214 - ■ KP33 - ■ ■ F1**	
	21	10 000	70.36	107 000	1.9	838	**2KJ4214 - ■ KP33 - ■ ■ E1**	
	26	8 040	56.08	107 000	2.4	838	**2KJ4214 - ■ KP33 - ■ ■ D1**	
30	**E.109-LEN200LN4E**							
	484	590	3.04	7 600	0.92	317	**2KJ4005 - ■ LM32 - ■ ■ G1**	
	542	525	2.71	7 900	1.0	317	**2KJ4005 - ■ LM32 - ■ ■ F1**	
	803	355	1.83	8 300	1.5	317	**2KJ4005 - ■ LM32 - ■ ■ C1**	
	880	325	1.67	8 300	1.6	317	**2KJ4005 - ■ LM32 - ■ ■ B1**	
	1 028	275	1.43	8 100	1.7	317	**2KJ4005 - ■ LM32 - ■ ■ A1**	
	E.109-LEN200LT4P							
	484	590	3.04	7 600	0.92	327	**2KJ4005 - ■ LN33 - ■ ■ G1**	
	542	525	2.71	7 900	1.0	327	**2KJ4005 - ■ LN33 - ■ ■ F1**	
	803	355	1.83	8 300	1.5	327	**2KJ4005 - ■ LN33 - ■ ■ C1**	
	880	325	1.67	8 300	1.6	327	**2KJ4005 - ■ LN33 - ■ ■ B1**	
	1 028	275	1.43	8 100	1.7	327	**2KJ4005 - ■ LN33 - ■ ■ A1**	
	Z.109-LEN200LN4E							
	89	3 210	16.48	15 200	0.82	356	**2KJ4110 - ■ LM32 - ■ ■ M1**	
	101	2 830	14.52	15 200	0.91	356	**2KJ4110 - ■ LM32 - ■ ■ L1**	
	116	2 470	12.72	15 200	1.0	356	**2KJ4110 - ■ LM32 - ■ ■ K1**	
	133	2 160	11.09	15 100	1.1	356	**2KJ4110 - ■ LM32 - ■ ■ J1**	
	145	1 970	10.12	15 000	1.2	356	**2KJ4110 - ■ LM32 - ■ ■ H1**	
	169	1 690	8.71	14 800	1.4	356	**2KJ4110 - ■ LM32 - ■ ■ G1**	
	175	1 630	8.41	14 400	1.4	356	**2KJ4110 - ■ LM32 - ■ ■ F1**	
	198	1 440	7.41	14 200	1.6	356	**2KJ4110 - ■ LM32 - ■ ■ E1**	
	226	1 260	6.5	13 900	1.8	356	**2KJ4110 - ■ LM32 - ■ ■ D1**	
	260	1 100	5.66	13 600	2.1	356	**2KJ4110 - ■ LM32 - ■ ■ C1**	
	284	1 000	5.17	13 500	2.3	356	**2KJ4110 - ■ LM32 - ■ ■ B1**	
	330	865	4.45	13 100	2.5	356	**2KJ4110 - ■ LM32 - ■ ■ A1**	
	Z.109-LEN200LT4P							
	89	3 210	16.48	15 200	0.82	366	**2KJ4110 - ■ LN33 - ■ ■ M1**	
	101	2 830	14.52	15 200	0.91	366	**2KJ4110 - ■ LN33 - ■ ■ L1**	
	116	2 470	12.72	15 200	1.0	366	**2KJ4110 - ■ LN33 - ■ ■ K1**	
	133	2 160	11.09	15 100	1.1	366	**2KJ4110 - ■ LN33 - ■ ■ J1**	
	145	1 970	10.12	15 000	1.2	366	**2KJ4110 - ■ LN33 - ■ ■ H1**	
	169	1 690	8.71	14 800	1.4	366	**2KJ4110 - ■ LN33 - ■ ■ G1**	
	175	1 630	8.41	14 400	1.4	366	**2KJ4110 - ■ LN33 - ■ ■ F1**	
	198	1 440	7.41	14 200	1.6	366	**2KJ4110 - ■ LN33 - ■ ■ E1**	
	226	1 260	6.5	13 900	1.8	366	**2KJ4110 - ■ LN33 - ■ ■ D1**	
	260	1 100	5.66	13 600	2.1	366	**2KJ4110 - ■ LN33 - ■ ■ C1**	
	284	1 000	5.17	13 500	2.3	366	**2KJ4110 - ■ LN33 - ■ ■ B1**	
	330	865	4.45	13 100	2.5	366	**2KJ4110 - ■ LN33 - ■ ■ A1**	
	E.129-LEN200LN4E							
	401	715	3.67	10 200	1.1	340	**2KJ4006 - ■ LM32 - ■ ■ J1**	
	447	640	3.29	10 400	1.2	340	**2KJ4006 - ■ LM32 - ■ ■ H1**	
	505	565	2.91	10 300	1.4	340	**2KJ4006 - ■ LM32 - ■ ■ G1**	
	572	500	2.57	10 200	1.5	340	**2KJ4006 - ■ LM32 - ■ ■ F1**	
	650	440	2.26	10 000	1.7	340	**2KJ4006 - ■ LM32 - ■ ■ E1**	
	717	400	2.05	9 800	1.9	340	**2KJ4006 - ■ LM32 - ■ ■ D1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**E.129-LEN200LN4E**							
	826	345	1.78	9 600	2.2	340	**2KJ4006 - ■ LM32 - ■ ■ C1**	
	1 007	285	1.46	9 200	2.7	340	**2KJ4006 - ■ LM32 - ■ ■ B1**	
	1 185	240	1.24	8 900	3.1	340	**2KJ4006 - ■ LM32 - ■ ■ A1**	
	E.129-LEN200LT4P							
	401	715	3.67	10 200	1.1	350	**2KJ4006 - ■ LN33 - ■ ■ J1**	
	447	640	3.29	10 400	1.2	350	**2KJ4006 - ■ LN33 - ■ ■ H1**	
	505	565	2.91	10 300	1.4	350	**2KJ4006 - ■ LN33 - ■ ■ G1**	
	572	500	2.57	10 200	1.5	350	**2KJ4006 - ■ LN33 - ■ ■ F1**	
	650	440	2.26	10 000	1.7	350	**2KJ4006 - ■ LN33 - ■ ■ E1**	
	717	400	2.05	9 800	1.9	350	**2KJ4006 - ■ LN33 - ■ ■ D1**	
	826	345	1.78	9 600	2.2	350	**2KJ4006 - ■ LN33 - ■ ■ C1**	
	1 007	285	1.46	9 200	2.7	350	**2KJ4006 - ■ LN33 - ■ ■ B1**	
	1 185	240	1.24	8 900	3.1	350	**2KJ4006 - ■ LN33 - ■ ■ A1**	
	Z.129-LEN200LN4E							
	63	4 560	23.41	22 200	1.1	416	**2KJ4111 - ■ LM32 - ■ ■ N1**	
	70	4 080	20.98	22 000	1.2	416	**2KJ4111 - ■ LM32 - ■ ■ M1**	
	79	3 620	18.6	21 800	1.4	416	**2KJ4111 - ■ LM32 - ■ ■ L1**	
	90	3 200	16.42	21 500	1.6	416	**2KJ4111 - ■ LM32 - ■ ■ K1**	
	102	2 810	14.43	21 100	1.8	416	**2KJ4111 - ■ LM32 - ■ ■ J1**	
	112	2 540	13.07	20 800	1.9	416	**2KJ4111 - ■ LM32 - ■ ■ H1**	
	129	2 210	11.38	20 400	2.1	416	**2KJ4111 - ■ LM32 - ■ ■ G1**	
	158	1 810	9.33	19 600	2.6	416	**2KJ4111 - ■ LM32 - ■ ■ F1**	
	172	1 660	8.53	18 900	2.2	416	**2KJ4111 - ■ LM32 - ■ ■ E1**	
	196	1 460	7.5	18 400	2.5	416	**2KJ4111 - ■ LM32 - ■ ■ D1**	
	216	1 320	6.79	18 100	2.7	416	**2KJ4111 - ■ LM32 - ■ ■ C1**	
	249	1 150	5.91	17 600	3.1	416	**2KJ4111 - ■ LM32 - ■ ■ B1**	
	303	945	4.85	16 800	3.5	416	**2KJ4111 - ■ LM32 - ■ ■ A1**	
	Z.129-LEN200LT4P							
	63	4 560	23.41	22 200	1.1	426	**2KJ4111 - ■ LN33 - ■ ■ N1**	
	70	4 080	20.98	22 000	1.2	426	**2KJ4111 - ■ LN33 - ■ ■ M1**	
	79	3 620	18.6	21 800	1.4	426	**2KJ4111 - ■ LN33 - ■ ■ L1**	
	90	3 200	16.42	21 500	1.6	426	**2KJ4111 - ■ LN33 - ■ ■ K1**	
	102	2 810	14.43	21 100	1.8	426	**2KJ4111 - ■ LN33 - ■ ■ J1**	
	112	2 540	13.07	20 800	1.9	426	**2KJ4111 - ■ LN33 - ■ ■ H1**	
	129	2 210	11.38	20 400	2.1	426	**2KJ4111 - ■ LN33 - ■ ■ G1**	
	158	1 810	9.33	19 600	2.6	426	**2KJ4111 - ■ LN33 - ■ ■ F1**	
	172	1 660	8.53	18 900	2.2	426	**2KJ4111 - ■ LN33 - ■ ■ E1**	
	196	1 460	7.5	18 400	2.5	426	**2KJ4111 - ■ LN33 - ■ ■ D1**	
	216	1 320	6.79	18 100	2.7	426	**2KJ4111 - ■ LN33 - ■ ■ C1**	
	249	1 150	5.91	17 600	3.1	426	**2KJ4111 - ■ LN33 - ■ ■ B1**	
	303	945	4.85	16 800	3.5	426	**2KJ4111 - ■ LN33 - ■ ■ A1**	
	D.149-LEN200LN4E							
	30	9 560	49.05	45 500	0.84	506	**2KJ4212 - ■ LM32 - ■ ■ E1**	
	34	8 480	43.51	44 900	0.94	506	**2KJ4212 - ■ LM32 - ■ ■ D1**	
	37	7 680	39.41	44 300	1.0	506	**2KJ4212 - ■ LM32 - ■ ■ C1**	
	43	6 680	34.31	43 500	1.2	506	**2KJ4212 - ■ LM32 - ■ ■ B1**	
	D.149-LEN200LT4P							
	30	9 560	49.05	45 500	0.84	516	**2KJ4212 - ■ LN33 - ■ ■ E1**	
	34	8 480	43.51	44 900	0.94	516	**2KJ4212 - ■ LN33 - ■ ■ D1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
30	**D.149-LEN200LT4P**							
	37	7 680	39.41	44 300	1.0	516	**2KJ4212 - ■ LN33 - ■ ■ C1**	
	43	6 680	34.31	43 500	1.2	516	**2KJ4212 - ■ LN33 - ■ ■ B1**	
	E.149-LEN200LN4E							
	315	910	4.67	13 600	1.6	379	**2KJ4007 - ■ LM32 - ■ ■ K1**	
	351	815	4.19	13 500	1.8	379	**2KJ4007 - ■ LM32 - ■ ■ J1**	
	393	725	3.74	13 200	2.0	379	**2KJ4007 - ■ LM32 - ■ ■ H1**	
	441	645	3.33	13 000	2.3	379	**2KJ4007 - ■ LM32 - ■ ■ G1**	
	497	575	2.96	12 700	2.5	379	**2KJ4007 - ■ LM32 - ■ ■ F1**	
	542	525	2.71	12 600	2.8	379	**2KJ4007 - ■ LM32 - ■ ■ E1**	
	615	465	2.39	12 200	3.1	379	**2KJ4007 - ■ LM32 - ■ ■ D1**	
	750	380	1.96	11 700	3.8	379	**2KJ4007 - ■ LM32 - ■ ■ C1**	
	855	335	1.72	11 400	4.4	379	**2KJ4007 - ■ LM32 - ■ ■ B1**	
	1 097	260	1.34	10 800	4.9	379	**2KJ4007 - ■ LM32 - ■ ■ A1**	
	E.149-LEN200LT4P							
	315	910	4.67	13 600	1.6	389	**2KJ4007 - ■ LN33 - ■ ■ K1**	
	351	815	4.19	13 500	1.8	389	**2KJ4007 - ■ LN33 - ■ ■ J1**	
	393	725	3.74	13 200	2.0	389	**2KJ4007 - ■ LN33 - ■ ■ H1**	
	441	645	3.33	13 000	2.3	389	**2KJ4007 - ■ LN33 - ■ ■ G1**	
	497	575	2.96	12 700	2.5	389	**2KJ4007 - ■ LN33 - ■ ■ F1**	
	542	525	2.71	12 600	2.8	389	**2KJ4007 - ■ LN33 - ■ ■ E1**	
	615	465	2.39	12 200	3.1	389	**2KJ4007 - ■ LN33 - ■ ■ D1**	
	750	380	1.96	11 700	3.8	389	**2KJ4007 - ■ LN33 - ■ ■ C1**	
	855	335	1.72	11 400	4.4	389	**2KJ4007 - ■ LN33 - ■ ■ B1**	
	1 097	260	1.34	10 800	4.9	389	**2KJ4007 - ■ LN33 - ■ ■ A1**	
	Z.149-LEN200LN4E							
	54	5 270	27.07	41 800	1.5	499	**2KJ4112 - ■ LM32 - ■ ■ P1**	
	60	4 730	24.3	41 000	1.7	499	**2KJ4112 - ■ LM32 - ■ ■ N1**	
	68	4 220	21.69	40 100	1.9	499	**2KJ4112 - ■ LM32 - ■ ■ M1**	
	76	3 760	19.33	39 100	2.1	499	**2KJ4112 - ■ LM32 - ■ ■ L1**	
	86	3 340	17.15	38 100	2.4	499	**2KJ4112 - ■ LM32 - ■ ■ K1**	
	93	3 060	15.74	37 400	2.6	499	**2KJ4112 - ■ LM32 - ■ ■ J1**	
	106	2 700	13.87	36 400	3.0	499	**2KJ4112 - ■ LM32 - ■ ■ H1**	
	129	2 210	11.38	34 700	3.6	499	**2KJ4112 - ■ LM32 - ■ ■ G1**	
	202	1 410	7.27	31 200	3.4	499	**2KJ4112 - ■ LM32 - ■ ■ D1**	
	247	1 160	5.96	29 600	4.2	499	**2KJ4112 - ■ LM32 - ■ ■ C1**	
	281	1 010	5.23	28 600	4.8	499	**2KJ4112 - ■ LM32 - ■ ■ B1**	
	Z.149-LEN200LT4P							
	54	5 270	27.07	41 800	1.5	509	**2KJ4112 - ■ LN33 - ■ ■ P1**	
	60	4 730	24.3	41 000	1.7	509	**2KJ4112 - ■ LN33 - ■ ■ N1**	
	68	4 220	21.69	40 100	1.9	509	**2KJ4112 - ■ LN33 - ■ ■ M1**	
	76	3 760	19.33	39 100	2.1	509	**2KJ4112 - ■ LN33 - ■ ■ L1**	
	86	3 340	17.15	38 100	2.4	509	**2KJ4112 - ■ LN33 - ■ ■ K1**	
	93	3 060	15.74	37 400	2.6	509	**2KJ4112 - ■ LN33 - ■ ■ J1**	
	106	2 700	13.87	36 400	3.0	509	**2KJ4112 - ■ LN33 - ■ ■ H1**	
	129	2 210	11.38	34 700	3.6	509	**2KJ4112 - ■ LN33 - ■ ■ G1**	
	202	1 410	7.27	31 200	3.4	509	**2KJ4112 - ■ LN33 - ■ ■ D1**	
	247	1 160	5.96	29 600	4.2	509	**2KJ4112 - ■ LN33 - ■ ■ C1**	
	281	1 010	5.23	28 600	4.8	509	**2KJ4112 - ■ LN33 - ■ ■ B1**	

Article No. supplement		
Shaft design	**1 or 9**	➞ page 8/42
Frequency and voltage	**1, 3, 9**	➞ page 9/2
Gearbox mounting type	**A, B, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**D.169-LEN200LN4E**							
	18	15 600	80.12	69 500	0.9	683	**2KJ4213 - ■ LM32 - ■ ■ G1**	
	22	12 800	65.72	70 600	1.1	683	**2KJ4213 - ■ LM32 - ■ ■ F1**	
	26	11 200	57.63	71 100	1.2	683	**2KJ4213 - ■ LM32 - ■ ■ E1**	
	33	8 780	45.06	72 100	1.6	683	**2KJ4213 - ■ LM32 - ■ ■ D1**	
	35	8 070	41.43	72 300	1.7	683	**2KJ4213 - ■ LM32 - ■ ■ C1**	
	40	7 080	36.33	72 700	2.0	683	**2KJ4213 - ■ LM32 - ■ ■ B1**	
	D.169-LEN200LT4P							
	18	15 600	80.12	69 500	0.9	693	**2KJ4213 - ■ LN33 - ■ ■ G1**	
	22	12 800	65.72	70 600	1.1	693	**2KJ4213 - ■ LN33 - ■ ■ F1**	
	26	11 200	57.63	71 100	1.2	693	**2KJ4213 - ■ LN33 - ■ ■ E1**	
	33	8 780	45.06	72 100	1.6	693	**2KJ4213 - ■ LN33 - ■ ■ D1**	
	35	8 070	41.43	72 300	1.7	693	**2KJ4213 - ■ LN33 - ■ ■ C1**	
	40	7 080	36.33	72 700	2.0	693	**2KJ4213 - ■ LN33 - ■ ■ B1**	
	Z.169-LEN200LN4E							
	45	6 400	32.88	72 900	2.2	639	**2KJ4113 - ■ LM32 - ■ ■ P1**	
	50	5 720	29.38	73 200	2.4	639	**2KJ4113 - ■ LM32 - ■ ■ N1**	
	55	5 170	26.57	73 400	2.7	639	**2KJ4113 - ■ LM32 - ■ ■ M1**	
	Z.169-LEN200LT4P							
	45	6 400	32.88	72 900	2.2	649	**2KJ4113 - ■ LN33 - ■ ■ P1**	
	50	5 720	29.38	73 200	2.4	649	**2KJ4113 - ■ LN33 - ■ ■ N1**	
	55	5 170	26.57	73 400	2.7	649	**2KJ4113 - ■ LN33 - ■ ■ M1**	
	D.189-LEN200LN4E							
	13	22 700	116.88	107 000	0.83	897	**2KJ4214 - ■ LM32 - ■ ■ J1**	
	14	20 600	105.89	107 000	0.92	897	**2KJ4214 - ■ LM32 - ■ ■ H1**	
	15	18 500	95.24	107 000	1.0	897	**2KJ4214 - ■ LM32 - ■ ■ G1**	
	19	15 400	79.14	107 000	1.2	897	**2KJ4214 - ■ LM32 - ■ ■ F1**	
	21	13 700	70.36	107 000	1.4	897	**2KJ4214 - ■ LM32 - ■ ■ E1**	
	26	10 900	56.08	107 000	1.7	897	**2KJ4214 - ■ LM32 - ■ ■ D1**	
	33	8 690	44.63	107 000	2.2	897	**2KJ4214 - ■ LM32 - ■ ■ C1**	
	40	7 140	36.67	107 000	2.7	897	**2KJ4214 - ■ LM32 - ■ ■ B1**	
	D.189-LEN200LT4P							
	13	22 700	116.88	107 000	0.83	907	**2KJ4214 - ■ LN33 - ■ ■ J1**	
	14	20 600	105.89	107 000	0.92	907	**2KJ4214 - ■ LN33 - ■ ■ H1**	
	15	18 500	95.24	107 000	1.0	907	**2KJ4214 - ■ LN33 - ■ ■ G1**	
	19	15 400	79.14	107 000	1.2	907	**2KJ4214 - ■ LN33 - ■ ■ F1**	
	21	13 700	70.36	107 000	1.4	907	**2KJ4214 - ■ LN33 - ■ ■ E1**	
	26	10 900	56.08	107 000	1.7	907	**2KJ4214 - ■ LN33 - ■ ■ D1**	
	33	8 690	44.63	107 000	2.2	907	**2KJ4214 - ■ LN33 - ■ ■ C1**	
	40	7 140	36.67	107 000	2.7	907	**2KJ4214 - ■ LN33 - ■ ■ B1**	

Article No. supplement		
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Gearbox mounting type	**A, B, F or H**	➞ page 8/36

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.19																			
184.86	7.8	100	1 650	13.1	0.02	50468/273	✓	✓											**2KJ4201 - ■■■■■ - ■■ Q1**
163.69	8.9	100	1 650	13.2	0.03	74481/455	✓	✓											**2KJ4201 - ■■■■■ - ■■ P1**
142.23	10	100	1 650	13.2	0.04	64713/455	✓	✓											**2KJ4201 - ■■■■■ - ■■ N1**
129.30	11	100	1 650	13.2	0.04	11766/91	✓	✓											**2KJ4201 - ■■■■■ - ■■ M1**
110.02	13	100	1 650	13.2	0.06	50061/455	✓	✓											**2KJ4201 - ■■■■■ - ■■ L1**
100.02	14	100	1 650	13.2	0.07	9102/91	✓	✓											**2KJ4201 - ■■■■■ - ■■ K1**
87.21	17	100	1 650	13.3	0.08	1221/14	✓	✓											**2KJ4201 - ■■■■■ - ■■ J1**
78.07	19	100	1 650	13.3	0.11	7104/91	✓	✓											**2KJ4201 - ■■■■■ - ■■ H1**
69.32	21	100	1 650	13.3	0.13	12617/182	✓	✓											**2KJ4201 - ■■■■■ - ■■ G1**
63.99	23	100	1 650	13.3	0.16	75702/1183	✓	✓											**2KJ4201 - ■■■■■ - ■■ F1**
55.59	26	100	1 650	13.4	0.17	35409/637	✓	✓											**2KJ4201 - ■■■■■ - ■■ E1**
48.30	30	100	1 650	13.3	0.18	21978/455	✓	✓											**2KJ4201 - ■■■■■ - ■■ D1**
43.61	33	100	1 650	13.3	0.22	1221/28	✓	✓											**2KJ4201 - ■■■■■ - ■■ C1**
41.04	35	100	1 650	13.3	0.26	4884/119	✓	✓											**2KJ4201 - ■■■■■ - ■■ B1**
35.78	41	100	1 650	13.4	0.29	3256/91	✓	✓											**2KJ4201 - ■■■■■ - ■■ A1**
Z.19																			
34.97	41	100	1 650	12.6	0.02	1364/39	✓	✓											**2KJ4101 - ■■■■■ - ■■ W1**
30.97	47	100	1 650	13.2	0.03	2013/65	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ V1**
26.91	54	100	1 650	13.3	0.04	1749/65	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ U1**
24.46	59	100	1 650	13.3	0.05	318/13	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ T1**
20.82	70	100	1 650	13.5	0.06	1353/65	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ S1**
18.92	77	100	1 790	13.5	0.08	246/13	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ R1**
16.50	88	99	1 900	13.7	0.09	33/2	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ Q1**
14.77	98	95	1 870	13.8	0.12	192/13	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ P1**
13.12	111	91	1 830	13.9	0.15	341/26	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ N1**
12.11	120	88	1 810	13.9	0.18	2046/169	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ M1**
10.52	138	82	1 760	14.3	0.20	957/91	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ L1**
9.14	159	78	1 710	13.9	0.21	594/65	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ K1**
8.25	176	74	1 670	14.1	0.27	33/4	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ J1**
7.76	187	73	1 650	14.1	0.32	132/17	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ H1**
6.77	214	68	1 600	14.5	0.36	88/13	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ G1**
6.25	232	56	1 460	20.3	0.19	1705/273	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ F1**
5.43	267	53	1 420	21.0	0.22	1595/294	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ E1**
4.71	308	49	1 380	20.3	0.22	33/7	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ D1**
4.26	340	47	1 350	20.7	0.29	715/168	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ C1**
4.01	362	46	1 330	20.7	0.32	1430/357	✓	✓	✓										**2KJ4101 - ■■■■■ - ■■ B1**
3.49	415	43	1 290	21.5	0.39	220/63			✓										**2KJ4101 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.29																			
217.89	6.7	140	3 710	10.7	0.02	7626/35	✓	✓											2KJ4202 - ■■■■■ - ■■ Q1
192.93	7.5	140	3 710	10.8	0.03	67527/350	✓	✓	✓	✓									2KJ4202 - ■■■■■ - ■■ P1
167.63	8.7	140	3 710	10.8	0.04	58671/350	✓	✓	✓	✓									2KJ4202 - ■■■■■ - ■■ N1
152.39	9.5	140	3 710	10.8	0.05	58671/385	✓	✓	✓	✓									2KJ4202 - ■■■■■ - ■■ M1
129.68	11	140	3 710	10.9	0.06	45387/350	✓	✓	✓	✓									2KJ4202 - ■■■■■ - ■■ L1
117.89	12	140	3 710	10.9	0.08	45387/385	✓	✓	✓	✓									2KJ4202 - ■■■■■ - ■■ K1
102.79	14	140	3 710	10.9	0.09	14391/140	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ J1
92.01	16	140	3 710	10.9	0.12	35424/385	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ H1
81.71	18	140	3 710	10.9	0.14	11439/140	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ G1
75.42	19	140	3 710	10.9	0.17	34317/455	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ F1
65.52	22	140	3 710	11.0	0.19	32103/490	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ E1
56.93	25	140	3 710	10.9	0.19	9963/175	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ D1
51.40	28	140	3 710	11.0	0.25	14391/280	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ C1
48.37	30	140	3 710	11.0	0.29	28782/595	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ B1
42.17	34	140	3 710	11.0	0.33	1476/35	✓	✓	✓	✓	✓								2KJ4202 - ■■■■■ - ■■ A1
Z.29																			
41.40	35	140	3 710	10.8	0.04	207/5	✓	✓											2KJ4102 - ■■■■■ - ■■ A2
36.72	39	140	3 670	10.8	0.05	918/25	✓	✓	✓	✓									2KJ4102 - ■■■■■ - ■■ X1
31.86	46	140	3 330	10.9	0.06	1593/50	✓	✓	✓	✓									2KJ4102 - ■■■■■ - ■■ W1
28.96	50	140	3 110	10.9	0.07	1593/55	✓	✓	✓	✓									2KJ4102 - ■■■■■ - ■■ V1
24.84	58	140	2 770	11.0	0.09	621/25	✓	✓	✓	✓									2KJ4102 - ■■■■■ - ■■ U1
22.58	64	140	2 570	11.0	0.11	1242/55	✓	✓	✓	✓									2KJ4102 - ■■■■■ - ■■ T1
19.80	73	140	2 300	11.2	0.13	99/5	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ S1
17.67	82	140	2 070	11.3	0.15	972/55	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ R1
15.75	92	140	1 850	11.4	0.18	63/4	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ Q1
14.54	100	120	2 240	11.4	0.23	189/13	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ P1
12.73	114	140	1 470	11.6	0.26	891/70	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ N1
11.16	130	140	1 250	11.9	0.27	279/25	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ M1
10.12	143	140	1 090	12.1	0.34	81/8	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ L1
9.53	152	140	1 000	12.1	0.40	162/17	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ K1
8.40	173	138	855	11.7	0.45	42/5	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ J1
7.29	199	130	860	11.9	0.60	729/100	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ H1
6.92	210	75	1 900	17.4	0.29	90/13	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ G1
6.06	239	100	945	17.9	0.34	297/49	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ F1
5.31	273	91	1 050	18.6	0.37	186/35	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ E1
4.82	301	86	1 080	18.9	0.46	135/28	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ D1
4.54	319	84	1 070	18.9	0.54	540/119	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ C1
4.00	362	76	1 160	18.2	0.63	4/1	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ B1
3.47	418	70	1 240	18.5	0.84	243/70	✓	✓	✓	✓	✓								2KJ4102 - ■■■■■ - ■■ A1

1) Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.39																			
235.29	6.2	200	4 370	8.1	0.03	179998/765	✓	✓											2KJ4203 - ■■■■■ - ■■ R1
208.69	6.9	200	4 370	8.2	0.05	15652/75	✓	✓	✓	✓									2KJ4203 - ■■■■■ - ■■ Q1
181.07	8	200	4 370	8.2	0.05	230867/1275	✓	✓	✓	✓									2KJ4203 - ■■■■■ - ■■ P1
164.61	8.8	200	4 370	8.2	0.07	461734/2805	✓	✓	✓	✓									2KJ4203 - ■■■■■ - ■■ N1
141.17	10	200	4 370	8.2	0.08	179998/1275	✓	✓	✓	✓									2KJ4203 - ■■■■■ - ■■ M1
128.34	11	200	4 370	8.2	0.10	359996/2805	✓	✓	✓	✓									2KJ4203 - ■■■■■ - ■■ L1
112.53	13	200	4 370	8.2	0.12	86086/765	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ K1
100.44	14	200	4 370	8.3	0.15	93912/935	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ J1
89.51	16	200	4 370	8.3	0.17	27391/306	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ H1
82.63	18	200	4 370	8.3	0.21	4214/51	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ G1
72.34	20	200	4 370	8.3	0.25	6149/85	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ F1
63.43	23	200	4 370	8.4	0.23	242606/3825	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ E1
57.54	25	200	4 370	8.4	0.33	3913/68	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ D1
54.16	27	200	4 370	8.4	0.39	15652/289	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ C1
47.74	30	200	4 350	8.3	0.43	109564/2295	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ B1
41.43	35	200	3 920	8.4	0.58	35217/850	✓	✓	✓	✓	✓	✓							2KJ4203 - ■■■■■ - ■■ A1
Z.39																			
55.95	26	200	4 370	7.7	0.06	7553/135	✓	✓											2KJ4103 - ■■■■■ - ■■ A2
49.75	29	200	4 370	7.7	0.07	3731/75	✓	✓	✓	✓									2KJ4103 - ■■■■■ - ■■ X1
43.68	33	200	4 070	7.8	0.08	1092/25	✓	✓	✓	✓									2KJ4103 - ■■■■■ - ■■ W1
39.71	37	200	3 790	7.8	0.10	2184/55	✓	✓	✓	✓									2KJ4103 - ■■■■■ - ■■ V1
33.97	43	200	3 340	7.9	0.12	2548/75	✓	✓	✓	✓									2KJ4103 - ■■■■■ - ■■ U1
30.88	47	200	3 080	7.9	0.14	5096/165	✓	✓	✓	✓									2KJ4103 - ■■■■■ - ■■ T1
27.30	53	200	2 760	8.0	0.17	273/10	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ S1
24.82	58	200	2 520	8.0	0.22	273/11	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ R1
21.74	67	200	2 190	8.1	0.25	3913/180	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ Q1
20.07	72	200	2 000	8.1	0.31	301/15	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ P1
17.77	82	200	1 720	8.3	0.36	533/30	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ N1
14.79	98	193	1 500	8.4	0.47	1183/80	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ M1
13.92	104	189	1 470	8.4	0.55	1183/85	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ L1
12.47	116	180	1 470	8.6	0.60	3367/270	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ K1
10.62	137	169	1 440	8.8	0.78	637/60	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ J1
9.10	159	158	1 430	9.0	1.02	91/10			✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ H1
7.84	185	148	1 420	9.3	1.30	2821/360			✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ G1
6.46	224	146	225	13.4	0.57	2379/368	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ F1
6.08	238	147	100	13.4	0.66	2379/391	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ E1
5.45	266	140	150	13.8	0.74	2257/414	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ D1
4.64	312	130	490	14.3	0.97	427/92	✓	✓	✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ C1
3.98	364	121	820	14.8	1.28	183/46			✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ B1
3.43	423	112	1 070	15.4	1.65	1891/552			✓	✓	✓	✓							2KJ4103 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.49																			
280.89	5.2	320	5 780	7.3	0.06	60673/216	✓	✓											2KJ4204 - ■■■■■ - ■■ S1
249.76	5.8	320	5 780	7.3	0.07	29971/120	✓	✓	✓	✓									2KJ4204 - ■■■■■ - ■■ R1
219.30	6.6	320	5 780	7.4	0.08	2193/10	✓	✓	✓	✓									2KJ4204 - ■■■■■ - ■■ Q1
199.36	7.3	320	5 780	7.4	0.10	2193/11	✓	✓	✓	✓									2KJ4204 - ■■■■■ - ■■ P1
170.57	8.5	320	5 780	7.4	0.12	5117/30	✓	✓	✓	✓									2KJ4204 - ■■■■■ - ■■ N1
155.06	9.4	320	5 780	7.4	0.14	5117/33	✓	✓	✓	✓									2KJ4204 - ■■■■■ - ■■ M1
137.06	11	320	5 780	7.4	0.17	2193/16	✓	✓	✓	✓	✓	✓							2KJ4204 - ■■■■■ - ■■ L1
124.60	12	320	5 780	7.4	0.22	10965/88	✓	✓	✓	✓	✓	✓							2KJ4204 - ■■■■■ - ■■ K1
109.14	13	320	5 780	7.4	0.25	31433/288	✓	✓	✓	✓	✓	✓							2KJ4204 - ■■■■■ - ■■ J1
100.75	14	320	5 780	7.4	0.31	31433/312	✓	✓	✓	✓	✓	✓							2KJ4204 - ■■■■■ - ■■ H1
89.20	16	320	5 780	7.4	0.37	29971/336	✓	✓	✓	✓	✓	✓	✓						2KJ4204 - ■■■■■ - ■■ G1
74.24	20	320	5 780	7.5	0.50	9503/128	✓	✓	✓	✓	✓	✓	✓						2KJ4204 - ■■■■■ - ■■ F1
69.88	21	320	5 780	7.5	0.58	559/8	✓	✓	✓	✓	✓	✓	✓						2KJ4204 - ■■■■■ - ■■ E1
62.61	23	320	5 780	7.5	0.65	27047/432	✓	✓	✓	✓	✓	✓	✓						2KJ4204 - ■■■■■ - ■■ D1
53.30	27	320	5 780	7.5	0.85	5117/96	✓	✓	✓	✓	✓	✓	✓						2KJ4204 - ■■■■■ - ■■ C1
45.69	32	320	5 780	7.6	1.12	731/16			✓	✓	✓	✓	✓						2KJ4204 - ■■■■■ - ■■ B1
39.34	37	320	5 540	7.6	1.43	22661/576			✓	✓	✓	✓	✓						2KJ4204 - ■■■■■ - ■■ A1
Z.49																			
52.14	28	320	5 900	7.0	0.17	4171/80	✓	✓	✓	✓									2KJ4104 - ■■■■■ - ■■ B2
47.40	31	320	5 780	7.0	0.21	4171/88	✓	✓	✓	✓									2KJ4104 - ■■■■■ - ■■ A2
40.31	36	320	5 650	7.1	0.25	645/16	✓	✓	✓	✓									2KJ4104 - ■■■■■ - ■■ X1
36.65	40	320	5 220	7.1	0.31	3225/88	✓	✓	✓	✓									2KJ4104 - ■■■■■ - ■■ W1
32.70	44	320	5 520	7.1	0.36	3139/96	✓	✓	✓	✓	✓	✓							2KJ4104 - ■■■■■ - ■■ V1
29.32	49	320	5 280	7.2	0.43	645/22	✓	✓	✓	✓	✓	✓							2KJ4104 - ■■■■■ - ■■ U1
26.43	55	320	5 060	7.2	0.50	2537/96	✓	✓	✓	✓	✓	✓							2KJ4104 - ■■■■■ - ■■ T1
24.39	59	320	4 890	7.2	0.59	2537/104	✓	✓	✓	✓	✓	✓							2KJ4104 - ■■■■■ - ■■ S1
22.27	65	320	4 710	7.2	0.71	1247/56	✓	✓	✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ R1
18.48	78	320	4 350	7.4	0.90	2365/128	✓	✓	✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ Q1
17.39	83	320	4 230	7.4	1.03	2365/136	✓	✓	✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ P1
16.42	88	320	4 130	7.4	1.17	2365/144	✓	✓	✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ N1
13.98	104	320	3 850	7.5	1.44	559/40	✓	✓	✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ M1
11.97	121	320	3 590	7.5	1.76	2107/176			✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ L1
10.53	138	320	3 390	7.5	2.10	2021/192			✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ K1
8.88	163	320	3 130	7.8	2.70	817/92			✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ J1
7.74	187	320	3 100	8.0	3.60	387/50			✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ H1
7.64	190	295	3 000	11.8	1.18	649/85	✓	✓	✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ G1
7.21	201	290	2 980	11.8	1.34	649/90	✓	✓	✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ F1
6.14	236	265	2 940	12.2	1.67	767/125	✓	✓	✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ E1
5.26	276	245	2 880	12.2	2.10	2891/550			✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ D1
4.62	314	225	2 820	12.2	2.60	2773/600			✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ C1
3.90	372	205	2 740	12.2	3.30	2242/575			✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ B1
3.40	426	191	2 210	12.2	4.40	2124/625			✓	✓	✓	✓	✓						2KJ4104 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.59																			
307.02	4.7	450	7 660	6.8	0.06	66317/216	✓	✓											2KJ4205 - ■■■■■ - ■■ S1
272.99	5.3	450	7 660	6.8	0.07	32759/120	✓	✓	✓	✓									2KJ4205 - ■■■■■ - ■■ R1
239.70	6	450	7 660	6.8	0.08	2397/10	✓	✓	✓	✓									2KJ4205 - ■■■■■ - ■■ Q1
217.91	6.7	450	7 660	6.8	0.10	2397/11	✓	✓	✓	✓									2KJ4205 - ■■■■■ - ■■ P1
186.43	7.8	450	7 660	6.9	0.12	5593/30	✓	✓	✓	✓									2KJ4205 - ■■■■■ - ■■ N1
169.48	8.6	450	7 660	6.9	0.14	5593/33	✓	✓	✓	✓									2KJ4205 - ■■■■■ - ■■ M1
149.81	9.7	450	7 660	6.9	0.17	2397/16	✓	✓	✓	✓	✓	✓							2KJ4205 - ■■■■■ - ■■ L1
136.19	11	450	7 660	6.9	0.22	11985/88	✓	✓	✓	✓	✓	✓							2KJ4205 - ■■■■■ - ■■ K1
119.30	12	450	7 660	6.9	0.26	34357/288	✓	✓	✓	✓	✓	✓							2KJ4205 - ■■■■■ - ■■ J1
110.12	13	450	7 660	6.9	0.31	34357/312	✓	✓	✓	✓	✓	✓							2KJ4205 - ■■■■■ - ■■ H1
97.50	15	450	7 660	6.9	0.37	32759/336	✓	✓	✓	✓	✓	✓	✓						2KJ4205 - ■■■■■ - ■■ G1
81.15	18	450	7 660	7.0	0.50	10387/128	✓	✓	✓	✓	✓	✓	✓						2KJ4205 - ■■■■■ - ■■ F1
76.38	19	450	7 660	7.0	0.59	611/8	✓	✓	✓	✓	✓	✓	✓						2KJ4205 - ■■■■■ - ■■ E1
68.43	21	450	7 660	7.0	0.65	29563/432	✓	✓	✓	✓	✓	✓	✓						2KJ4205 - ■■■■■ - ■■ D1
58.26	25	450	7 660	7.0	0.85	5593/96	✓	✓	✓	✓	✓	✓	✓						2KJ4205 - ■■■■■ - ■■ C1
49.94	29	450	7 660	7.1	1.12	799/16			✓	✓	✓	✓	✓						2KJ4205 - ■■■■■ - ■■ B1
43.00	34	450	7 230	7.1	1.44	24769/576			✓	✓	✓	✓	✓						2KJ4205 - ■■■■■ - ■■ A1
Z.59																			
56.99	25	450	7 660	6.5	0.18	4559/80	✓	✓	✓	✓									2KJ4105 - ■■■■■ - ■■ A2
51.81	28	450	7 660	6.5	0.21	4559/88	✓	✓	✓	✓									2KJ4105 - ■■■■■ - ■■ X1
44.06	33	450	7 310	6.6	0.26	705/16	✓	✓	✓	✓									2KJ4105 - ■■■■■ - ■■ W1
40.06	36	450	7 020	6.6	0.32	3525/88	✓	✓	✓	✓									2KJ4105 - ■■■■■ - ■■ V1
35.74	41	450	6 690	6.6	0.37	3431/96	✓	✓	✓	✓	✓	✓							2KJ4105 - ■■■■■ - ■■ U1
32.05	45	450	6 180	6.7	0.44	705/22	✓	✓	✓	✓	✓	✓							2KJ4105 - ■■■■■ - ■■ T1
28.89	50	450	5 690	6.7	0.52	2773/96	✓	✓	✓	✓	✓	✓							2KJ4105 - ■■■■■ - ■■ S1
26.66	54	450	5 330	6.7	0.62	2773/104	✓	✓	✓	✓	✓	✓							2KJ4105 - ■■■■■ - ■■ R1
24.34	60	450	4 930	6.7	0.73	1363/56	✓	✓	✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ Q1
20.20	72	450	5 230	6.9	0.94	2585/128	✓	✓	✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ P1
19.01	76	450	5 090	6.9	1.08	2585/136	✓	✓	✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ N1
17.95	81	450	4 960	6.9	1.23	2585/144	✓	✓	✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ M1
15.27	95	450	4 600	7.0	1.51	611/40	✓	✓	✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ L1
13.09	111	450	4 280	7.2	1.85	2303/176			✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ K1
11.51	126	450	4 030	7.3	2.30	2209/192			✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ J1
9.71	149	450	3 710	7.5	2.90	893/92			✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ H1
8.46	171	450	3 600	8.0	3.90	423/50			✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ G1
8.07	180	410	3 500	10.6	1.45	121/15	✓	✓	✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ F1
6.86	211	410	3 480	11.0	1.81	858/125	✓	✓	✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ E1
5.88	247	410	3 440	11.3	2.30	147/25			✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ D1
5.17	280	410	2 210	11.6	2.80	517/100			✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ C1
4.36	333	405	2 650	12.0	3.60	2508/575			✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ B1
3.80	382	405	2 920	13.4	4.90	2376/625			✓	✓	✓	✓	✓						2KJ4105 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.69																			
328.49	4.4	600	11 000	6.5	0.06	62084/189	✓	✓											**2KJ4206 - ■■■■■ - ■■ S1**
292.08	5.0	600	11 000	6.5	0.07	30668/105	✓	✓	✓	✓									**2KJ4206 - ■■■■■ - ■■ R1**
256.46	5.7	600	11 000	6.6	0.08	8976/35	✓	✓	✓	✓									**2KJ4206 - ■■■■■ - ■■ Q1**
233.14	6.2	600	11 000	6.6	0.10	1632/7	✓	✓	✓	✓									**2KJ4206 - ■■■■■ - ■■ P1**
199.47	7.3	600	11 000	6.6	0.12	2992/15	✓	✓	✓	✓									**2KJ4206 - ■■■■■ - ■■ N1**
181.33	8	600	11 000	6.6	0.14	544/3	✓	✓	✓	✓									**2KJ4206 - ■■■■■ - ■■ M1**
160.29	9	600	11 000	6.6	0.17	1122/7	✓	✓	✓	✓	✓	✓							**2KJ4206 - ■■■■■ - ■■ L1**
145.71	10	600	11 000	6.6	0.22	1020/7	✓	✓	✓	✓	✓	✓							**2KJ4206 - ■■■■■ - ■■ K1**
127.63	11	600	11 000	6.6	0.26	8041/63	✓	✓	✓	✓	✓	✓							**2KJ4206 - ■■■■■ - ■■ J1**
117.82	12	600	11 000	6.6	0.31	32164/273	✓	✓	✓	✓	✓	✓							**2KJ4206 - ■■■■■ - ■■ H1**
104.31	14	600	11 000	6.6	0.37	15334/147	✓	✓	✓	✓	✓	✓	✓						**2KJ4206 - ■■■■■ - ■■ G1**
86.82	17	600	11 000	6.7	0.50	2431/28	✓	✓	✓	✓	✓	✓	✓						**2KJ4206 - ■■■■■ - ■■ F1**
81.71	18	600	11 000	6.7	0.59	572/7	✓	✓	✓	✓	✓	✓	✓						**2KJ4206 - ■■■■■ - ■■ E1**
73.22	20	600	11 000	6.7	0.66	13838/189	✓	✓	✓	✓	✓	✓	✓						**2KJ4206 - ■■■■■ - ■■ D1**
62.33	23	600	11 000	6.7	0.86	187/3	✓	✓	✓	✓	✓	✓	✓						**2KJ4206 - ■■■■■ - ■■ C1**
53.43	27	600	11 000	6.7	1.14	374/7			✓	✓	✓	✓	✓						**2KJ4206 - ■■■■■ - ■■ B1**
46.01	32	600	11 000	6.7	1.46	5797/126			✓	✓	✓	✓	✓						**2KJ4206 - ■■■■■ - ■■ A1**
Z.69																			
60.97	24	600	11 000	6.2	0.18	2134/35	✓	✓	✓	✓									**2KJ4106 - ■■■■■ - ■■ A2**
55.43	26	600	11 000	6.2	0.22	388/7	✓	✓	✓	✓									**2KJ4106 - ■■■■■ - ■■ X1**
47.14	31	600	11 000	6.3	0.28	330/7	✓	✓	✓	✓									**2KJ4106 - ■■■■■ - ■■ W1**
42.86	34	600	11 000	6.3	0.34	300/7	✓	✓	✓	✓									**2KJ4106 - ■■■■■ - ■■ V1**
38.24	38	600	11 000	6.4	0.39	803/21	✓	✓	✓	✓	✓	✓							**2KJ4106 - ■■■■■ - ■■ U1**
34.29	42	600	11 000	6.4	0.47	240/7	✓	✓	✓	✓	✓	✓							**2KJ4106 - ■■■■■ - ■■ T1**
30.90	47	600	10 400	6.4	0.56	649/21	✓	✓	✓	✓	✓	✓							**2KJ4106 - ■■■■■ - ■■ S1**
28.53	51	600	9 860	6.4	0.66	2596/91	✓	✓	✓	✓	✓	✓							**2KJ4106 - ■■■■■ - ■■ R1**
26.04	56	600	9 200	6.5	0.79	1276/49	✓	✓	✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ Q1**
21.61	67	600	7 910	6.6	1.01	605/28	✓	✓	✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ P1**
20.34	71	600	7 510	6.6	1.16	2420/119	✓	✓	✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ N1**
19.21	75	600	7 140	6.6	1.32	1210/63	✓	✓	✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ M1**
16.34	89	600	9 850	6.7	1.64	572/35	✓	✓	✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ L1**
14.00	104	600	9 260	6.8	2.00	14/1			✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ K1**
12.31	118	600	8 790	7.0	2.50	517/42			✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ J1**
10.39	140	600	8 200	7.1	3.20	1672/161			✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ H1**
9.05	160	591	7 920	7.7	4.30	1584/175			✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ G1**
8.50	171	446	8 000	10.0	1.67	1760/207	✓	✓	✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ F1**
7.23	201	447	7 540	10.3	2.10	832/115	✓	✓	✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ E1**
6.20	234	445	7 290	10.6	2.70	1568/253			✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ D1**
5.45	266	429	7 090	10.9	3.40	376/69			✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ C1**
4.60	315	446	6 810	11.3	4.40	2432/529			✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ B1**
4.01	362	445	5 440	11.6	5.80	2304/575			✓	✓	✓	✓	✓						**2KJ4106 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size											Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.79																			
330.23	4.4	840	13 400	6.1	0.17	369861/1120		✓	✓	✓									2KJ4207 - ■■■■■ - ■■ S1
300.21	4.8	840	13 400	6.1	0.20	369861/1232		✓	✓	✓									2KJ4207 - ■■■■■ - ■■ R1
255.33	5.7	840	13 400	6.2	0.25	57195/224		✓	✓	✓									2KJ4207 - ■■■■■ - ■■ Q1
232.12	6.2	840	13 400	6.2	0.30	285975/1232		✓	✓	✓									2KJ4207 - ■■■■■ - ■■ P1
207.10	7	840	13 400	6.2	0.35	92783/448		✓	✓	✓	✓	✓							2KJ4207 - ■■■■■ - ■■ N1
185.70	7.8	840	13 400	6.2	0.42	57195/308		✓	✓	✓	✓	✓							2KJ4207 - ■■■■■ - ■■ M1
167.39	8.7	840	13 400	6.2	0.49	74989/448		✓	✓	✓	✓	✓							2KJ4207 - ■■■■■ - ■■ L1
154.51	9.4	840	13 400	6.2	0.58	224967/1456		✓	✓	✓	✓	✓							2KJ4207 - ■■■■■ - ■■ K1
141.04	10	840	13 400	6.2	0.69	110577/784		✓	✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ J1
117.03	12	840	13 400	6.2	0.87	209715/1792		✓	✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ H1
110.14	13	840	13 400	6.2	1.00	209715/1904		✓	✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ G1
104.03	14	840	13 400	6.2	1.14	69905/672		✓	✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ F1
88.52	16	840	13 400	6.2	1.39	49569/560		✓	✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ E1
75.83	19	840	13 400	6.2	1.69	26691/352			✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ D1
66.67	22	840	13 400	6.2	2.10	59737/896			✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ C1
56.25	26	840	13 400	6.2	2.60	72447/1288			✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ B1
49.02	30	840	12 600	6.2	3.50	34317/700			✓	✓	✓	✓	✓	✓					2KJ4207 - ■■■■■ - ■■ A1
Z.79																			
54.47	27	840	13 400	6.1	0.43	3813/70		✓	✓	✓									2KJ4107 - ■■■■■ - ■■ A2
49.52	29	840	12 600	6.1	0.53	3813/77		✓	✓	✓									2KJ4107 - ■■■■■ - ■■ X1
44.42	33	840	11 700	6.2	0.73	533/12		✓	✓	✓	✓	✓							2KJ4107 - ■■■■■ - ■■ W1
39.94	36	840	10 900	6.2	0.83	3075/77		✓	✓	✓	✓	✓							2KJ4107 - ■■■■■ - ■■ V1
36.12	40	840	10 100	6.2	0.92	1517/42		✓	✓	✓	✓	✓							2KJ4107 - ■■■■■ - ■■ U1
33.34	43	840	13 400	6.2	1.08	3034/91		✓	✓	✓	✓	✓							2KJ4107 - ■■■■■ - ■■ T1
30.54	47	840	13 400	6.3	1.41	2993/98		✓	✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ S1
25.62	57	840	13 300	6.0	1.52	205/8		✓	✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ R1
24.12	60	840	13 000	6.0	1.73	410/17		✓	✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ Q1
22.13	66	840	12 600	6.1	1.90	1394/63		✓	✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ P1
19.33	75	840	11 900	6.1	2.7	1353/70		✓	✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ N1
17.31	84	840	11 400	6.2	3.3	2665/154			✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ M1
15.13	96	840	10 800	6.3	3.9	1271/84			✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ L1
12.99	112	840	10 100	6.3	4.3	2091/161			✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ K1
11.48	126	840	9 640	6.7	5.5	287/25			✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ J1
9.76	149	815	9 080	6.9	7.0	205/21					✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ H1
8.37	173	790	8 580	7.1	9.3	410/49					✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ G1
8.19	177	715	8 460	9.2	4.0	3965/484			✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ F1
7.16	203	730	8 030	9.4	4.8	1891/264			✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ E1
6.15	236	715	7 850	9.6	5.4	3111/506			✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ D1
5.43	267	685	7 690	10.5	6.9	2989/550			✓	✓	✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ C1
4.62	314	775	7 460	10.9	9.1	305/66					✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ B1
3.96	366	775	3 730	11.3	12.0	305/77					✓	✓	✓	✓					2KJ4107 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.89																			
311.60	4.7	1 680	18 500	5.7	0.41	132432/425			✓	✓									2KJ4208 - ■■■■■ - ■■ S1
283.28	5.1	1 680	18 500	5.7	0.50	264864/935			✓	✓									2KJ4208 - ■■■■■ - ■■ R1
254.09	5.7	1 680	18 500	5.7	0.70	64792/255			✓	✓	✓	✓							2KJ4208 - ■■■■■ - ■■ Q1
228.45	6.3	1 680	18 500	5.7	0.79	42720/187			✓	✓	✓	✓							2KJ4208 - ■■■■■ - ■■ P1
206.62	7	1 680	18 500	5.7	0.87	52688/255			✓	✓	✓	✓							2KJ4208 - ■■■■■ - ■■ N1
190.73	7.6	1 680	18 500	5.7	1.03	210752/1105			✓	✓	✓	✓							2KJ4208 - ■■■■■ - ■■ M1
174.71	8.3	1 680	18 500	5.7	1.35	103952/595			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ L1
146.59	9.9	1 680	18 500	5.7	1.43	2492/17			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ K1
137.97	11	1 680	18 500	5.7	1.63	39872/289			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ J1
126.58	11	1 680	18 500	5.7	1.78	5696/45			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ H1
110.57	13	1 680	18 500	5.7	2.5	46992/425			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ G1
98.99	15	1 680	18 500	5.7	3.1	18512/187			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ F1
86.56	17	1 680	18 500	5.7	3.7	22072/255			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ E1
74.30	20	1 680	18 500	5.7	4.0	8544/115			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ D1
65.67	22	1 680	18 500	5.7	5.0	139552/2125			✓	✓	✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ C1
55.84	26	1 680	18 500	5.7	6.4	2848/51					✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ B1
47.87	30	1 680	18 500	5.7	8.5	5696/119					✓	✓	✓	✓					2KJ4208 - ■■■■■ - ■■ A1
Z.89																			
57.36	25	1 680	18 500	5.4	1.34	2581/45			✓	✓	✓	✓							2KJ4108 - ■■■■■ - ■■ A2
51.78	28	1 680	18 500	5.4	1.46	2848/55			✓	✓	✓	✓							2KJ4108 - ■■■■■ - ■■ X1
46.97	31	1 680	18 500	5.4	1.71	1691/36			✓	✓	✓	✓							2KJ4108 - ■■■■■ - ■■ W1
43.36	33	1 680	18 500	5.4	2.0	1691/39			✓	✓	✓	✓							2KJ4108 - ■■■■■ - ■■ V1
39.41	37	1 680	18 500	5.5	2.3	2759/70			✓	✓	✓	✓	✓	✓					2KJ4108 - ■■■■■ - ■■ U1
33.38	43	1 680	18 500	5.5	2.8	267/8			✓	✓	✓	✓	✓	✓					2KJ4108 - ■■■■■ - ■■ T1
31.41	46	1 680	18 500	5.5	2.8	534/17			✓	✓	✓	✓	✓	✓					2KJ4108 - ■■■■■ - ■■ S1
29.01	50	1 680	18 500	5.6	4.3	3916/135			✓	✓	✓	✓	✓	✓					2KJ4108 - ■■■■■ - ■■ R1
25.81	56	1 680	18 500	5.6	5.3	2581/100			✓	✓	✓	✓	✓	✓					2KJ4108 - ■■■■■ - ■■ Q1
22.92	63	1 680	17 400	5.6	6.4	1513/66			✓	✓	✓	✓	✓	✓					2KJ4108 - ■■■■■ - ■■ P1
20.52	71	1 680	16 000	5.7	6.4	7387/360			✓	✓	✓	✓	✓	✓					2KJ4108 - ■■■■■ - ■■ N1
17.54	83	1 680	14 200	5.7	7.5	6052/345			✓	✓	✓	✓	✓	✓					2KJ4108 - ■■■■■ - ■■ M1
15.66	93	1 680	12 900	6.0	9.5	1958/125			✓	✓	✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ L1
13.84	105	1 680	11 500	6.1	11	623/45					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ K1
12.15	119	1 630	10 700	5.9	15	3827/315					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ J1
10.58	137	1 590	10 700	6.0	19	3649/345					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ H1
9.04	160	1 560	11 900	6.1	24	2848/315					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ G1
7.74	187	1 530	12 700	6.3	30	178/23					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ F1
6.89	210	1 050	10 100	8.6	12	62/9					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ E1
6.05	240	1 060	10 900	8.8	17	2666/441					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ D1
5.26	276	1 060	11 600	9.0	21	2542/483					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ C1
4.50	322	1 060	11 500	9.3	28	1984/441					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ B1
3.85	377	1 060	11 100	9.7	35	620/161					✓	✓	✓	✓	✓				2KJ4108 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.109																			
348.88	4.2	3 100	20 200	5.5	1.27	263755/756				✓	✓	✓							**2KJ4210 - ■■■■■ - ■■ T1**
314.98	4.6	3 100	20 200	5.5	1.36	72760/231				✓	✓	✓							**2KJ4210 - ■■■■■ - ■■ S1**
285.72	5.1	3 100	20 200	5.5	1.60	864025/3024				✓	✓	✓							**2KJ4210 - ■■■■■ - ■■ R1**
263.74	5.5	3 100	20 200	5.5	1.88	864025/3276				✓	✓	✓							**2KJ4210 - ■■■■■ - ■■ Q1**
239.75	6	3 100	20 200	5.5	2.1	281945/1176				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ P1**
203.01	7.1	3 100	20 200	5.5	2.6	45475/224				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ N1**
191.07	7.6	3 100	20 200	5.5	2.6	2675/14				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ M1**
176.45	8.2	3 100	20 200	5.6	4.0	100045/567				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ L1**
157.00	9.2	3 100	20 200	5.6	5.0	52751/336				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ K1**
139.44	10	3 100	20 200	5.6	5.9	773075/5544				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ J1**
124.82	12	3 100	20 200	5.6	5.8	754885/6048				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ H1**
106.70	14	3 100	20 200	5.6	6.7	154615/1449				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ G1**
95.28	15	3 100	20 200	5.6	8.5	20009/210				✓	✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ F1**
84.21	17	3 100	20 200	5.6	9.6	9095/108					✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ E1**
73.90	20	3 100	20 200	5.6	13	391085/5292					✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ D1**
64.34	23	3 100	20 200	5.6	16	372895/5796					✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ C1**
55.00	26	3 090	20 200	5.6	20	72760/1323					✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ B1**
47.08	31	2 930	20 200	5.7	25	45475/966					✓	✓	✓	✓					**2KJ4210 - ■■■■■ - ■■ A1**
Z.109																			
51.17	28	3 100	20 200	5.4	4.7	5015/98				✓	✓	✓	✓	✓					**2KJ4110 - ■■■■■ - ■■ X1**
43.64	33	3 100	20 200	5.4	6.0	9775/224				✓	✓	✓	✓	✓					**2KJ4110 - ■■■■■ - ■■ W1**
41.07	35	3 100	20 200	5.4	6.8	575/14				✓	✓	✓	✓	✓					**2KJ4110 - ■■■■■ - ■■ V1**
38.12	38	3 100	20 200	5.4	7.4	9605/252				✓	✓	✓	✓	✓					**2KJ4110 - ■■■■■ - ■■ U1**
33.70	43	3 100	20 200	5.4	9.0	1887/56				✓	✓	✓	✓	✓					**2KJ4110 - ■■■■■ - ■■ T1**
30.08	48	3 100	20 000	5.5	11	9265/308				✓	✓	✓	✓	✓					**2KJ4110 - ■■■■■ - ■■ S1**
27.07	54	3 040	19 300	5.5	13	9095/336				✓	✓	✓	✓	✓					**2KJ4110 - ■■■■■ - ■■ R1**
23.49	62	2 920	18 400	5.5	15	7565/322				✓	✓	✓	✓	✓					**2KJ4110 - ■■■■■ - ■■ Q1**
21.13	69	2 830	17 900	5.7	18	1479/70				✓	✓	✓	✓	✓	✓				**2KJ4110 - ■■■■■ - ■■ P1**
18.47	79	2 720	17 100	5.8	21	6205/336					✓	✓	✓	✓	✓	✓			**2KJ4110 - ■■■■■ - ■■ N1**
16.48	88	2 630	16 600	5.8	25	1615/98					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ M1**
14.52	100	2 570	15 900	5.9	30	4675/322					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ L1**
12.72	114	2 510	15 100	6.0	37	1870/147					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ K1**
11.09	131	2 460	14 400	6.1	44	255/23					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ J1**
10.12	143	2 430	13 900	6.1	51	425/42					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ H1**
8.71	166	2 380	13 200	6.3	64	2805/322							✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ G1**
8.41	172	2 290	12 800	8.6	29	589/70					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ F1**
7.41	196	2 280	12 300	8.7	34	341/46					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ E1**
6.50	223	2 280	12 300	8.8	42	682/105					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ D1**
5.66	256	2 290	12 200	9.0	51	651/115					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ C1**
5.17	280	2 280	12 200	9.1	60	31/6					✓	✓	✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ B1**
4.45	326	2 150	12 000	9.4	75	1023/230							✓	✓	✓	✓	✓		**2KJ4110 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.129																			
373.00	3.9	5 000	27 000	6.4	3.3	523481/1404				✓	✓	✓							2KJ4211 - ■■■■■ - ■■ S1
344.17	4.2	5 000	27 000	6.4	3.9	523481/1521				✓	✓	✓							2KJ4211 - ■■■■■ - ■■ R1
316.90	4.6	5 000	27 000	6.4	4.5	259541/819				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ Q1
270.24	5.4	5 000	27 000	6.4	5.6	505885/1872				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ P1
254.34	5.7	5 000	27 000	6.4	6.4	505885/1989				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ N1
236.03	6.1	5 000	27 000	6.4	6.9	497087/2106				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ M1
208.67	6.9	5 000	27 000	6.4	8.4	162763/780				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ L1
186.28	7.8	5 000	27 000	6.4	9.9	479491/2574				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ K1
167.63	8.7	5 000	27 000	6.4	12	470693/2808				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ J1
145.49	10	5 000	27 000	6.4	14	391511/2691				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ H1
130.84	11	5 000	27 000	6.4	16	127571/975				✓	✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ G1
114.36	13	5 000	27 000	6.5	19	321127/2808					✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ F1
102.05	14	5 000	27 000	6.5	23	83581/819					✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ E1
89.91	16	5 000	27 000	6.5	27	241945/2691					✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ D1
78.78	18	5 000	27 000	6.5	31	193556/2457					✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ C1
68.66	21	5 000	27 000	6.5	37	61586/897					✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ B1
62.66	23	5 000	27 000	6.5	44	21995/351					✓	✓	✓	✓					2KJ4211 - ■■■■■ - ■■ A1
Z.129																			
62.48	23	5 000	27 000	6.2	7.5	11371/182				✓	✓	✓	✓	✓					2KJ4111 - ■■■■■ - ■■ X1
53.47	27	5 000	27 000	6.2	9.5	5561/104				✓	✓	✓	✓	✓					2KJ4111 - ■■■■■ - ■■ W1
50.33	29	5 000	27 000	6.2	11	11122/221				✓	✓	✓	✓	✓					2KJ4111 - ■■■■■ - ■■ V1
47.18	31	5 000	27 000	6.2	12	11039/234				✓	✓	✓	✓	✓					2KJ4111 - ■■■■■ - ■■ U1
41.82	35	5 000	27 000	6.3	14	10873/260				✓	✓	✓	✓	✓					2KJ4111 - ■■■■■ - ■■ T1
37.15	39	5 000	26 000	6.3	17	5312/143				✓	✓	✓	✓	✓					2KJ4111 - ■■■■■ - ■■ S1
33.52	43	5 000	24 900	6.3	20	1743/52				✓	✓	✓	✓	✓					2KJ4111 - ■■■■■ - ■■ R1
29.70	49	5 000	23 700	6.3	25	8881/299				✓	✓	✓	✓	✓					2KJ4111 - ■■■■■ - ■■ Q1
26.30	55	5 000	22 600	6.4	28	8549/325				✓	✓	✓	✓	✓	✓				2KJ4111 - ■■■■■ - ■■ P1
23.41	62	5 000	21 500	6.4	33	913/39					✓	✓	✓	✓	✓	✓			2KJ4111 - ■■■■■ - ■■ N1
20.98	69	5 000	20 500	6.5	40	1909/91					✓	✓	✓	✓	✓	✓	✓		2KJ4111 - ■■■■■ - ■■ M1
18.60	78	5 000	19 500	6.5	47	5561/299					✓	✓	✓	✓	✓	✓	✓		2KJ4111 - ■■■■■ - ■■ L1
16.42	88	5 000	18 100	6.6	57	1494/91					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ K1
14.43	100	4 940	16 200	6.6	69	332/23					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ J1
13.07	111	4 850	16 600	6.6	78	3569/273					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ H1
11.38	127	4 760	17 200	6.6	95	3403/299							✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ G1
9.33	155	4 660	17 000	6.7	126	1577/169							✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ F1
8.53	170	3 640	16 200	7.4	66	162/19					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ E1
7.50	193	3 630	16 100	8.3	80	3276/437					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ D1
6.79	214	3 630	15 900	8.3	91	129/19					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ C1
5.91	245	3 610	15 700	8.5	112	2583/437							✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ B1
4.85	299	3 270	15 300	8.8	151	63/13							✓	✓	✓	✓	✓	✓	2KJ4111 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.149																			
328.38	4.4	8 000	51 200	5.5	7.1	321813/980					✓	✓	✓	✓					2KJ4212 - ■■■■■ - ■■ W1
281.04	5.2	8 000	51 200	5.5	9	157383/560					✓	✓	✓	✓					2KJ4212 - ■■■■■ - ■■ V1
264.51	5.5	8 000	51 200	5.5	10	157383/595					✓	✓	✓	✓					2KJ4212 - ■■■■■ - ■■ U1
247.95	5.8	8 000	51 200	5.5	11	4959/20					✓	✓	✓	✓					2KJ4212 - ■■■■■ - ■■ T1
219.80	6.6	8 000	51 200	5.5	14	307719/1400					✓	✓	✓	✓					2KJ4212 - ■■■■■ - ■■ S1
195.24	7.4	8 000	51 200	5.5	16	75168/385					✓	✓	✓	✓					2KJ4212 - ■■■■■ - ■■ R1
176.18	8.2	8 000	51 200	5.5	19	7047/40					✓	✓	✓	✓					2KJ4212 - ■■■■■ - ■■ Q1
156.11	9.3	8 000	51 200	5.5	23	251343/1610					✓	✓	✓	✓					2KJ4212 - ■■■■■ - ■■ P1
138.26	10	8 000	51 200	5.5	26	241947/1750					✓	✓	✓	✓	✓				2KJ4212 - ■■■■■ - ■■ N1
123.04	12	8 000	51 200	5.5	31	8613/70					✓	✓	✓	✓	✓	✓			2KJ4212 - ■■■■■ - ■■ M1
110.26	13	8 000	51 200	5.5	37	54027/490					✓	✓	✓	✓	✓	✓	✓		2KJ4212 - ■■■■■ - ■■ L1
97.75	15	8 000	51 200	5.5	43	157383/1610					✓	✓	✓	✓	✓	✓	✓		2KJ4212 - ■■■■■ - ■■ K1
86.29	17	8 000	51 200	5.5	52	21141/245					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ J1
75.87	19	8 000	51 200	5.5	63	61074/805					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ H1
68.71	21	8 000	51 200	5.6	70	33669/490					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ G1
59.82	24	8 000	51 200	5.6	85	96309/1610							✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ F1
49.05	30	8 000	47 700	5.6	110	44631/910							✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ E1
43.51	33	8 000	45 700	5.8	72	55042/1265					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ D1
39.41	37	8 000	44 000	5.8	82	91031/2310					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ C1
34.31	42	8 000	41 800	5.8	101	86797/2530							✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ B1
28.13	52	8 000	38 700	5.9	133	40223/1430							✓	✓	✓	✓	✓	✓	2KJ4212 - ■■■■■ - ■■ A1
Z.149																			
56.64	26	8 000	50 300	5.2	19	4814/85					✓	✓	✓	✓					2KJ4112 - ■■■■■ - ■■ W1
52.84	27	7 710	49 500	5.2	21	2378/45					✓	✓	✓	✓					2KJ4112 - ■■■■■ - ■■ V1
46.98	31	7 570	47 600	5.2	25	2349/50					✓	✓	✓	✓					2KJ4112 - ■■■■■ - ■■ U1
42.18	34	7 660	45 600	5.2	30	464/11					✓	✓	✓	✓					2KJ4112 - ■■■■■ - ■■ T1
38.18	38	7 550	44 100	5.2	35	2291/60					✓	✓	✓	✓					2KJ4112 - ■■■■■ - ■■ S1
33.54	43	8 000	41 400	5.2	43	3857/115					✓	✓	✓	✓					2KJ4112 - ■■■■■ - ■■ R1
30.39	48	8 000	39 900	5.2	50	3799/125					✓	✓	✓	✓	✓				2KJ4112 - ■■■■■ - ■■ Q1
27.07	54	8 000	38 100	5.3	59	406/15					✓	✓	✓	✓	✓	✓			2KJ4112 - ■■■■■ - ■■ P1
24.30	60	8 000	36 600	5.3	70	2552/105					✓	✓	✓	✓	✓	✓	✓		2KJ4112 - ■■■■■ - ■■ N1
21.69	67	8 000	35 000	5.3	81	2494/115					✓	✓	✓	✓	✓	✓	✓		2KJ4112 - ■■■■■ - ■■ M1
19.33	75	8 000	33 400	5.4	96	58/3					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ L1
17.15	85	8 000	31 900	5.4	113	1972/115					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ K1
15.74	92	8 000	30 800	5.4	127	551/35					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ J1
13.87	105	8 000	29 200	5.5	150	319/23							✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ H1
11.38	127	8 000	28 700	5.5	203	1479/130							✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ G1
9.98	145	8 000	28 300	5.6	227	1247/125							✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ F1
7.80	186	8 000	27 500	5.9	360	39/5							✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ E1
7.27	199	4 880	27 500	7.5	173	836/115							✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ D1
5.96	243	4 870	26 600	7.7	237	1938/325							✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ C1
5.23	277	4 870	26 000	7.7	273	3268/625							✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ B1
4.09	355	4 870	24 700	7.7	432	2964/725							✓	✓	✓	✓	✓	✓	2KJ4112 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

3

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.169																			
327.18	4.4	14 000	70 100	5.0	18	472768 / 1445						✓	✓	✓					2KJ4213 - ■■■■■ - ■■ V1
305.28	4.7	14 000	70 100	5.0	19	233536 / 765						✓	✓	✓					2KJ4213 - ■■■■■ - ■■ U1
271.40	5.3	14 000	70 100	5.0	23	115344 / 425						✓	✓	✓					2KJ4213 - ■■■■■ - ■■ T1
243.68	6.0	14 000	70 100	5.0	28	45568 / 187						✓	✓	✓					2KJ4213 - ■■■■■ - ■■ S1
220.58	6.6	14 000	70 100	5.0	33	56248 / 255						✓	✓	✓					2KJ4213 - ■■■■■ - ■■ R1
193.75	7.5	14 000	70 100	5.0	40	378784 / 1955						✓	✓	✓					2KJ4213 - ■■■■■ - ■■ Q1
175.57	8.3	14 000	70 100	5.0	46	373088 / 2125						✓	✓	✓	✓				2KJ4213 - ■■■■■ - ■■ P1
156.36	9.3	14 000	70 100	5.0	54	39872 / 255						✓	✓	✓	✓	✓			2KJ4213 - ■■■■■ - ■■ N1
140.41	10	14 000	70 100	5.0	64	250624 / 1785						✓	✓	✓	✓	✓	✓		2KJ4213 - ■■■■■ - ■■ M1
125.28	12	14 000	70 100	5.0	74	244928 / 1955						✓	✓	✓	✓	✓	✓		2KJ4213 - ■■■■■ - ■■ L1
111.69	13	14 000	70 100	5.0	85	5696 / 51						✓	✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ K1
99.06	15	14 000	70 100	5.0	101	11392 / 115						✓	✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ J1
90.94	16	14 000	70 100	5.0	112	54112 / 595						✓	✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ H1
80.12	18	14 000	70 100	5.0	132	31328 / 391							✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ G1
65.72	22	14 000	70 100	5.1	176	4272 / 65							✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ F1
57.63	25	14 000	70 100	5.1	193	122464 / 2125							✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ E1
45.06	32	14 000	70 100	5.1	301	111072 / 2465							✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ D1
41.43	35	14 000	70 100	5.2	200	134657 / 3250							✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ C1
36.33	40	14 000	70 500	5.2	225	340603 / 9375							✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ B1
28.41	51	14 000	69 200	5.3	353	102973 / 3625							✓	✓	✓	✓	✓	✓	2KJ4213 - ■■■■■ - ■■ A1
Z.169																			
36.55	40	12 100	70 800	4.7	79	13706/375						✓	✓	✓	✓				2KJ4113 - ■■■■■ - ■■ Q1
32.88	44	14 000	68 200	4.7	94	11837/360						✓	✓	✓	✓	✓			2KJ4113 - ■■■■■ - ■■ P1
29.38	49	14 000	65 300	4.8	109	9256/315						✓	✓	✓	✓	✓	✓		2KJ4113 - ■■■■■ - ■■ N1
26.57	55	14 000	62 900	4.8	131	9167/345						✓	✓	✓	✓	✓	✓		2KJ4113 - ■■■■■ - ■■ M1
23.45	62	14 000	60 200	4.8	154	7387/315						✓	✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ L1
20.90	69	14 000	59 400	4.8	183	2403/115						✓	✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ K1
18.93	77	14 000	58 600	4.8	203	5963/315						✓	✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ J1
17.03	85	14 000	57 800	4.8	245	1958/115							✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ H1
14.15	102	14 000	56 100	4.8	308	2759/195							✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ G1
12.58	115	13 900	54 900	4.8	377	4717/375							✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ F1
10.03	145	13 900	52 600	5.1	521	4361/435							✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ E1
7.98	182	13 800	50 100	5.3	689	1157/145									✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ D1
7.37	197	7 960	49 100	7.0	409	848/115							✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ C1
5.88	247	7 900	46 700	7.1	571	3920/667							✓	✓	✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ B1
4.68	310	7 820	44 200	7.3	768	3120/667									✓	✓	✓	✓	2KJ4113 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
D.189																			
313.63	4.6	19 000	107 000	4.7	36	533169/1700						✓	✓	✓					2KJ4214 - ■■■■■ - ■■ T1
280.59	5.2	19 000	107 000	4.7	43	262353/935						✓	✓	✓					2KJ4214 - ■■■■■ - ■■ S1
253.06	5.7	19 000	107 000	4.7	49	172081/680						✓	✓	✓					2KJ4214 - ■■■■■ - ■■ R1
223.66	6.5	19 000	107 000	4.7	61	87451/391						✓	✓	✓					2KJ4214 - ■■■■■ - ■■ Q1
204.44	7.1	19 000	107 000	4.7	71	434434/2125						✓	✓	✓	✓				2KJ4214 - ■■■■■ - ■■ P1
183.92	7.9	19 000	107 000	4.7	84	375193/2040						✓	✓	✓	✓	✓			2KJ4214 - ■■■■■ - ■■ N1
164.36	8.8	19 000	107 000	4.7	98	41912/255						✓	✓	✓	✓	✓	✓		2KJ4214 - ■■■■■ - ■■ M1
148.63	9.8	19 000	107 000	4.7	116	290563/1955						✓	✓	✓	✓	✓	✓		2KJ4214 - ■■■■■ - ■■ L1
131.17	11	19 000	107 000	4.7	136	33449/255						✓	✓	✓	✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ K1
116.88	12	19 000	107 000	4.7	160	228501/1955						✓	✓	✓	✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ J1
105.89	14	19 000	107 000	4.7	175	27001/255						✓	✓	✓	✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ H1
95.24	15	19 000	107 000	4.7	210	186186/1955							✓	✓	✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ G1
79.14	18	19 000	107 000	4.7	257	6727/85							✓	✓	✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ F1
70.36	21	19 000	107 000	4.7	314	149513/2125							✓	✓	✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ E1
56.08	26	19 000	107 000	4.7	421	138229/2465							✓	✓	✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ D1
44.63	32	19 000	107 000	4.8	531	110019/2465									✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ C1
36.67	40	19 000	104 200	4.8	475	10633/290							✓	✓	✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ B1
29.18	50	19 000	97 800	4.8	617	8463/290									✓	✓	✓	✓	2KJ4214 - ■■■■■ - ■■ A1
Z.189																			
34.25	42	19 000	101 700	4.5	140	3596/105						✓	✓	✓	✓	✓	✓		2KJ4114 - ■■■■■ - ■■ L1
30.73	47	19 000	97 900	4.5	166	3534/115						✓	✓	✓	✓	✓	✓		2KJ4114 - ■■■■■ - ■■ K1
27.46	53	19 000	94 100	4.6	199	961/35						✓	✓	✓	✓	✓	✓	✓	2KJ4114 - ■■■■■ - ■■ J1
24.53	59	19 000	90 400	4.6	236	2821/115						✓	✓	✓	✓	✓	✓	✓	2KJ4114 - ■■■■■ - ■■ H1
22.44	65	19 000	87 500	4.6	262	2356/105						✓	✓	✓	✓	✓	✓	✓	2KJ4114 - ■■■■■ - ■■ G1
19.95	73	19 000	83 900	4.6	314	2294/115							✓	✓	✓	✓	✓	✓	2KJ4114 - ■■■■■ - ■■ F1
16.93	86	19 000	79 000	4.6	400	2201/130							✓	✓	✓	✓	✓	✓	2KJ4114 - ■■■■■ - ■■ E1
14.63	99	19 000	74 900	4.7	481	1829/125							✓	✓	✓	✓	✓	✓	2KJ4114 - ■■■■■ - ■■ D1
11.97	121	19 000	72 500	4.8	666	1736/145							✓	✓	✓	✓	✓	✓	2KJ4114 - ■■■■■ - ■■ C1
9.83	148	18 800	70 100	4.8	875	1426/145									✓	✓	✓	✓	2KJ4114 - ■■■■■ - ■■ B1
7.65	190	16 000	66 800	4.8	1 283	1147/150												✓	2KJ4114 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Transmission ratios and torques for high speeds

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
E.39																			
9.22	157	30	3 000	-	0.001	83/9	✓	✓											2KJ4001 - ■■■■■ - ■■ S1
8.20	177	34	3 000	-	0.001	41/5	✓	✓	✓	✓									2KJ4001 - ■■■■■ - ■■ R1
7.20	201	40	3 000	-	0.003	36/5	✓	✓	✓	✓									2KJ4001 - ■■■■■ - ■■ Q1
6.55	221	40	3 000	-	0.004	72/11	✓	✓	✓	✓									2KJ4001 - ■■■■■ - ■■ P1
5.60	259	40	3 000	-	0.007	28/5	✓	✓	✓	✓									2KJ4001 - ■■■■■ - ■■ N1
5.09	285	40	3 000	-	0.01	56/11	✓	✓	✓	✓									2KJ4001 - ■■■■■ - ■■ M1
4.50	322	48	3 000	-	0.02	9/2	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ L1
4.09	355	48	3 000	-	0.02	45/11	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ K1
3.58	405	58	2 550	-	0.03	43/12	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ J1
3.31	438	58	2 400	-	0.05	43/13	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ H1
2.93	495	65	1 620	-	0.07	41/14	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ G1
2.44	594	65	1 200	-	0.13	39/16	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ F1
2.29	633	66	1 330	-	0.16	39/17	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ E1
2.06	704	66	1 370	-	0.19	37/18	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ D1
1.75	829	66	1 490	-	0.29	7/4	✓	✓	✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ C1
1.50	967	61	1 560	-	0.45	3/2			✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ B1
1.29	1 124	54	1 600	-	0.64	31/24			✓	✓	✓	✓							2KJ4001 - ■■■■■ - ■■ A1
E.49																			
9.70	149	86	4 000	-	0.003	97/10	✓	✓	✓	✓									2KJ4002 - ■■■■■ - ■■ S1
8.82	164	108	4 000	-	0.004	97/11	✓	✓	✓	✓									2KJ4002 - ■■■■■ - ■■ R1
7.50	193	107	4 000	-	0.007	15/2	✓	✓	✓	✓									2KJ4002 - ■■■■■ - ■■ Q1
6.82	213	104	4 000	-	0.01	75/11	✓	✓	✓	✓									2KJ4002 - ■■■■■ - ■■ P1
6.08	238	104	4 000	-	0.02	73/12	✓	✓	✓	✓	✓	✓							2KJ4002 - ■■■■■ - ■■ N1
5.45	266	103	4 000	-	0.02	60/11	✓	✓	✓	✓	✓	✓							2KJ4002 - ■■■■■ - ■■ M1
4.92	295	102	4 000	-	0.03	59/12	✓	✓	✓	✓	✓	✓							2KJ4002 - ■■■■■ - ■■ L1
4.54	319	102	4 000	-	0.05	59/13	✓	✓	✓	✓	✓	✓							2KJ4002 - ■■■■■ - ■■ K1
4.14	350	102	4 000	-	0.09	29/7	✓	✓	✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ J1
3.44	422	101	3 510	-	0.15	55/16	✓	✓	✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ H1
3.24	448	101	3 350	-	0.19	55/17	✓	✓	✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ G1
3.06	474	101	3 200	-	0.23	55/18	✓	✓	✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ F1
2.60	558	102	2 540	-	0.36	13/5	✓	✓	✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ E1
2.23	650	102	1 930	-	0.55	49/22			✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ D1
1.96	740	103	1 420	-	0.78	47/24			✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ C1
1.65	879	103	975	-	1.1	38/23			✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ B1
1.44	1 007	102	1 140	-	1.81	36/25			✓	✓	✓	✓	✓						2KJ4002 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
E.69																			
9.30	156	120	6 100	-	0.007	93/10		✓	✓	✓									2KJ4003 - ■■■■■ - ■■ S1
8.45	172	105	6 100	-	0.01	93/11		✓	✓	✓									2KJ4003 - ■■■■■ - ■■ R1
7.58	191	205	6 100	-	0.02	91/12		✓	✓	✓	✓	✓							2KJ4003 - ■■■■■ - ■■ Q1
6.82	213	170	6 100	-	0.02	75/11		✓	✓	✓	✓	✓							2KJ4003 - ■■■■■ - ■■ P1
6.17	235	205	6 100	-	0.03	37/6		✓	✓	✓	✓	✓							2KJ4003 - ■■■■■ - ■■ N1
5.69	255	165	6 100	-	0.05	74/13		✓	✓	✓	✓	✓							2KJ4003 - ■■■■■ - ■■ M1
5.21	278	200	6 100	-	0.09	73/14		✓	✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ L1
4.38	331	200	6 100	-	0.15	35/8		✓	✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ K1
4.12	352	165	6 100	-	0.19	70/17		✓	✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ J1
3.78	384	200	6 100	-	0.23	34/9		✓	✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ H1
3.30	439	200	6 100	-	0.36	33/10		✓	✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ G1
2.95	492	200	5 680	-	0.55	65/22			✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ F1
2.58	562	197	5 120	-	0.78	31/12			✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ E1
2.22	653	196	4 500	-	1.10	51/23			✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ D1
1.96	740	196	4 050	-	1.81	49/25			✓	✓	✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ C1
1.67	868	196	4 130	-	2.6	5/3					✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ B1
1.43	1 014	195	4 170	-	3.7	10/7					✓	✓	✓	✓					2KJ4003 - ■■■■■ - ■■ A1
E.89																			
9.67	150	280	8 000	-	0.02	29/3			✓	✓	✓	✓							2KJ4004 - ■■■■■ - ■■ T1
8.73	166	280	8 000	-	0.02	96/11			✓	✓	✓	✓							2KJ4004 - ■■■■■ - ■■ S1
7.92	183	280	8 000	-	0.03	95/12			✓	✓	✓	✓							2KJ4004 - ■■■■■ - ■■ R1
7.31	198	260	8 000	-	0.05	95/13			✓	✓	✓	✓							2KJ4004 - ■■■■■ - ■■ Q1
6.64	218	260	8 000	-	0.09	93/14			✓	✓	✓	✓	✓	✓					2KJ4004 - ■■■■■ - ■■ P1
5.62	258	320	8 000	-	0.15	45/8			✓	✓	✓	✓	✓	✓					2KJ4004 - ■■■■■ - ■■ N1
5.29	274	210	8 000	-	0.19	90/17			✓	✓	✓	✓	✓	✓					2KJ4004 - ■■■■■ - ■■ M1
4.89	297	360	8 000	-	0.23	44/9			✓	✓	✓	✓	✓	✓					2KJ4004 - ■■■■■ - ■■ L1
4.35	333	360	8 000	-	0.36	87/20			✓	✓	✓	✓	✓	✓					2KJ4004 - ■■■■■ - ■■ K1
3.86	376	360	7 520	-	0.55	85/22			✓	✓	✓	✓	✓	✓					2KJ4004 - ■■■■■ - ■■ J1
3.46	419	365	6 830	-	0.78	83/24			✓	✓	✓	✓	✓	✓					2KJ4004 - ■■■■■ - ■■ H1
2.96	490	360	6 030	-	1.1	68/23			✓	✓	✓	✓	✓	✓					2KJ4004 - ■■■■■ - ■■ G1
2.64	549	360	5 410	-	1.81	66/25			✓	✓	✓	✓	✓	✓	✓				2KJ4004 - ■■■■■ - ■■ F1
2.33	622	360	5 260	-	2.6	7/3					✓	✓	✓	✓	✓				2KJ4004 - ■■■■■ - ■■ E1
2.05	707	360	5 430	-	3.7	43/21					✓	✓	✓	✓	✓				2KJ4004 - ■■■■■ - ■■ D1
1.78	815	365	5 550	-	5.4	41/23					✓	✓	✓	✓	✓				2KJ4004 - ■■■■■ - ■■ C1
1.52	954	360	5 580	-	7.6	32/21					✓	✓	✓	✓	✓				2KJ4004 - ■■■■■ - ■■ B1
1.3	1 115	360	5 580	-	11	30/23					✓	✓	✓	✓	✓				2KJ4004 - ■■■■■ - ■■ A1
E.109																			
7.19	202	565	10 500	-	0.15	115/16				✓	✓	✓	✓	✓					2KJ4005 - ■■■■■ - ■■ Q1
6.76	214	565	10 500	-	0.19	115/17				✓	✓	✓	✓	✓					2KJ4005 - ■■■■■ - ■■ P1
6.28	231	565	10 500	-	0.23	113/18				✓	✓	✓	✓	✓					2KJ4005 - ■■■■■ - ■■ N1
5.55	261	560	10 500	-	0.36	111/20				✓	✓	✓	✓	✓					2KJ4005 - ■■■■■ - ■■ M1
4.95	293	560	10 500	-	0.55	109/22				✓	✓	✓	✓	✓					2KJ4005 - ■■■■■ - ■■ L1
4.46	325	560	10 500	-	0.78	107/24				✓	✓	✓	✓	✓					2KJ4005 - ■■■■■ - ■■ K1
3.87	375	555	10 000	-	1.10	89/23				✓	✓	✓	✓	✓					2KJ4005 - ■■■■■ - ■■ J1
3.48	417	550	9 390	-	1.81	87/25				✓	✓	✓	✓	✓	✓				2KJ4005 - ■■■■■ - ■■ H1
3.04	477	545	8 440	-	2.6	73/24					✓	✓	✓	✓	✓	✓			2KJ4005 - ■■■■■ - ■■ G1
2.71	535	545	7 670	-	3.7	19/7					✓	✓	✓	✓	✓	✓	✓		2KJ4005 - ■■■■■ - ■■ F1
2.39	607	540	6 850	-	5.4	55/23					✓	✓	✓	✓	✓	✓	✓		2KJ4005 - ■■■■■ - ■■ E1
2.10	690	535	5 980	-	7.8	44/21					✓	✓	✓	✓	✓	✓	✓		2KJ4005 - ■■■■■ - ■■ D1
1.83	792	530	5 060	-	11	42/23					✓	✓	✓	✓	✓	✓	✓		2KJ4005 - ■■■■■ - ■■ C1
1.67	868	530	5 170	-	14	5/3					✓	✓	✓	✓	✓	✓	✓		2KJ4005 - ■■■■■ - ■■ B1
1.43	1 014	465	5 420	-	21	33/23							✓	✓	✓	✓	✓		2KJ4005 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
E.129																			
9.79	148	665	13 500	-	0.09	137/14				✓	✓	✓	✓	✓					2KJ4006 - ■■■■■ - ■■ T1
8.38	173	665	13 500	-	0.15	67/8				✓	✓	✓	✓	✓					2KJ4006 - ■■■■■ - ■■ S1
7.88	184	665	13 500	-	0.19	134/17				✓	✓	✓	✓	✓					2KJ4006 - ■■■■■ - ■■ R1
7.39	196	800	13 500	-	0.23	133/18				✓	✓	✓	✓	✓					2KJ4006 - ■■■■■ - ■■ Q1
6.55	221	800	13 100	-	0.36	131/20				✓	✓	✓	✓	✓					2KJ4006 - ■■■■■ - ■■ P1
5.82	249	800	12 500	-	0.55	64/11				✓	✓	✓	✓	✓					2KJ4006 - ■■■■■ - ■■ N1
5.25	276	795	12 000	-	0.78	21/4				✓	✓	✓	✓	✓					2KJ4006 - ■■■■■ - ■■ M1
4.65	312	795	11 100	-	1.10	107/23				✓	✓	✓	✓	✓					2KJ4006 - ■■■■■ - ■■ L1
4.12	352	785	10 200	-	1.81	103/25				✓	✓	✓	✓	✓	✓				2KJ4006 - ■■■■■ - ■■ K1
3.67	395	780	9 380	-	2.6	11/3					✓	✓	✓	✓	✓	✓			2KJ4006 - ■■■■■ - ■■ J1
3.29	441	780	8 570	-	3.7	23/7					✓	✓	✓	✓	✓	✓	✓		2KJ4006 - ■■■■■ - ■■ H1
2.91	498	770	7 780	-	5.4	67/23					✓	✓	✓	✓	✓	✓	✓		2KJ4006 - ■■■■■ - ■■ G1
2.57	564	765	6 880	-	9.5	18/7					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4006 - ■■■■■ - ■■ F1
2.26	642	760	5 930	-	14	52/23					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4006 - ■■■■■ - ■■ E1
2.05	707	765	5 450	-	18	43/21					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4006 - ■■■■■ - ■■ D1
1.78	815	760	5 830	-	25	41/23							✓	✓	✓	✓	✓	✓	2KJ4006 - ■■■■■ - ■■ C1
1.46	993	755	6 190	-	40	19/13							✓	✓	✓	✓	✓	✓	2KJ4006 - ■■■■■ - ■■ B1
1.24	1 169	745	6 350	-	66	31/25							✓	✓	✓	✓	✓	✓	2KJ4006 - ■■■■■ - ■■ A1
E.149																			
9.76	149	1 200	16 000	-	0.17	166/17					✓	✓	✓	✓					2KJ4007 - ■■■■■ - ■■ S1
9.11	159	1 260	16 000	-	0.22	82/9					✓	✓	✓	✓					2KJ4007 - ■■■■■ - ■■ R1
8.10	179	1 330	15 200	-	0.33	81/10					✓	✓	✓	✓					2KJ4007 - ■■■■■ - ■■ Q1
7.27	199	1 350	14 300	-	0.5	80/11					✓	✓	✓	✓					2KJ4007 - ■■■■■ - ■■ P1
6.58	220	1 330	13 500	-	0.69	79/12					✓	✓	✓	✓					2KJ4007 - ■■■■■ - ■■ N1
5.78	251	1 490	10 800	-	1.08	133/23					✓	✓	✓	✓					2KJ4007 - ■■■■■ - ■■ M1
5.24	277	1 490	9 900	-	1.58	131/25					✓	✓	✓	✓	✓				2KJ4007 - ■■■■■ - ■■ L1
4.67	310	1 480	8 900	-	2.3	14/3					✓	✓	✓	✓	✓	✓			2KJ4007 - ■■■■■ - ■■ K1
4.19	346	1 480	7 940	-	4.0	88/21					✓	✓	✓	✓	✓	✓	✓		2KJ4007 - ■■■■■ - ■■ J1
3.74	388	1 480	6 890	-	4.6	86/23					✓	✓	✓	✓	✓	✓	✓		2KJ4007 - ■■■■■ - ■■ H1
3.33	435	1 480	5 850	-	6.7	10/3					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4007 - ■■■■■ - ■■ G1
2.96	490	1 460	4 950	-	9.6	68/23					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4007 - ■■■■■ - ■■ F1
2.71	535	1 460	4 140	-	12	19/7					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4007 - ■■■■■ - ■■ E1
2.39	607	1 460	3 530	-	18	55/23							✓	✓	✓	✓	✓	✓	2KJ4007 - ■■■■■ - ■■ D1
1.96	740	1 470	4 840	-	9.6	51/26							✓	✓	✓	✓	✓	✓	2KJ4007 - ■■■■■ - ■■ C1
1.72	843	1 460	5 130	-	42	43/25							✓	✓	✓	✓	✓	✓	2KJ4007 - ■■■■■ - ■■ B1
1.34	1 082	1 280	5 810	-	119	39/29							✓	✓	✓	✓	✓	✓	2KJ4007 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.29-Z19															
8 025	0.18	140	3 710	-	0.08	1966032/245	✓	✓							**2KJ4221 - ■■■■■ - ■■ C1**
7 183	0.20	140	3 710	-	0.11	251652096/35035	✓	✓							**2KJ4221 - ■■■■■ - ■■ B1**
6 379	0.23	140	3 710	-	0.13	20315664/3185	✓	✓							**2KJ4221 - ■■■■■ - ■■ A1**
Z.29-D19															
5 890	0.25	140	3 710	-	0.02	13399254/2275	✓	✓							**2KJ4121 - ■■■■■ - ■■ P1**
5 215	0.28	140	3 710	-	0.03	118648233/22750	✓	✓							**2KJ4121 - ■■■■■ - ■■ N1**
4 531	0.32	140	3 710	-	0.04	103087809/22750	✓	✓							**2KJ4121 - ■■■■■ - ■■ M1**
4 119	0.35	140	3 710	-	0.04	9371619/2275	✓	✓							**2KJ4121 - ■■■■■ - ■■ L1**
3 505	0.41	140	3 710	-	0.06	79747173/22750	✓	✓							**2KJ4121 - ■■■■■ - ■■ K1**
3 187	0.45	140	3 710	-	0.07	7249743/2275	✓	✓							**2KJ4121 - ■■■■■ - ■■ J1**
2 779	0.52	140	3 710	-	0.08	1945053/700	✓	✓							**2KJ4121 - ■■■■■ - ■■ H1**
2 487	0.58	140	3 710	-	0.11	5658336/2275	✓	✓							**2KJ4121 - ■■■■■ - ■■ G1**
2 209	0.66	140	3 710	-	0.13	20098881/9100	✓	✓							**2KJ4121 - ■■■■■ - ■■ F1**
2 039	0.71	140	3 710	-	0.16	60296643/29575	✓	✓							**2KJ4121 - ■■■■■ - ■■ E1**
1 771	0.82	140	3 710	-	0.17	56406537/31850	✓	✓							**2KJ4121 - ■■■■■ - ■■ D1**
1 539	0.94	140	3 710	-	0.18	17505477/11375	✓	✓							**2KJ4121 - ■■■■■ - ■■ C1**
1 389	1.0	140	3 710	-	0.22	1945053/1400	✓	✓							**2KJ4121 - ■■■■■ - ■■ B1**
1 308	1.1	140	3 710	-	0.26	3890106/2975	✓	✓							**2KJ4121 - ■■■■■ - ■■ A1**
Z.29-Z19															
1 114	1.3	140	3 710	-	0.02	362142/325	✓	✓							**2KJ4120 - ■■■■■ - ■■ P1**
987	1.5	140	3 710	-	0.03	3206709/3250	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ N1**
857	1.7	140	3 710	-	0.04	2786157/3250	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ M1**
779	1.9	140	3 710	-	0.05	253287/325	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ L1**
663	2.2	140	3 710	-	0.07	2155329/3250	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ K1**
603	2.4	140	3 710	-	0.08	195939/325	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ J1**
526	2.8	140	3 710	-	0.09	52569/100	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ H1**
471	3.1	140	3 710	-	0.12	152928/325	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ G1**
418	3.5	140	3 710	-	0.15	543213/1300	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ F1**
386	3.8	140	3 710	-	0.18	1629639/4225	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ E1**
335.06	4.3	140	3 710	-	0.20	1524501/4550	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ D1**
291.15	5.0	140	3 710	-	0.21	473121/1625	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ C1**
262.85	5.5	140	3 710	-	0.27	52569/200	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ B1**
247.38	5.9	140	3 710	-	0.32	105138/425	✓	✓	✓						**2KJ4120 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

3

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.39-D19															
8 760	0.17	200	4 370	-	0.08	744588/85	✓	✓							**2KJ4223 - ■■■■■ - ■■ A1**
Z.39-D19															
8 075	0.18	200	4 370	-	0.02	201872/25	✓	✓							**2KJ4123 - ■■■■■ - ■■ P1**
7 150	0.2	200	4 370	-	0.03	893772/125	✓	✓							**2KJ4123 - ■■■■■ - ■■ N1**
6 212	0.23	200	4 370	-	0.04	776556/125	✓	✓							**2KJ4123 - ■■■■■ - ■■ M1**
5 648	0.26	200	4 370	-	0.04	141192/25	✓	✓							**2KJ4123 - ■■■■■ - ■■ L1**
4 806	0.3	200	4 370	-	0.06	600732/125	✓	✓							**2KJ4123 - ■■■■■ - ■■ K1**
4 369	0.33	200	4 370	-	0.07	109224/25	✓	✓							**2KJ4123 - ■■■■■ - ■■ J1**
3 810	0.38	200	4 370	-	0.08	95238/25	✓	✓							**2KJ4123 - ■■■■■ - ■■ H1**
3 410	0.43	200	4 370	-	0.11	85248/25	✓	✓							**2KJ4123 - ■■■■■ - ■■ G1**
3 028	0.48	200	4 370	-	0.13	75702/25	✓	✓							**2KJ4123 - ■■■■■ - ■■ F1**
2 795	0.52	200	4 370	-	0.16	908424/325	✓	✓							**2KJ4123 - ■■■■■ - ■■ E1**
2 428	0.6	200	4 370	-	0.17	424908/175	✓	✓							**2KJ4123 - ■■■■■ - ■■ D1**
2 110	0.69	200	4 370	-	0.18	263736/125	✓	✓							**2KJ4123 - ■■■■■ - ■■ C1**
1 905	0.76	200	4 370	-	0.22	47619/25	✓	✓							**2KJ4123 - ■■■■■ - ■■ B1**
1 793	0.81	200	4 370	-	0.26	761904/425	✓	✓							**2KJ4123 - ■■■■■ - ■■ A1**
Z.39-Z19															
1 528	0.95	200	4 370	-	0.02	38192/25	✓	✓							**2KJ4122 - ■■■■■ - ■■ S1**
1 353	1.1	200	4 370	-	0.03	169092/125	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ R1**
1 175	1.2	200	4 370	-	0.04	146916/125	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ Q1**
1 068	1.4	200	4 370	-	0.05	26712/25	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ P1**
909	1.6	200	4 370	-	0.07	113652/125	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ N1**
827	1.8	200	4 370	-	0.08	20664/25	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ M1**
721	2.0	200	4 370	-	0.09	18018/25	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ L1**
645	2.2	200	4 370	-	0.12	16128/25	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ K1**
573	2.5	200	4 370	-	0.15	14322/25	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ J1**
529	2.7	200	4 370	-	0.18	171864/325	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ H1**
459	3.2	200	4 370	-	0.20	11484/25	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ G1**
399	3.6	200	4 370	-	0.21	49896/125	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ F1**
360	4.0	200	4 370	-	0.27	9009/25	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ E1**
339.16	4.3	200	4 370	-	0.32	144144/425	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ D1**
295.68	4.9	200	4 370	-	0.36	7392/25	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ C1**
272.80	5.3	200	4 370	-	0.19	1364/5	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ B1**
236.97	6.1	200	4 370	-	0.22	8294/35	✓	✓	✓						**2KJ4122 - ■■■■■ - ■■ A1**

1) Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.49-D19															
13 709	0.11	320	5 780	-	0.06	9980343/728	✓	✓							2KJ4225 - ■■■■■ - ■■ D1
12 463	0.12	320	5 780	-	0.07	49901715/4004	✓	✓							2KJ4225 - ■■■■■ - ■■ C1
10 867	0.13	320	5 780	-	0.08	1217115/112	✓	✓							2KJ4225 - ■■■■■ - ■■ B1
9 727	0.15	320	5 780	-	0.11	9736920/1001	✓	✓							2KJ4225 - ■■■■■ - ■■ A1
Z.49-D19															
9 638	0.15	320	5 900	-	0.02	52625507/5460	✓	✓							2KJ4125 - ■■■■■ - ■■ P1
8 535	0.17	320	5 900	-	0.03	310660251/36400	✓	✓							2KJ4125 - ■■■■■ - ■■ N1
7 415	0.20	320	5 900	-	0.04	269917923/36400	✓	✓							2KJ4125 - ■■■■■ - ■■ M1
6 741	0.22	320	5 900	-	0.04	24537993/3640	✓	✓							2KJ4125 - ■■■■■ - ■■ L1
5 736	0.25	320	5 900	-	0.06	208804431/36400	✓	✓							2KJ4125 - ■■■■■ - ■■ K1
5 215	0.28	320	5 900	-	0.07	18982221/3640	✓	✓							2KJ4125 - ■■■■■ - ■■ J1
4 547	0.32	320	5 900	-	0.08	5092791/1120	✓	✓							2KJ4125 - ■■■■■ - ■■ H1
4 070	0.36	320	5 900	-	0.11	1851924/455	✓	✓							2KJ4125 - ■■■■■ - ■■ G1
3 614	0.40	320	5 900	-	0.13	52625507/14560	✓	✓							2KJ4125 - ■■■■■ - ■■ F1
3 336	0.43	320	5 900	-	0.16	157876521/47320	✓	✓							2KJ4125 - ■■■■■ - ■■ E1
2 898	0.50	320	5 900	-	0.17	147690939/50960	✓	✓							2KJ4125 - ■■■■■ - ■■ D1
2 518	0.58	320	5 900	-	0.18	45835119/18200	✓	✓							2KJ4125 - ■■■■■ - ■■ C1
2 274	0.64	320	5 900	-	0.22	5092791/2240	✓	✓							2KJ4125 - ■■■■■ - ■■ B1
2 140	0.68	320	5 900	-	0.26	5092791/2380	✓	✓							2KJ4125 - ■■■■■ - ■■ A1
Z.49-Z19															
1 823	0.80	320	5 900	-	0.02	1422311/780	✓	✓							2KJ4124 - ■■■■■ - ■■ S1
1 615	0.90	320	5 900	-	0.03	8396223/5200	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ R1
1 403	1.0	320	5 900	-	0.04	7295079/5200	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ Q1
1 275	1.1	320	5 900	-	0.05	663189/520	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ P1
1 085	1.3	320	5 900	-	0.07	5643363/5200	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ N1
987	1.5	320	5 900	-	0.08	513033/520	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ M1
860	1.7	320	5 900	-	0.09	137643/160	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ L1
770	1.9	320	5 900	-	0.12	50052/65	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ K1
684	2.1	320	5 900	-	0.15	1422311/2080	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ J1
631	2.3	320	5 900	-	0.18	4266933/6760	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ H1
548	2.6	320	5 900	-	0.20	3991647/7280	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ G1
476	3.0	320	5 900	-	0.21	1238787/2600	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ F1
430	3.4	320	5 900	-	0.27	137643/320	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ E1
405	3.6	320	5 900	-	0.32	137643/340	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ D1
353	4.1	320	5 900	-	0.36	45881/130	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ C1
325.62	4.5	320	5 900	-	0.19	1422311/4368	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ B1
282.85	5.1	320	5 900	-	0.22	1330549/4704	✓	✓	✓						2KJ4124 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.59-D19															
14 985	0.10	450	7 660	-	0.06	10908747/728	✓	✓							2KJ4227 - ■■■■■ - ■■ D1
13 622	0.11	450	7 660	-	0.07	54543735/4004	✓	✓							2KJ4227 - ■■■■■ - ■■ C1
11 878	0.12	450	7 660	-	0.08	1330335/112	✓	✓							2KJ4227 - ■■■■■ - ■■ B1
10 632	0.14	450	7 660	-	0.11	10642680/1001	✓	✓							2KJ4227 - ■■■■■ - ■■ A1
D.59-Z19															
739	2.0	450	7 660	-	0.22	579275/784	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ J1
642	2.3	450	7 660	-	0.23	35955/56	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ H1
580	2.5	450	7 660	-	0.30	259675/448	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ G1
546	2.7	450	7 660	-	0.35	15275/28	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ F1
507	2.9	450	7 660	-	0.20	1362295/2688	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ E1
440	3.3	450	7 660	-	0.23	16567265/37632	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ D1
383	3.8	450	7 660	-	0.24	342771/896	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ C1
345.36	4.2	450	7 660	-	0.31	7426705/21504	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ B1
325.05	4.5	450	7 660	-	0.37	436865/1344	✓	✓	✓						2KJ4226 - ■■■■■ - ■■ A1
Z.59-D19															
9 577	0.15	450	7 660	-	0.02	5229173/546	✓	✓							2KJ4127 - ■■■■■ - ■■ P1
8 480	0.17	450	7 660	-	0.03	30868989/3640	✓	✓							2KJ4127 - ■■■■■ - ■■ N1
7 368	0.20	450	7 660	-	0.04	26820597/3640	✓	✓							2KJ4127 - ■■■■■ - ■■ M1
6 698	0.22	450	7 660	-	0.04	26820597/4004	✓	✓							2KJ4127 - ■■■■■ - ■■ L1
5 700	0.25	450	7 660	-	0.06	20748009/3640	✓	✓							2KJ4127 - ■■■■■ - ■■ K1
5 182	0.28	450	7 660	-	0.07	20748009/4004	✓	✓							2KJ4127 - ■■■■■ - ■■ J1
4 518	0.32	450	7 660	-	0.08	506049/112	✓	✓							2KJ4127 - ■■■■■ - ■■ H1
4 044	0.36	450	7 660	-	0.11	4048392/1001	✓	✓							2KJ4127 - ■■■■■ - ■■ G1
3 591	0.40	450	7 660	-	0.13	5229173/1456	✓	✓							2KJ4127 - ■■■■■ - ■■ F1
3 315	0.44	450	7 660	-	0.16	15687519/4732	✓	✓							2KJ4127 - ■■■■■ - ■■ E1
2 880	0.50	450	7 660	-	0.17	14675421/5096	✓	✓							2KJ4127 - ■■■■■ - ■■ D1
2 502	0.58	450	7 660	-	0.18	4554441/1820	✓	✓							2KJ4127 - ■■■■■ - ■■ C1
2 259	0.64	450	7 660	-	0.22	506049/224	✓	✓							2KJ4127 - ■■■■■ - ■■ B1
2 126	0.68	450	7 660	-	0.26	506049/238	✓	✓							2KJ4127 - ■■■■■ - ■■ A1
Z.59-Z19															
1 812	0.80	450	7 660	-	0.02	141329/78	✓	✓							2KJ4126 - ■■■■■ - ■■ G1
1 604	0.90	450	7 660	-	0.03	834297/520	✓	✓	✓						2KJ4126 - ■■■■■ - ■■ F1
1 394	1.0	450	7 660	-	0.04	724881/520	✓	✓	✓						2KJ4126 - ■■■■■ - ■■ E1
1 267	1.1	450	7 660	-	0.05	724881/572	✓	✓	✓						2KJ4126 - ■■■■■ - ■■ D1
1 078	1.3	450	7 660	-	0.07	560757/520	✓	✓	✓						2KJ4126 - ■■■■■ - ■■ C1
980	1.5	450	7 660	-	0.08	560757/572	✓	✓	✓						2KJ4126 - ■■■■■ - ■■ B1
855	1.7	450	7 660	-	0.09	13677/16	✓	✓	✓						2KJ4126 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.69-D19															
14 575	0.10	600	11 000	-	0.07	9284040/637	✓	✓							**2KJ4230 - ■■■■■ - ■■ C1**
12 708	0.11	600	11 000	-	0.08	622710/49	✓	✓							**2KJ4230 - ■■■■■ - ■■ B1**
11 375	0.13	600	11 000	-	0.11	7246080/637	✓	✓							**2KJ4230 - ■■■■■ - ■■ A1**
D.69-Z19															
1 532	0.95	600	11 000	-	0.20	976140/637	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ Q1**
1 332	1.1	600	11 000	-	0.21	121176/91	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ P1**
1 202	1.2	600	11 000	-	0.27	8415/7	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ N1**
1 131	1.3	600	11 000	-	0.32	7920/7	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ M1**
986	1.5	600	11 000	-	0.37	89760/91	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ L1**
910	1.6	600	11 000	-	0.19	579700/637	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ K1**
791	1.8	600	11 000	-	0.22	271150/343	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ J1**
687	2.1	600	11 000	-	0.23	33660/49	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ H1**
620	2.3	600	11 000	-	0.30	60775/98	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ G1**
584	2.5	600	11 000	-	0.35	28600/49	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ F1**
542	2.7	600	11 000	-	0.20	318835/588	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ E1**
471	3.1	600	11 000	-	0.23	3877445/8232	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ D1**
409	3.5	600	11 000	-	0.24	80223/196	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ C1**
370	3.9	600	11 000	-	0.31	1738165/4704	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ B1**
347.77	4.2	600	11 000	-	0.37	102245/294	✓	✓	✓						**2KJ4228 - ■■■■■ - ■■ A1**
Z.69-D19															
10 247	0.14	600	11 000	-	0.02	19581584/1911	✓	✓							**2KJ4130 - ■■■■■ - ■■ Q1**
9 073	0.16	600	11 000	-	0.03	28898628/3185	✓	✓							**2KJ4130 - ■■■■■ - ■■ P1**
7 883	0.18	600	11 000	-	0.04	25108644/3185	✓	✓							**2KJ4130 - ■■■■■ - ■■ N1**
7 167	0.2	600	11 000	-	0.04	4565208/637	✓	✓							**2KJ4130 - ■■■■■ - ■■ M1**
6 098	0.24	600	11 000	-	0.06	19423668/3185	✓	✓							**2KJ4130 - ■■■■■ - ■■ L1**
5 544	0.26	600	11 000	-	0.07	3531576/637	✓	✓							**2KJ4130 - ■■■■■ - ■■ K1**
4 834	0.3	600	11 000	-	0.08	236874/49	✓	✓							**2KJ4130 - ■■■■■ - ■■ J1**
4 327	0.34	600	11 000	-	0.11	2756352/637	✓	✓							**2KJ4130 - ■■■■■ - ■■ H1**
3 843	0.38	600	11 000	-	0.13	2447698/637	✓	✓							**2KJ4130 - ■■■■■ - ■■ G1**
3 547	0.41	600	11 000	-	0.16	29372376/8281	✓	✓							**2KJ4130 - ■■■■■ - ■■ F1**
3 081	0.47	600	11 000	-	0.17	13738692/4459	✓	✓							**2KJ4130 - ■■■■■ - ■■ E1**
2 677	0.54	600	11 000	-	0.18	8527464/3185	✓	✓							**2KJ4130 - ■■■■■ - ■■ D1**
2 417	0.6	600	11 000	-	0.22	118437/49	✓	✓							**2KJ4130 - ■■■■■ - ■■ C1**
2 275	0.64	600	11 000	-	0.26	1894992/833	✓	✓							**2KJ4130 - ■■■■■ - ■■ B1**
1 983	0.73	600	11 000	-	0.29	1263328/637	✓	✓							**2KJ4130 - ■■■■■ - ■■ A1**
Z.69-Z19															
1 939	0.75	600	11 000	-	0.02	529232/273	✓	✓							**2KJ4128 - ■■■■■ - ■■ B1**
1 717	0.84	600	11 000	-	0.03	781044/455	✓	✓	✓						**2KJ4128 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.79-D39															
15 344	0.09	840	13 400	-	0.21	5738565/374	✓	✓	✓	✓	✓	✓			**2KJ4232 - ■■■■■ - ■■ D1**
13 434	0.11	840	13 400	-	0.25	6394401/476	✓	✓	✓	✓	✓	✓			**2KJ4232 - ■■■■■ - ■■ C1**
11 778	0.12	840	13 400	-	0.23	22025159/1870	✓	✓	✓	✓	✓	✓			**2KJ4232 - ■■■■■ - ■■ B1**
10 686	0.14	840	13 400	-	0.33	31972005/2992	✓	✓	✓	✓	✓	✓			**2KJ4232 - ■■■■■ - ■■ A1**
Z.79-D39															
10 451	0.14	840	13 400	-	0.03	47969467/4590	✓	✓							**2KJ4132 - ■■■■■ - ■■ R1**
9 269	0.16	840	13 400	-	0.05	2085629/225	✓	✓							**2KJ4132 - ■■■■■ - ■■ Q1**
8 043	0.18	840	13 400	-	0.05	123052111/15300	✓	✓							**2KJ4132 - ■■■■■ - ■■ P1**
7 311	0.20	840	13 400	-	0.07	123052111/16830	✓	✓	✓	✓					**2KJ4132 - ■■■■■ - ■■ N1**
6 271	0.23	840	13 400	-	0.08	47969467/7650	✓	✓	✓	✓					**2KJ4132 - ■■■■■ - ■■ M1**
5 700	0.25	840	13 400	-	0.10	47969467/8415	✓	✓	✓	✓					**2KJ4132 - ■■■■■ - ■■ L1**
4 998	0.29	840	13 400	-	0.12	22941919/4590	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ K1**
4 461	0.33	840	13 400	-	0.15	4171258/935	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ J1**
3 976	0.36	840	13 400	-	0.17	14599403/3672	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ H1**
3 670	0.40	840	13 400	-	0.21	1123031/306	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ G1**
3 213	0.45	840	13 400	-	0.25	3277417/1020	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ F1**
2 817	0.51	840	13 400	-	0.23	64654499/22950	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ E1**
2 556	0.57	840	13 400	-	0.33	2085629/816	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ D1**
2 406	0.60	840	13 400	-	0.39	2085629/867	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ C1**
2 120	0.68	840	13 400	-	0.43	14599403/6885	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ B1**
1 840	0.79	840	13 400	-	0.58	6256887/3400	✓	✓	✓	✓	✓	✓			**2KJ4132 - ■■■■■ - ■■ A1**
Z.79-Z39															
2 485	0.58	840	13 400	-	0.06	4025749/1620	✓	✓							**2KJ4131 - ■■■■■ - ■■ T1**
2 210	0.66	840	13 400	-	0.07	1988623/900	✓	✓	✓	✓					**2KJ4131 - ■■■■■ - ■■ S1**
1 940	0.75	840	13 400	-	0.08	48503/25	✓	✓	✓	✓					**2KJ4131 - ■■■■■ - ■■ R1**
1 764	0.82	840	13 400	-	0.10	97006/55	✓	✓	✓	✓					**2KJ4131 - ■■■■■ - ■■ Q1**
1 509	0.96	840	13 400	-	0.12	339521/225	✓	✓	✓	✓					**2KJ4131 - ■■■■■ - ■■ P1**
1 372	1.1	840	13 400	-	0.14	679042/495	✓	✓	✓	✓					**2KJ4131 - ■■■■■ - ■■ N1**
1 213	1.2	840	13 400	-	0.17	48503/40	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ M1**
1 102	1.3	840	13 400	-	0.22	48503/44	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ L1**
966	1.5	840	13 400	-	0.26	2085629/2160	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ K1**
891	1.6	840	13 400	-	0.31	160433/180	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ J1**
789	1.8	840	13 400	-	0.36	284089/360	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ H1**
657	2.2	840	13 400	-	0.48	630539/960	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ G1**
618	2.3	840	13 400	-	0.56	630539/1020	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ F1**
554	2.6	840	13 400	-	0.61	1794611/3240	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ E1**
472	3.1	840	13 400	-	0.79	339521/720	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ D1**
455	3.2	840	13 400	-	0.36	21853/48	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ C1**
379	3.8	840	13 400	-	0.48	48503/128	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ B1**
357	4.1	840	13 400	-	0.56	48503/136	✓	✓	✓	✓	✓	✓			**2KJ4131 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.89-D39															
16 496	0.09	1 680	18 500	-	0.12	214526312/13005	✓	✓	✓	✓	✓	✓			**2KJ4234 - ■■■■■ - ■■ B1**
14 723	0.1	1 680	18 500	-	0.15	234028704/15895	✓	✓	✓	✓	✓	✓			**2KJ4234 - ■■■■■ - ■■ A1**
D.89-Z39															
715	2.0	1 680	18 500	-	0.63	6987123/9775	✓	✓	✓	✓	✓	✓			**2KJ4233 - ■■■■■ - ■■ H1**
673	2.2	1 680	18 500	-	0.73	111793968/166175	✓	✓	✓	✓	✓	✓			**2KJ4233 - ■■■■■ - ■■ G1**
603	2.4	1 680	18 500	-	0.83	17676824/29325	✓	✓	✓	✓	✓	✓			**2KJ4233 - ■■■■■ - ■■ F1**
513	2.8	1 680	18 500	-	1.09	5016396/9775	✓	✓	✓	✓	✓	✓			**2KJ4233 - ■■■■■ - ■■ E1**
480	3.0	1 680	18 500	-	0.66	1270386/2645	✓	✓	✓	✓	✓	✓			**2KJ4233 - ■■■■■ - ■■ D1**
452	3.2	1 680	18 500	-	0.77	20326176/44965	✓	✓	✓	✓	✓	✓			**2KJ4233 - ■■■■■ - ■■ C1**
405	3.6	1 680	18 500	-	0.87	3213968/7935	✓	✓	✓	✓	✓	✓			**2KJ4233 - ■■■■■ - ■■ B1**
345	4.2	1 680	18 500	-	1.15	912072/2645	✓	✓	✓	✓	✓	✓			**2KJ4233 - ■■■■■ - ■■ A1**
Z.89-D39															
13 495	0.11	1 680	18 500	-	0.03	464574838/34425	✓	✓							**2KJ4134 - ■■■■■ - ■■ N1**
11 970	0.12	1 680	18 500	-	0.05	40397812/3375	✓	✓							**2KJ4134 - ■■■■■ - ■■ M1**
10 385	0.14	1 680	18 500	-	0.05	595867727/57375	✓	✓							**2KJ4134 - ■■■■■ - ■■ .L1**
9 441	0.15	1 680	18 500	-	0.07	1191735454/126225	✓	✓	✓	✓					**2KJ4134 - ■■■■■ - ■■ K1**
8 097	0.18	1 680	18 500	-	0.08	464574838/57375	✓	✓	✓	✓					**2KJ4134 - ■■■■■ - ■■ J1**
7 361	0.20	1 680	18 500	-	0.1	929149676/126225	✓	✓	✓	✓					**2KJ4134 - ■■■■■ - ■■ H1**
6 454	0.22	1 680	18 500	-	0.12	222187966/34425	✓	✓	✓	✓	✓	✓			**2KJ4134 - ■■■■■ - ■■ G1**
5 761	0.25	1 680	18 500	-	0.15	80795624/14025	✓	✓	✓	✓	✓	✓			**2KJ4134 - ■■■■■ - ■■ F1**
5 134	0.28	1 680	18 500	-	0.17	70696171/13770	✓	✓	✓	✓	✓	✓			**2KJ4134 - ■■■■■ - ■■ E1**
4 739	0.31	1 680	18 500	-	0.21	10876334/2295	✓	✓	✓	✓	✓	✓			**2KJ4134 - ■■■■■ - ■■ D1**
4 149	0.35	1 680	18 500	-	0.25	15870569/3825	✓	✓	✓	✓	✓	✓			**2KJ4134 - ■■■■■ - ■■ C1**
3 638	0.40	1 680	18 500	-	0.23	626166086/172125	✓	✓	✓	✓	✓	✓			**2KJ4134 - ■■■■■ - ■■ B1**
3 300	0.44	1 680	18 500	-	0.33	10099453/3060	✓	✓	✓	✓	✓	✓			**2KJ4134 - ■■■■■ - ■■ A1**
Z.89-Z39															
3 209	0.45	1 680	18 500	-	0.06	19494293/6075	✓	✓							**2KJ4133 - ■■■■■ - ■■ N1**
2 853	0.51	1 680	18 500	-	0.07	9629711/3375	✓	✓	✓	✓					**2KJ4133 - ■■■■■ - ■■ M1**
2 505	0.58	1 680	18 500	-	0.08	939484/375	✓	✓	✓	✓					**2KJ4133 - ■■■■■ - ■■ .L1**
2 278	0.64	1 680	18 500	-	0.10	1878968/825	✓	✓	✓	✓					**2KJ4133 - ■■■■■ - ■■ K1**
1 949	0.74	1 680	18 500	-	0.12	6576388/3375	✓	✓	✓	✓					**2KJ4133 - ■■■■■ - ■■ J1**
1 771	0.82	1 680	18 500	-	0.14	13152776/7425	✓	✓	✓	✓					**2KJ4133 - ■■■■■ - ■■ H1**
1 566	0.93	1 680	18 500	-	0.17	234871/150	✓	✓	✓	✓	✓	✓			**2KJ4133 - ■■■■■ - ■■ G1**
1 423	1.0	1 680	18 500	-	0.22	234871/165	✓	✓	✓	✓	✓	✓			**2KJ4133 - ■■■■■ - ■■ F1**
1 247	1.2	1 680	18 500	-	0.26	10099453/8100	✓	✓	✓	✓	✓	✓			**2KJ4133 - ■■■■■ - ■■ E1**
1 151	1.3	1 680	18 500	-	0.31	776881/675	✓	✓	✓	✓	✓	✓			**2KJ4133 - ■■■■■ - ■■ D1**
1 019	1.4	1 680	18 500	-	0.36	1375673/1350	✓	✓	✓	✓	✓	✓			**2KJ4133 - ■■■■■ - ■■ C1**
848	1.7	1 680	18 500	-	0.48	3053323/3600	✓	✓	✓	✓	✓	✓			**2KJ4133 - ■■■■■ - ■■ B1**
798	1.8	1 680	18 500	-	0.56	3053323/3825	✓	✓	✓	✓	✓	✓			**2KJ4133 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.109-D39															
19 321	0.08	3 100	20 200	-	0.05	59992439/3105	✓	✓							2KJ4236 - ■■■■■ - ■■ T1
17 565	0.08	3 100	20 200	-	0.07	119984878/6831	✓	✓	✓	✓					2KJ4236 - ■■■■■ - ■■ S1
15 064	0.1	3 100	20 200	-	0.08	2033642/135	✓	✓	✓	✓					2KJ4236 - ■■■■■ - ■■ R1
13 695	0.11	3 100	20 200	-	0.10	4067284/297	✓	✓	✓	✓					2KJ4236 - ■■■■■ - ■■ Q1
12 008	0.12	3 100	20 200	-	0.12	22370062/1863	✓	✓	✓	✓	✓	✓			2KJ4236 - ■■■■■ - ■■ P1
10 717	0.14	3 100	20 200	-	0.15	8134568/759	✓	✓	✓	✓	✓	✓			2KJ4236 - ■■■■■ - ■■ N1
9 551	0.15	3 100	20 200	-	0.18	35588735/3726	✓	✓	✓	✓	✓	✓			2KJ4236 - ■■■■■ - ■■ M1
8 817	0.16	3 100	20 200	-	0.21	5475190/621	✓	✓	✓	✓	✓	✓			2KJ4236 - ■■■■■ - ■■ L1
7 719	0.19	3 100	20 200	-	0.25	11185031/1449	✓	✓	✓	✓	✓	✓			2KJ4236 - ■■■■■ - ■■ K1
6 768	0.21	3 100	20 200	-	0.23	63042902/9315	✓	✓	✓	✓	✓	✓			2KJ4236 - ■■■■■ - ■■ J1
6 140	0.24	3 100	20 200	-	0.33	5084105/828	✓	✓	✓	✓	✓	✓			2KJ4236 - ■■■■■ - ■■ H1
D.109-Z39															
5 970	0.24	3 100	20 200	-	0.06	33365917/5589	✓	✓							2KJ4235 - ■■■■■ - ■■ A2
5 308	0.27	3 100	20 200	-	0.07	16481959/3105	✓	✓	✓	✓					2KJ4235 - ■■■■■ - ■■ X1
4 661	0.31	3 100	20 200	-	0.09	1607996/345	✓	✓	✓	✓					2KJ4235 - ■■■■■ - ■■ W1
4 237	0.34	3 100	20 200	-	0.10	3215992/759	✓	✓	✓	✓					2KJ4235 - ■■■■■ - ■■ V1
3 625	0.4	3 100	20 200	-	0.12	11255972/3105	✓	✓	✓	✓					2KJ4235 - ■■■■■ - ■■ U1
3 296	0.44	3 100	20 200	-	0.15	22511944/6831	✓	✓	✓	✓					2KJ4235 - ■■■■■ - ■■ T1
2 913	0.5	3 100	20 200	-	0.17	401999/138	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ S1
2 648	0.55	3 100	20 200	-	0.23	2009995/759	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ R1
2 320	0.62	3 100	20 200	-	0.27	17285957/7452	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ Q1
2 141	0.68	3 100	20 200	-	0.32	1329689/621	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ P1
1 896	0.76	3 100	20 200	-	0.38	16481959/8694	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ N1
1 578	0.92	3 100	20 200	-	0.50	5225987/3312	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ M1
1 485	0.98	3 100	20 200	-	0.59	307411/207	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ L1
1 331	1.1	3 100	20 200	-	0.64	14873963/11178	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ K1
1 133	1.3	3 100	20 200	-	0.84	2813993/2484	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ J1
971	1.5	3 100	20 200	-	1.10	401999/414			✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ H1
836	1.7	3 100	20 200	-	1.40	12461969/14904			✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ G1
690	2.1	3 100	20 200	-	0.73	122609695/177744	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ F1
649	2.2	3 100	20 200	-	0.84	7212335/11109	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ E1
582	2.5	3 100	20 200	-	0.96	348966055/599886	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ D1
495	2.9	3 100	20 200	-	1.28	9431515/19044	✓	✓	✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ C1
424	3.4	3 100	20 200	-	1.69	9431515/22218			✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ B1
366	4	3 100	20 200	-	2.20	292376965/799848			✓	✓	✓	✓			2KJ4235 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.129-D49															
19 506	0.07	5 000	27 000	-	0.12	1643206859/84240	✓	✓	✓	✓					2KJ4238 - ■■■■■ - ■■ L1
17 733	0.08	5 000	27 000	-	0.14	1643206859/92664	✓	✓	✓	✓					2KJ4238 - ■■■■■ - ■■ K1
15 675	0.09	5 000	27 000	-	0.17	234743837/14976	✓	✓	✓	✓	✓	✓			2KJ4238 - ■■■■■ - ■■ J1
14 250	0.1	5 000	27 000	-	0.22	1173719185/82368	✓	✓	✓	✓	✓	✓			2KJ4238 - ■■■■■ - ■■ H1
12 482	0.12	5 000	27 000	-	0.26	10093984991/808704	✓	✓	✓	✓	✓	✓			2KJ4238 - ■■■■■ - ■■ G1
11 522	0.13	5 000	27 000	-	0.31	10093984991/876096	✓	✓	✓	✓	✓	✓			2KJ4238 - ■■■■■ - ■■ F1
10 201	0.14	5 000	27 000	-	0.37	9624497317/943488	✓	✓	✓	✓	✓	✓	✓		2KJ4238 - ■■■■■ - ■■ E1
8 490	0.17	5 000	27 000	-	0.50	234743837/27648	✓	✓	✓	✓	✓	✓	✓		2KJ4238 - ■■■■■ - ■■ D1
7 991	0.18	5 000	27 000	-	0.59	13808461/1728	✓	✓	✓	✓	✓	✓	✓		2KJ4238 - ■■■■■ - ■■ C1
7 160	0.2	5 000	27 000	-	0.65	8685521969/1213056	✓	✓	✓	✓	✓	✓	✓		2KJ4238 - ■■■■■ - ■■ B1
6 096	0.24	5 000	27 000	-	0.85	1643206859/269568	✓	✓	✓	✓	✓	✓	✓		2KJ4238 - ■■■■■ - ■■ A1
D.129-Z49															
5 963	0.24	5 000	27 000	-	0.18	1339420717/224640	✓	✓	✓	✓					2KJ4237 - ■■■■■ - ■■ B2
5 420	0.27	5 000	27 000	-	0.21	1339420717/247104	✓	✓	✓	✓					2KJ4237 - ■■■■■ - ■■ A2
4 610	0.31	5 000	27 000	-	0.27	69042305/14976	✓	✓	✓	✓					2KJ4237 - ■■■■■ - ■■ X1
4 191	0.35	5 000	27 000	-	0.32	345211525/82368	✓	✓	✓	✓					2KJ4237 - ■■■■■ - ■■ W1
3 739	0.39	5 000	27 000	-	0.37	1008017653/269568	✓	✓	✓	✓	✓	✓			2KJ4237 - ■■■■■ - ■■ V1
3 353	0.43	5 000	27 000	-	0.45	69042305/20592	✓	✓	✓	✓	✓	✓			2KJ4237 - ■■■■■ - ■■ U1
3 022	0.48	5 000	27 000	-	0.53	814699199/269568	✓	✓	✓	✓	✓	✓			2KJ4237 - ■■■■■ - ■■ T1
2 790	0.52	5 000	27 000	-	0.63	814699199/292032	✓	✓	✓	✓	✓	✓			2KJ4237 - ■■■■■ - ■■ S1
2 547	0.57	5 000	27 000	-	0.74	400445369/157248	✓	✓	✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ R1
2 113	0.69	5 000	27 000	-	0.95	759465355/359424	✓	✓	✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ Q1
1 989	0.73	5 000	27 000	-	1.09	759465355/381888	✓	✓	✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ P1
1 878	0.77	5 000	27 000	-	1.24	759465355/404352	✓	✓	✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ N1
1 598	0.91	5 000	27 000	-	1.53	13808461/8640	✓	✓	✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ M1
1 369	1.1	5 000	27 000	-	1.89	676614589/494208			✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ L1
1 204	1.2	5 000	27 000	-	2.3	648997667/539136			✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ K1
1 016	1.4	5 000	27 000	-	2.9	262360759/258336			✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ J1
885	1.6	5 000	27 000	-	3.9	13808461/15600			✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ H1
873	1.7	5 000	27 000	-	1.51	208411423/238680	✓	✓	✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ G1
825	1.8	5 000	27 000	-	1.71	208411423/252720	✓	✓	✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ F1
702	2.1	5 000	27 000	-	2.2	18946493/27000	✓	✓	✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ E1
601	2.4	5 000	27 000	-	2.8	928378157/1544400			✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ D1
529	2.7	5 000	27 000	-	3.4	890485171/1684800			✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ C1
446	3.3	5 000	27 000	-	4.5	359983367/807300			✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ B1
389	3.7	5 000	27 000	-	6	18946493/48750			✓	✓	✓	✓	✓		2KJ4237 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

3

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.149-D49															
24 180	0.06	8 000	51 200	-	0.08	118481211/4900	✓	✓							**2KJ4241 - ■■■■■ - ■■ N1**
21 982	0.07	8 000	51 200	-	0.10	118481211/5390	✓	✓	✓	✓					**2KJ4241 - ■■■■■ - ■■ M1**
18 807	0.08	8 000	51 200	-	0.12	13164579/700	✓	✓	✓	✓					**2KJ4241 - ■■■■■ - ■■ L1**
17 097	0.08	8 000	51 200	-	0.14	13164579/770	✓	✓	✓	✓					**2KJ4241 - ■■■■■ - ■■ K1**
15 112	0.10	8 000	51 200	-	0.17	118481211/7840	✓	✓	✓	✓	✓	✓			**2KJ4241 - ■■■■■ - ■■ J1**
13 739	0.11	8 000	51 200	-	0.22	118481211/8624	✓	✓	✓	✓	✓	✓			**2KJ4241 - ■■■■■ - ■■ H1**
12 034	0.12	8 000	51 200	-	0.26	188692299/15680	✓	✓	✓	✓	✓	✓			**2KJ4241 - ■■■■■ - ■■ G1**
11 108	0.13	8 000	51 200	-	0.31	566076897/50960	✓	✓	✓	✓	✓	✓			**2KJ4241 - ■■■■■ - ■■ F1**
9 835	0.15	8 000	51 200	-	0.37	539747739/54880	✓	✓	✓	✓	✓	✓	✓		**2KJ4241 - ■■■■■ - ■■ E1**
8 186	0.18	8 000	51 200	-	0.50	513418581/62720	✓	✓	✓	✓	✓	✓	✓		**2KJ4241 - ■■■■■ - ■■ D1**
7 704	0.19	8 000	51 200	-	0.59	30201093/3920	✓	✓	✓	✓	✓	✓	✓		**2KJ4241 - ■■■■■ - ■■ C1**
6 903	0.21	8 000	51 200	-	0.66	54121047/7840	✓	✓	✓	✓	✓	✓	✓		**2KJ4241 - ■■■■■ - ■■ B1**
5 877	0.25	8 000	51 200	-	0.86	13164579/2240	✓	✓	✓	✓	✓	✓	✓		**2KJ4241 - ■■■■■ - ■■ A1**
D.149-Z49															
5 749	0.25	8 000	51 200	-	0.18	225346617/39200	✓	✓	✓	✓					**2KJ4240 - ■■■■■ - ■■ B2**
5 226	0.28	8 000	51 200	-	0.22	225346617/43120	✓	✓	✓	✓					**2KJ4240 - ■■■■■ - ■■ A2**
4 445	0.33	8 000	51 200	-	0.28	6969483/1568	✓	✓	✓	✓					**2KJ4240 - ■■■■■ - ■■ X1**
4 041	0.36	8 000	51 200	-	0.34	34847415/8624	✓	✓	✓	✓					**2KJ4240 - ■■■■■ - ■■ W1**
3 605	0.4	8 000	51 200	-	0.39	56530251/15680	✓	✓	✓	✓	✓	✓			**2KJ4240 - ■■■■■ - ■■ V1**
3 233	0.45	8 000	51 200	-	0.47	6969483/2156	✓	✓	✓	✓	✓	✓			**2KJ4240 - ■■■■■ - ■■ U1**
2 914	0.5	8 000	51 200	-	0.55	45688833/15680	✓	✓	✓	✓	✓	✓			**2KJ4240 - ■■■■■ - ■■ T1**
2 690	0.54	8 000	51 200	-	0.66	137066499/50960	✓	✓	✓	✓	✓	✓			**2KJ4240 - ■■■■■ - ■■ S1**
2 455	0.59	8 000	51 200	-	0.78	67371669/27440	✓	✓	✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ R1**
2 037	0.71	8 000	51 200	-	1.0	25554771/12544	✓	✓	✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ Q1**
1 917	0.76	8 000	51 200	-	1.16	25554771/13328	✓	✓	✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ P1**
1 811	0.80	8 000	51 200	-	1.31	2839419/1568	✓	✓	✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ N1**
1 541	0.94	8 000	51 200	-	1.62	30201093/19600	✓	✓	✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ M1**
1 320	1.1	8 000	51 200	-	2.0	2323161/1760			✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ L1**
1 161	1.2	8 000	51 200	-	2.5	36396189/31360			✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ K1**
979	1.5	8 000	51 200	-	3.2	1919133/1960			✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ J1**
853	1.7	8 000	51 200	-	4.2	20908449/24500			✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ H1**
842	1.7	8 000	51 200	-	1.81	35063523/41650	✓	✓	✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ G1**
795	1.8	8 000	51 200	-	2.0	3895947/4900	✓	✓	✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ F1**
677	2.1	8 000	51 200	-	2.6	41438709/61250	✓	✓	✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ E1**
580	2.5	8 000	51 200	-	3.4	3187593/5500			✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ D1**
510	2.8	8 000	51 200	-	4.3	49938957/98000			✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ C1**
430	3.4	8 000	51 200	-	5.7	2633229/6125			✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ B1**
375	3.9	8 000	51 200	-	7.5	57376674/153125			✓	✓	✓	✓	✓		**2KJ4240 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.169-D69															
23 323	0.06	14 000	70 100	-	0.08	28571136/1225	✓	✓	✓	✓					**2KJ4243 - ■■■■■ - ■■ N1**
21 203	0.07	14 000	70 100	-	0.10	5194752/245	✓	✓	✓	✓					**2KJ4243 - ■■■■■ - ■■ M1**
18 140	0.08	14 000	70 100	-	0.12	9523712/525	✓	✓	✓	✓					**2KJ4243 - ■■■■■ - ■■ L1**
16 491	0.09	14 000	70 100	-	0.15	1731584/105	✓	✓	✓	✓					**2KJ4243 - ■■■■■ - ■■ K1**
14 577	0.10	14 000	70 100	-	0.17	3571392/245	✓	✓	✓	✓	✓	✓			**2KJ4243 - ■■■■■ - ■■ J1**
13 252	0.11	14 000	70 100	-	0.23	649344/49	✓	✓	✓	✓	✓	✓			**2KJ4243 - ■■■■■ - ■■ H1**
11 608	0.12	14 000	70 100	-	0.26	25594976/2205	✓	✓	✓	✓	✓	✓			**2KJ4243 - ■■■■■ - ■■ G1**
10 715	0.14	14 000	70 100	-	0.32	102379904/9555	✓	✓	✓	✓	✓	✓			**2KJ4243 - ■■■■■ - ■■ F1**
9 487	0.15	14 000	70 100	-	0.39	48809024/5145	✓	✓	✓	✓	✓	✓	✓		**2KJ4243 - ■■■■■ - ■■ E1**
7 896	0.18	14 000	70 100	-	0.52	1934504/245	✓	✓	✓	✓	✓	✓	✓		**2KJ4243 - ■■■■■ - ■■ D1**
7 431	0.2	14 000	70 100	-	0.61	30952064/4165	✓	✓	✓	✓	✓	✓	✓		**2KJ4243 - ■■■■■ - ■■ C1**
6 659	0.22	14 000	70 100	-	0.68	44047168/6615	✓	✓	✓	✓	✓	✓	✓		**2KJ4243 - ■■■■■ - ■■ B1**
5 669	0.26	14 000	70 100	-	0.89	595232/105	✓	✓	✓	✓	✓	✓	✓		**2KJ4243 - ■■■■■ - ■■ A1**
D.169-Z.69															
5 545	0.26	14 000	70 100	-	0.21	115475008/20825	✓	✓	✓	✓					**2KJ4242 - ■■■■■ - ■■ A2**
5 041	0.29	14 000	70 100	-	0.26	20995456/4165	✓	✓	✓	✓					**2KJ4242 - ■■■■■ - ■■ X1**
4 287	0.34	14 000	70 100	-	0.33	3571392/833	✓	✓	✓	✓					**2KJ4242 - ■■■■■ - ■■ W1**
3 898	0.37	14 000	70 100	-	0.40	3246720/833	✓	✓	✓	✓					**2KJ4242 - ■■■■■ - ■■ V1**
3 478	0.42	14 000	70 100	-	0.47	43451936/12495	✓	✓	✓	✓	✓	✓			**2KJ4242 - ■■■■■ - ■■ U1**
3 118	0.47	14 000	70 100	-	0.57	2597376/833	✓	✓	✓	✓	✓	✓			**2KJ4242 - ■■■■■ - ■■ T1**
2 811	0.52	14 000	70 100	-	0.67	35118688/12495	✓	✓	✓	✓	✓	✓			**2KJ4242 - ■■■■■ - ■■ S1**
2 594	0.56	14 000	70 100	-	0.8	140474752/54145	✓	✓	✓	✓	✓	✓			**2KJ4242 - ■■■■■ - ■■ R1**
2 368	0.61	14 000	70 100	-	0.95	69046912/29155	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ Q1**
1 965	0.74	14 000	70 100	-	1.25	1636888/833	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ P1**
1 849	0.78	14 000	70 100	-	1.44	26190208/14161	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ N1**
1 747	0.83	14 000	70 100	-	1.62	13095104/7497	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ M1**
1 486	0.98	14 000	70 100	-	2.1	30952064/20825	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ L1**
1 273	1.1	14 000	70 100	-	2.6	108224/85	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ K1**
1 119	1.3	14 000	70 100	-	3.2	13987952/12495	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ J1**
944	1.5	14 000	70 100	-	4.2	90475264/95795			✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ H1**
823	1.8	14 000	70 100	-	5.7	85713408/104125			✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ G1**
773	1.9	14 000	70 100	-	3.2	19047424/24633			✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ F1**
658	2.2	14 000	70 100	-	4.3	45021184/68425			✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ E1**
564	2.6	14 000	70 100	-	5.6	12121088/21505	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ D1**
496	2.9	14 000	70 100	-	7.1	20346112/41055	✓	✓	✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ C1**
418	3.5	14 000	70 100	-	9.7	131600384/314755			✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ B1**
364	4.0	14 000	70 100	-	13	124674048/342125			✓	✓	✓	✓	✓		**2KJ4242 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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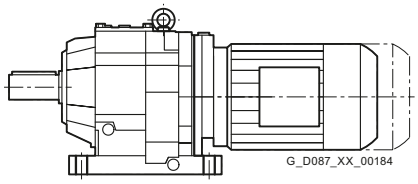
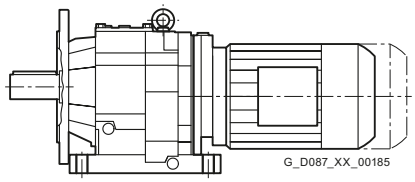
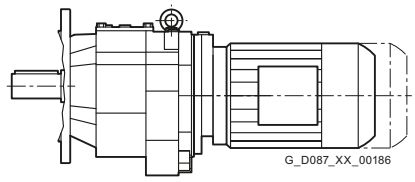
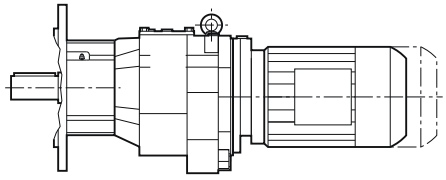
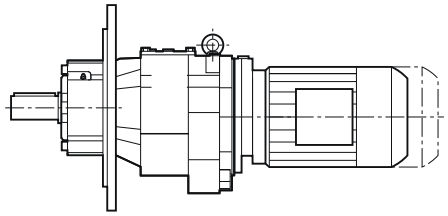
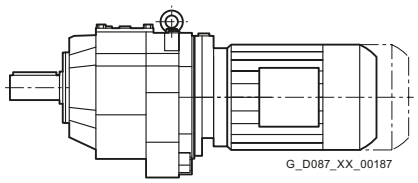
Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
D.189-D69															
27 816	0.05	19 000	107 000	-	0.07	15994264/575	✓	✓	✓	✓					2KJ4245 - ■■■■■ - ■■ P1
24 424	0.06	19 000	107 000	-	0.09	14043744/575	✓	✓	✓	✓					2KJ4245 - ■■■■■ - ■■ N1
22 204	0.07	19 000	107 000	-	0.11	2553408/115	✓	✓	✓	✓					2KJ4245 - ■■■■■ - ■■ M1
18 996	0.08	19 000	107 000	-	0.12	10922912/575	✓	✓	✓	✓					2KJ4245 - ■■■■■ - ■■ L1
17 269	0.08	19 000	107 000	-	0.15	1985984/115	✓	✓	✓	✓					2KJ4245 - ■■■■■ - ■■ K1
15 265	0.09	19 000	107 000	-	0.18	1755468/115	✓	✓	✓	✓	✓	✓			2KJ4245 - ■■■■■ - ■■ J1
13 877	0.1	19 000	107 000	-	0.23	319176/23	✓	✓	✓	✓	✓	✓			2KJ4245 - ■■■■■ - ■■ H1
12 155	0.12	19 000	107 000	-	0.27	4193618/345	✓	✓	✓	✓	✓	✓			2KJ4245 - ■■■■■ - ■■ G1
11 220	0.13	19 000	107 000	-	0.32	1290344/115	✓	✓	✓	✓	✓	✓			2KJ4245 - ■■■■■ - ■■ F1
9 934	0.15	19 000	107 000	-	0.39	7997132/805	✓	✓	✓	✓	✓	✓	✓		2KJ4245 - ■■■■■ - ■■ E1
8 269	0.18	19 000	107 000	-	0.53	1901757/230	✓	✓	✓	✓	✓	✓	✓		2KJ4245 - ■■■■■ - ■■ D1
7 782	0.19	19 000	107 000	-	0.62	15214056/1955	✓	✓	✓	✓	✓	✓	✓		2KJ4245 - ■■■■■ - ■■ C1
6 973	0.21	19 000	107 000	-	0.69	7216924/1035	✓	✓	✓	✓	✓	✓	✓		2KJ4245 - ■■■■■ - ■■ B1
5 936	0.24	19 000	107 000	-	0.91	682682/115	✓	✓	✓	✓	✓	✓	✓		2KJ4245 - ■■■■■ - ■■ A1
D.189-Z69															
5 807	0.25	19 000	107 000	-	0.24	56760132/9775	✓	✓	✓	✓					2KJ4244 - ■■■■■ - ■■ A2
5 279	0.27	19 000	107 000	-	0.29	10320024/1955	✓	✓	✓	✓					2KJ4244 - ■■■■■ - ■■ X1
4 490	0.32	19 000	107 000	-	0.37	1755468/391	✓	✓	✓	✓					2KJ4244 - ■■■■■ - ■■ W1
4 082	0.36	19 000	107 000	-	0.45	1595880/391	✓	✓	✓	✓					2KJ4244 - ■■■■■ - ■■ V1
3 642	0.4	19 000	107 000	-	0.53	7119398/1955	✓	✓	✓	✓	✓	✓			2KJ4244 - ■■■■■ - ■■ U1
3 265	0.44	19 000	107 000	-	0.64	1276704/391	✓	✓	✓	✓	✓	✓			2KJ4244 - ■■■■■ - ■■ T1
2 943	0.49	19 000	107 000	-	0.77	5754034/1955	✓	✓	✓	✓	✓	✓			2KJ4244 - ■■■■■ - ■■ S1
2 717	0.53	19 000	107 000	-	0.91	5311416/1955	✓	✓	✓	✓	✓	✓			2KJ4244 - ■■■■■ - ■■ R1
2 480	0.58	19 000	107 000	-	1.08	33939048/13685	✓	✓	✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ Q1
2 058	0.7	19 000	107 000	-	1.45	1609179/782	✓	✓	✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ P1
1 937	0.75	19 000	107 000	-	1.65	12873432/6647	✓	✓	✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ N1
1 829	0.79	19 000	107 000	-	1.87	2145572/1173	✓	✓	✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ M1
1 556	0.93	19 000	107 000	-	2.4	15214056/9775	✓	✓	✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ L1
1 333	1.1	19 000	107 000	-	3.1	2606604/1955			✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ K1
1 172	1.2	19 000	107 000	-	3.8	2291861/1955			✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ J1
989	1.5	19 000	107 000	-	5.1	44471856/44965			✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ H1
862	1.7	19 000	107 000	-	6.8	42131232/48875			✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ G1
810	1.8	19 000	107 000	-	4.5	21845824/26979	✓	✓	✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ F1
689	2.1	19 000	107 000	-	6	154906752/224825	✓	✓	✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ E1
590	2.5	19 000	107 000	-	8	26539968/44965			✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ D1
519	2.8	19 000	107 000	-	10	23335312/44965			✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ C1
438	3.3	19 000	107 000	-	14	452804352/1034195			✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ B1
382	3.8	19 000	107 000	-	18	428972544/1124125			✓	✓	✓	✓	✓		2KJ4244 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

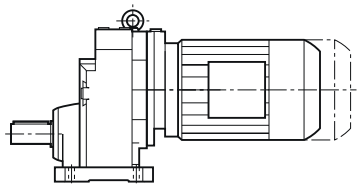
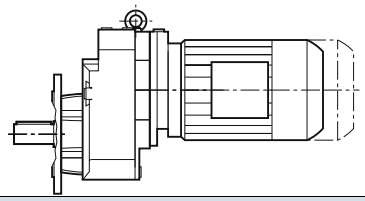
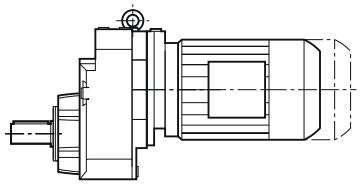
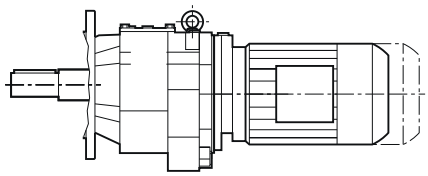
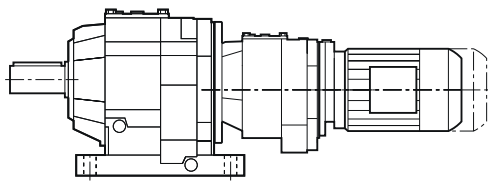
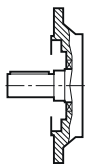
Dimensional drawing overview

Information about dimensional drawings can be found in chapter "Introduction" on page 1/18.

Design	Size	Dimensional drawing on page
Helical geared motor Z and D		
Foot-mounted design		
 G_D087_XX_00184	D/Z19	3/231
	D/Z29	3/234
	D/Z39	3/238
	D/Z49	3/242
	D/Z59	3/245
	D/Z69	3/248
	D/Z79	3/251
	D/Z89	3/254
	D/Z109	3/259
	D/Z129	3/264
	D/Z149	3/269
	D/Z169	3/273
	D/Z189	3/277
Foot/flange-mounted design		
 G_D087_XX_00185	DB/ZB29	3/235
	DB/ZB39	3/239
	DB/ZB49	3/242
	DB/ZB59	3/245
	DB/ZB69	3/248
	DB/ZB79	3/251
	DB/ZB89	3/254
Flange-mounted design		
 G_D087_XX_00186	DF/ZF19	3/232
	DF/ZF29	3/236
	DF/ZF39	3/240
	DF/ZF49	3/243
	DF/ZF59	3/246
	DF/ZF69	3/249
	DF/ZF79	3/252
	DF/ZF89	3/255
	DF/ZF109	3/260
	DF/ZF129	3/265
	DF/ZF149	3/270
	DF/ZF169	3/274
	DF/ZF189	3/278
Flange-mounted design with VLplus reinforced bearing system		
	DF/ZF89	3/256
	DF/ZF109	3/261
	DF/ZF129	3/266
	DF/ZF149	3/271
	DF/ZF169	3/275
Flange-mounted design with XLplus reinforced bearing system		
	DF/ZF89	3/257
	DF/ZF109	3/262
	DF/ZF129	3/267
	DF/ZF149	3/272
	DF/ZF169	3/276
Housing flange design		
 G_D087_XX_00187	DZ/ZZ19	3/233
	DZ/ZZ29	3/237
	DZ/ZZ39	3/241
	DZ/ZZ49	3/244
	DZ/ZZ59	3/247
	DZ/ZZ69	3/250
	DZ/ZZ79	3/253
	DZ/ZZ89	3/258
	DZ/ZZ109	3/263
	DZ/ZZ129	3/268

3

Dimensional drawing overview (continued)

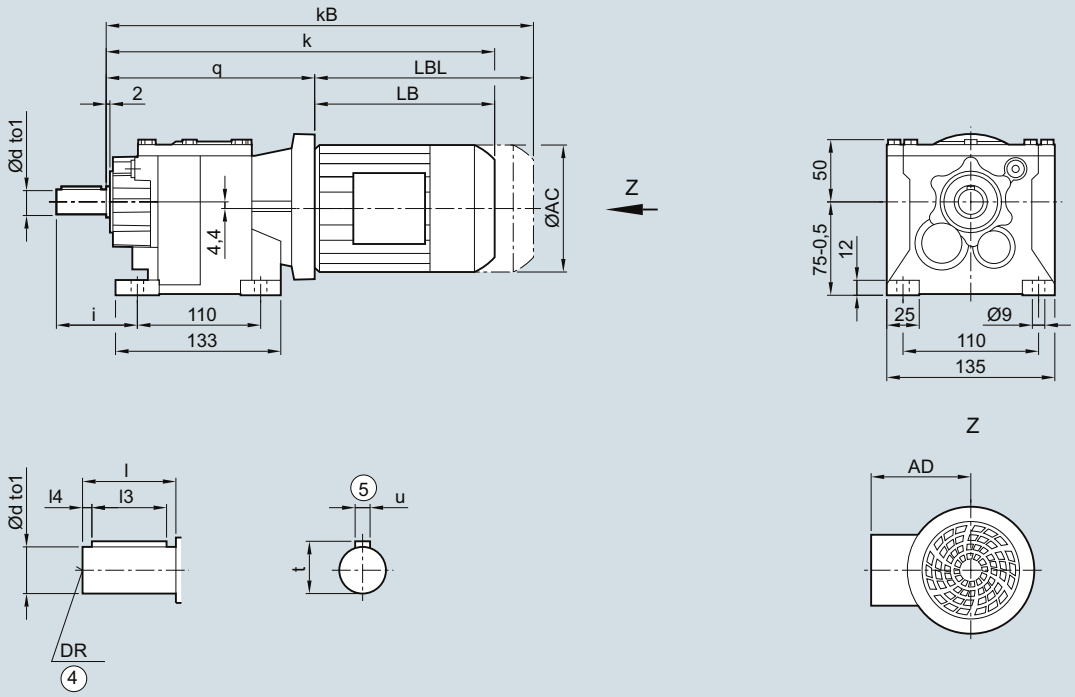
Design	Frame size	Dimensional drawing on page
Helical geared motor E		
Foot-mounted design		
	E39	3/279
	E49	3/282
	E69	3/285
	E89	3/288
	E109	3/291
	E129	3/294
	E149	3/297
Flange-mounted design		
	EF39	3/280
	EF49	3/283
	EF69	3/286
	EF89	3/289
	EF109	3/292
	EF129	3/295
	EF149	3/298
Housing flange design		
	EZ39	3/281
	EZ49	3/284
	EZ69	3/287
	EZ89	3/290
	EZ109	3/293
	EZ129	3/296
	EZ149	3/299
Cooling tower geared motor		
	ZKF89	3/300
	ZKF109	3/301
	ZKF129	3/302
	ZKF149	3/303
	ZKF169	3/304
	ZKF189	3/305
	EKF89	3/306
	EKF109	3/307
	EKF129	3/308
	EKF149	3/309
Helical tandem geared motor		
	D./Z.29-D/Z19 ... D.189-D/Z69	3/310
Additional versions and options		
Inner contour of the flange design		
	DF/ZF19 ... DF/ZF189	3/311
	EF39 ... EF149	3/312

3

D/Z19 gearbox in a foot-mounted design

DZ030

D/Z19



Shaft	d	to1	l	l3	l4	t	u	i	DR
	16	k6	28	22	3	18.0	5	46	M5
	16	k6	40	32	4	18.0	5	58	M8
	20	k6	40	32	4	22.5	6	58	M6x16

Motor[1)]	LHN63	LHN71	LEN80M
q	159.5	167.5	168.0
AC	118.0	139.0	154.5
AD[2)]	110.0	120.0	145.5
k	338.5	360.0	403.5
kB	383.5	415.0	463.5
LB	179.0	192.5	235.5
LBL	224.0	247.5	295.5

④ DIN 332

1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1

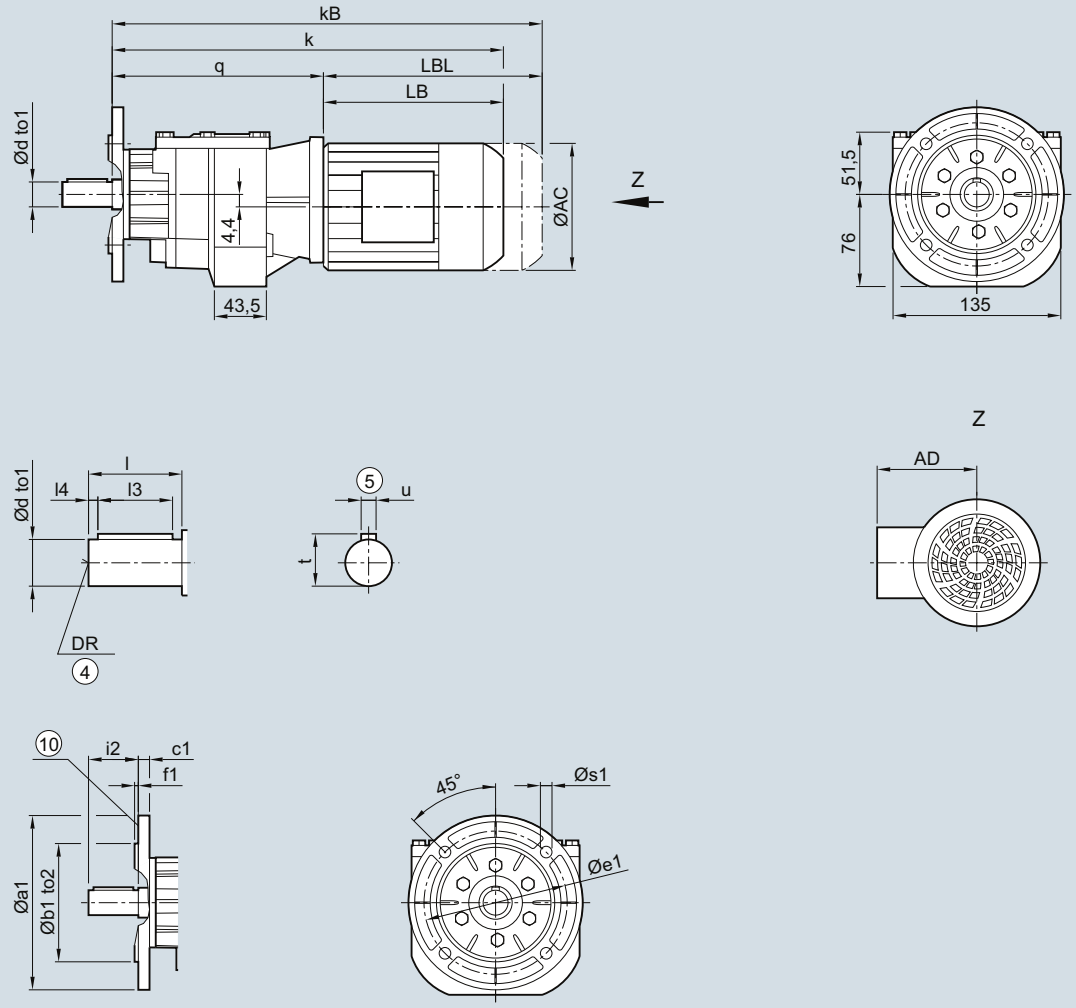
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF19 gearbox in a flange-mounted design

DZF030

DF/ZF19



Flange	a1	b1	to2	c1	e1	f1	s1
	120	80	j6	8	100	3.0	6.6
	140	95	j6	9	115	3.0	9.0
	160	110	j6	9	130	3.5	9.0

Shaft	d	to1	l	l3	l4	t	u	i2	DR
	16	k6	28	22	3	18.0	5	28	M5
	16	k6	40	32	4	18.0	5	40	M8
	20	k6	40	32	4	22.5	6	40	M6x16

Motor[1)]	LHN63	LHN71	LEN80M
q	168.5	176.5	177.0
AC	118.0	139.0	154.5
AD[2)]	110.0	120.0	145.5
k	347.5	369.0	412.5
kB	392.5	424.0	472.5
LB	179.0	192.5	235.5
LBL	224.0	247.5	295.5

④ DIN 332
⑩ For inner contour see page 3/311
1) Dimensions for LHN(S3-75%), LEN(IE2)

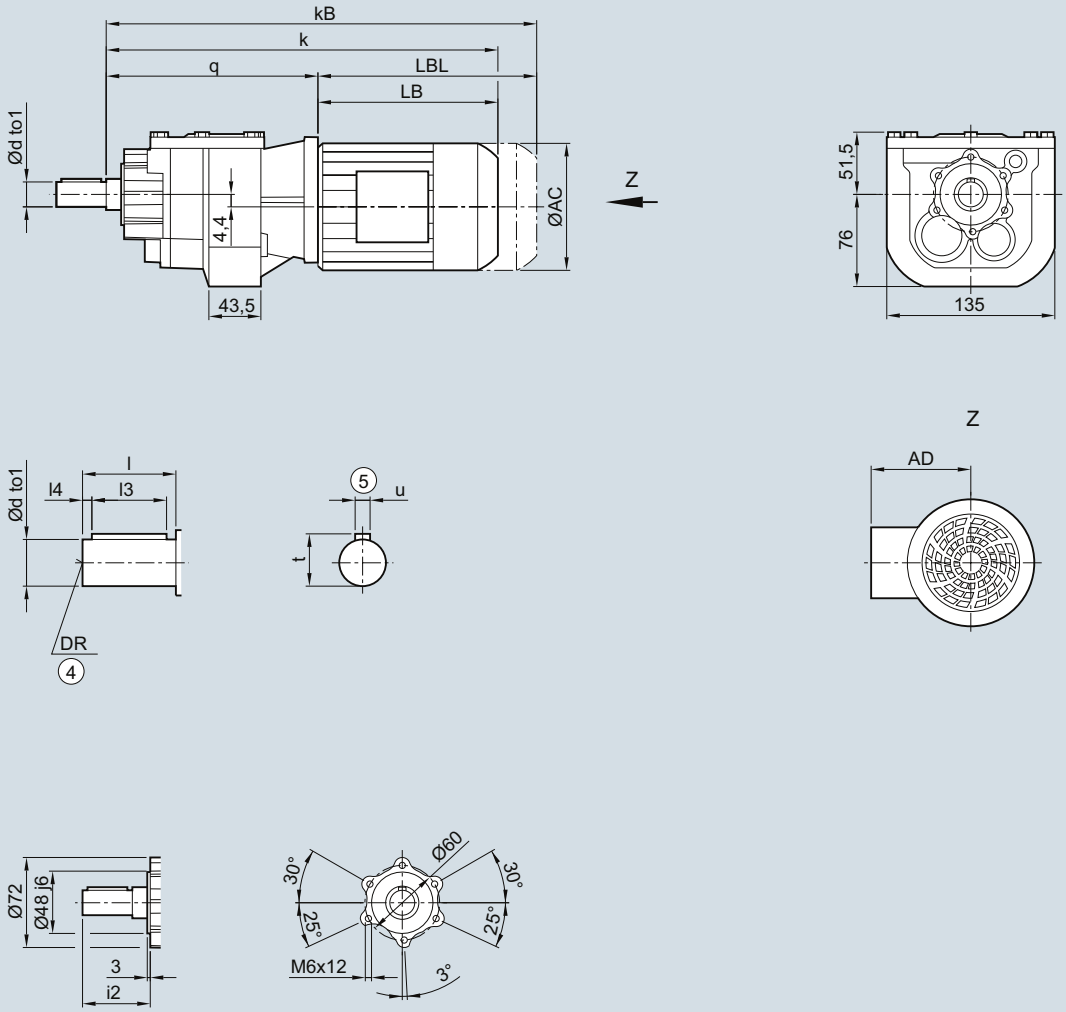
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ19 gearbox in a housing flange design

DZZ030

DZ/ZZ19



Shaft	d	to1	l	l3	l4	t	u	i2	DR
	16	k6	28	22	3	18.0	5	42	M5
	16	k6	40	32	4	18.0	5	54	M8
	20	k6	40	32	4	22.5	6	54	M6x16

Motor[1)]	LHN63	LHN71	LEN80M
q	168.5	176.5	177.0
AC	118.0	139.0	154.5
AD[2)]	110.0	120.0	145.5
k	347.5	369.0	412.5
kB	392.5	424.0	472.5
LB	179.0	192.5	235.5
LBL	224.0	247.5	295.5

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

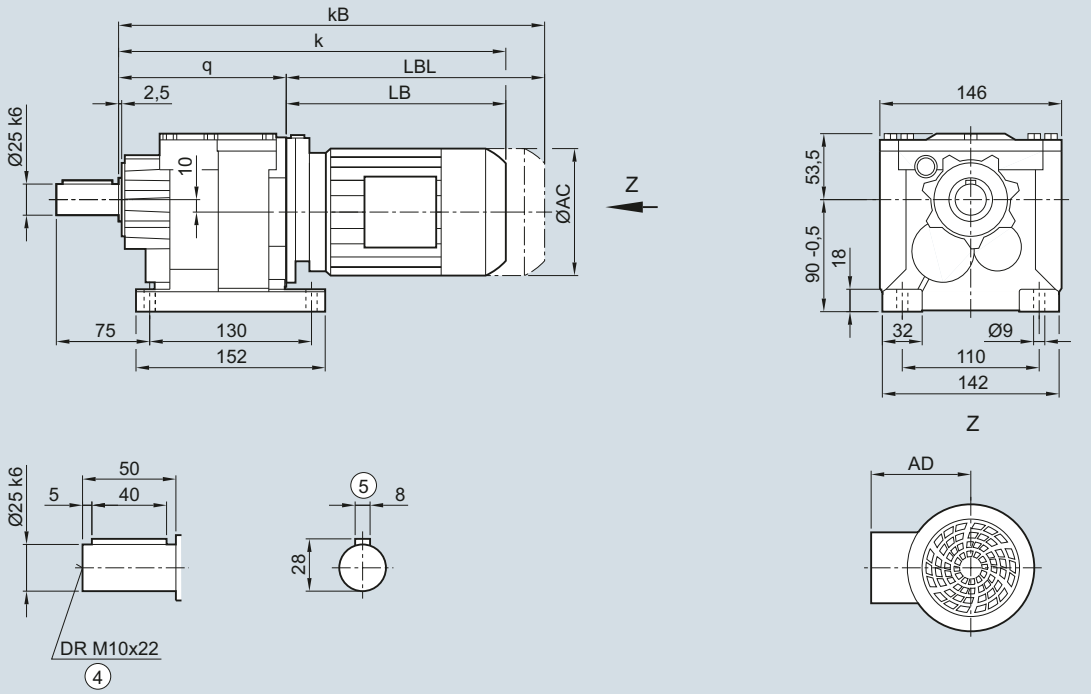
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

D/Z29 gearbox in a foot-mounted design

DZ030

D/Z29



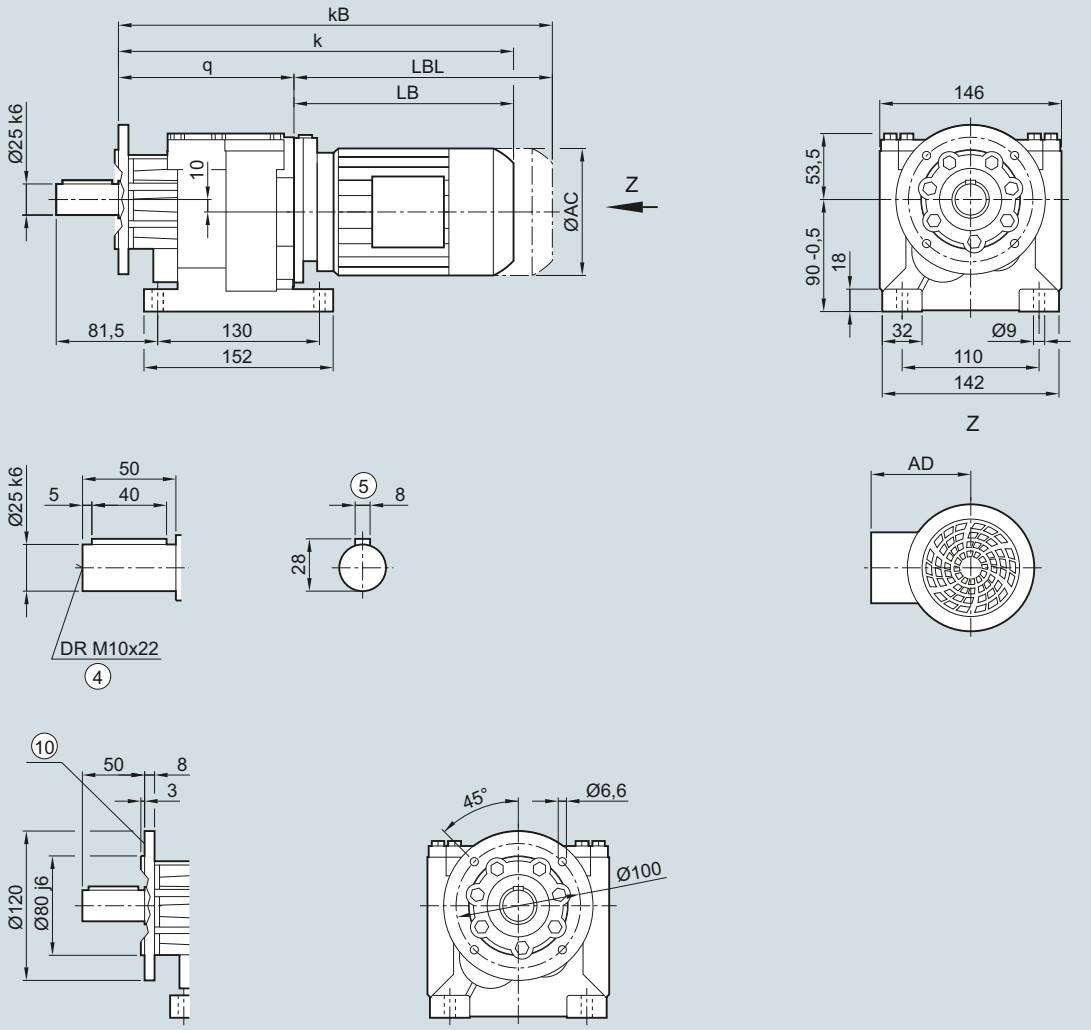
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
q	135.0	135.0	135.0	135.0	135.0	135.0
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	347.5	369.0	420.5	481.5	456.5	558.5
kB	392.5	424.0	480.5	551.5	526.5	637.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

DB/ZB29 gearbox in a foot/flange-mounted design

DZB030

DB/ZB29



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
q	141.0	141.0	141.0	141.0	141.0	141.0
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	353.5	375.0	426.5	487.5	462.5	564.5
kB	398.5	430.0	486.5	557.5	532.5	643.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

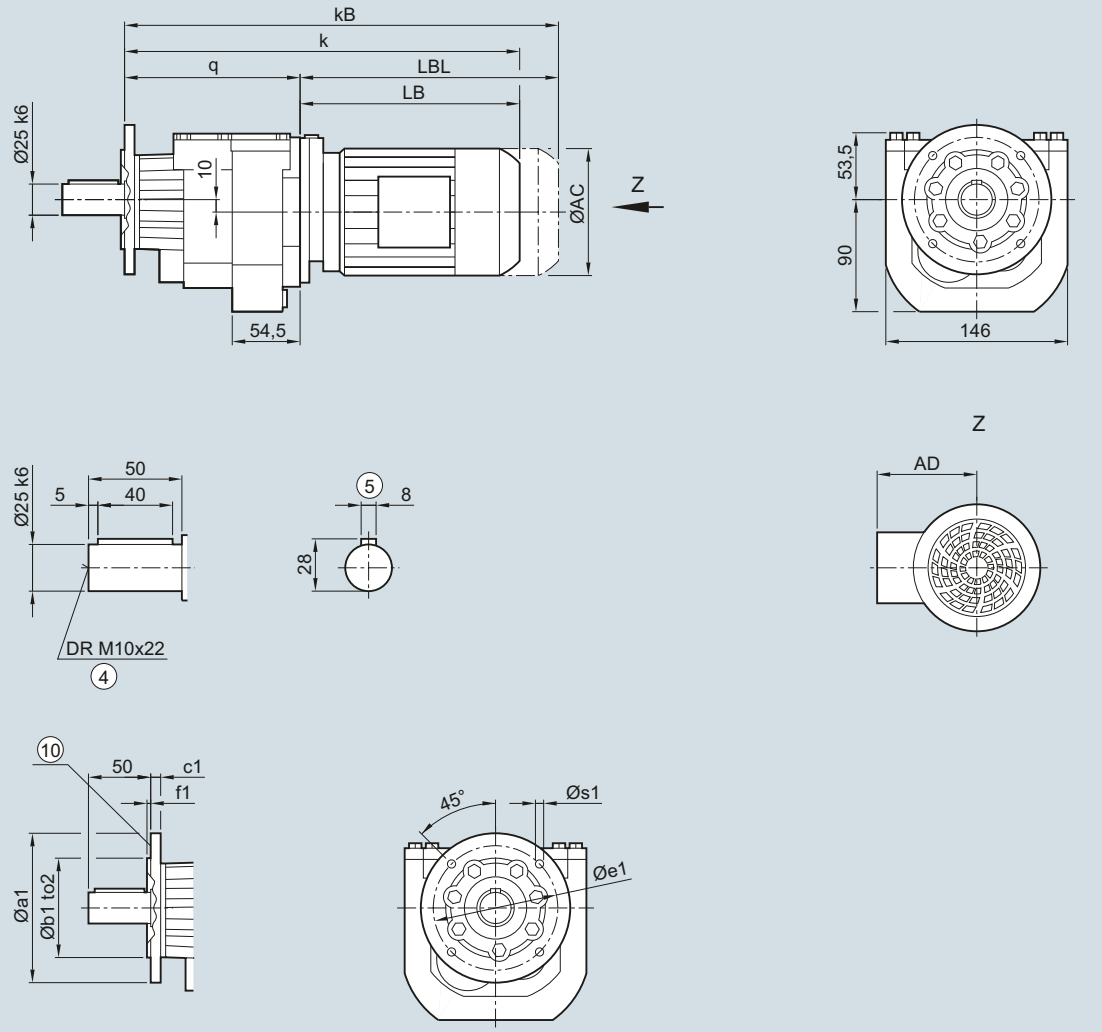
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF29 gearbox in a flange-mounted design

DZF030

DF/ZF29



Flange	a1	b1	to2	c1	e1	f1	s1
	120	80	j6	8	100	3.0	6.6
	140	95	j6	9	115	3.0	9.0
	160	110	j6	9	130	3.5	9.0

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
q	141.0	141.0	141.0	141.0	141.0	141.0
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	353.5	375.0	426.5	487.5	462.5	564.5
kB	398.5	430.0	486.5	557.5	532.5	643.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

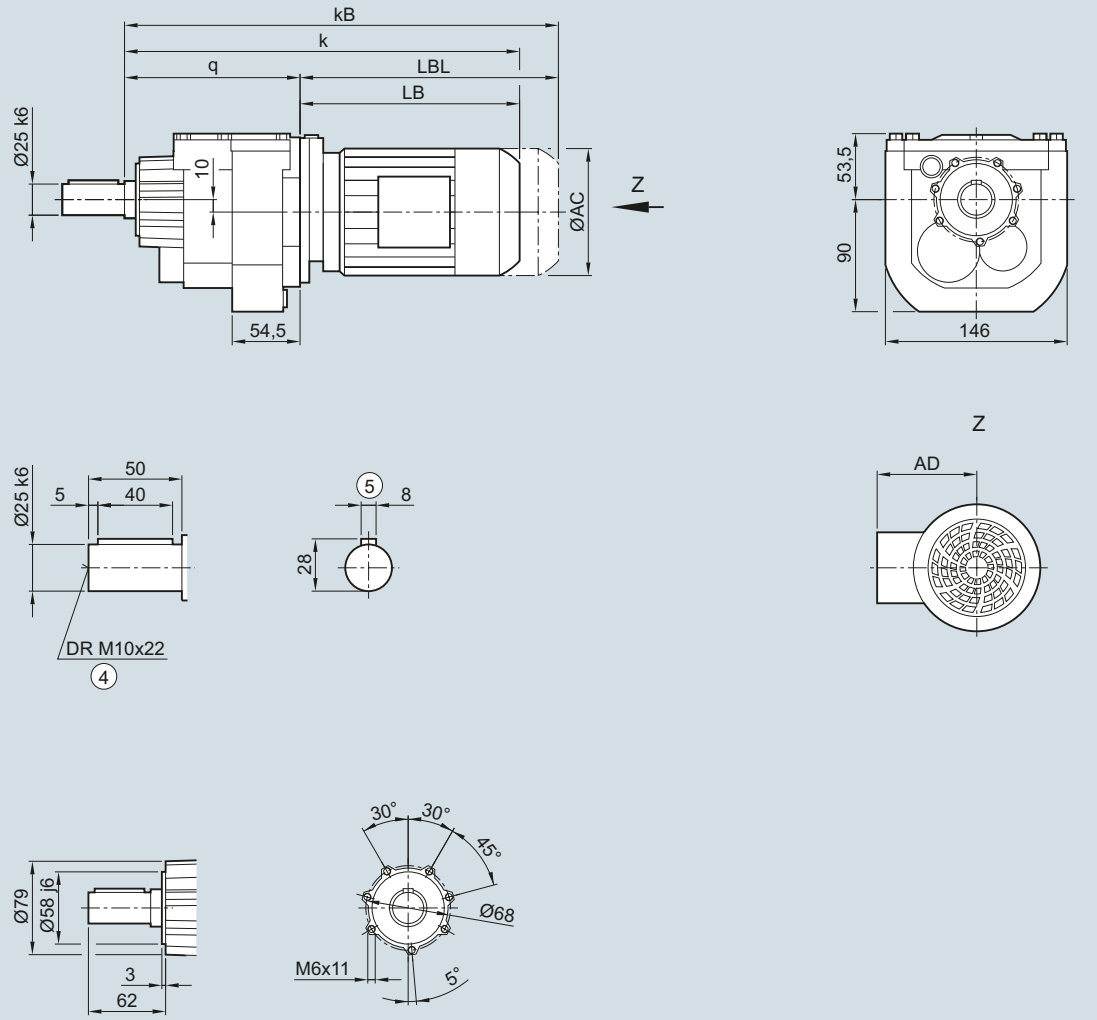
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ29 gearbox in a housing flange design

DZZ030

DZ/ZZ29



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
q	141.0	141.0	141.0	141.0	141.0	141.0
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	353.5	375.0	426.5	487.5	462.5	564.5
kB	398.5	430.0	486.5	557.5	532.5	643.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

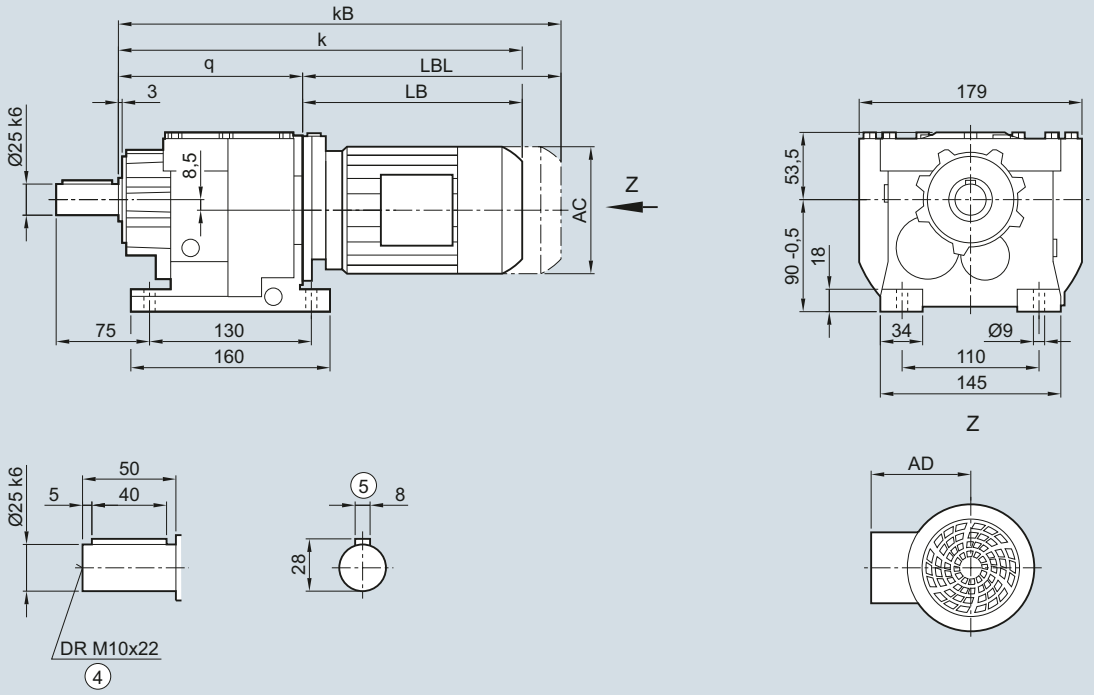
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

D/Z39 gearbox in a foot-mounted design

DZ030

D/Z39



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
q	148.0	148.0	148.0	148.0	148.0	148.0	148.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	360.5	382.0	433.5	494.5	469.5	571.5	591.0
kB	405.5	437.0	493.5	564.5	539.5	650.0	664.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

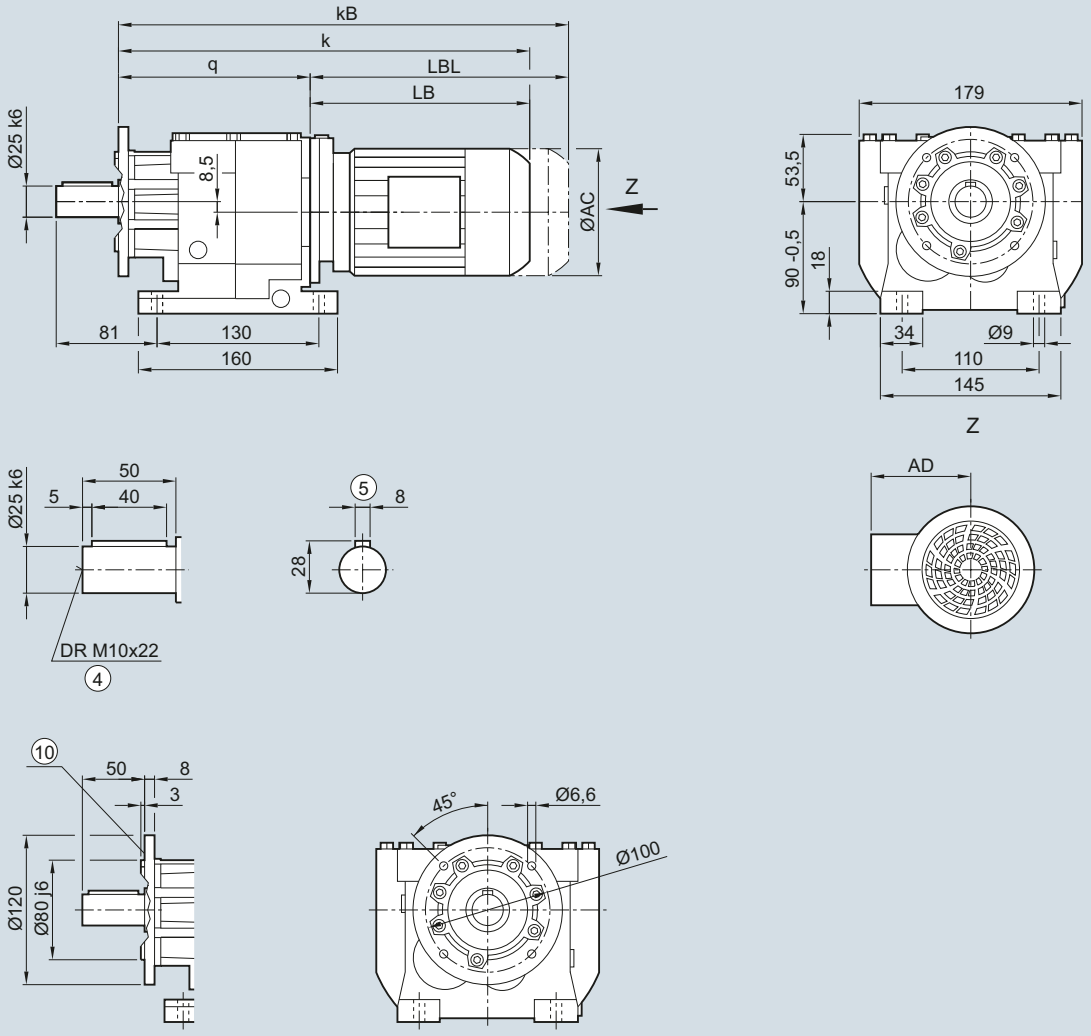
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DB/ZB39 gearbox in a foot/flange-mounted design

DZB030

DB/ZB39



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
q	154.0	154.0	154.0	154.0	154.0	154.0	154.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	366.5	388.0	439.5	500.5	475.5	577.5	597.0
kB	411.5	443.0	499.5	570.5	545.5	656.0	670.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

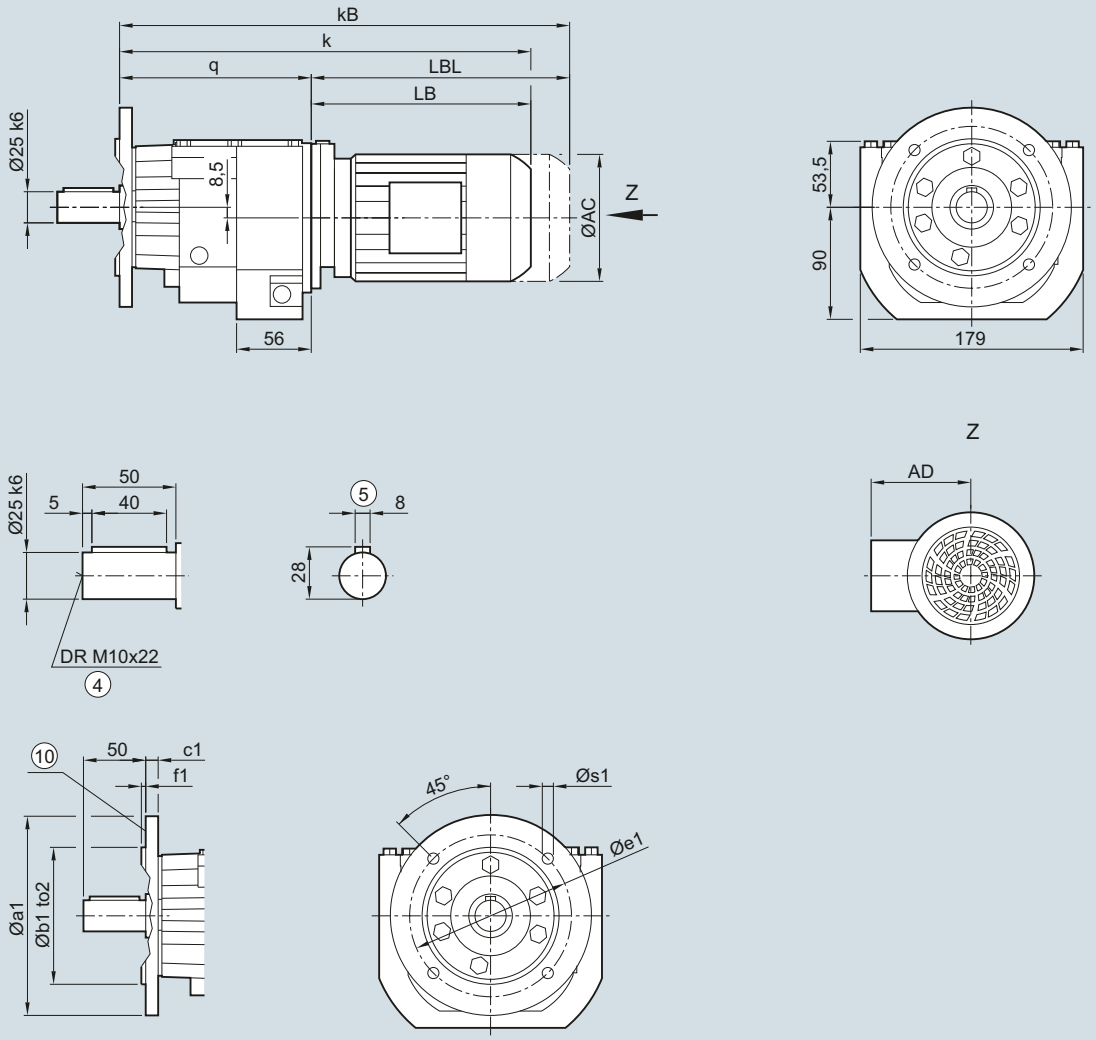
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF39 gearbox in a flange-mounted design

DZF030

DF/ZF39



Flange	a1	b1	to2	c1	e1	f1	s1
	120	80	j6	8	100	3.0	6.6
	160	110	j6	10	130	3.5	9.0
	200	130	j6	12	165	3.5	11.0

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
q	154.0	154.0	154.0	154.0	154.0	154.0	154.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	366.5	388.0	439.5	500.5	475.5	577.5	597.0
kB	411.5	443.0	499.5	570.5	545.5	656.0	670.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

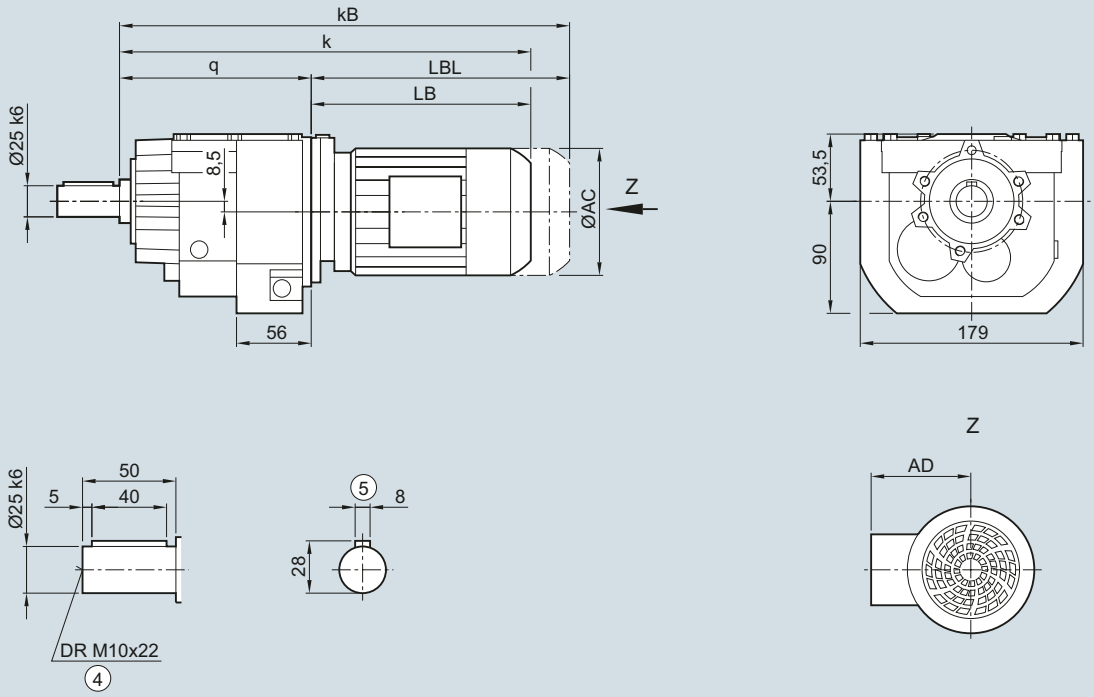
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ39 gearbox in a housing flange design

DZZ030

DZ/ZZ39



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
q	154.0	154.0	154.0	154.0	154.0	154.0	154.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	366.5	388.0	439.5	500.5	475.5	577.5	597.0
kB	411.5	443.0	499.5	570.5	545.5	656.0	670.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

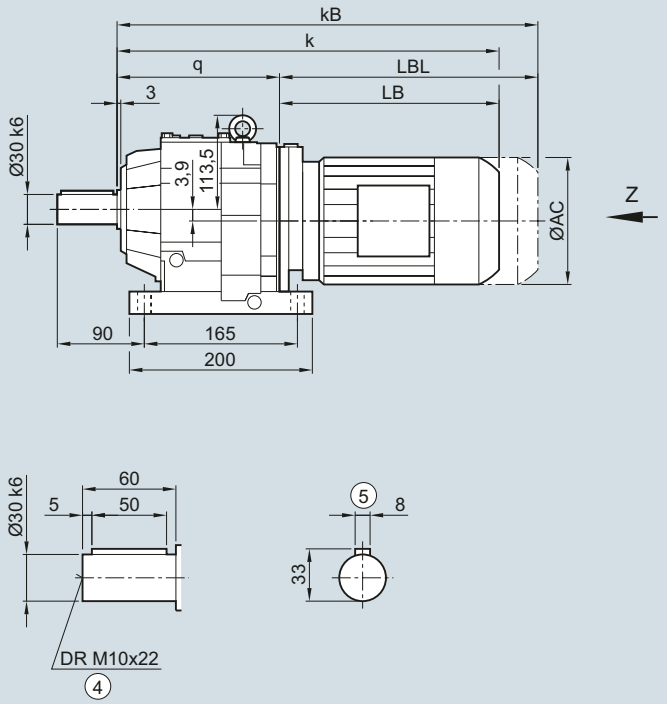
2) AD depends on the motor options, for other dimensions see page 7/20.

3

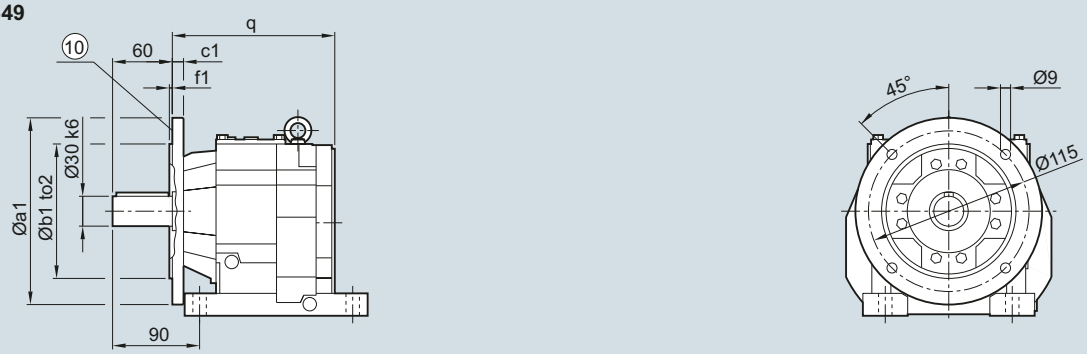
D/Z49 gearbox in a foot-mounted design and DB/ZB49 gearbox in a foot/flange-mounted design

DZ030, DZB030

D/Z49



DB/ZB49



Flange	a1	b1	to2	c1	e1	f1	s1
	140	95	j6	10	115	3.0	9.0
	160	110	j6	10	130	3.5	9.0

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	382.0	403.5	455.0	516.0	491.0	593.0	612.5	701.5	656.5
kB	427.0	458.5	515.0	586.0	561.0	671.5	685.5	806.0	761.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1

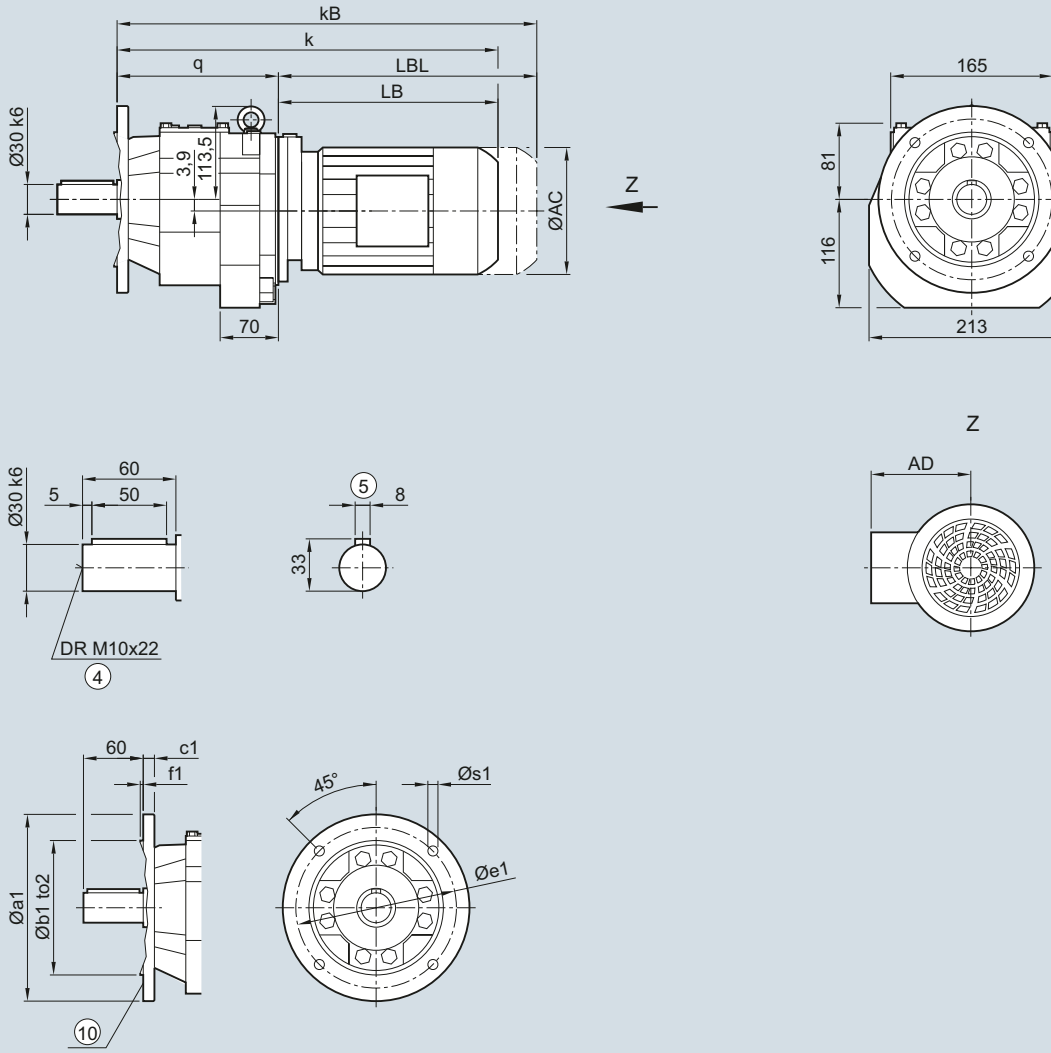
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF49 gearbox in a flange-mounted design

DZF030

DF/ZF49



Flange	a1	b1	to2	c1	e1	f1	s1
	140	95	j6	10	115	3.0	9.0
	160	110	j6	10	130	3.5	9.0
	200	130	j6	12	165	3.5	11.0

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	382.0	403.5	455.0	516.0	491.0	593.0	612.5	701.5	656.5
kB	427.0	458.5	515.0	586.0	561.0	671.5	685.5	806.0	761.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

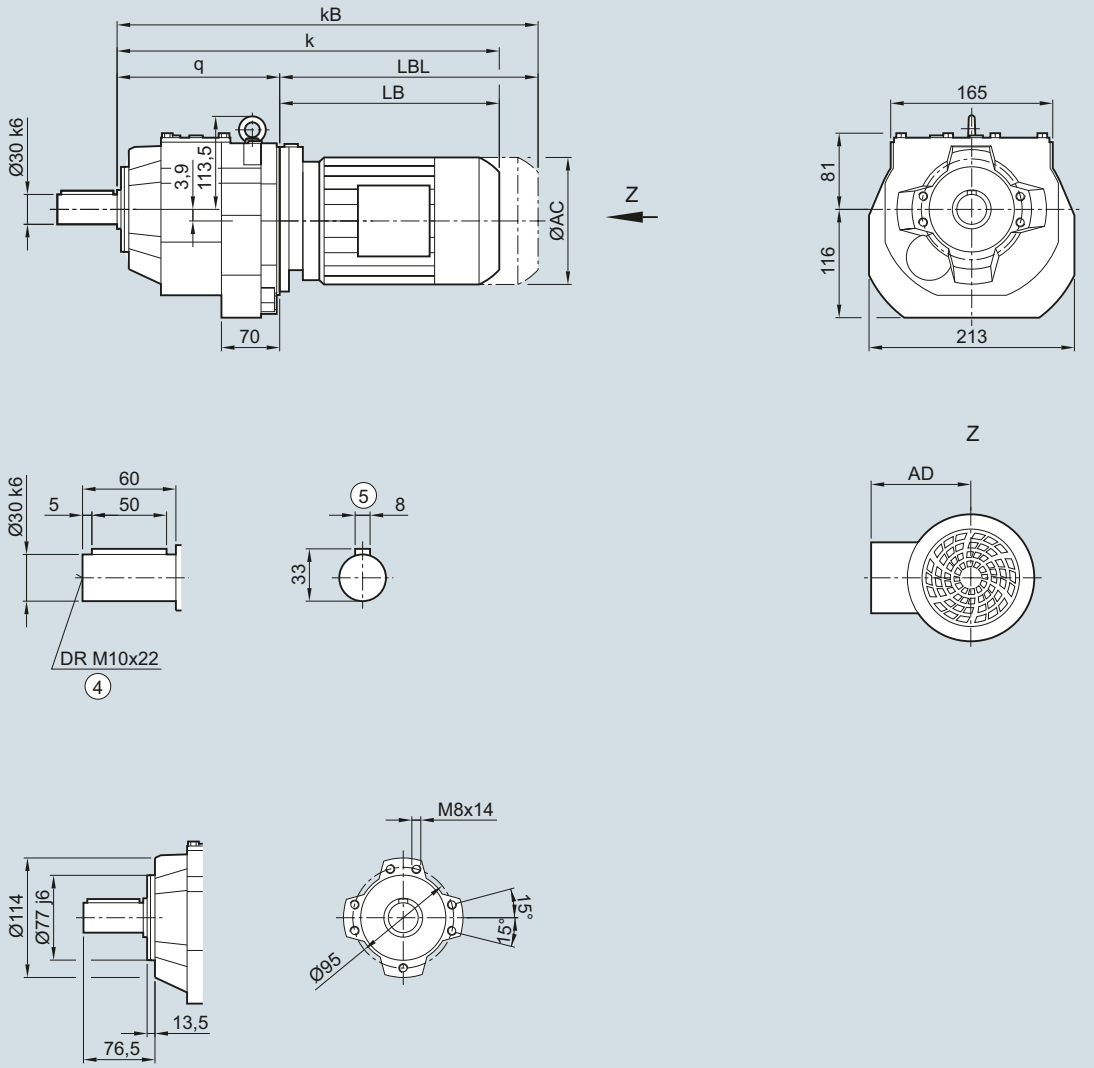
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ49 gearbox in a housing flange design

DZZ030

DZ/ZZ49



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	382.0	403.5	455.0	516.0	491.0	593.0	612.5	701.5	656.5
kB	427.0	458.5	515.0	586.0	561.0	671.5	685.5	806.0	761.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

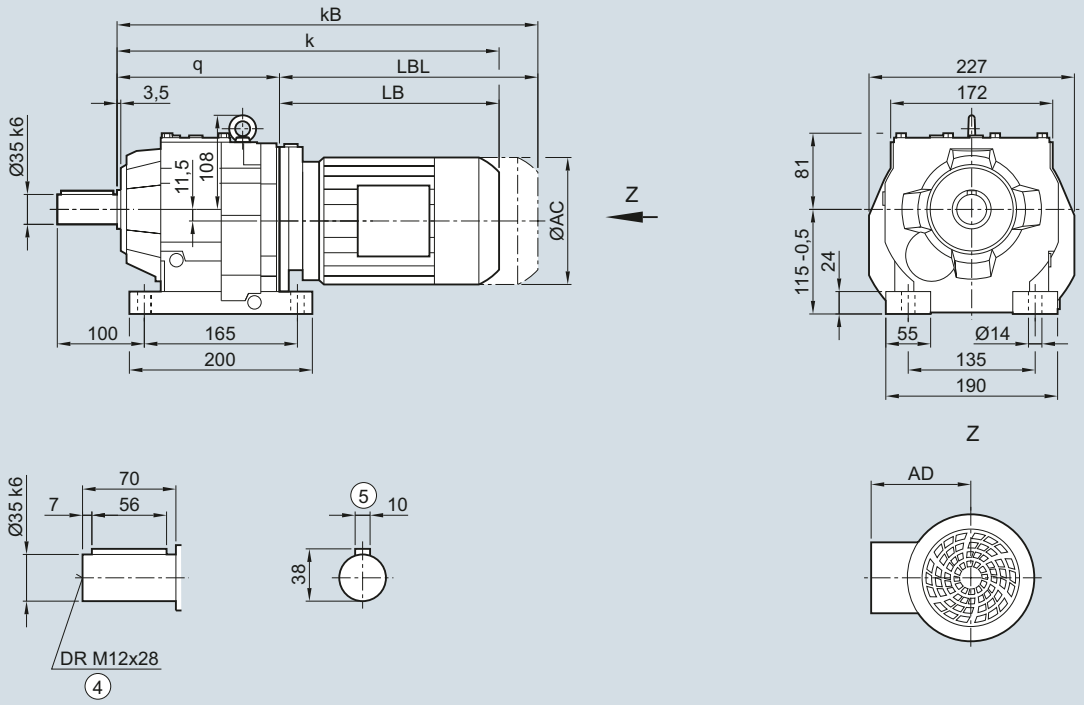
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

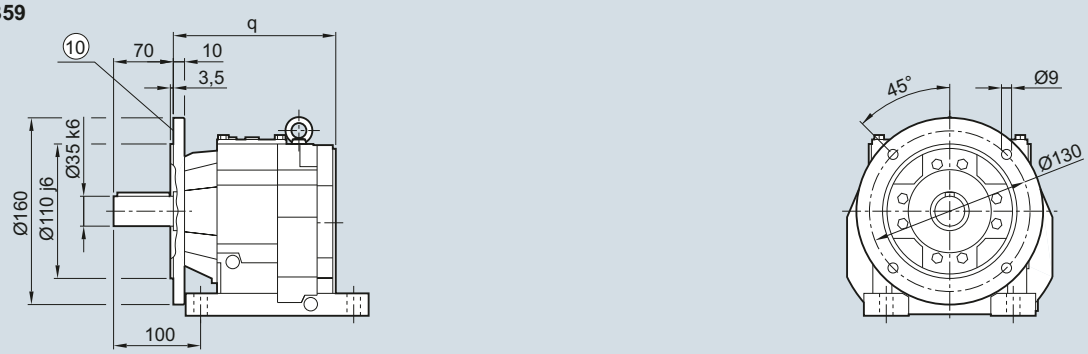
D/Z59 gearbox in a foot-mounted design and DB/ZB59 gearbox in a foot/flange-mounted design

DZ030, DZB030

D/Z59



DB/ZB59



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	382.0	403.5	455.0	516.0	491.0	593.0	612.5	701.5	656.5
kB	427.0	458.5	515.0	586.0	561.0	671.5	685.5	806.0	761.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332

⑩ For inner contour see page 3/311

⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

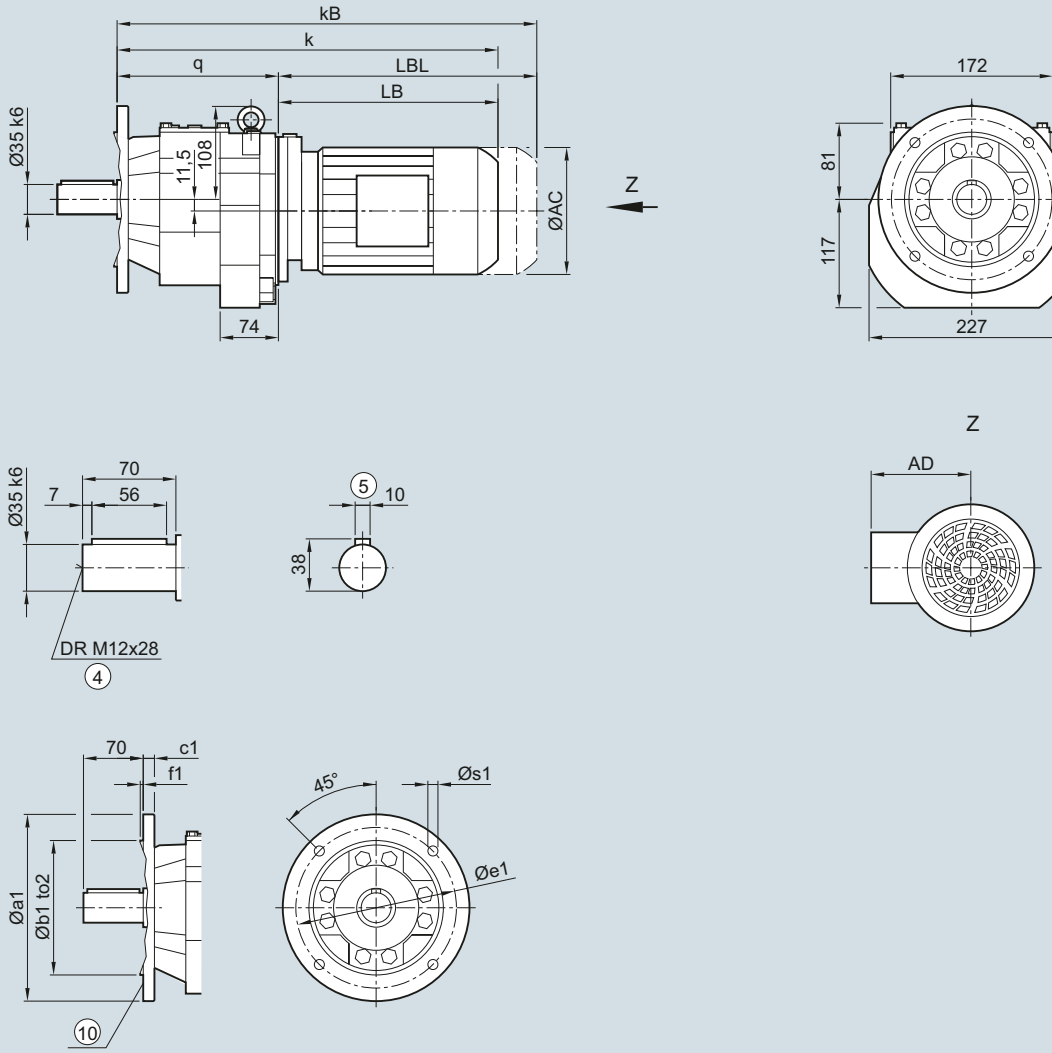
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF59 gearbox in a flange-mounted design

DZF030

DF/ZF59



Flange	a1	b1	to2	c1	e1	f1	s1
	160	110	j6	10	130	3.5	9.0
	200	130	j6	12	165	3.5	11.0
	250	180	j6	15	215	4.0	13.5

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	382.0	403.5	455.0	516.0	491.0	593.0	612.5	701.5	656.5
kB	427.0	458.5	515.0	586.0	561.0	671.5	685.5	806.0	761.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

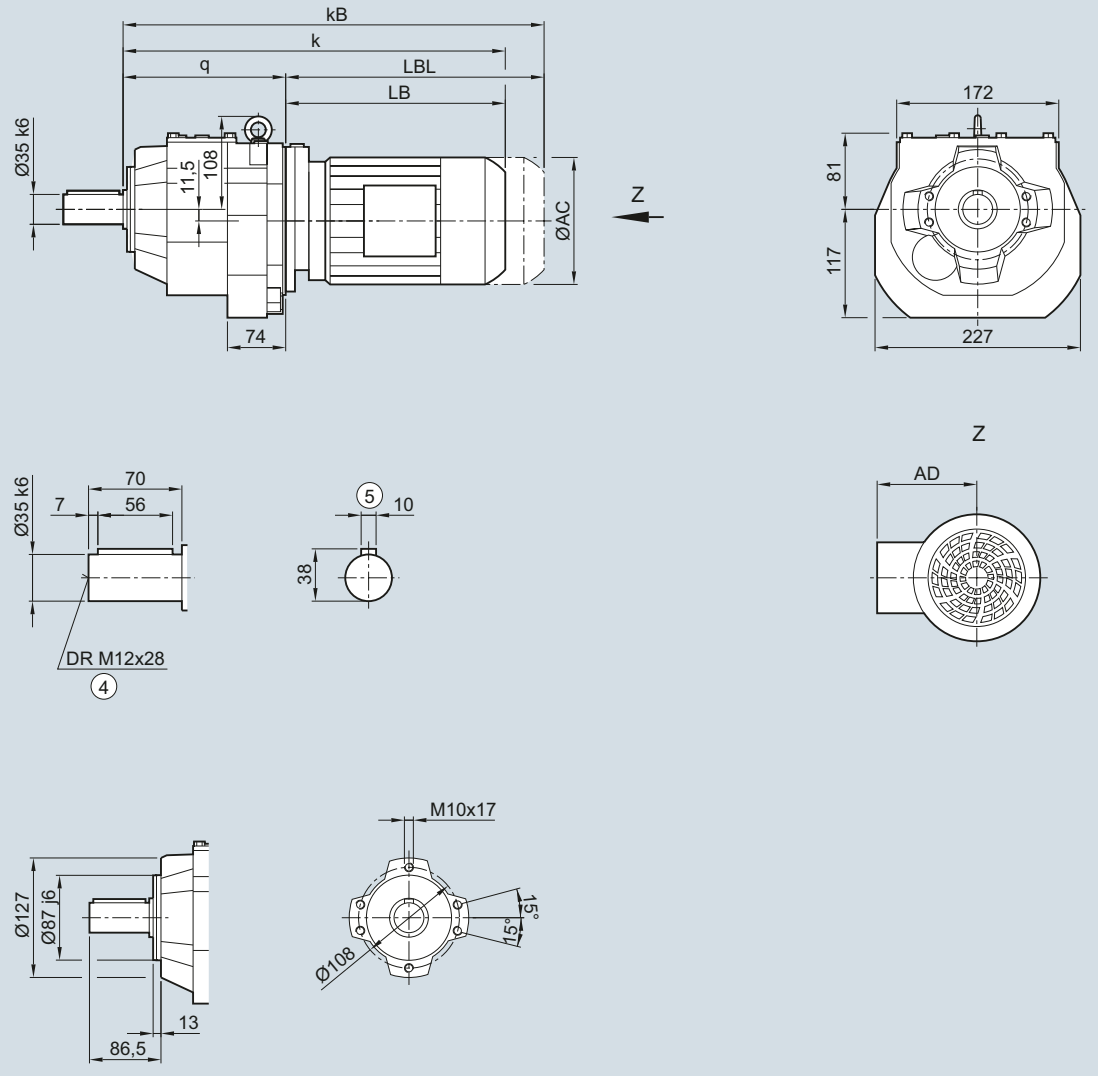
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ59 gearbox in a housing flange design

DZZ030

DZ/ZZ59



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	382.0	403.5	455.0	516.0	491.0	593.0	612.5	701.5	656.5
kB	427.0	458.5	515.0	586.0	561.0	671.5	685.5	806.0	761.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

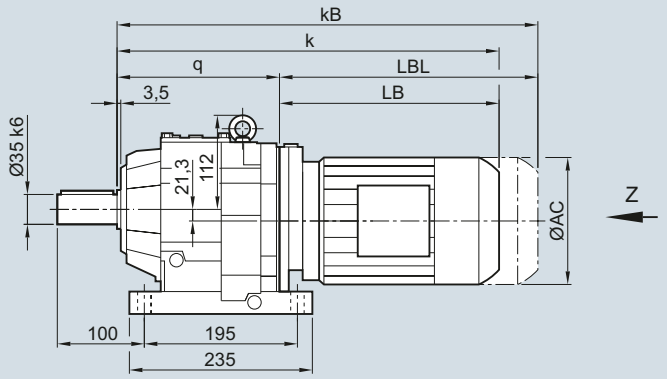
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

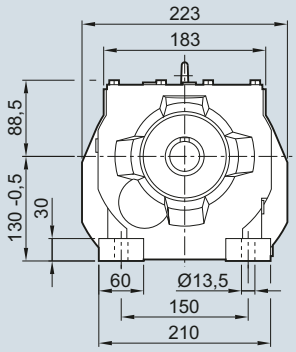
3

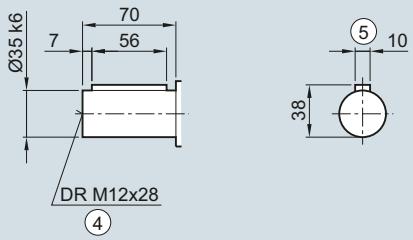
D/Z69 gearbox in a foot-mounted design and DB/ZB69 gearbox in a foot/flange-mounted design

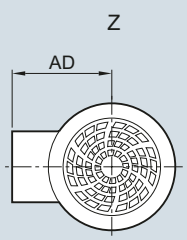
DZ030, DZB030

D/Z69

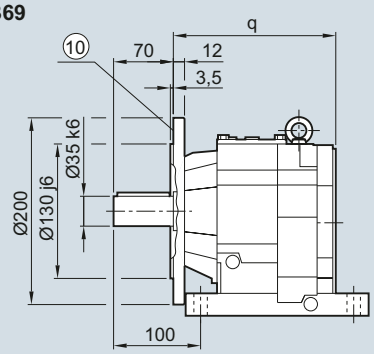


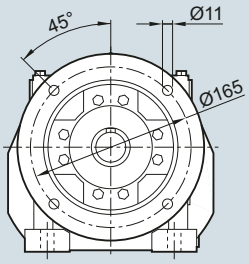






DB/ZB69





Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	407.0	428.5	480.0	541.0	516.0	618.0	637.5	726.5	681.5
kB	452.0	483.5	540.0	611.0	586.0	696.5	710.5	831.0	786.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332

⑩ For inner contour see page 3/311

⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

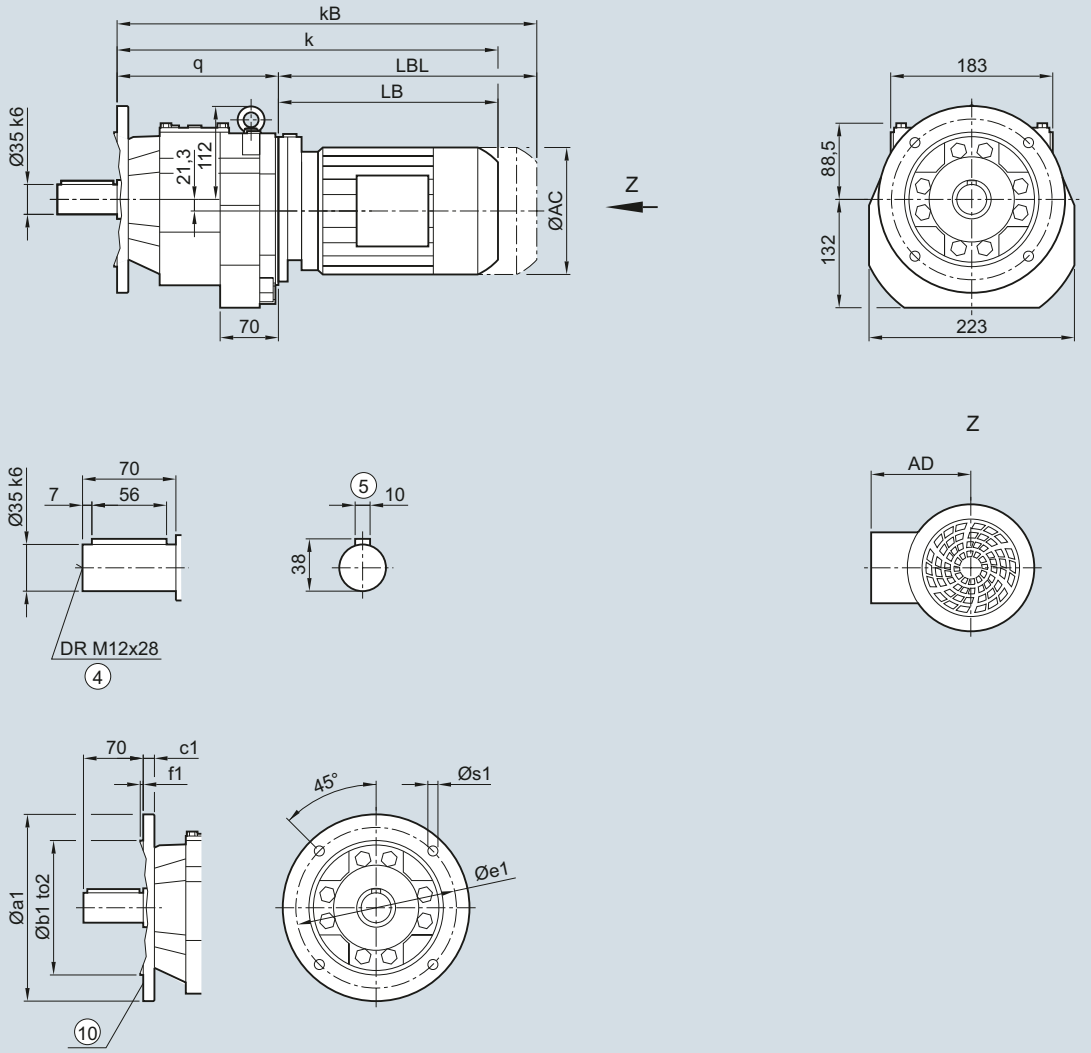
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF69 gearbox in a flange-mounted design

DZF030

DF/ZF69



Flange	a1	b1	to2	c1	e1	f1	s1
	200	130	j6	12	165	3.5	11.0
	250	180	j6	15	215	4.0	13.5

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	407.0	428.5	480.0	541.0	516.0	618.0	637.5	726.5	681.5
kB	452.0	483.5	540.0	611.0	586.0	696.5	710.5	831.0	786.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332
⑩ For inner contour see page 3/311
1) Dimensions for LHN(S3-75%), LEN(IE2)

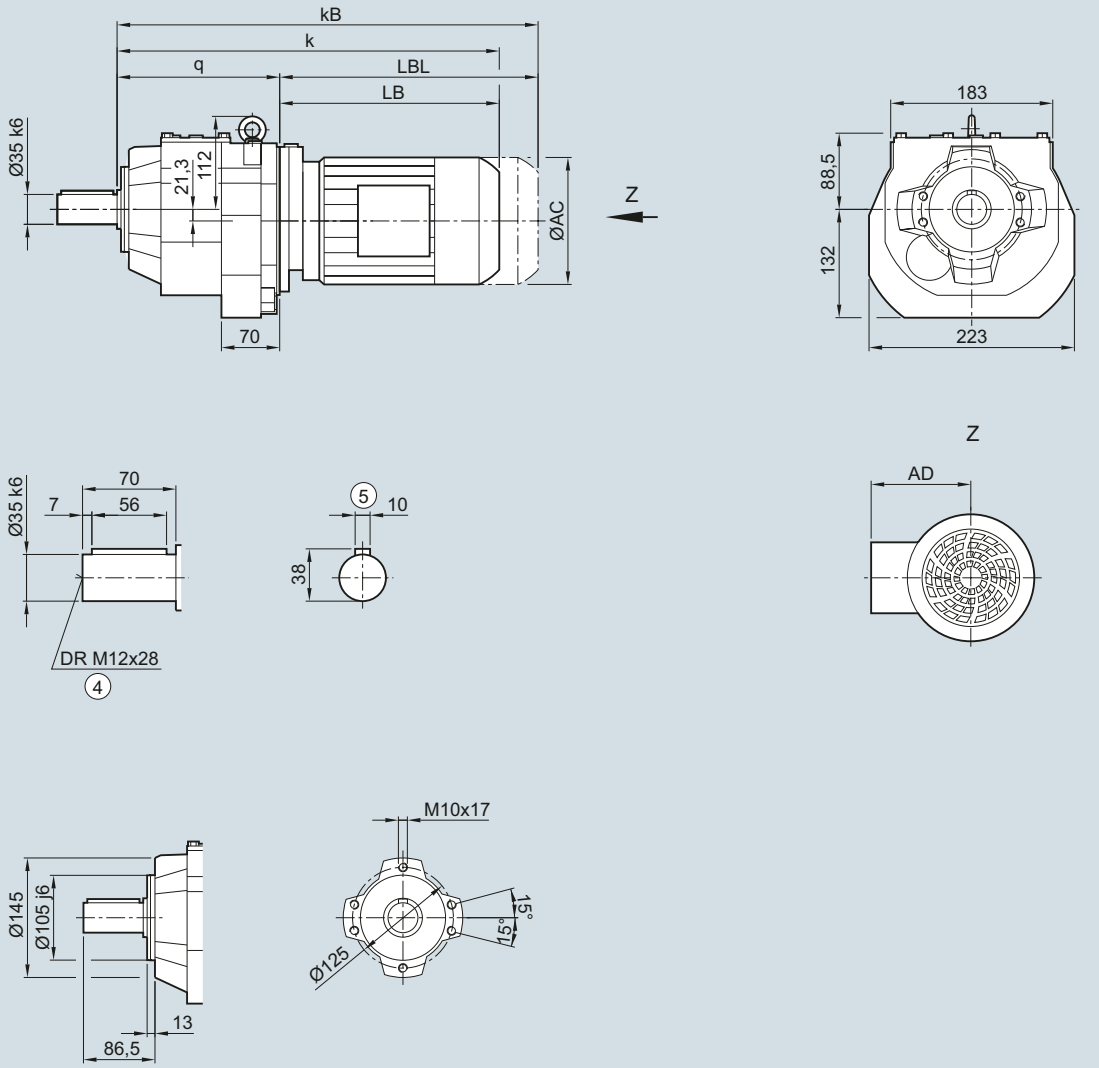
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ69 gearbox in a housing flange design

DZZ030

DZ/ZZ69



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	407.0	428.5	480.0	541.0	516.0	618.0	637.5	726.5	681.5
kB	452.0	483.5	540.0	611.0	586.0	696.5	710.5	831.0	786.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

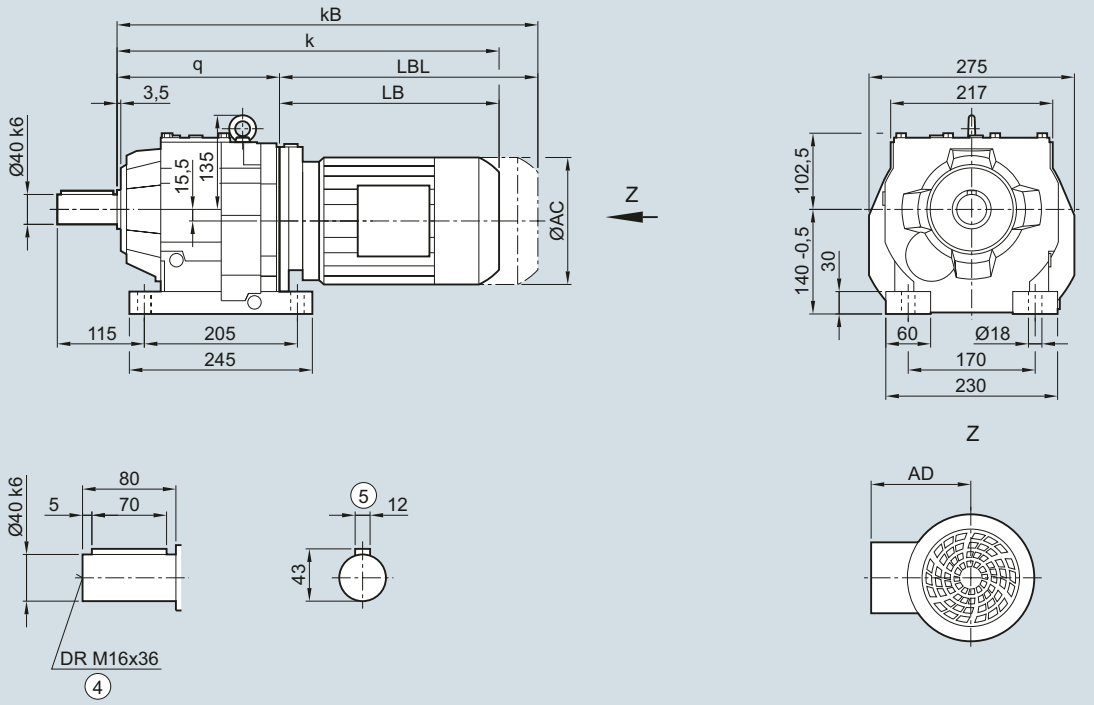
2) AD depends on the motor options, for other dimensions see page 7/20.

3

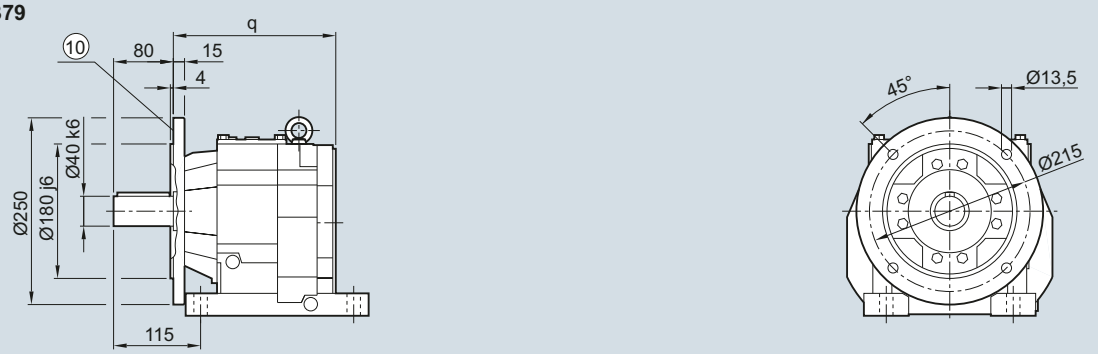
D/Z79 gearbox in a foot-mounted design and DB/ZB79 gearbox in a foot/flange-mounted design

DZ030, DZB030

D/Z79



DB/ZB79



Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M
q	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	436.5	484.0	545.0	520.0	622.0	641.5	730.5	685.5	830.5	770.5
kB	491.5	544.0	615.0	590.0	700.5	714.5	835.0	790.0	946.5	886.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	516.5	471.5	616.5	556.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	621.0	576.0	732.5	672.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

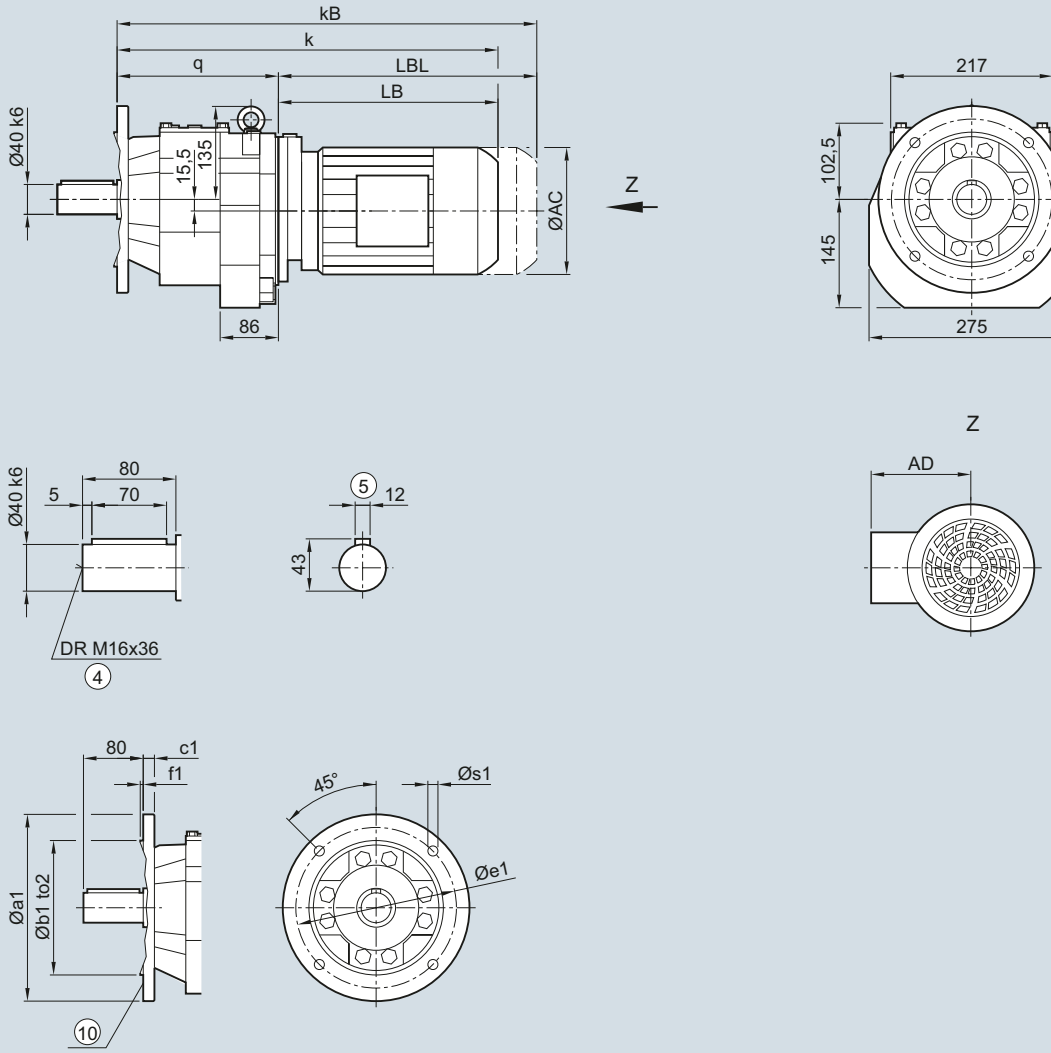
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF79 gearbox in a flange-mounted design

DZF030

DF/ZF79



Flange	a1	b1	to2	c1	e1	f1	s1
	250	180	j6	15	215	4.0	13.5
	300	230	j6	16	265	4.0	13.5
	350	250	j6	16	300	5.0	17.5

Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M
q	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	436.5	484.0	545.0	520.0	622.0	641.5	730.5	685.5	830.5	770.5
kB	491.5	544.0	615.0	590.0	700.5	714.5	835.0	790.0	946.5	886.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	516.5	471.5	616.5	556.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	621.0	576.0	732.5	672.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

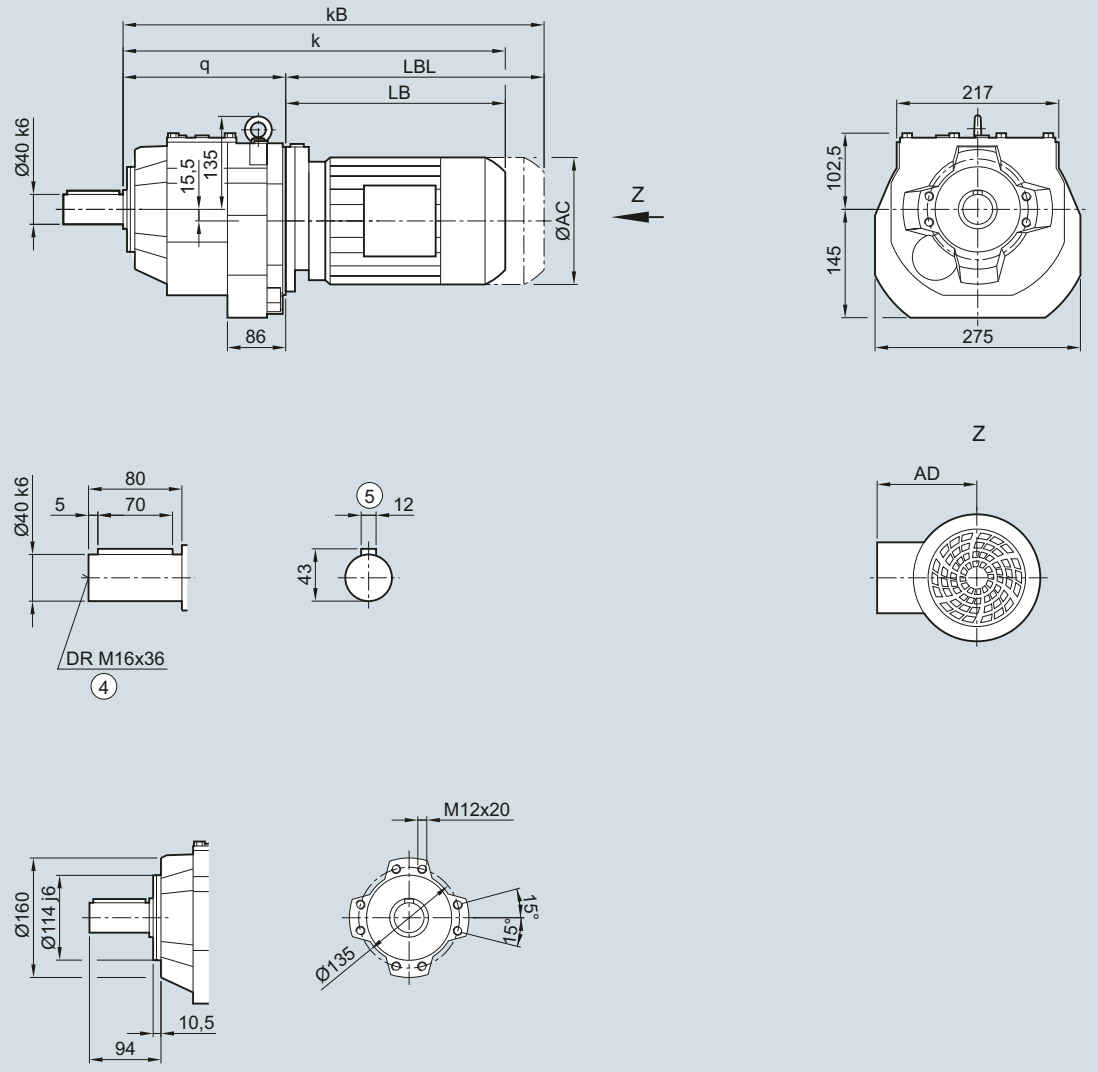
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ79 gearbox in a housing flange design

DZZ030

DZ/ZZ79



Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M
q	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	436.5	484.0	545.0	520.0	622.0	641.5	730.5	685.5	830.5	770.5
kB	491.5	544.0	615.0	590.0	700.5	714.5	835.0	790.0	946.5	886.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	516.5	471.5	616.5	556.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	621.0	576.0	732.5	672.5

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

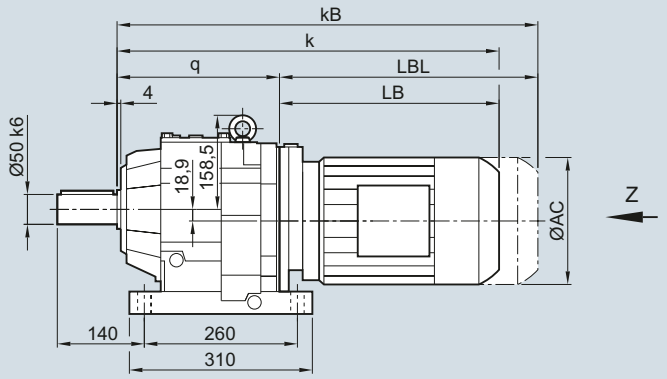
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

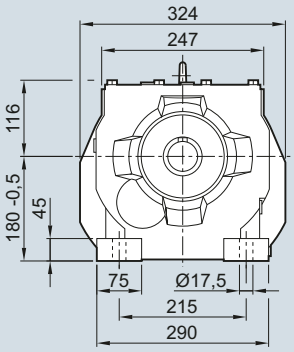
3

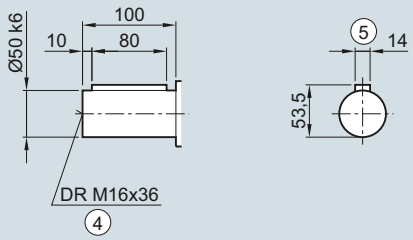
D/Z89 gearbox in a foot-mounted design and DB/ZB89 gearbox in a foot/flange-mounted design

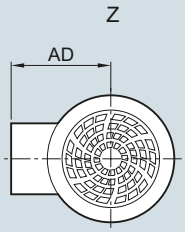
DZ030, DZB030

D/Z89

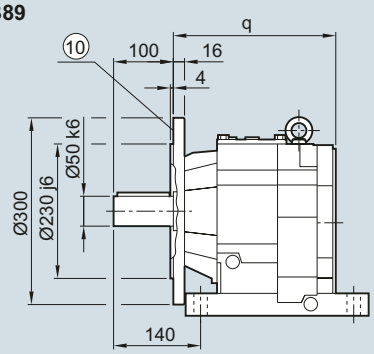


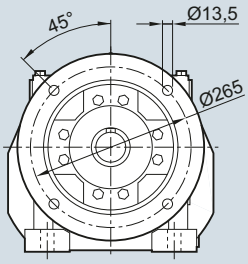






DB/ZB89





Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	526.5	587.5	562.5	660.5	680.0	769.0	724.0	869.0	809.0	888.5	918.5
kB	586.5	657.5	632.5	739.0	753.0	873.5	828.5	985.0	925.0	1 017.5	1 047.5
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

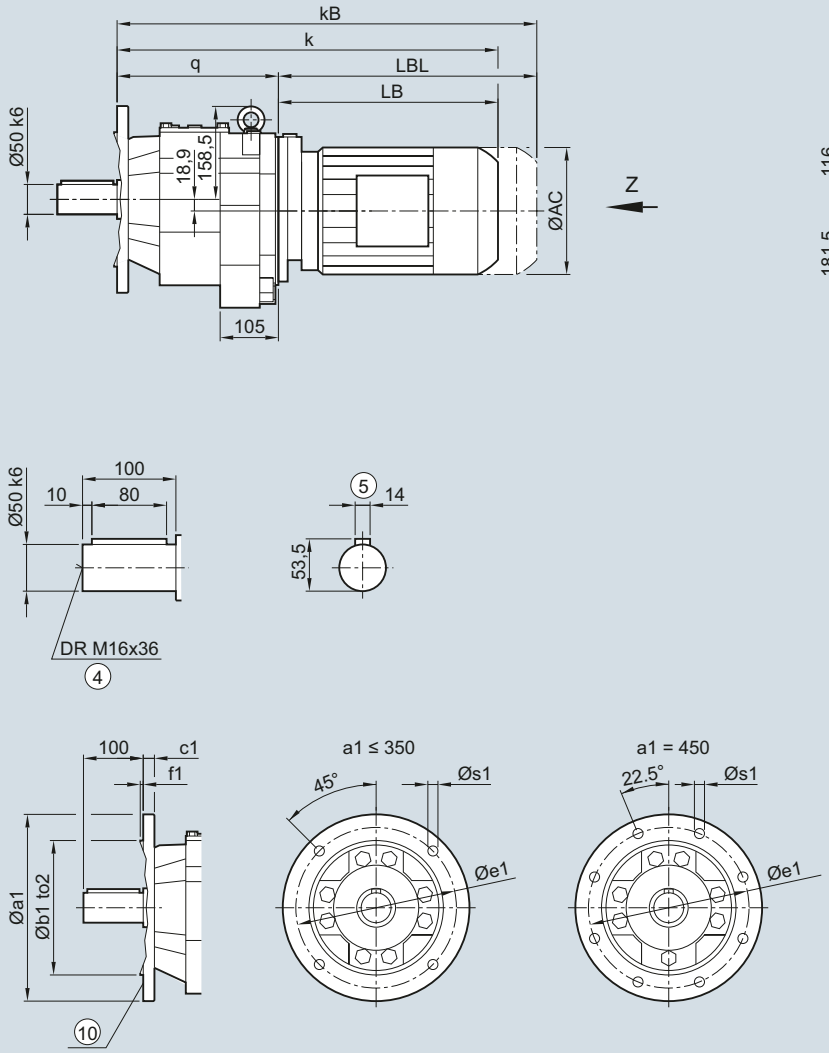
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

DF/ZF89 gearbox in a flange-mounted design

DZF030

DF/ZF89



Flange	a1	b1	to2	c1	e1	f1	s1
	300	230	j6	16	265	4.0	13.5
	350	250	j6	18	300	5.0	17.5
	450	350	h6	18	400	5.0	17.5

Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	526.5	587.5	562.5	660.5	680.0	769.0	724.0	869.0	809.0	888.5	918.5
kB	586.5	657.5	632.5	739.0	753.0	873.5	828.5	985.0	925.0	1 017.5	1 047.5
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

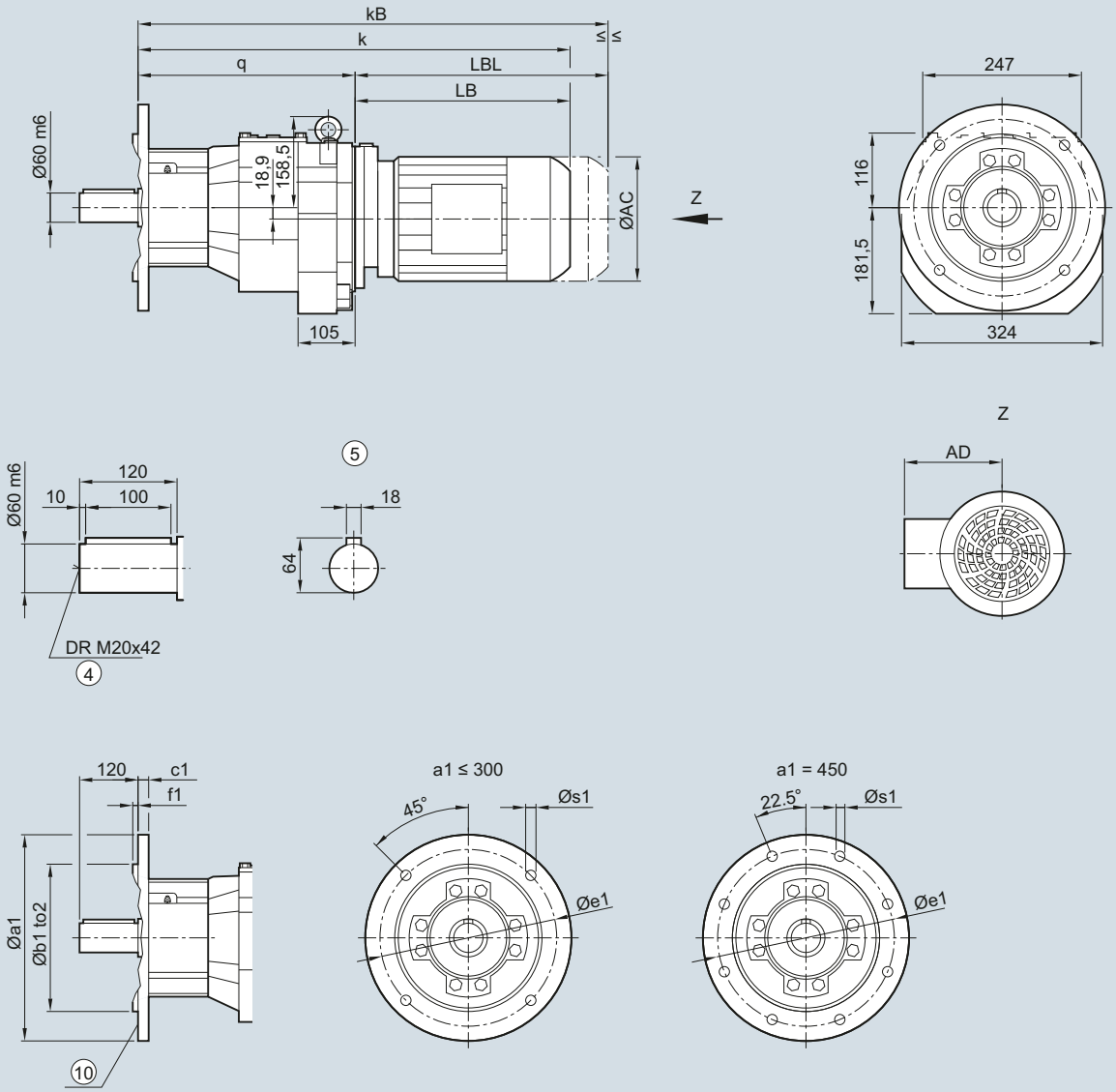
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF89 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

DZF040

DF/ZF89



Flange	a1	b1	to2	c1	e1	f1	s1
	300	230	j6	16	265	4.0	13.5
	350	250	j6	18	300	5.0	17.5
	450	350	h6	18	400	5.0	17.5

Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	626.5	687.5	662.5	760.5	780.0	869.0	824.0	969.0	909.0	988.5	1 018.5
kB	686.5	757.5	732.5	839.0	853.0	973.5	928.5	1 085.0	1 025.0	1 117.5	1 147.5
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

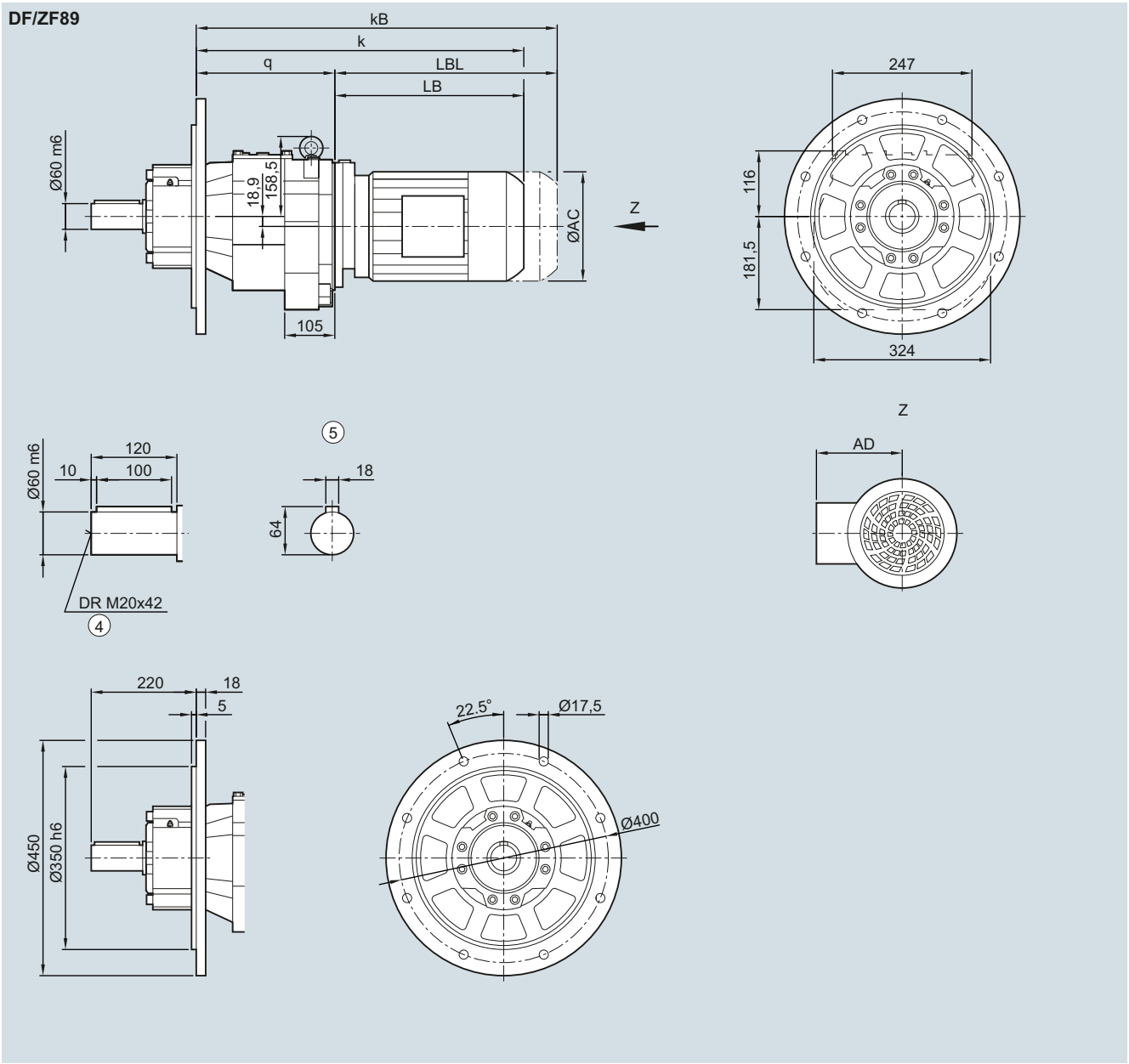
⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

DF/ZF89 gearbox in a flange-mounted design with XLplus reinforced bearing system (G31)

DZF040



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	526.5	587.5	562.5	660.5	680.0	769.0	724.0	869.0	809.0	888.5	918.5
kB	586.5	657.5	632.5	739.0	753.0	873.5	828.5	985.0	925.0	1 017.5	1 047.5
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

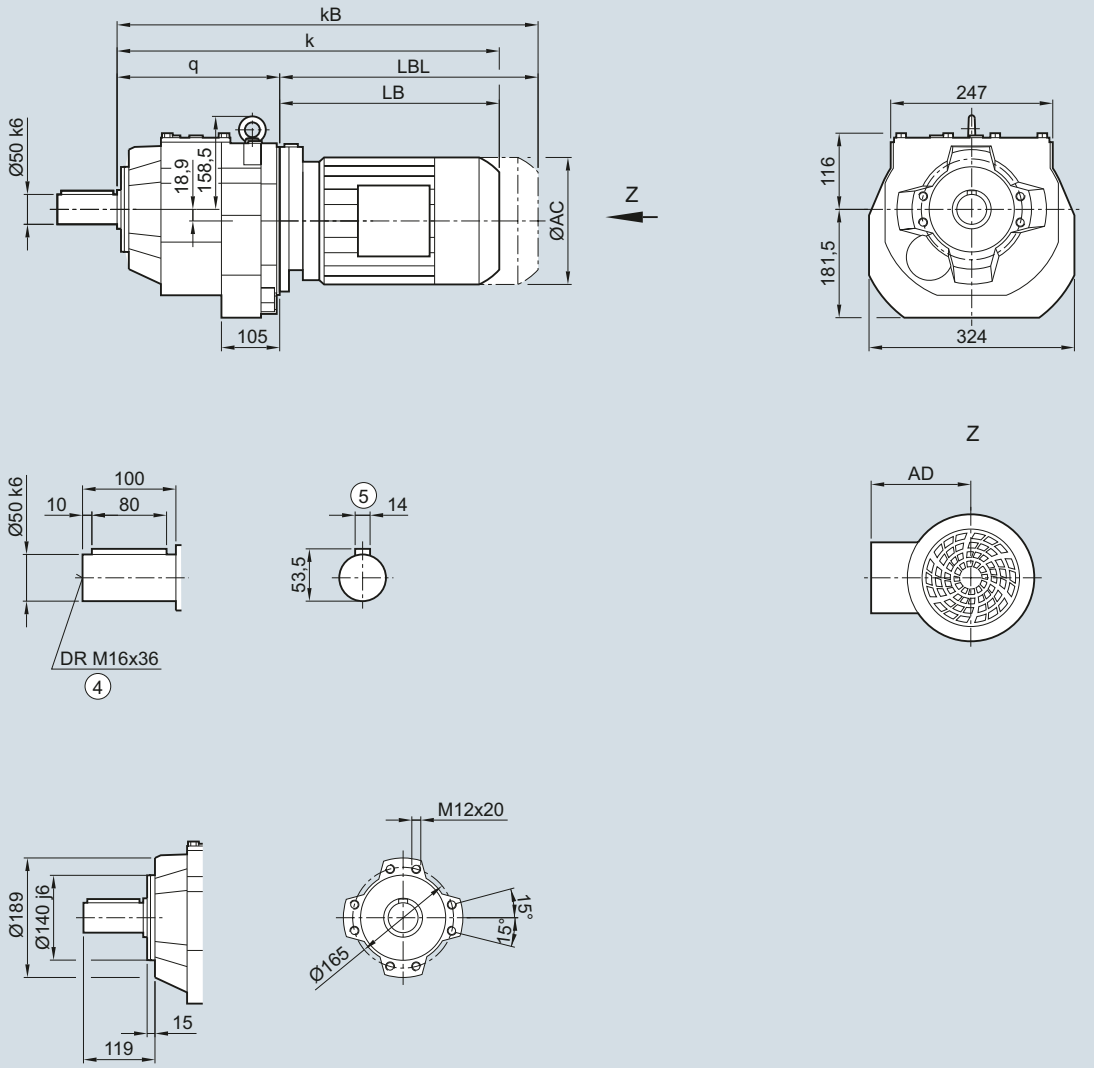
(DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)
) Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ89 gearbox in a housing flange design

DZZ030

DZ/ZZ89



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	526.5	587.5	562.5	660.5	680.0	769.0	724.0	869.0	809.0	888.5	918.5
kB	586.5	657.5	632.5	739.0	753.0	873.5	828.5	985.0	925.0	1 017.5	1 047.5
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332

1) Dimensions for LHN(S3-75%), LEN(IE2)

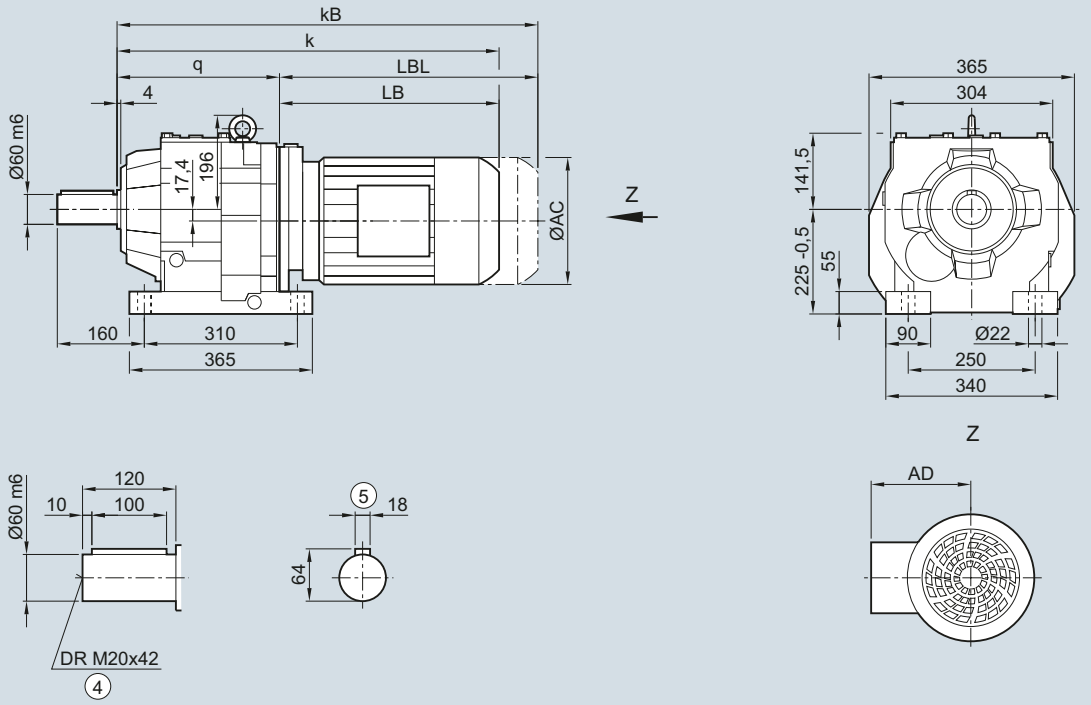
⑤ Feather key/keyway DIN 6885-1

2) AD depends on the motor options, for other dimensions see page 7/20.

D/Z109 gearbox in a foot-mounted design

DZ030

D/Z109



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[1)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	624.0	599.0	695.0	714.5	803.5	758.5	903.5	843.5	923.0	953.0	1 026.5	1 072.0
kB	694.0	669.0	773.5	787.5	908.0	863.0	1 019.5	959.5	1 052.0	1 082.0	1 173.5	1 219.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332

1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1

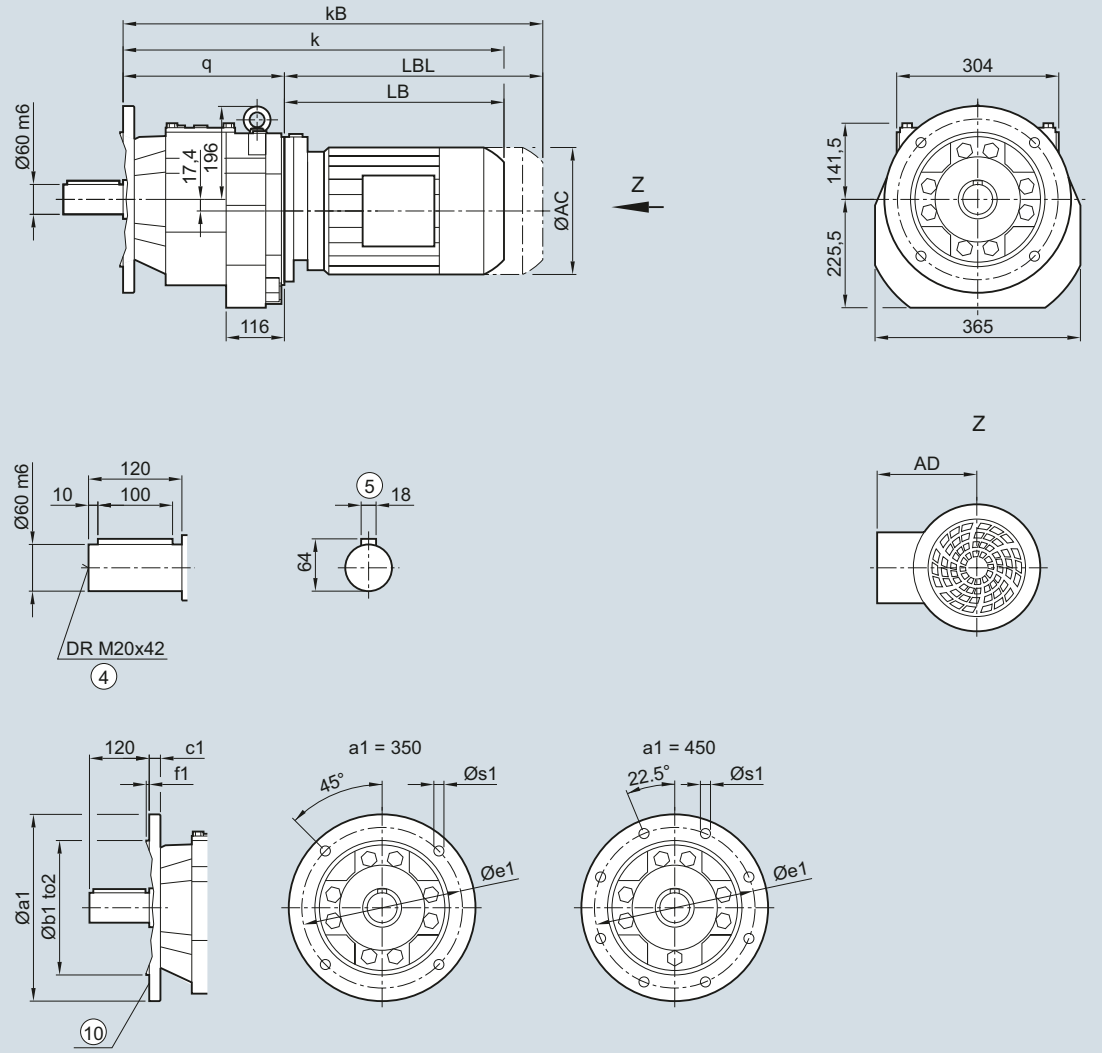
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF109 gearbox in a flange-mounted design

DZF030

DF/ZF109



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	18	300	5	17.5
	450	350	h6	22	400	5	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	624.0	599.0	695.0	714.5	803.5	758.5	903.5	843.5	923.0	953.0	1 026.5	1 072.0
kB	694.0	669.0	773.5	787.5	908.0	863.0	1 019.5	959.5	1 052.0	1 082.0	1 173.5	1 219.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332

⑩ For inner contour see page 3/311

⑤ Feather key/keyway DIN 6885-1

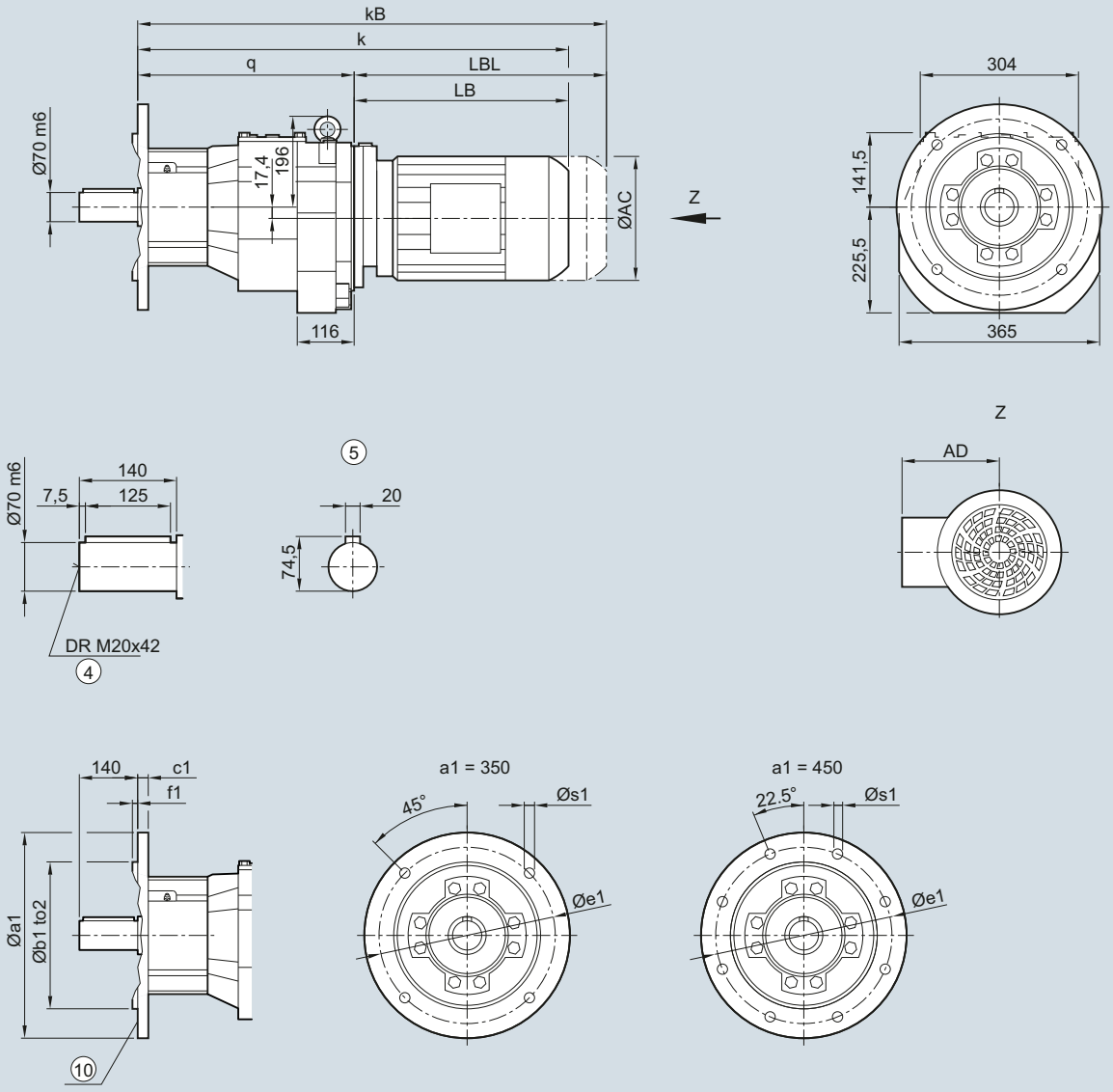
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

DF/ZF109 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

DZF040

DF/ZF109



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	18	300	5	17.5
	450	350	h6	22	400	5	17.5

Motor[1]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	734.0	709.0	805.0	824.5	913.5	868.5	1 013.5	953.5	1 033.0	1 063.0	1 136.5	1 182.0
kB	804.0	779.0	883.5	897.5	1 018.0	973.0	1 129.5	1 069.5	1 162.0	1 192.0	1 283.5	1 329.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

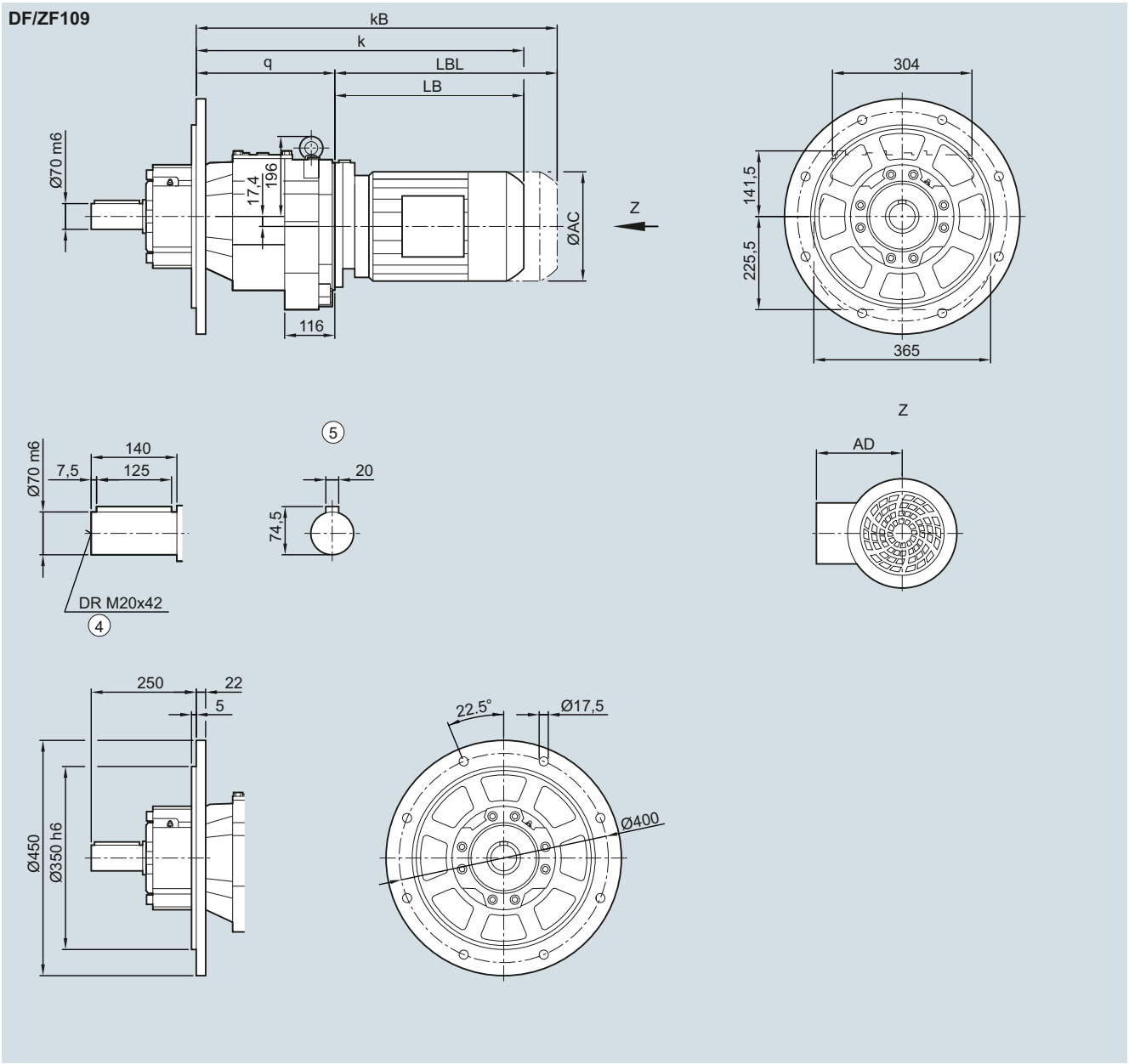
④ DIN 332
⑩ For inner contour see page 3/311
⑤ Feather key/keyway DIN 6885-1

[1] Dimensions for LHN(S3-75%), LEN(IE2)
[2] AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF109 gearbox in a flange-mounted design with XLplus reinforced bearing system (G31)

DZF040



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	624.0	599.0	695.0	714.5	803.5	758.5	903.5	843.5	923.0	953.0	1 026.5	1 072.0
kB	694.0	669.0	773.5	787.5	908.0	863.0	1 019.5	959.5	1 052.0	1 082.0	1 173.5	1 219.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

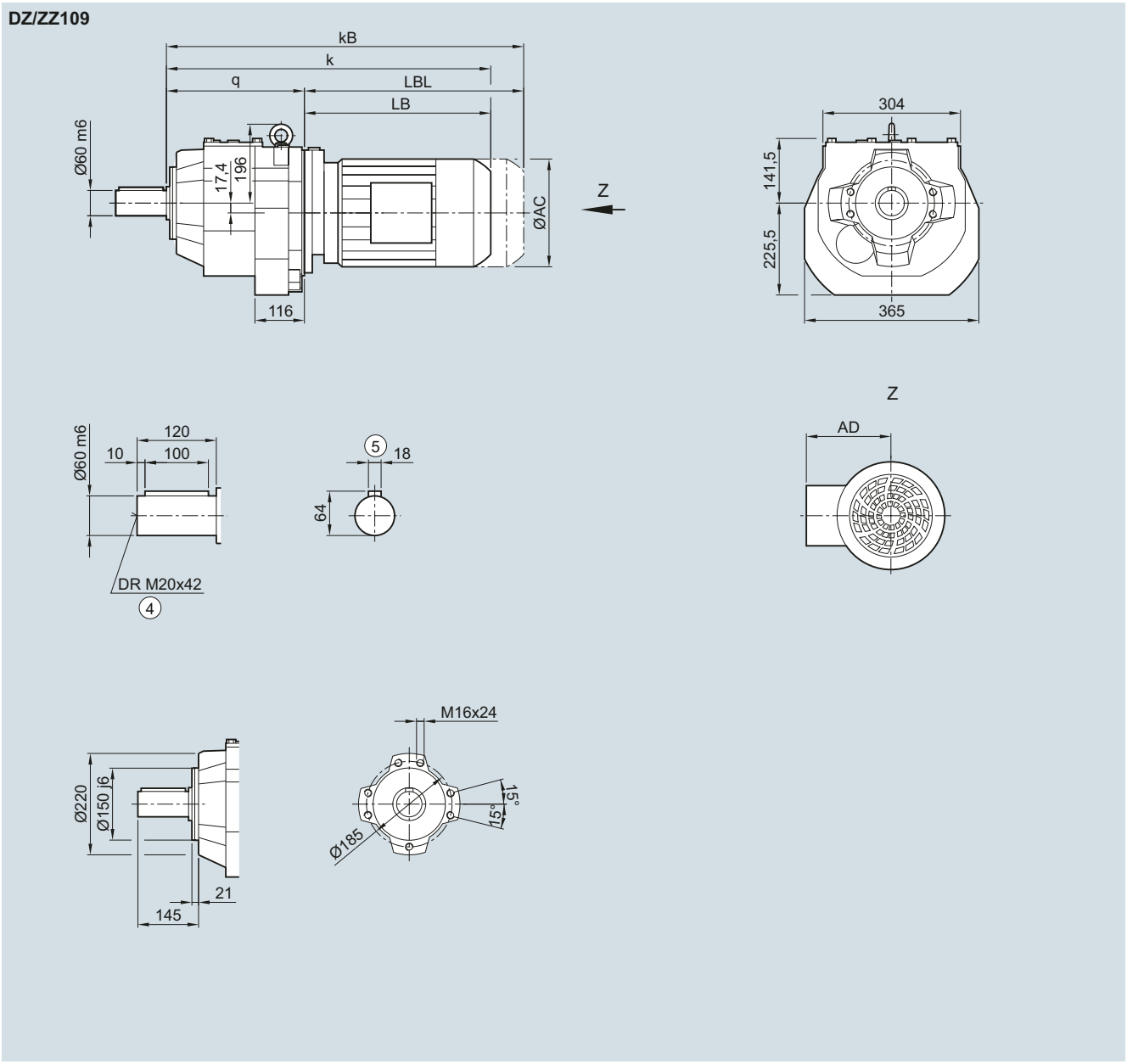
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ109 gearbox in a housing flange design

DZZ030

DZ/ZZ109



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[1)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	624.0	599.0	695.0	714.5	803.5	758.5	903.5	843.5	923.0	953.0	1 026.5	1 072.0
kB	694.0	669.0	773.5	787.5	908.0	863.0	1 019.5	959.5	1 052.0	1 082.0	1 173.5	1 219.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

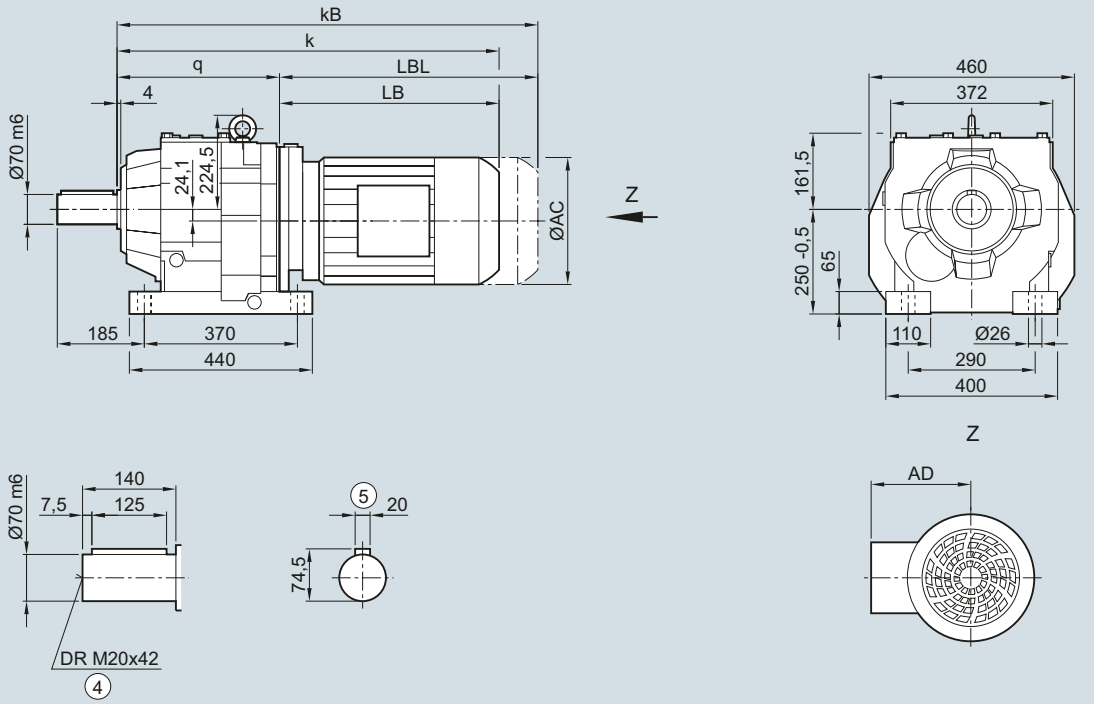
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

D/Z129 gearbox in a foot-mounted design

DZ030

D/Z129



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	678.0	653.0	747.0	766.5	853.5	808.5	953.5	893.5	973.0	1 003.0	1 076.5	1 122.0	1 247.5
kB	748.0	723.0	825.5	839.5	958.0	913.0	1 069.5	1 009.5	1 102.0	1 132.0	1 223.5	1 269.0	1 372.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

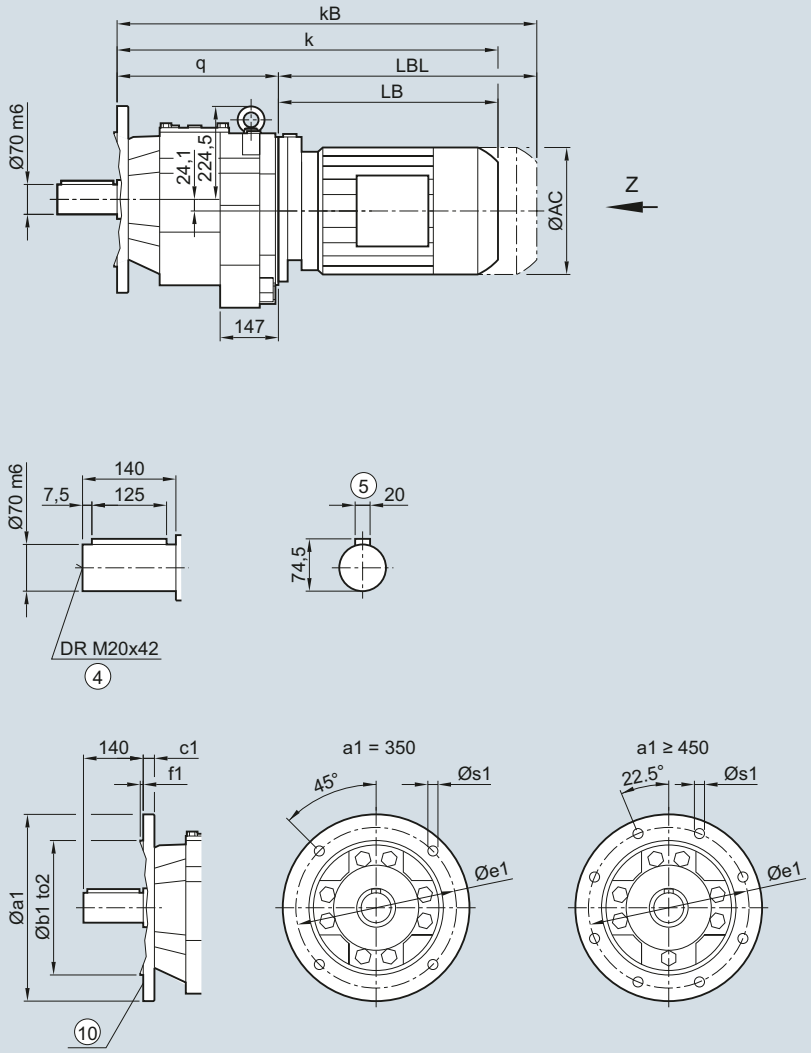
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF129 gearbox in a flange-mounted design

DZF030

DF/ZF129



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	678.0	653.0	747.0	766.5	853.5	808.5	953.5	893.5	973.0	1 003.0	1 076.5	1 122.0	1 247.5
kB	748.0	723.0	825.5	839.5	958.0	913.0	1 069.5	1 009.5	1 102.0	1 132.0	1 223.5	1 269.0	1 372.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

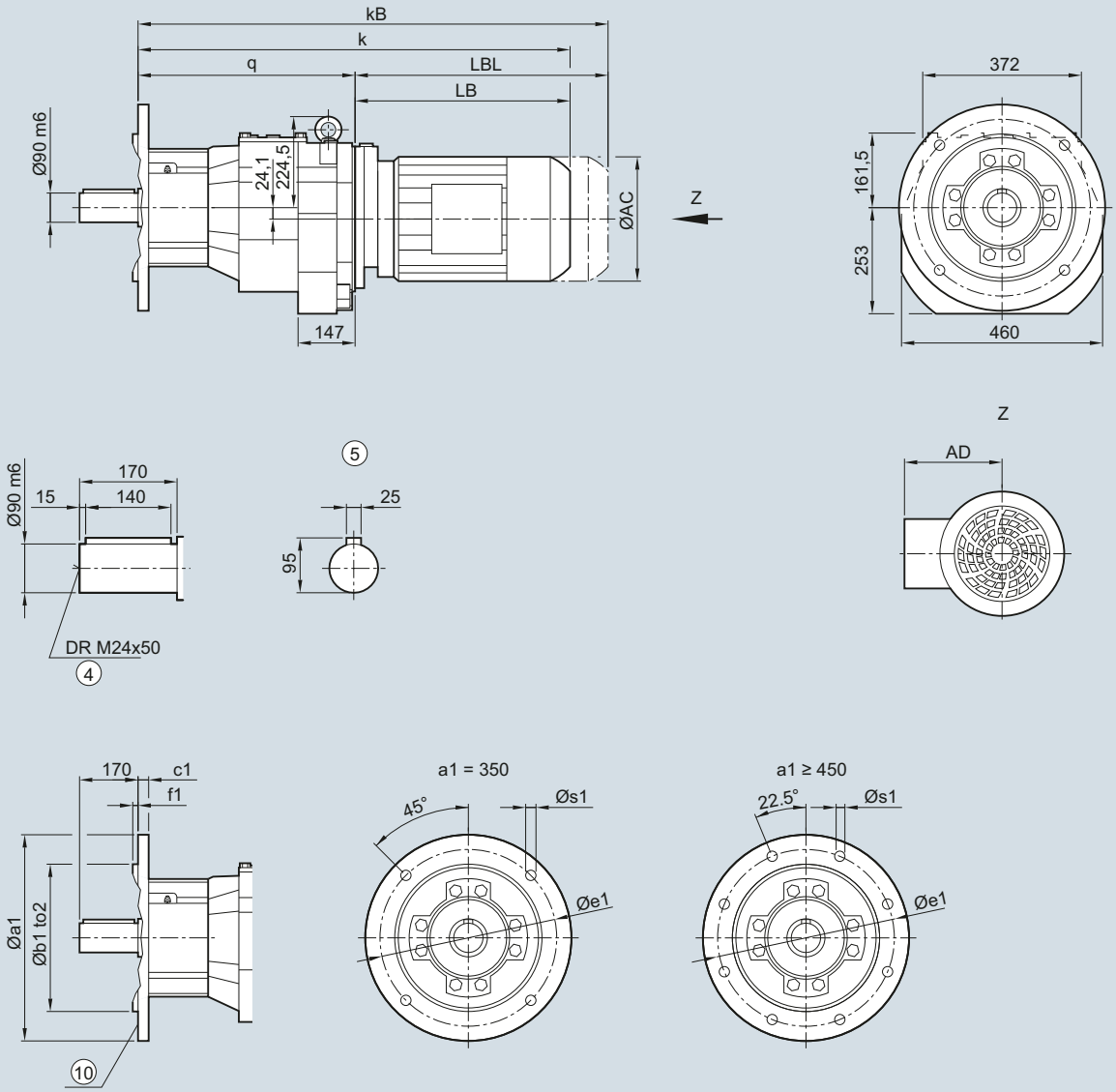
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF129 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

DZF040

DF/ZF129



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.5
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	798.5	773.5	867.5	887.0	974.0	929.0	1 074.0	1 014.0	1 093.5	1 123.5	1 197.0	1 242.5	1 368.0
kB	868.5	843.5	946.0	960.0	1 078.5	1 033.5	1 190.0	1 130.0	1 222.5	1 252.5	1 344.0	1 389.5	1 493.0
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

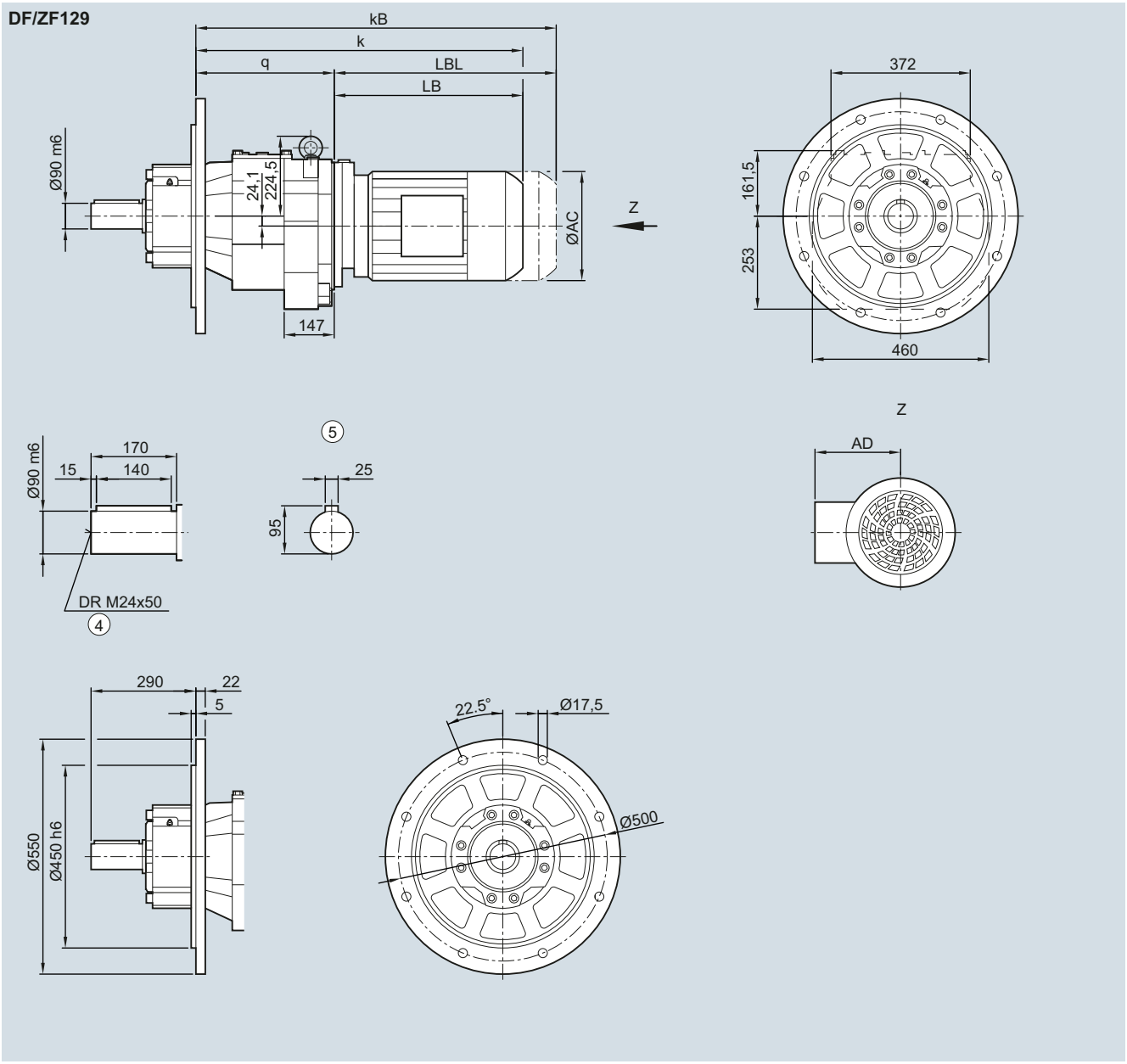
⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

DF/ZF129 gearbox in a flange-mounted design with XLplus reinforced bearing system (G31)

DZF040



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	678.0	653.0	747.0	766.5	853.5	808.5	953.5	893.5	973.0	1 003.0	1 076.5	1 122.0	1 247.5
kB	748.0	723.0	825.5	839.5	958.0	913.0	1 069.5	1 009.5	1 102.0	1 132.0	1 223.5	1 269.0	1 372.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332

1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1

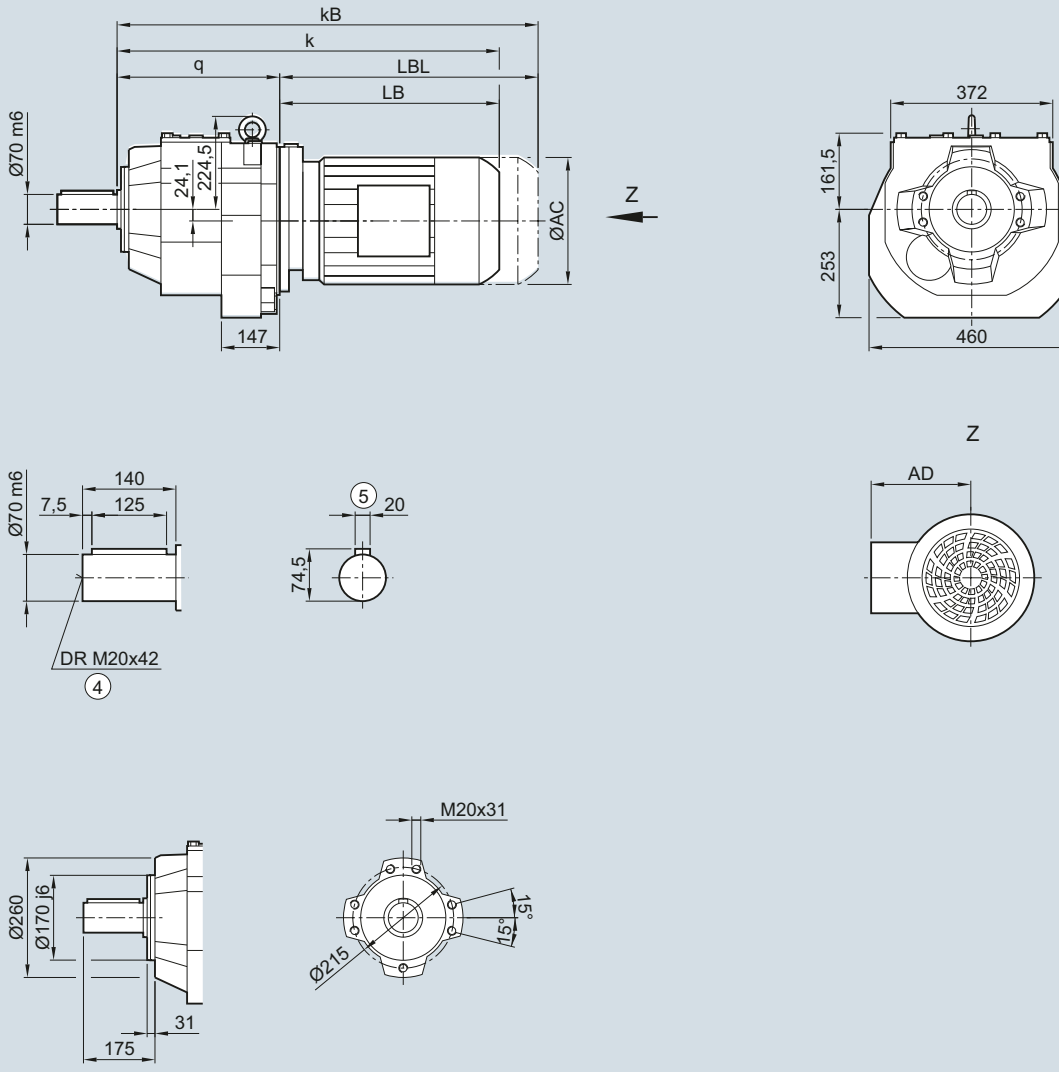
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DZ/ZZ129 gearbox in a housing flange design

DZZ030

DZ/ZZ129



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	678.0	653.0	747.0	766.5	853.5	808.5	953.5	893.5	973.0	1 003.0	1 076.5	1 122.0	1 247.5
kB	748.0	723.0	825.5	839.5	958.0	913.0	1 069.5	1 009.5	1 102.0	1 132.0	1 223.5	1 269.0	1 372.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

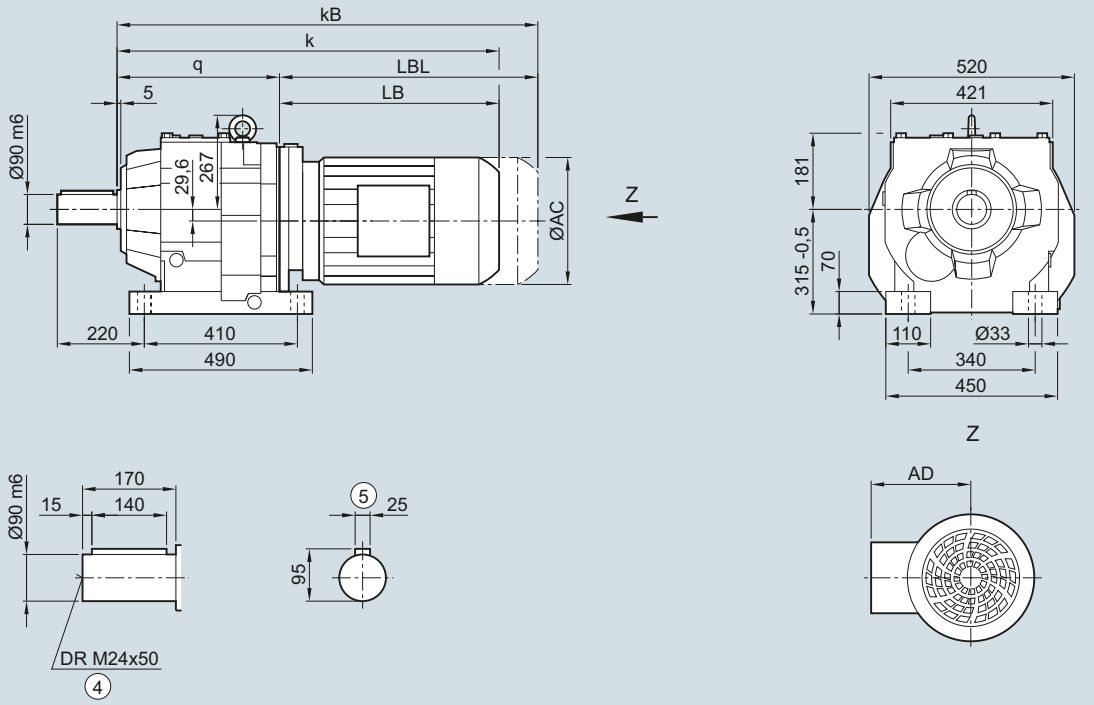
2) AD depends on the motor options, for other dimensions see page 7/20.

3

D/Z149 gearbox in a foot-mounted design

DZ030

D/Z149



Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	785.5	805.0	887.0	842.0	987.0	927.0	1 006.5	1 036.5	1 110.0	1 155.5	1 281.0
kB	864.0	878.0	991.5	946.5	1 103.0	1 043.0	1 135.5	1 165.5	1 257.0	1 302.5	1 406.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

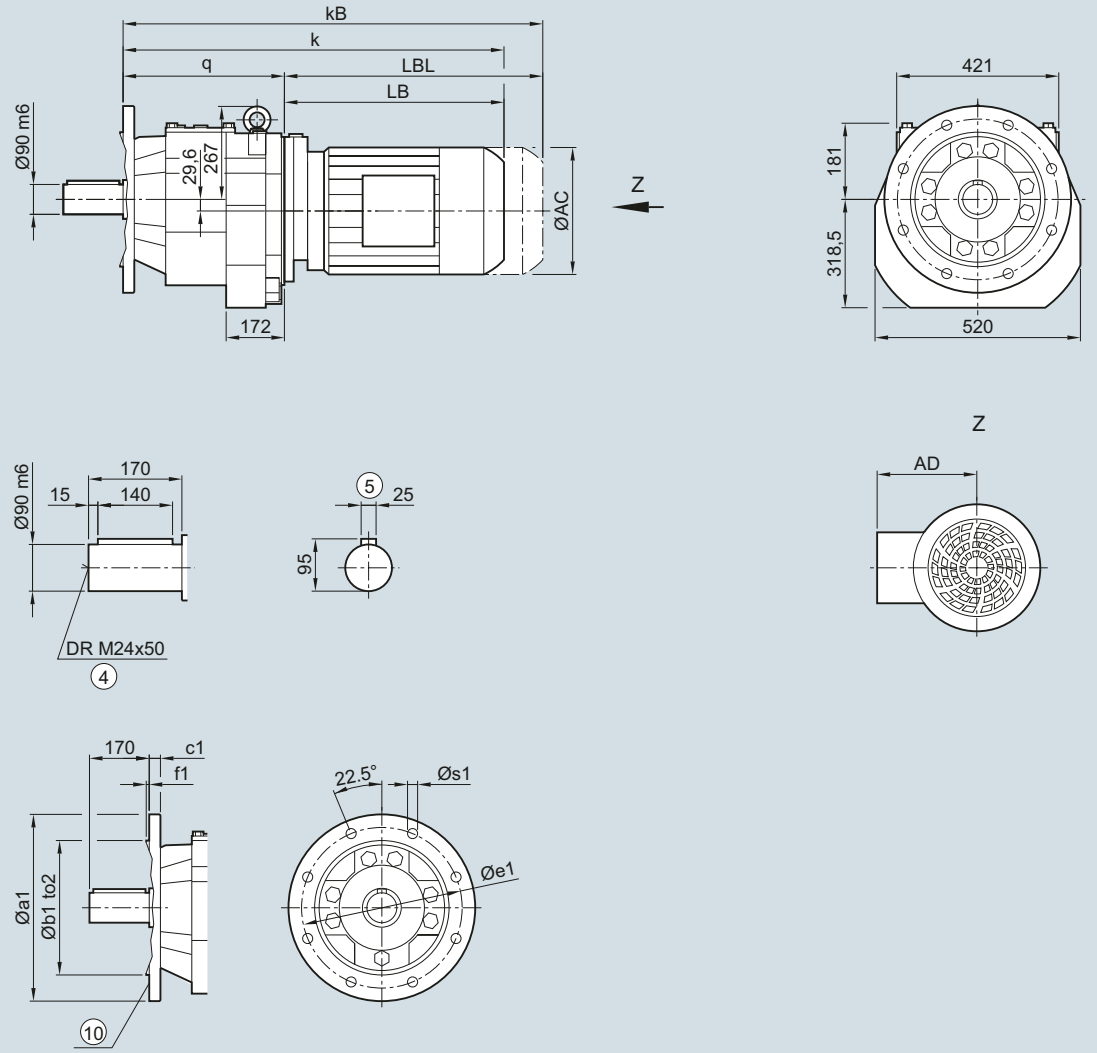
④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

DF/ZF149 gearbox in a flange-mounted design

DZF030

DF/ZF149



Flange	a1	b1	to2	c1	e1	f1	s1
	450	350	h6	22	400	5	17.5
	550	450	h6	25	500	5	17.5

Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	785.5	805.0	887.0	842.0	987.0	927.0	1 006.5	1 036.5	1 110.0	1 155.5	1 281.0
kB	864.0	878.0	991.5	946.5	1 103.0	1 043.0	1 135.5	1 165.5	1 257.0	1 302.5	1 406.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

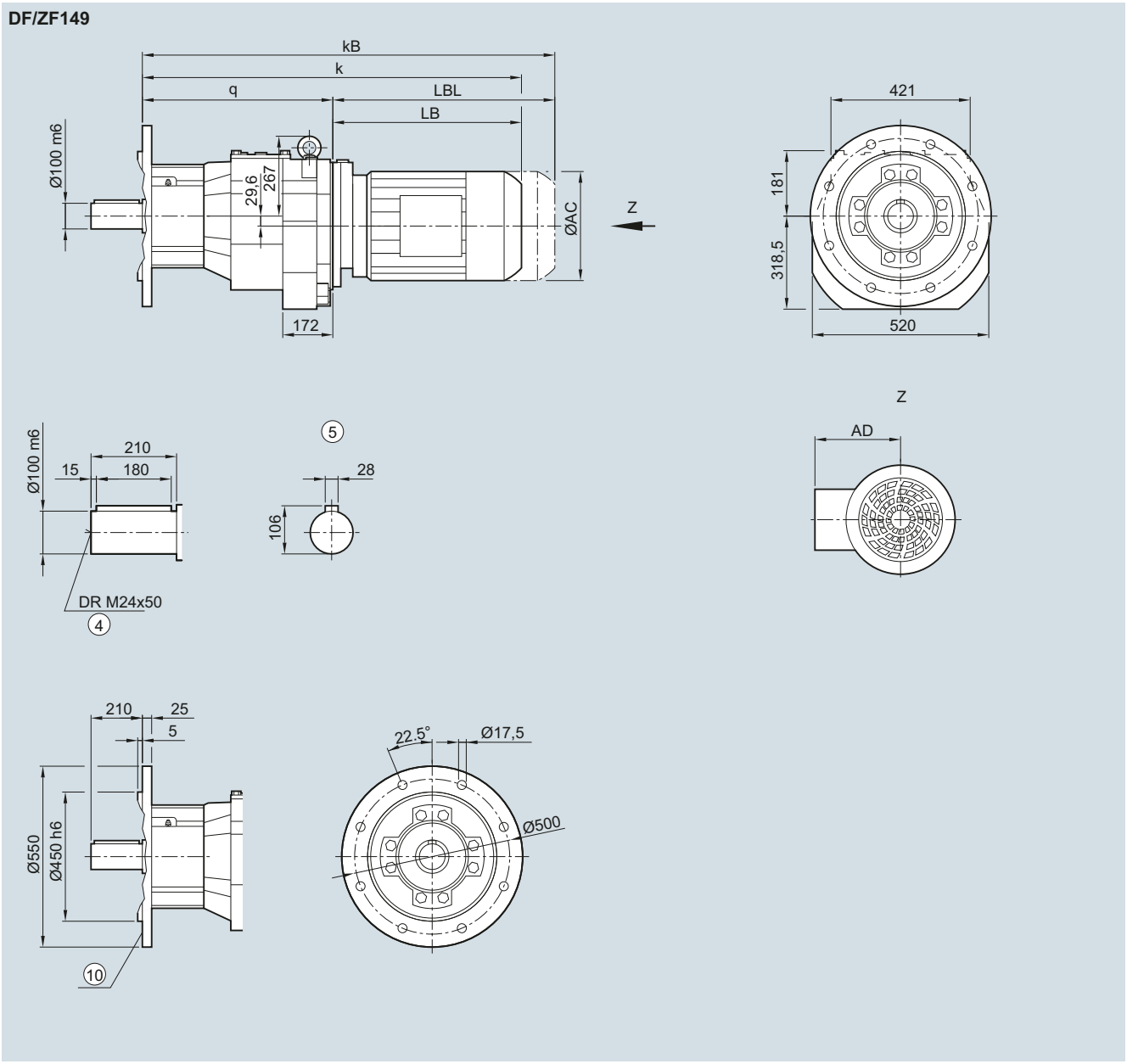
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

DF/ZF149 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

DZF040

DF/ZF149



Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	940.5	960.0	1 042.0	997.0	1 142.0	1 082.0	1 161.5	1 191.5	1 265.0	1 310.5	1 436.0
kB	1 019.0	1 033.0	1 146.5	1 101.5	1 258.0	1 198.0	1 290.5	1 320.5	1 412.0	1 457.5	1 561.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

④ DIN 332

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

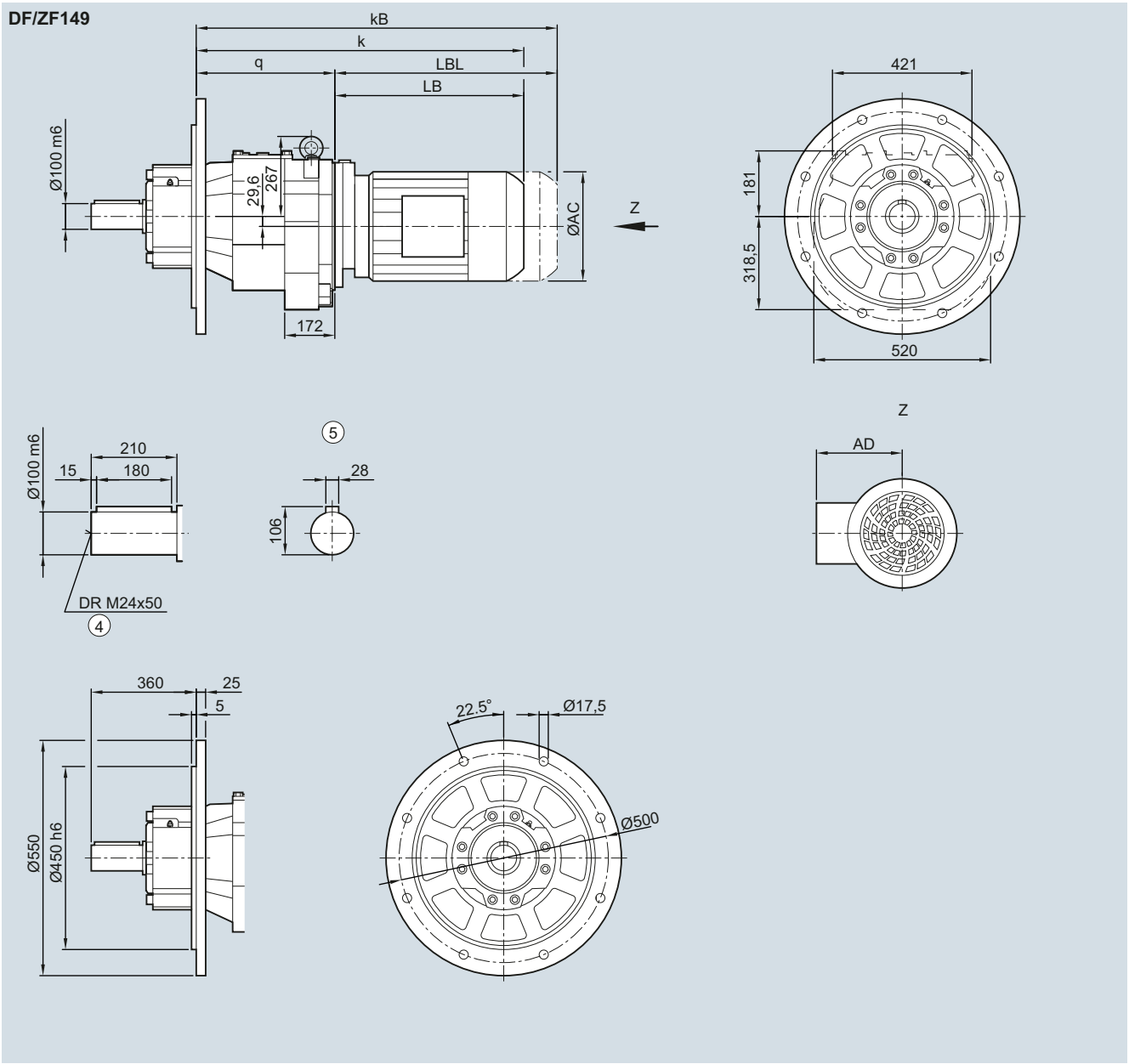
⑤ Feather key/keyway DIN 6885-1

2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF149 gearbox in a flange-mounted design with XLplus reinforced bearing system (G31)

DZF040



Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0	419.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	790.5	810.0	892.0	847.0	992.0	932.0	1 011.5	1 041.5	1 115.0	1 160.5	1 286.0
kB	869.0	883.0	996.5	951.5	1 108.0	1 048.0	1 140.5	1 170.5	1 262.0	1 307.5	1 411.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

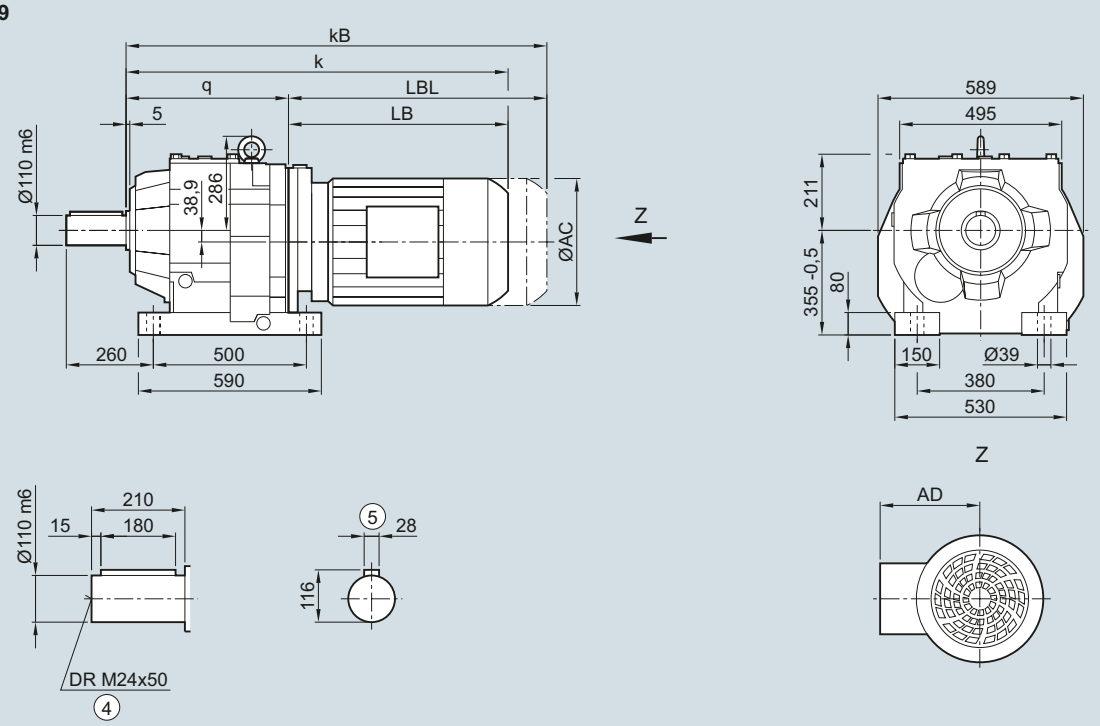
2) AD depends on the motor options, for other dimensions see page 7/20.

3

D/Z169 gearbox in a foot-mounted design

DZ030

D/Z169



Motor[1)]	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	872.5	954.0	909.0	1 054.0	994.0	1 073.0	1 103.0	1 176.5	1 221.0	1 342.5
kB	945.5	1 058.5	1 013.5	1 170.0	1 110.0	1 202.0	1 232.0	1 323.5	1 368.0	1 467.5
LB	378.5	460.0	415.0	560.0	500.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	564.5	519.5	676.0	616.0	708.0	738.0	829.5	874.0	973.5

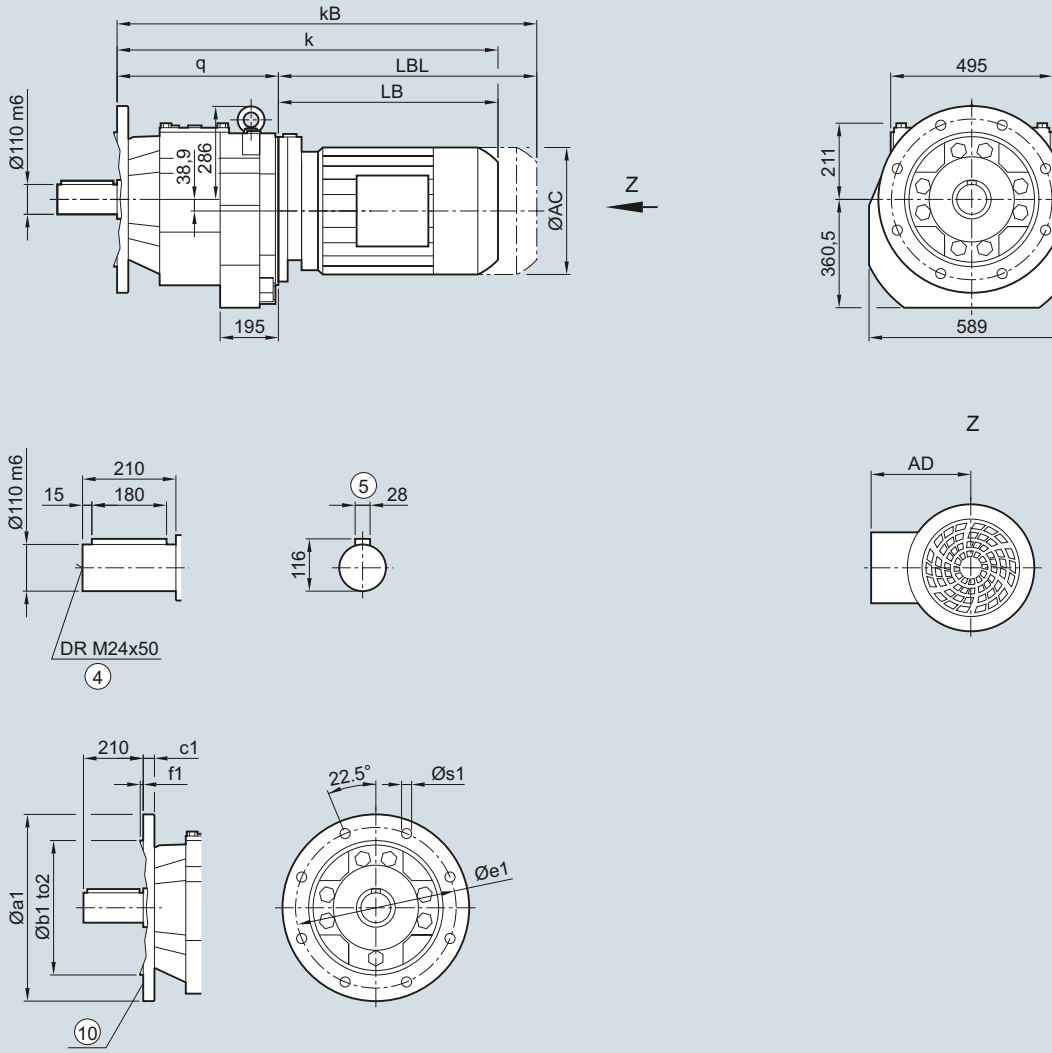
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF169 gearbox in a flange-mounted design

DZF030

DF/ZF169



Flange	a1	b1	to2	c1	e1	f1	s1
	450	350	h6	22	400	5	17.5
	550	450	h6	25	500	5	17.5
	660	550	h6	25	600	6	17.5

Motor[1)]	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	872.5	954.0	909.0	1 054.0	994.0	1 073.0	1 103.0	1 176.5	1 221.0	1 342.5
kB	945.5	1 058.5	1 013.5	1 170.0	1 110.0	1 202.0	1 232.0	1 323.5	1 368.0	1 467.5
LB	378.5	460.0	415.0	560.0	500.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	564.5	519.5	676.0	616.0	708.0	738.0	829.5	874.0	973.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

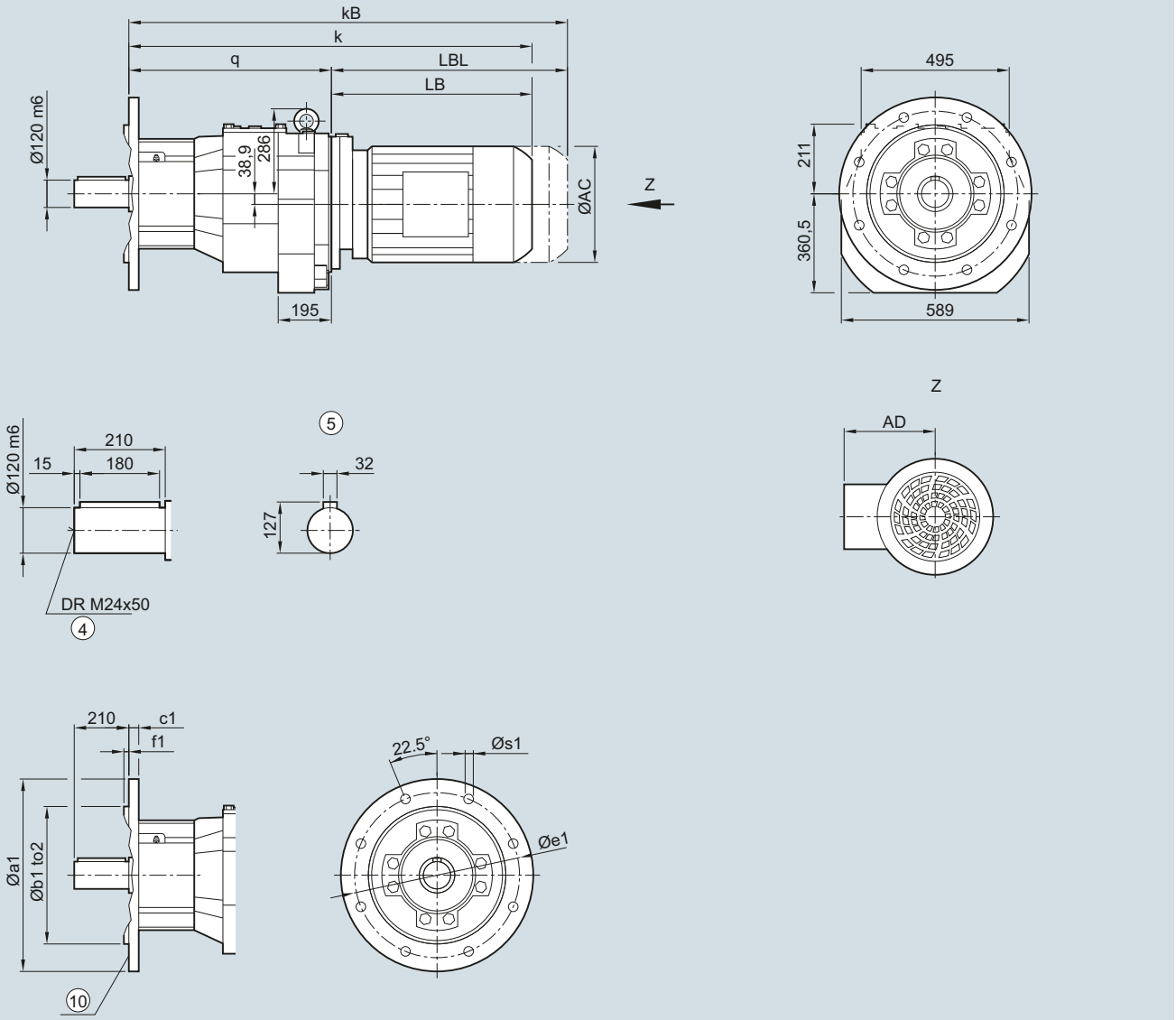
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF169 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

DZF040

DF/ZF169



Flange	a1	b1	to2	c1	e1	f1	s1
	450	350	h6	22	400	5	17.5
	550	450	h6	25	500	5	17.5
	660	550	h6	25	600	6	17.5

Motor[1)]	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 052.5	1 134.0	1 089.0	1 234.0	1 174.0	1 253.0	1 283.0	1 356.5	1 401.0	1 522.5
kB	1 125.5	1 238.5	1 193.5	1 350.0	1 290.0	1 382.0	1 412.0	1 503.5	1 548.0	1 647.5
LB	378.5	460.0	415.0	560.0	500.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	564.5	519.5	676.0	616.0	708.0	738.0	829.5	874.0	973.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

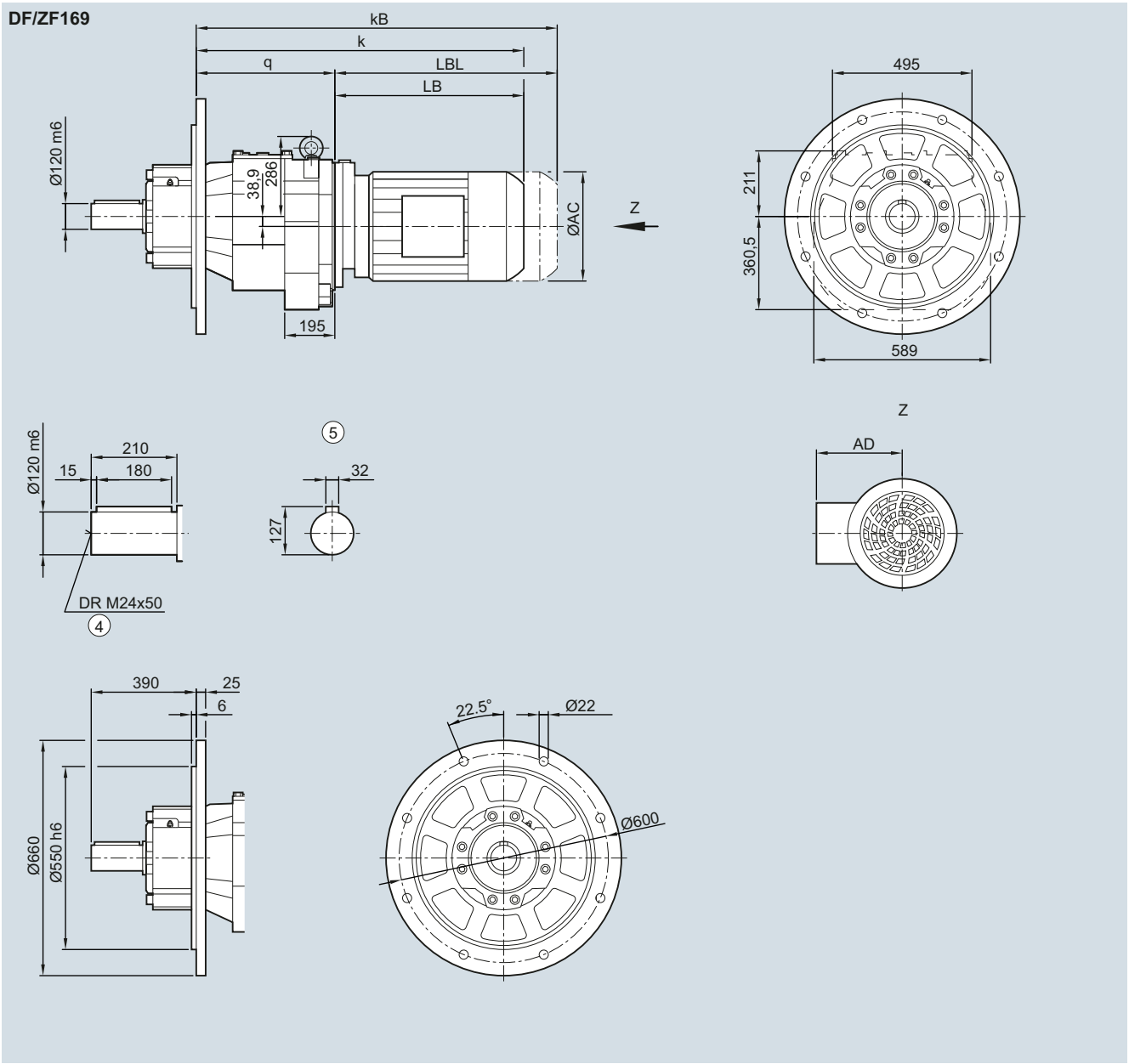
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF169 gearbox in a flange-mounted design with XLplus reinforced bearing system (G31)

DZF040



Motor[1)]	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	872.5	954.0	909.0	1 054.0	994.0	1 073.0	1 103.0	1 176.5	1 221.0	1 342.5
kB	945.5	1 058.5	1 013.5	1 170.0	1 110.0	1 202.0	1 232.0	1 323.5	1 368.0	1 467.5
LB	378.5	460.0	415.0	560.0	500.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	564.5	519.5	676.0	616.0	708.0	738.0	829.5	874.0	973.5

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

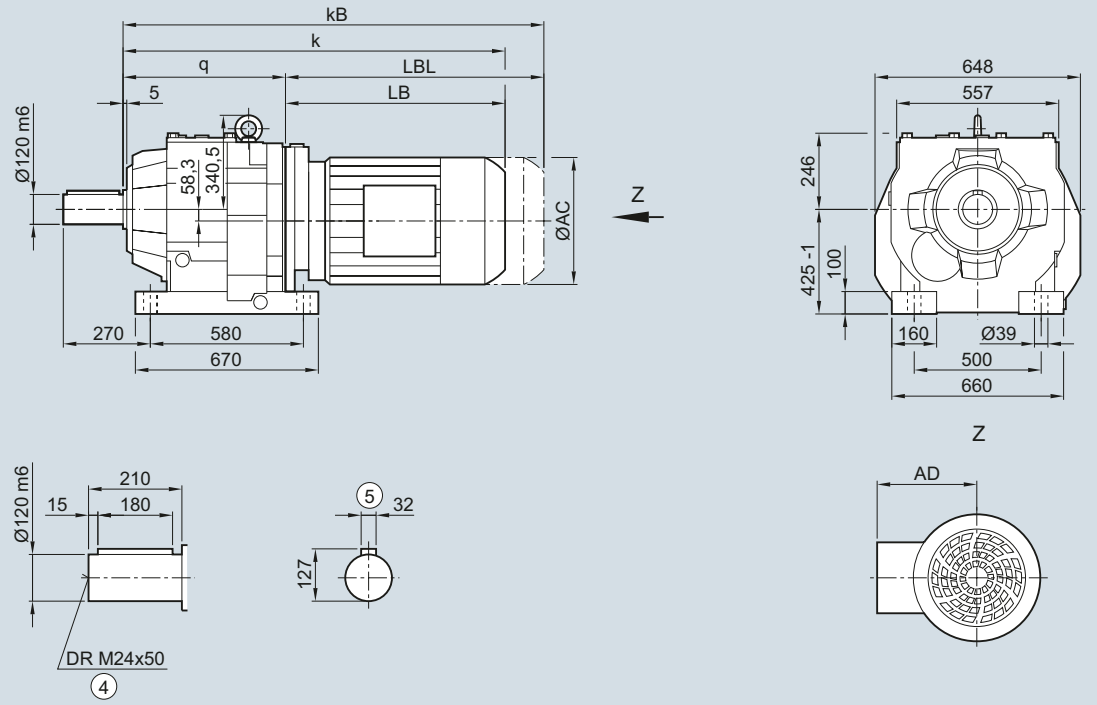
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

D/Z189 gearbox in a foot-mounted design

DZ030

D/Z189



Motor[1)]	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	968.5	1 050.0	1 005.0	1 150.0	1 090.0	1 169.0	1 199.0	1 272.5	1 317.0	1 438.5
kB	1 041.5	1 154.5	1 109.5	1 266.0	1 206.0	1 298.0	1 328.0	1 419.5	1 464.0	1 563.5
LB	378.5	460.0	415.0	560.0	500.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	564.5	519.5	676.0	616.0	708.0	738.0	829.5	874.0	973.5

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

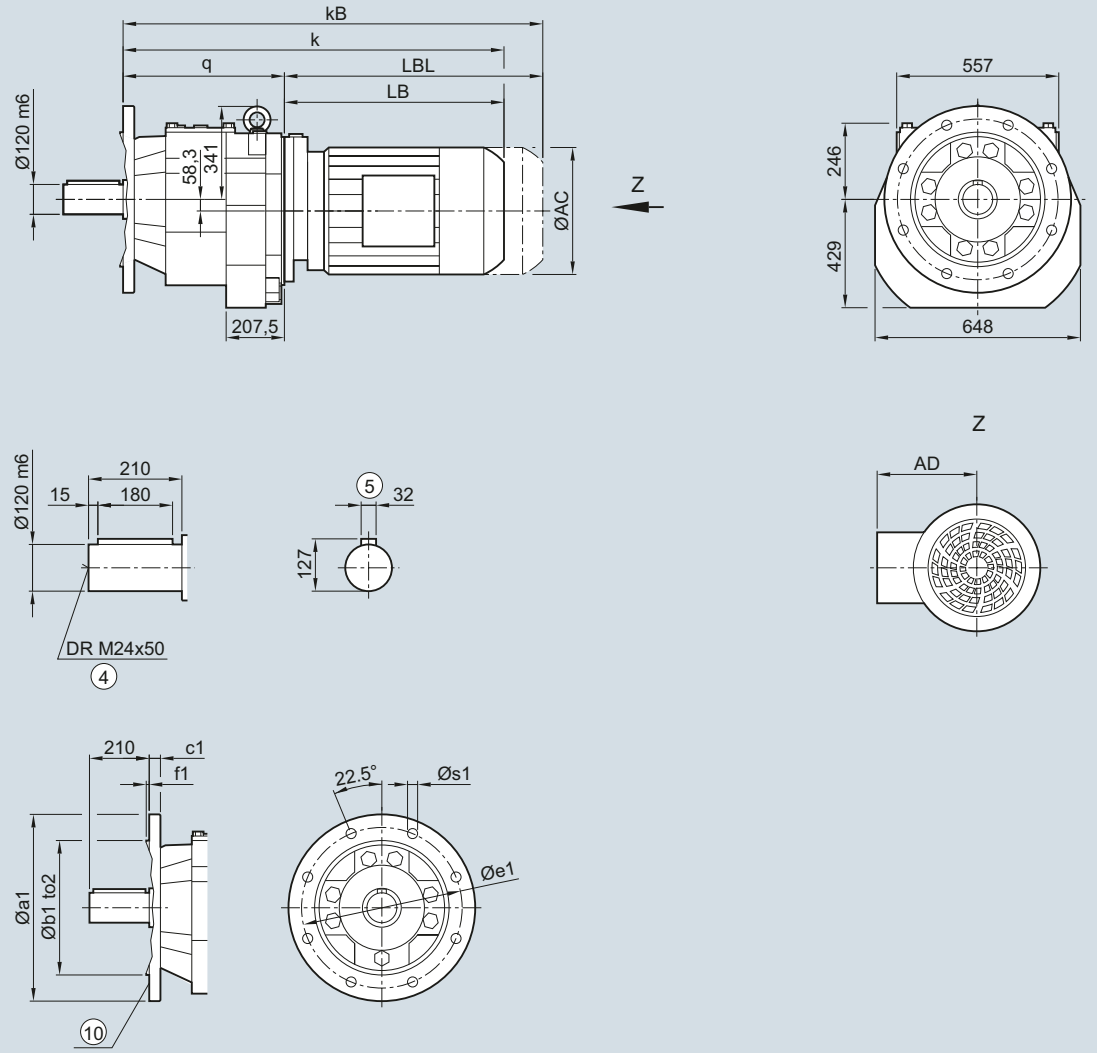
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

DF/ZF189 gearbox in a flange-mounted design

DZF030

DF/ZF189



Flange	a1	b1	to2	c1	e1	f1	s1
	550	450	h6	25	500	5	17.5
	660	550	h6	28	600	6	22.0

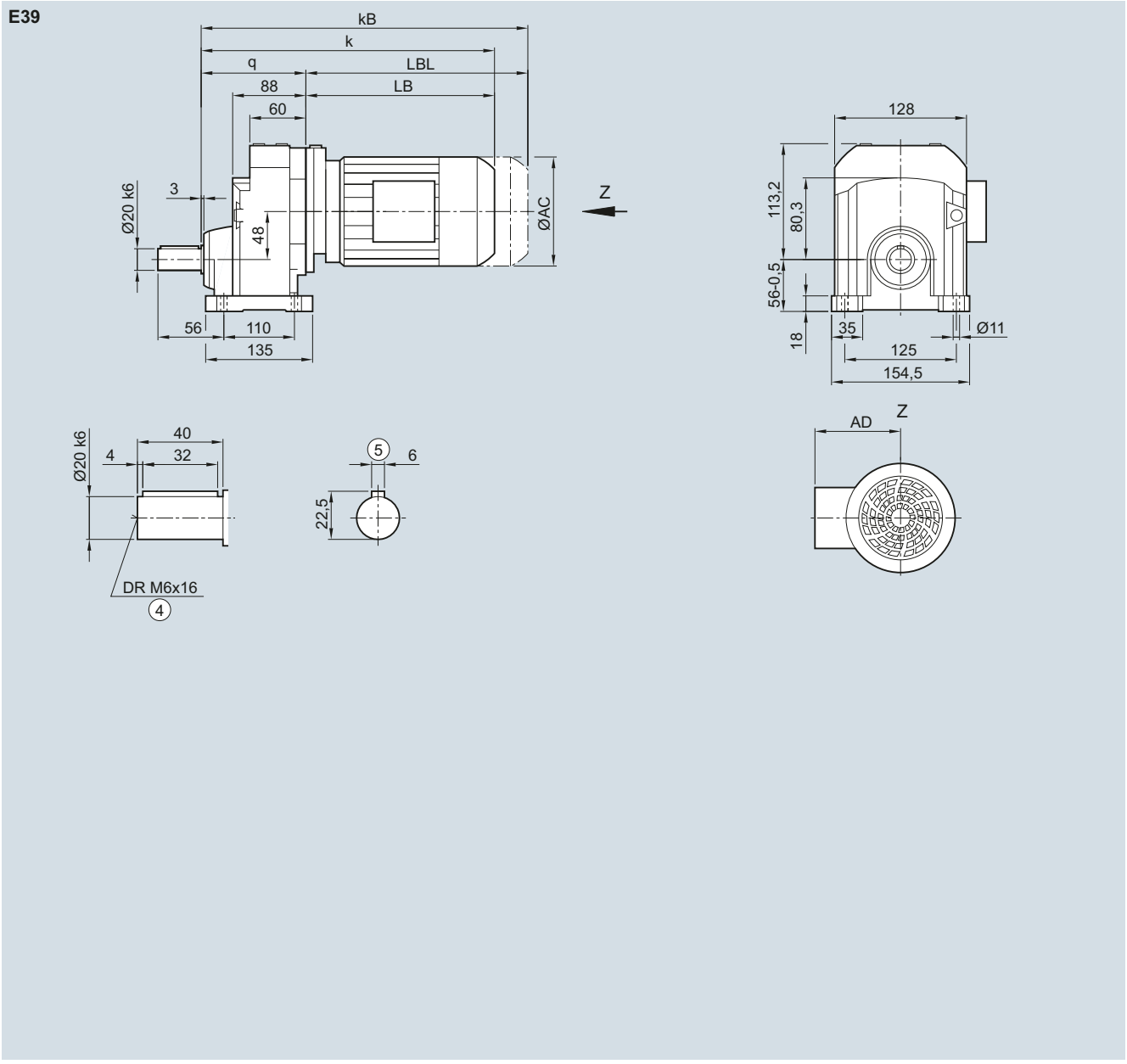
Motor[1)]	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	968.5	1 050.0	1 005.0	1 150.0	1 090.0	1 169.0	1 199.0	1 272.5	1 317.0	1 438.5
kB	1 041.5	1 154.5	1 109.5	1 266.0	1 206.0	1 298.0	1 328.0	1 419.5	1 464.0	1 563.5
LB	378.5	460.0	415.0	560.0	500.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	564.5	519.5	676.0	616.0	708.0	738.0	829.5	874.0	973.5

④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour see page 3/311
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

3

E39 gearbox in a foot-mounted design

E030



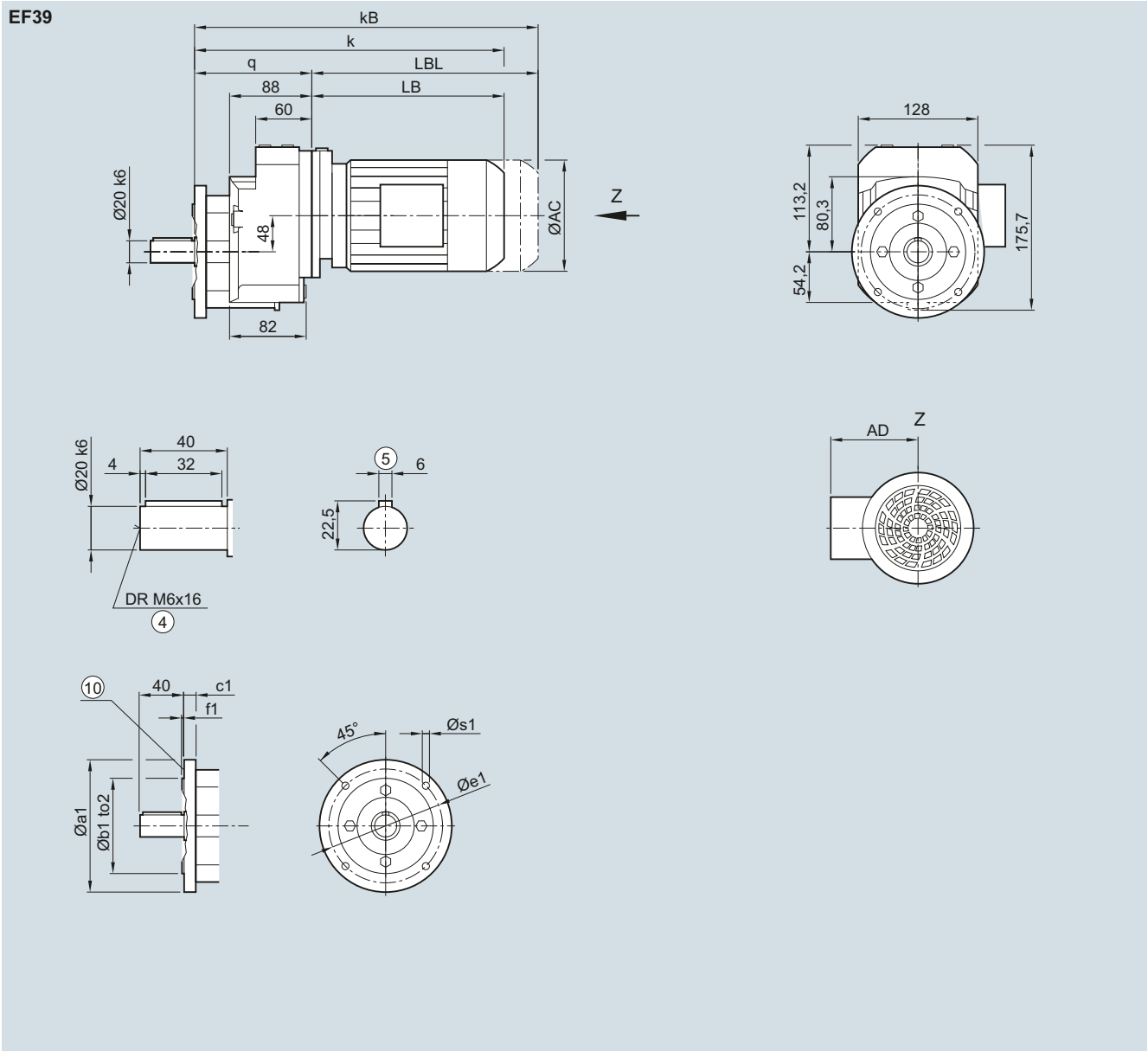
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
q	126.0	126.0	126.0	126.0	126.0	126.0	126.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	338.5	360.0	411.5	472.5	447.5	549.5	569.0
kB	383.5	415.0	471.5	542.5	517.5	628.0	642.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

3

EF39 gearbox in a flange-mounted design

EF030



Flange	a1	b1	to2	c1	e1	f1	s1
	120	80	j6	8	100	3.0	6.8
	140	95	j6	7	115	3.0	9.0
	160	110	j6	10	130	3.5	9.0
	200	130	j6	12	165	3.5	11.0

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
q	126.0	126.0	126.0	126.0	126.0	126.0	126.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	338.5	360.0	411.5	472.5	447.5	549.5	569.0
kB	383.5	415.0	471.5	542.5	517.5	628.0	642.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

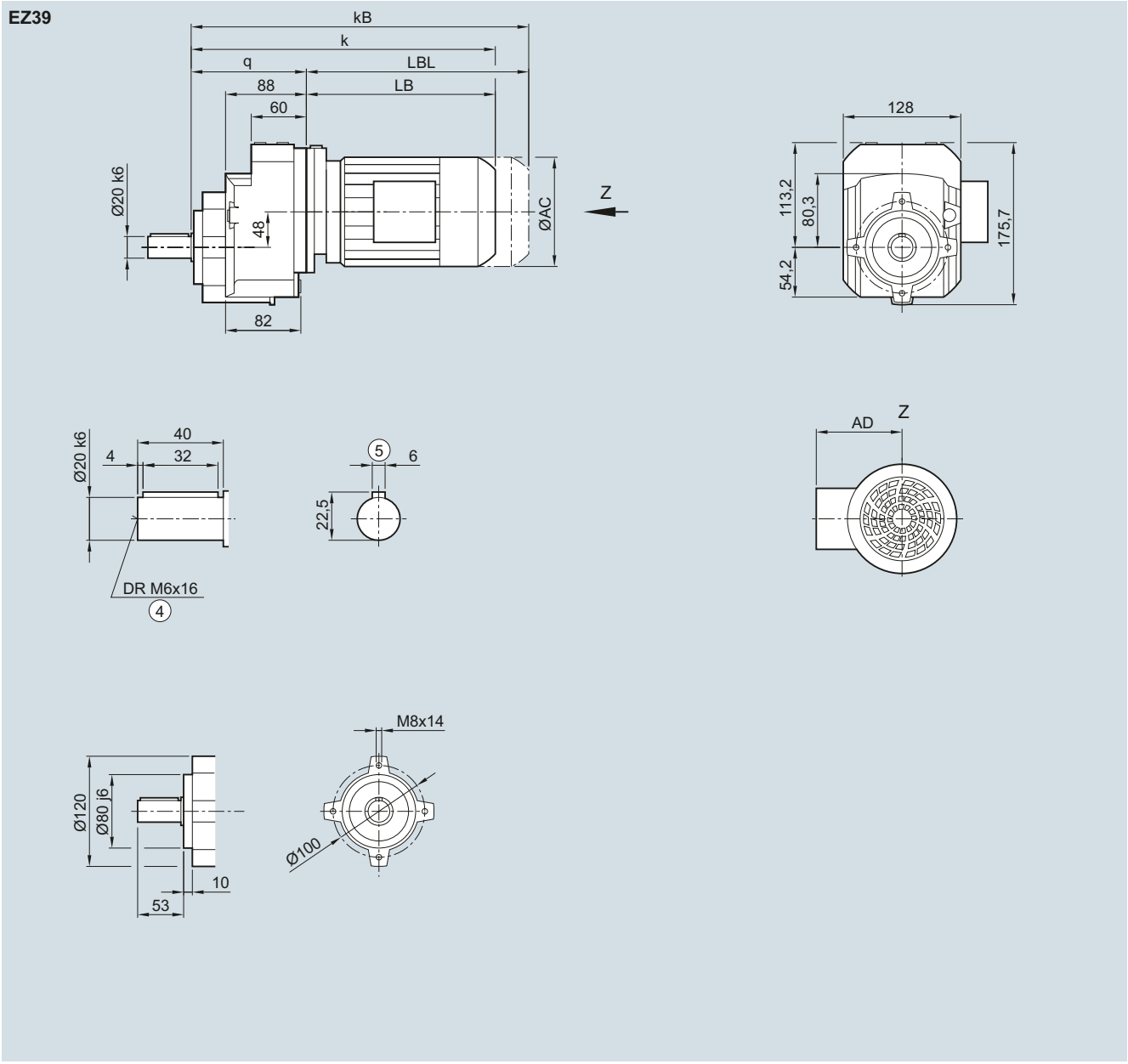
⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

EZ39 gearbox in a housing flange design

EZ030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
q	126.0	126.0	126.0	126.0	126.0	126.0	126.0
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	338.5	360.0	411.5	472.5	447.5	549.5	569.0
kB	383.5	415.0	471.5	542.5	517.5	628.0	642.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

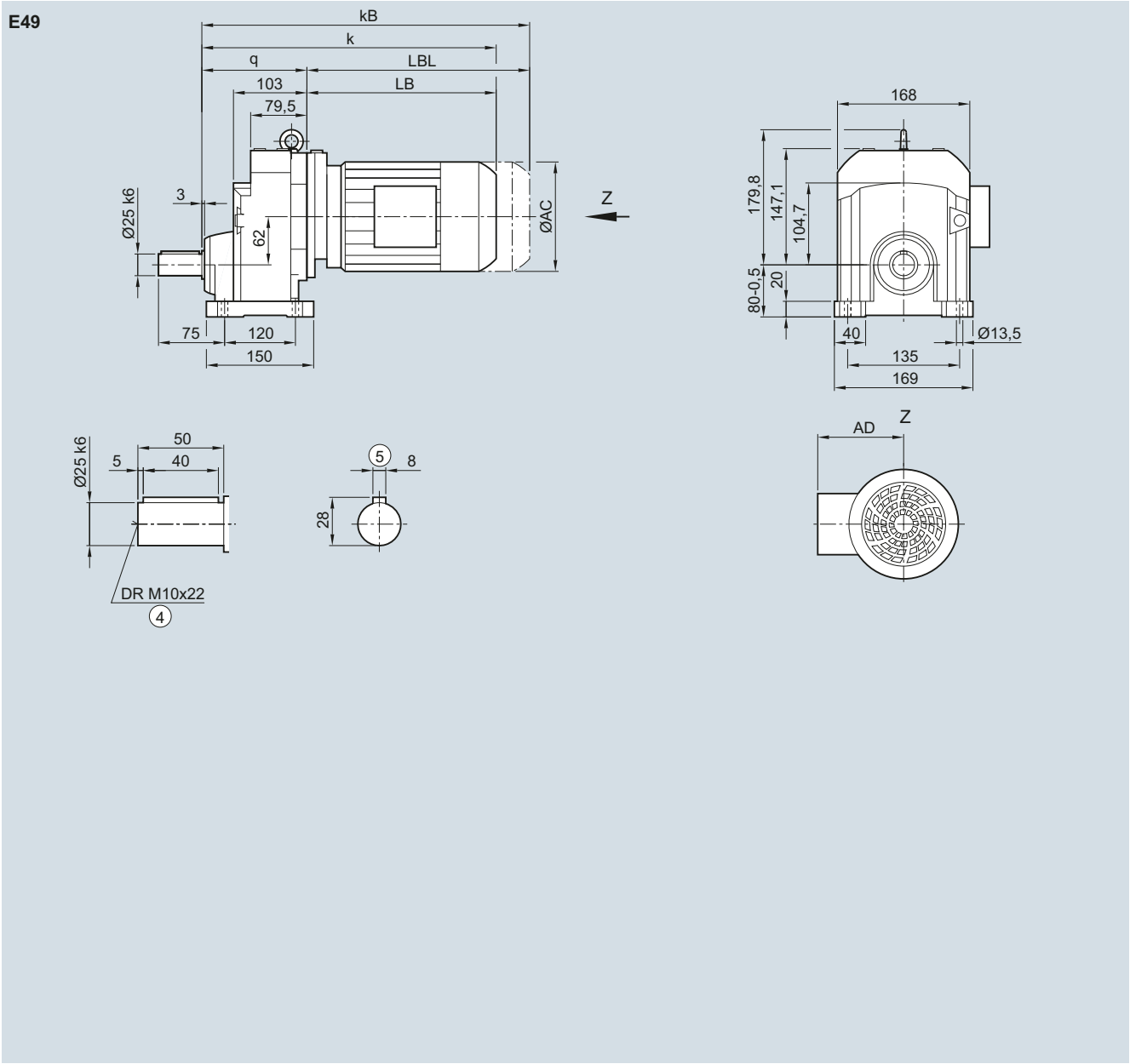
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

E49 gearbox in a foot-mounted design

E030



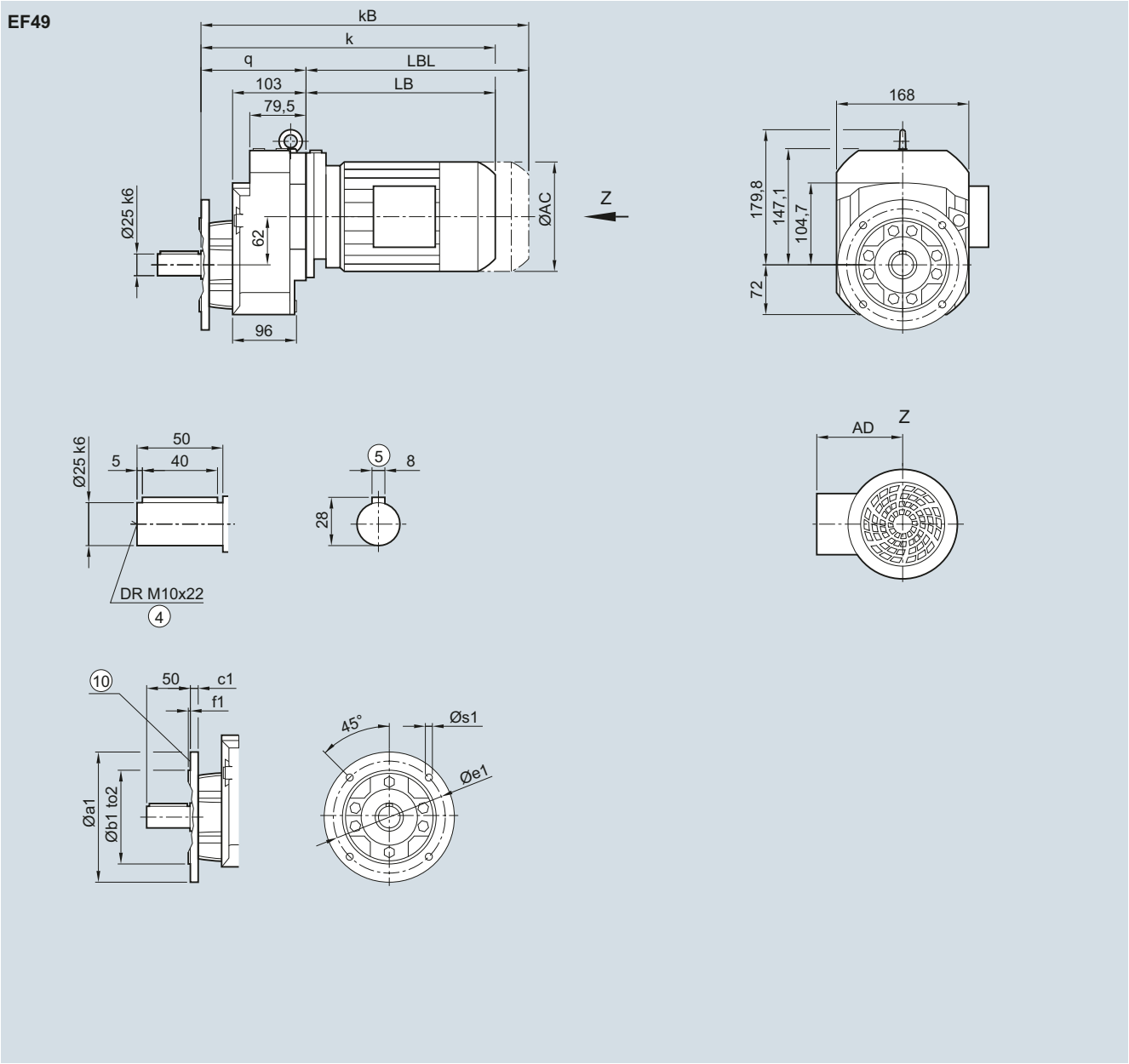
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	351.5	373.0	424.5	485.5	460.5	562.5	582.0	671.0	626.0
kB	396.5	428.0	484.5	555.5	530.5	641.0	655.0	775.5	730.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

EF49 gearbox in a flange-mounted design

EF030



Flange	a1	b1	to2	c1	e1	f1	s1
	160	110	j6	10	130	3.5	9.0
	200	130	j6	12	165	3.5	11.0
	250	180	j6	15	215	4.0	13.5

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	351.5	373.0	424.5	485.5	460.5	562.5	582.0	671.0	626.0
kB	396.5	428.0	484.5	555.5	530.5	641.0	655.0	775.5	730.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

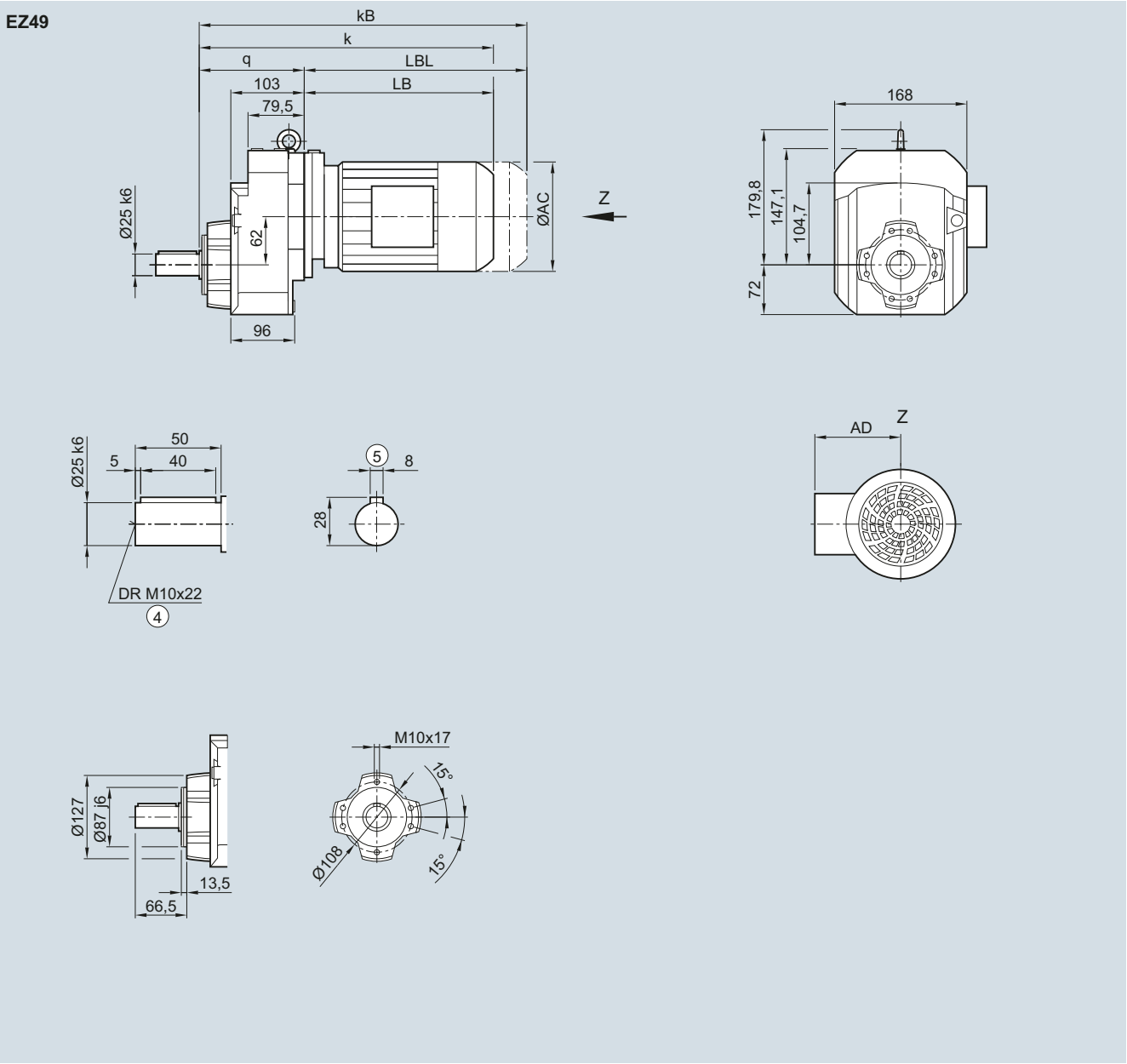
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

EZ49 gearbox in a housing flange design

EZ030



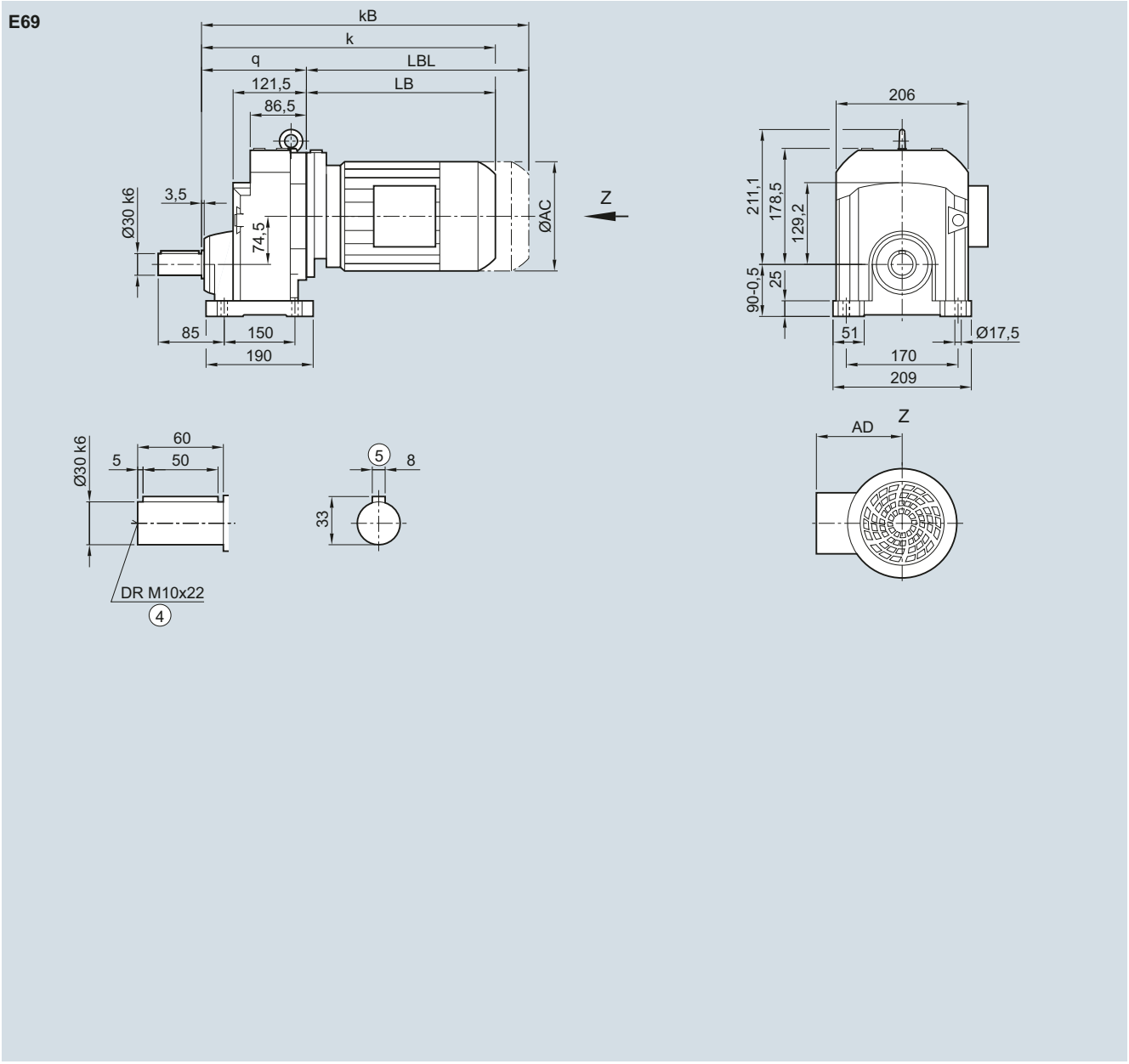
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S
q	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	351.5	373.0	424.5	485.5	460.5	562.5	582.0	671.0	626.0
kB	396.5	428.0	484.5	555.5	530.5	641.0	655.0	775.5	730.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	522.5	477.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	627.0	582.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

E69 gearbox in a foot-mounted design

E030



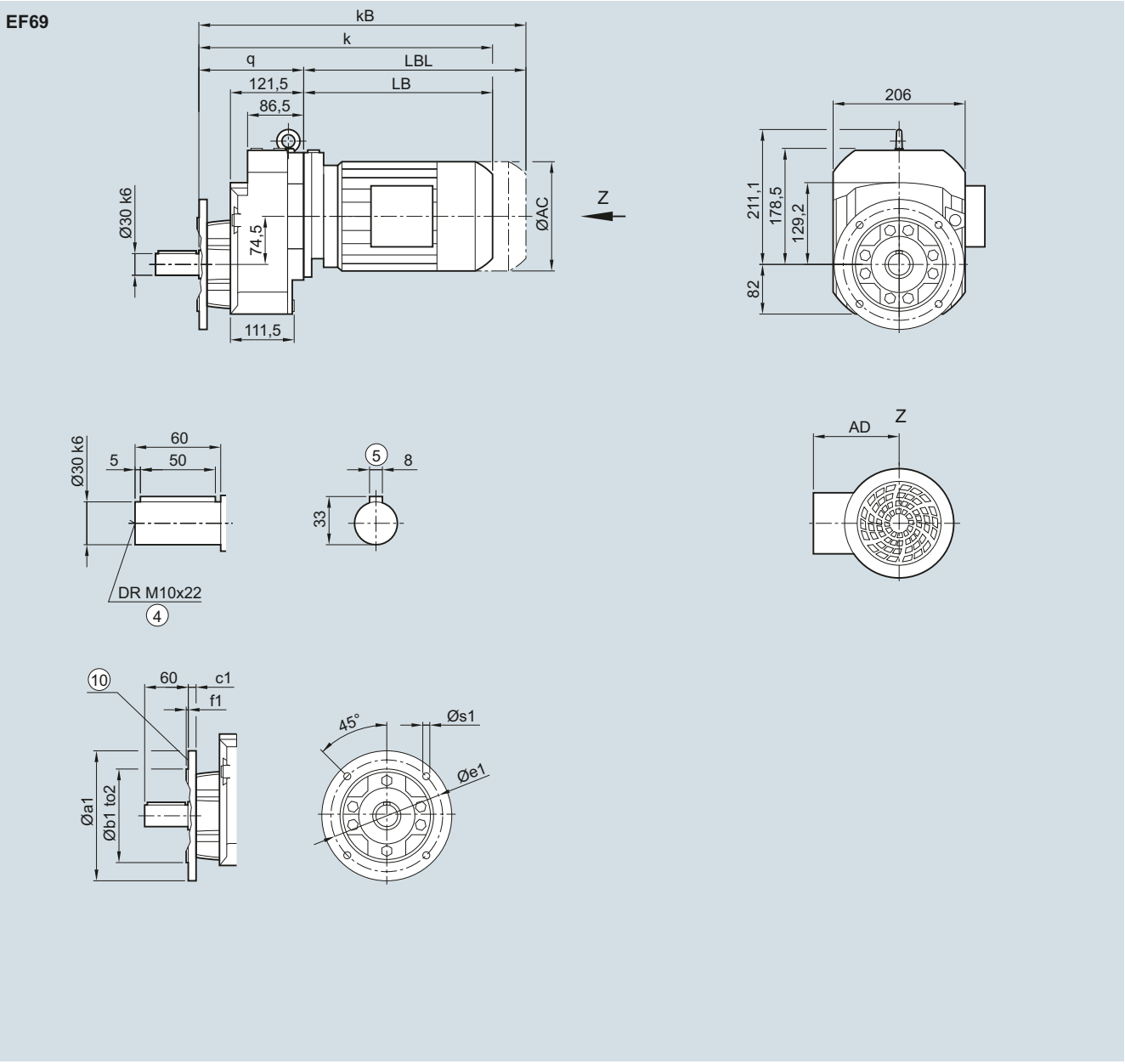
Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M
q	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	398.5	446.0	507.0	482.0	584.0	603.5	692.5	647.5	792.5	732.5
kB	453.5	506.0	577.0	552.0	662.5	676.5	797.0	752.0	908.5	848.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	516.5	471.5	616.5	556.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	621.0	576.0	732.5	672.5

④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

3

EF69 gearbox in a flange-mounted design

EF030



Flange	a1	b1	to2	c1	e1	f1	s1
	200	130	j6	12	165	3.5	11.0
	250	180	j6	15	215	4.0	13.5

Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M
q	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	398.5	446.0	507.0	482.0	584.0	603.5	692.5	647.5	792.5	732.5
kB	453.5	506.0	577.0	552.0	662.5	676.5	797.0	752.0	908.5	848.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	516.5	471.5	616.5	556.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	621.0	576.0	732.5	672.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

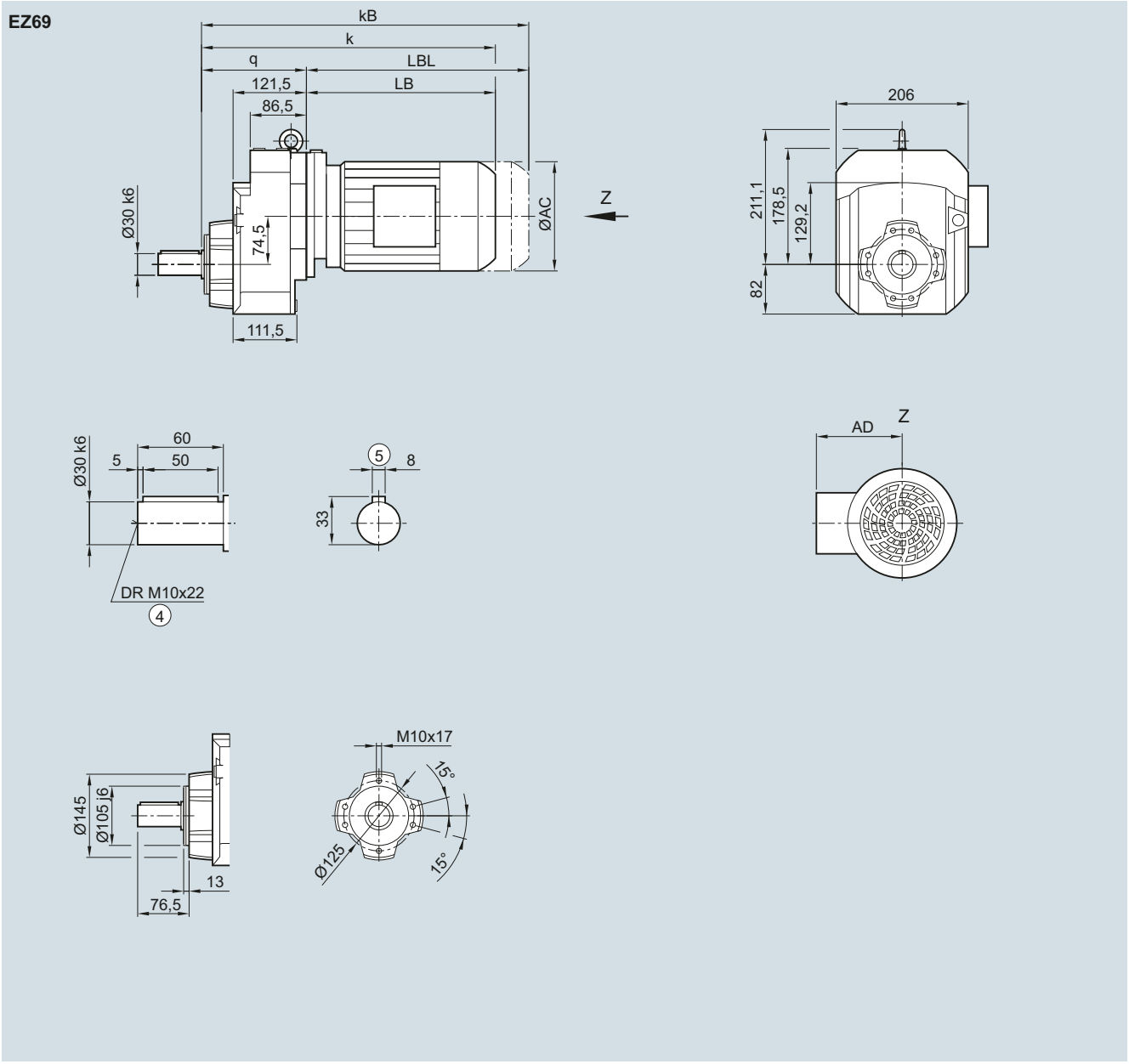
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

EZ69 gearbox in a housing flange design

EZ030



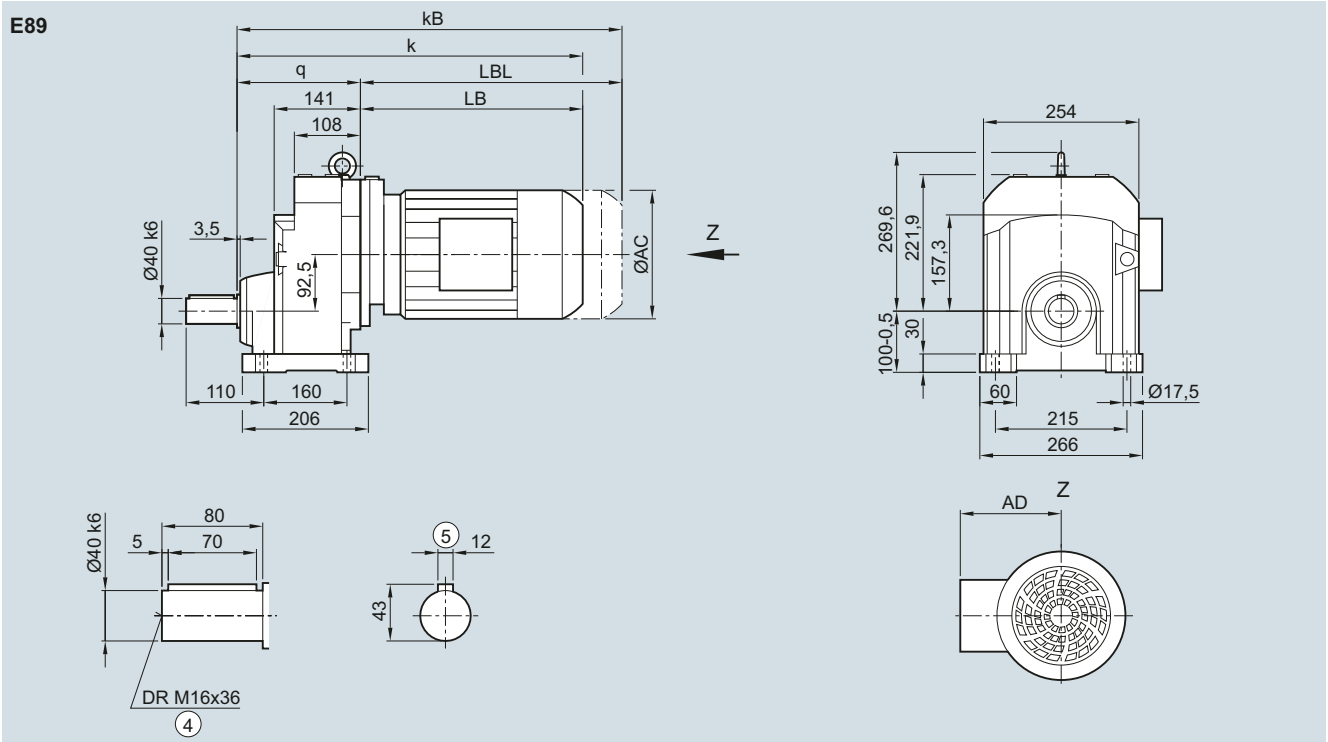
Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M
q	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	398.5	446.0	507.0	482.0	584.0	603.5	692.5	647.5	792.5	732.5
kB	453.5	506.0	577.0	552.0	662.5	676.5	797.0	752.0	908.5	848.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	516.5	471.5	616.5	556.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	621.0	576.0	732.5	672.5

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

E89 gearbox in a foot-mounted design

E030



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	457.0	518.0	493.0	591.0	610.5	699.5	654.5	799.5	739.5	819.0	849.0
kB	517.0	588.0	563.0	669.5	683.5	804.0	759.0	915.5	855.5	948.0	978.0
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332

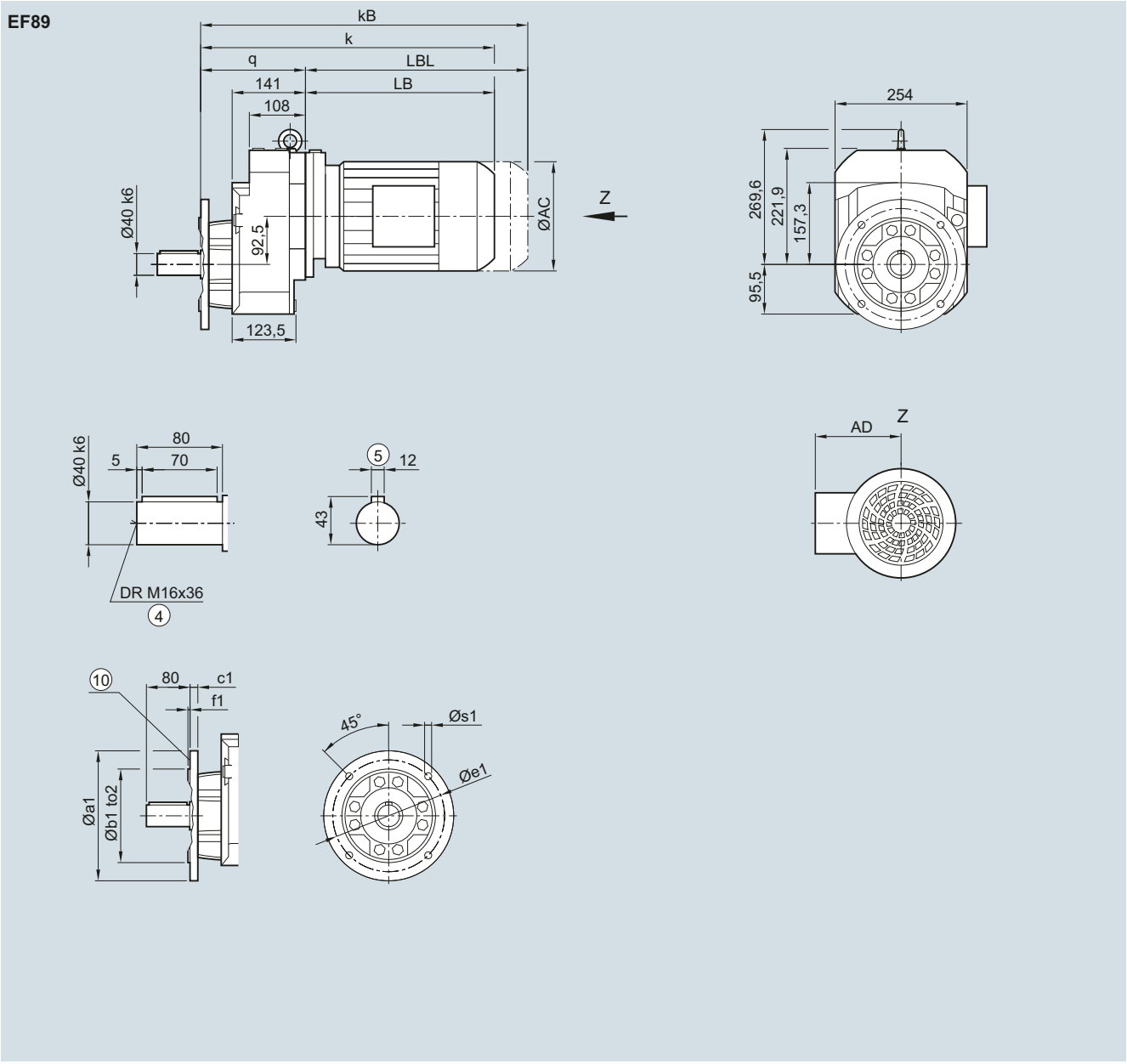
⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

EF89 gearbox in a flange-mounted design

EF030



Flange	a1	b1	to2	c1	e1	f1	s1
	250	180	j6	15	215	4.0	13.5
	300	230	j6	16	265	4.0	13.5
	350	250	j6	16	300	5.0	17.5

Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	457.0	518.0	493.0	591.0	610.5	699.5	654.5	799.5	739.5	819.0	849.0
kB	517.0	588.0	563.0	669.5	683.5	804.0	759.0	915.5	855.5	948.0	978.0
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

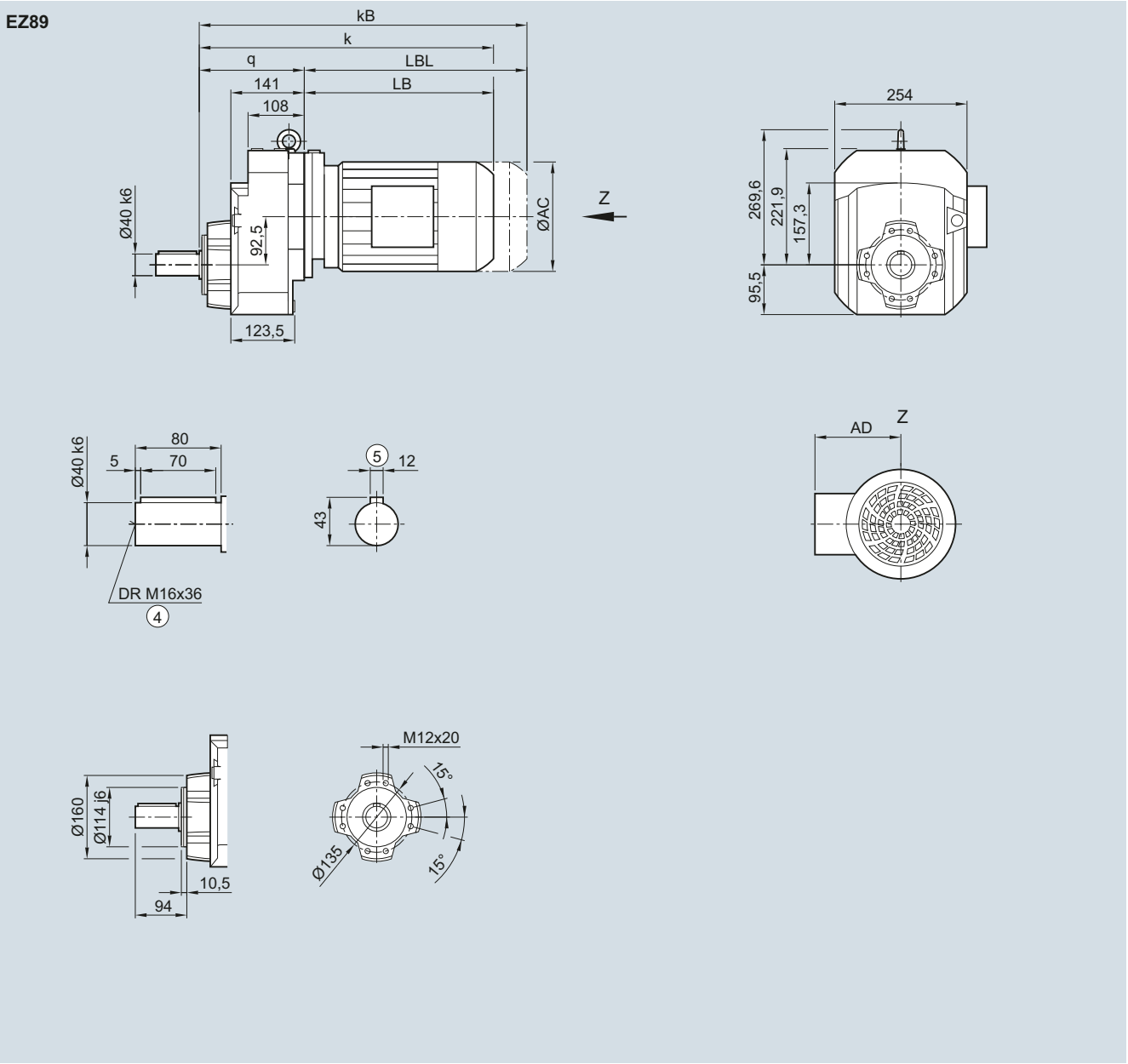
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

EZ89 gearbox in a housing flange design

EZ030



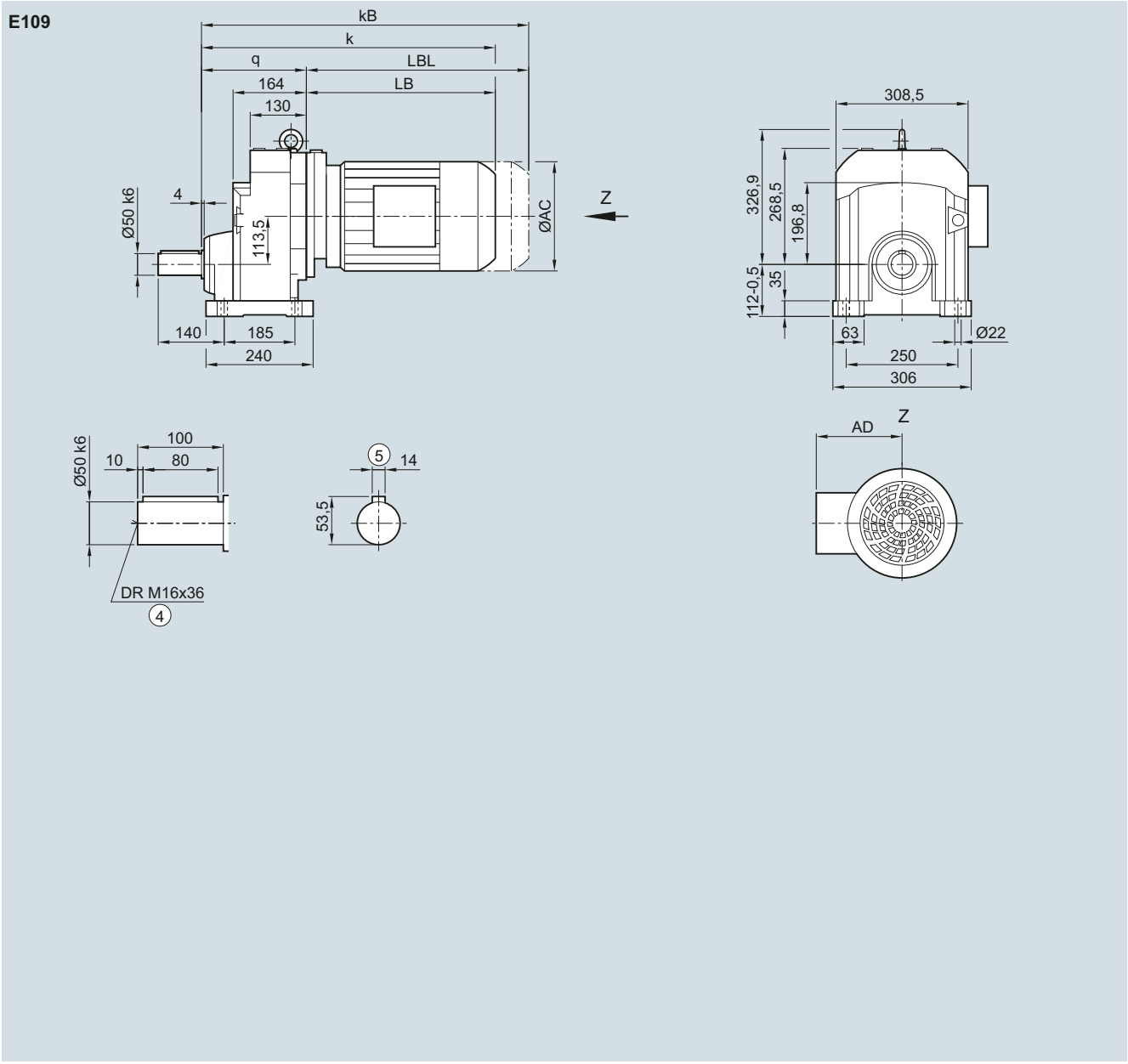
Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	457.0	518.0	493.0	591.0	610.5	699.5	654.5	799.5	739.5	819.0	849.0
kB	517.0	588.0	563.0	669.5	683.5	804.0	759.0	915.5	855.5	948.0	978.0
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

E109 gearbox in a foot-mounted design

E030



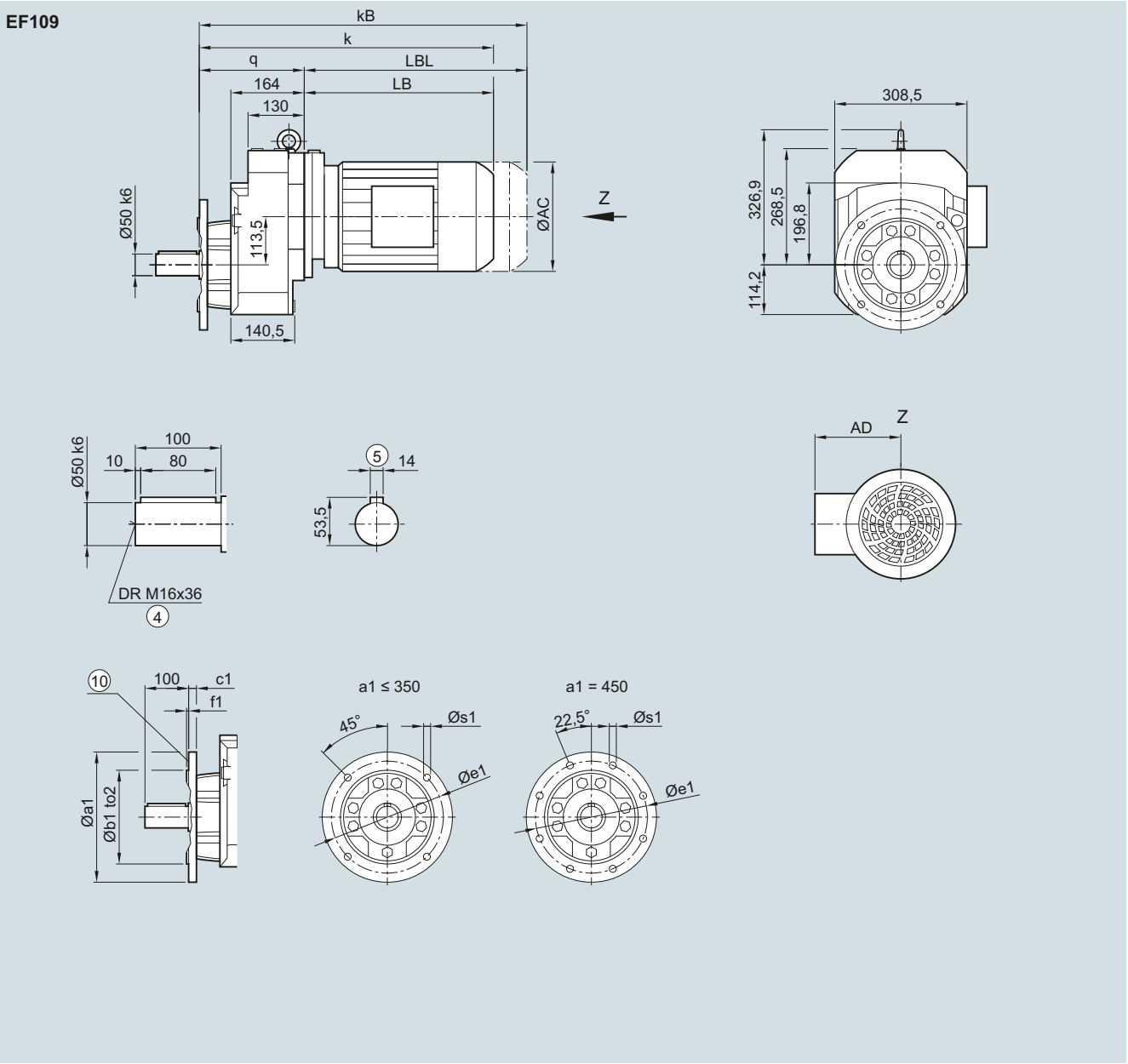
Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	544.0	519.0	615.0	634.5	723.5	678.5	823.5	763.5	843.0	873.0	946.5	992.0
kB	614.0	589.0	693.5	707.5	828.0	783.0	939.5	879.5	972.0	1 002.0	1 093.5	1 139.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

3

EF109 gearbox in a flange-mounted design

EF030



Flange	a1	b1	to2	c1	e1	f1	s1
	300	230	j6	16	265	4.0	13.5
	350	250	j6	18	300	5.0	17.5
	450	350	h6	18	400	5.0	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	544.0	519.0	615.0	634.5	723.5	678.5	823.5	763.5	843.0	873.0	946.5	992.0
kB	614.0	589.0	693.5	707.5	828.0	783.0	939.5	879.5	972.0	1 002.0	1 093.5	1 139.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

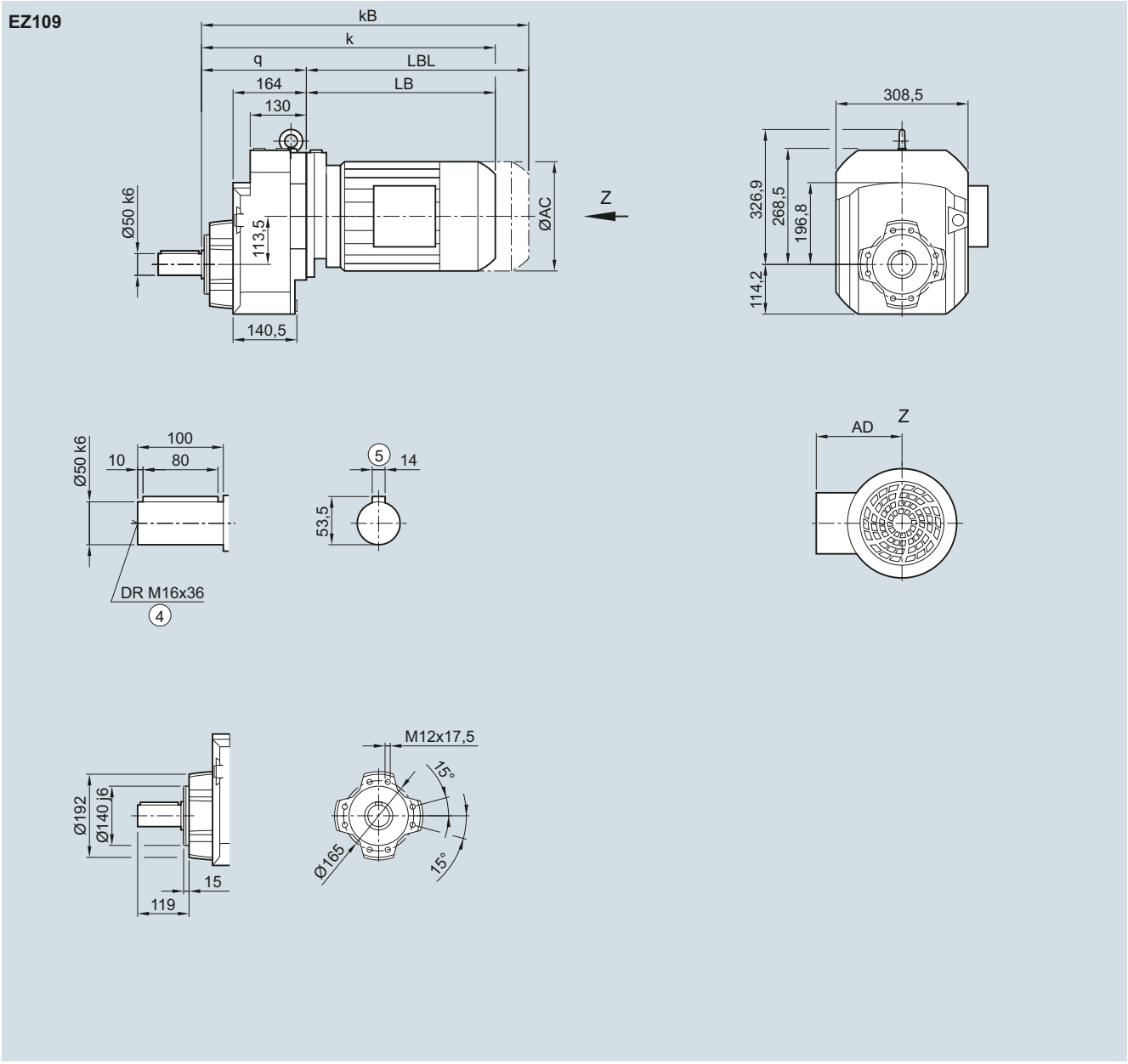
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

EZ109 gearbox in a housing flange design

EZ030

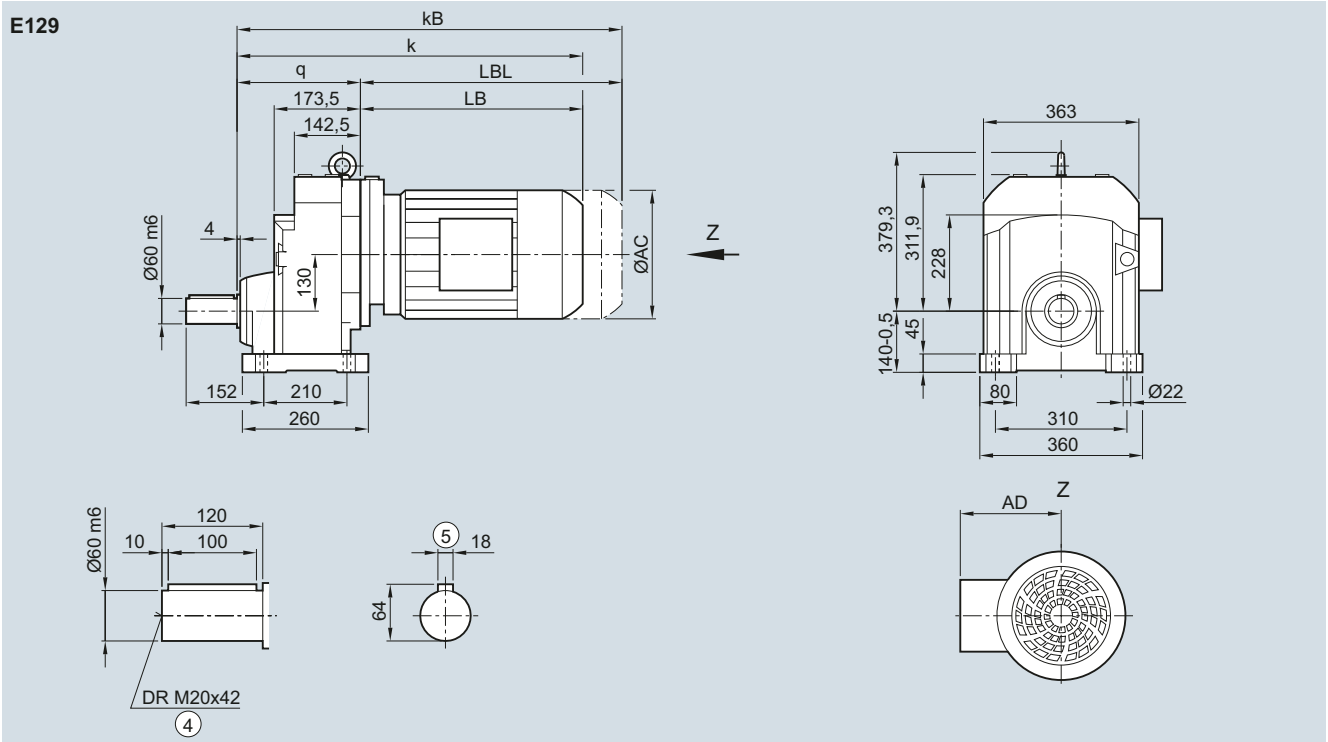


Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	544.0	519.0	615.0	634.5	723.5	678.5	823.5	763.5	843.0	873.0	946.5	992.0
kB	614.0	589.0	693.5	707.5	828.0	783.0	939.5	879.5	972.0	1 002.0	1 093.5	1 139.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

E129 gearbox in a foot-mounted design

E030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	556.0	531.0	625.0	644.5	731.5	686.5	831.5	771.5	851.0	881.0	954.5	1 000.0	1 125.5
kB	626.0	601.0	703.5	717.5	836.0	791.0	947.5	887.5	980.0	1 010.0	1 101.5	1 147.0	1 250.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

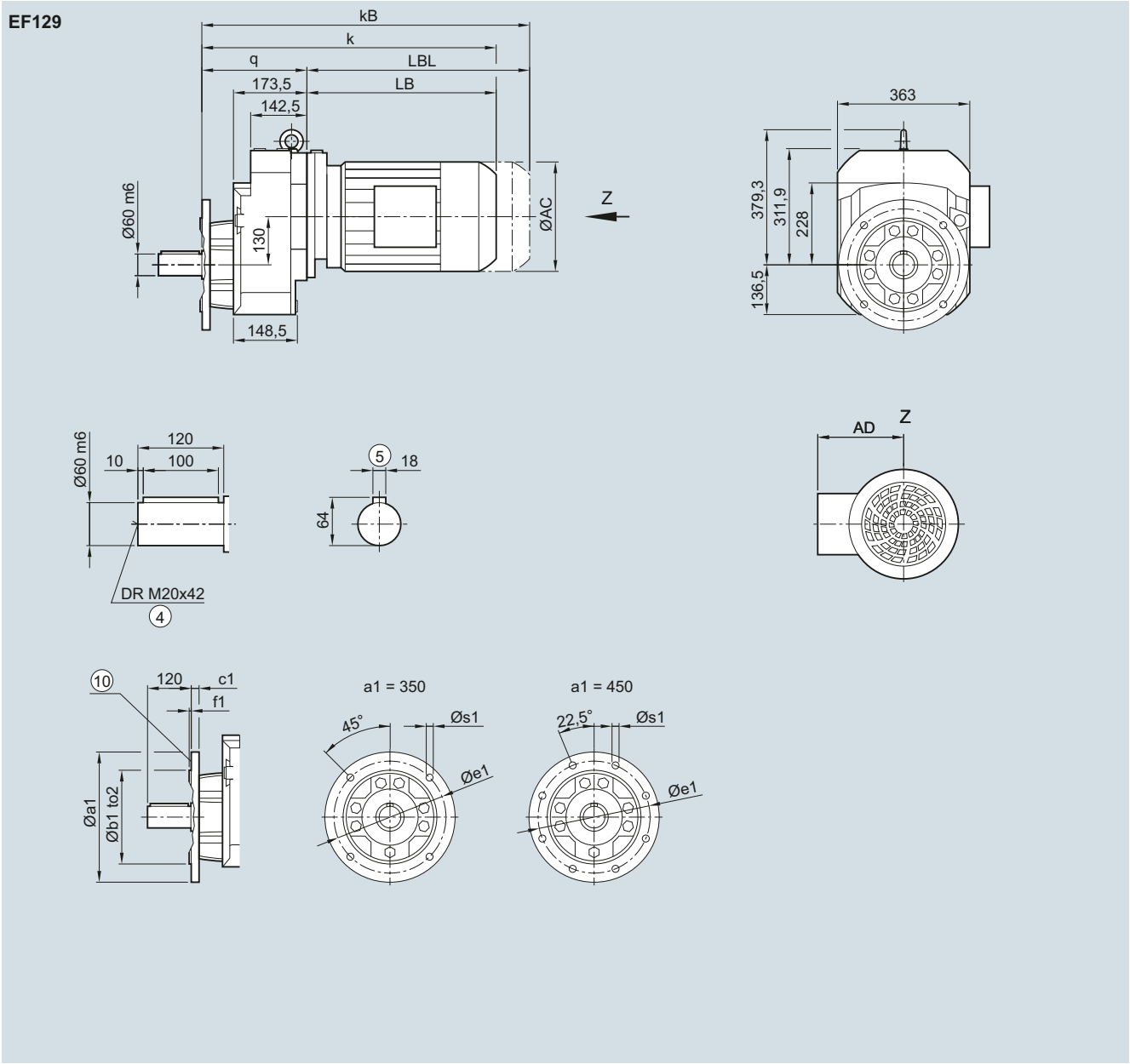
1) AD depends on the motor options, for other dimensions see page 7/20.

2) AD depends on the motor options, for other dimensions see page 7/20.

3

EF129 gearbox in a flange-mounted design

EF030



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	18	300	5	17.5
	450	350	h6	22	400	5	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	556.0	531.0	625.0	644.5	731.5	686.5	831.5	771.5	851.0	881.0	954.5	1 000.0	1 125.5
kB	626.0	601.0	703.5	717.5	836.0	791.0	947.5	887.5	980.0	1 010.0	1 101.5	1 147.0	1 250.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332

⑩ For inner contour see page 3/311

⑤ Feather key/keyway DIN 6885-1

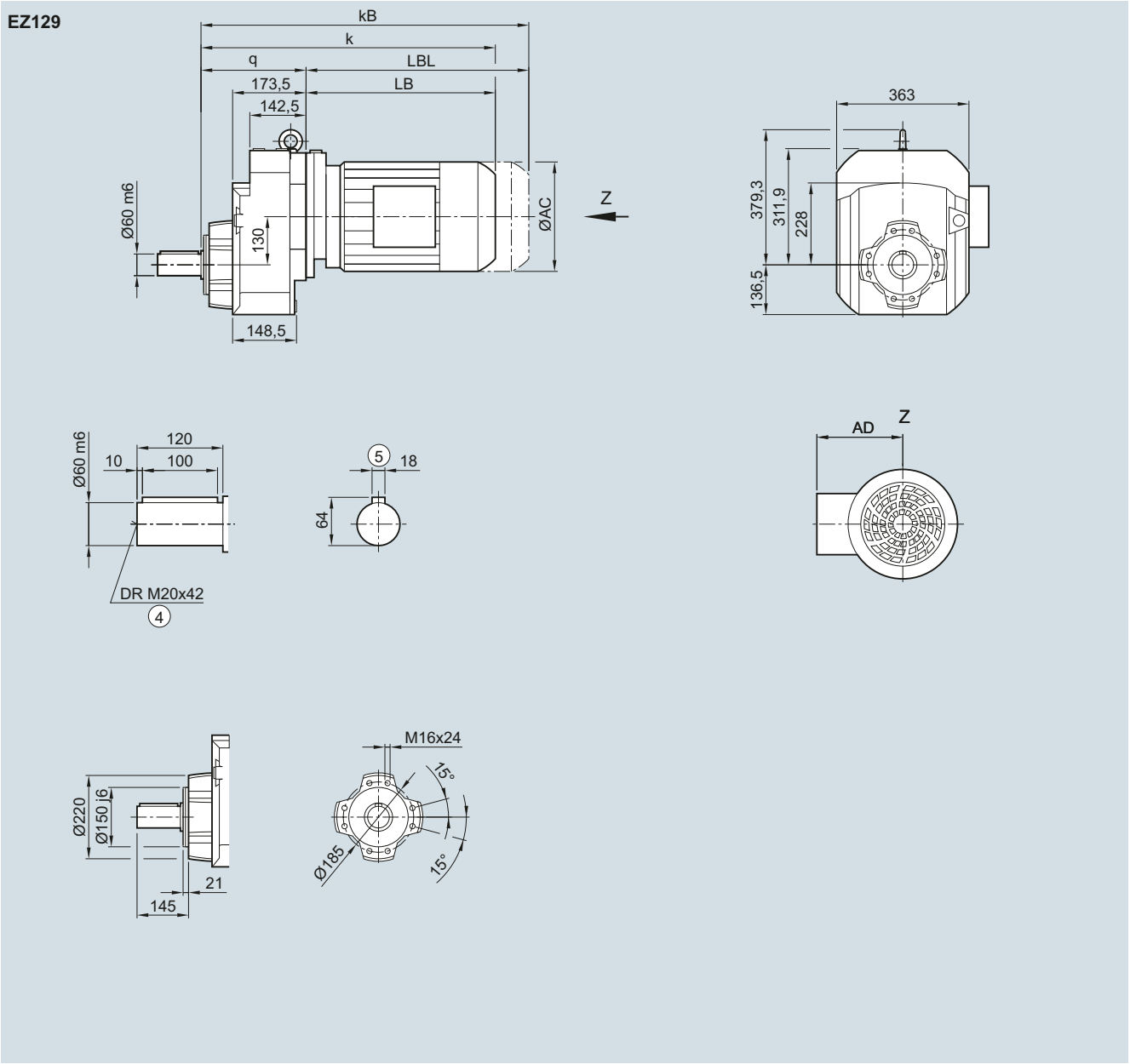
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

EZ129 gearbox in a housing flange design

EZ030



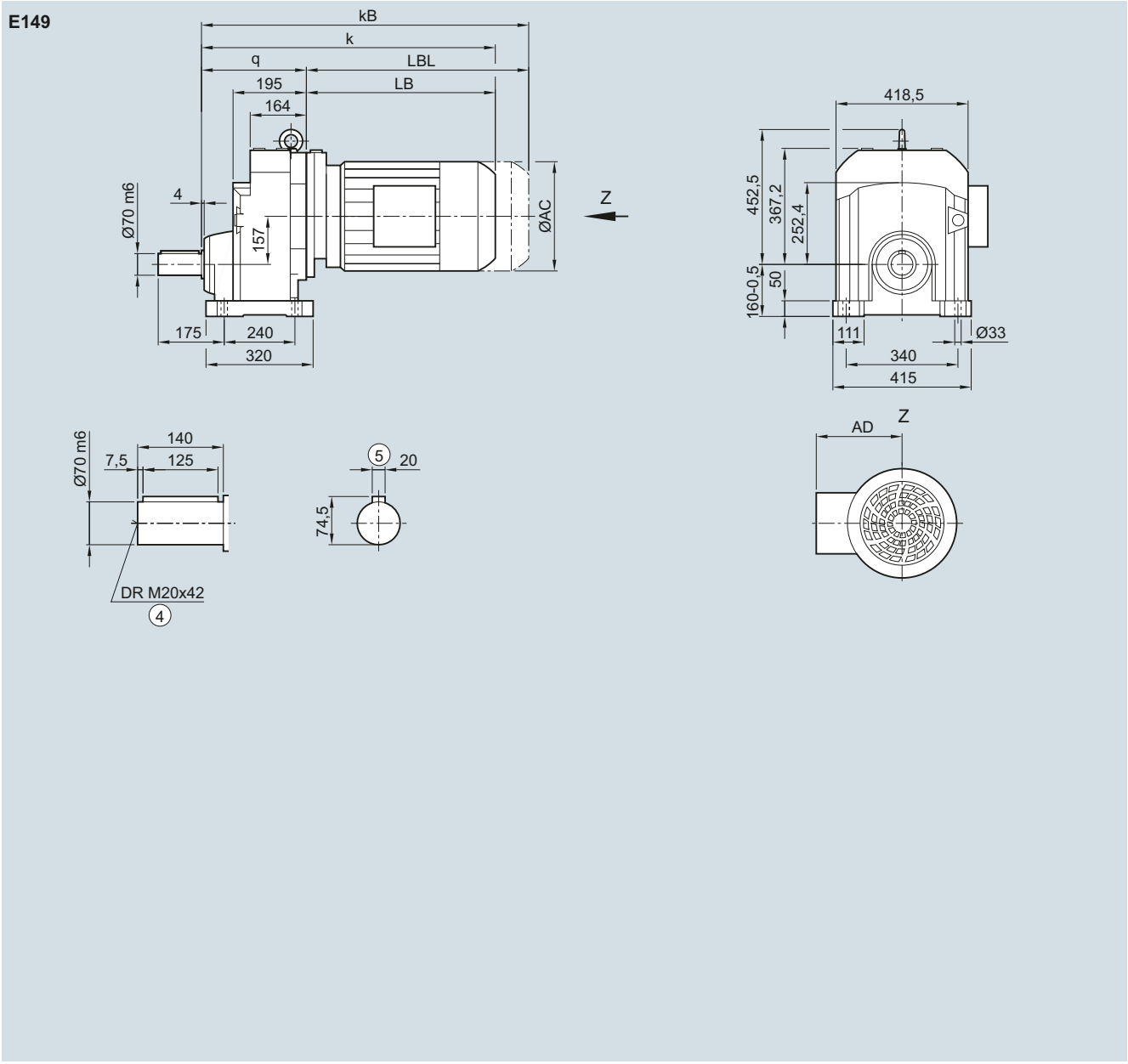
Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[1)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	556.0	531.0	625.0	644.5	731.5	686.5	831.5	771.5	851.0	881.0	954.5	1 000.0	1 125.5
kB	626.0	601.0	703.5	717.5	836.0	791.0	947.5	887.5	980.0	1 010.0	1 101.5	1 147.0	1 250.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

E149 gearbox in a foot-mounted design

E030



Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	638.5	658.0	740.0	695.0	840.0	780.0	859.5	889.5	963.0	1 008.5	1 134.0
kB	717.0	731.0	844.5	799.5	956.0	896.0	988.5	1 018.5	1 110.0	1 155.5	1 259.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

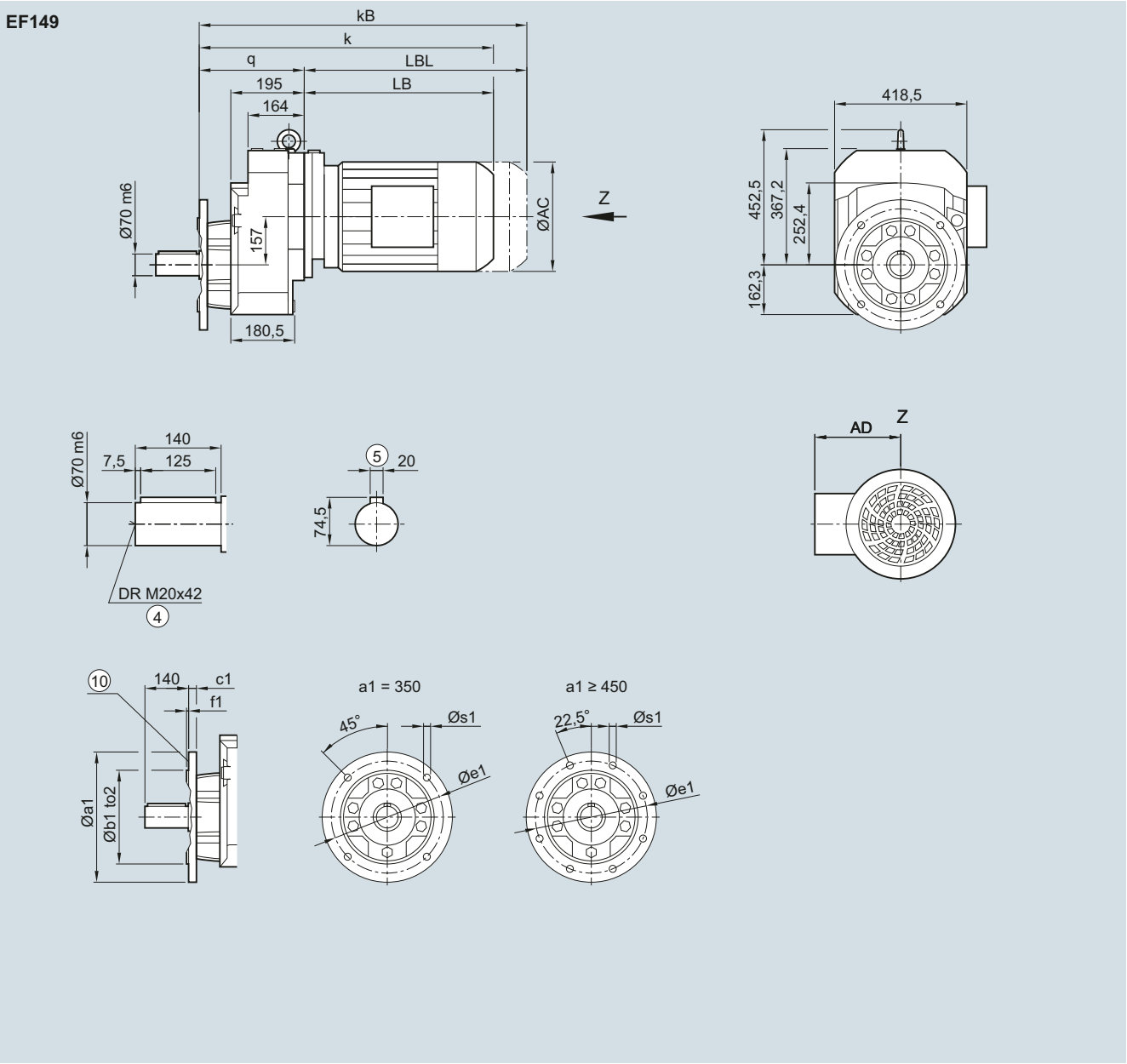
④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

EF149 gearbox in a flange-mounted design

EF030



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	638.5	658.0	740.0	695.0	840.0	780.0	859.5	889.5	963.0	1 008.5	1 134.0
kB	717.0	731.0	844.5	799.5	956.0	896.0	988.5	1 018.5	1 110.0	1 155.5	1 259.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

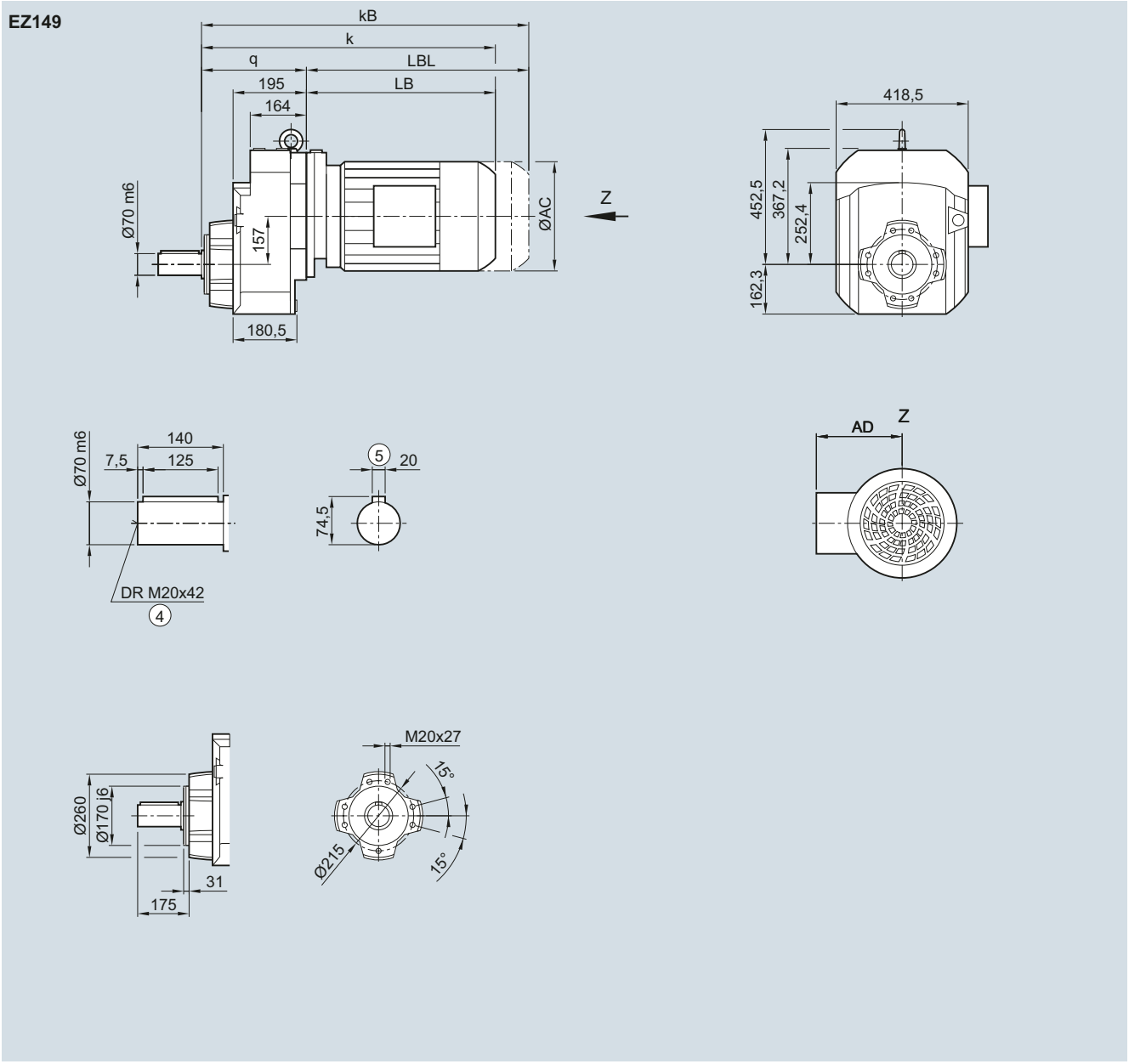
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

EZ149 gearbox in a housing flange design

EZ030



Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	638.5	658.0	740.0	695.0	840.0	780.0	859.5	889.5	963.0	1 008.5	1 134.0
kB	717.0	731.0	844.5	799.5	956.0	896.0	988.5	1 018.5	1 110.0	1 155.5	1 259.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

④ DIN 332
1) Dimensions for LHN(S3-75%), LEN(IE2)

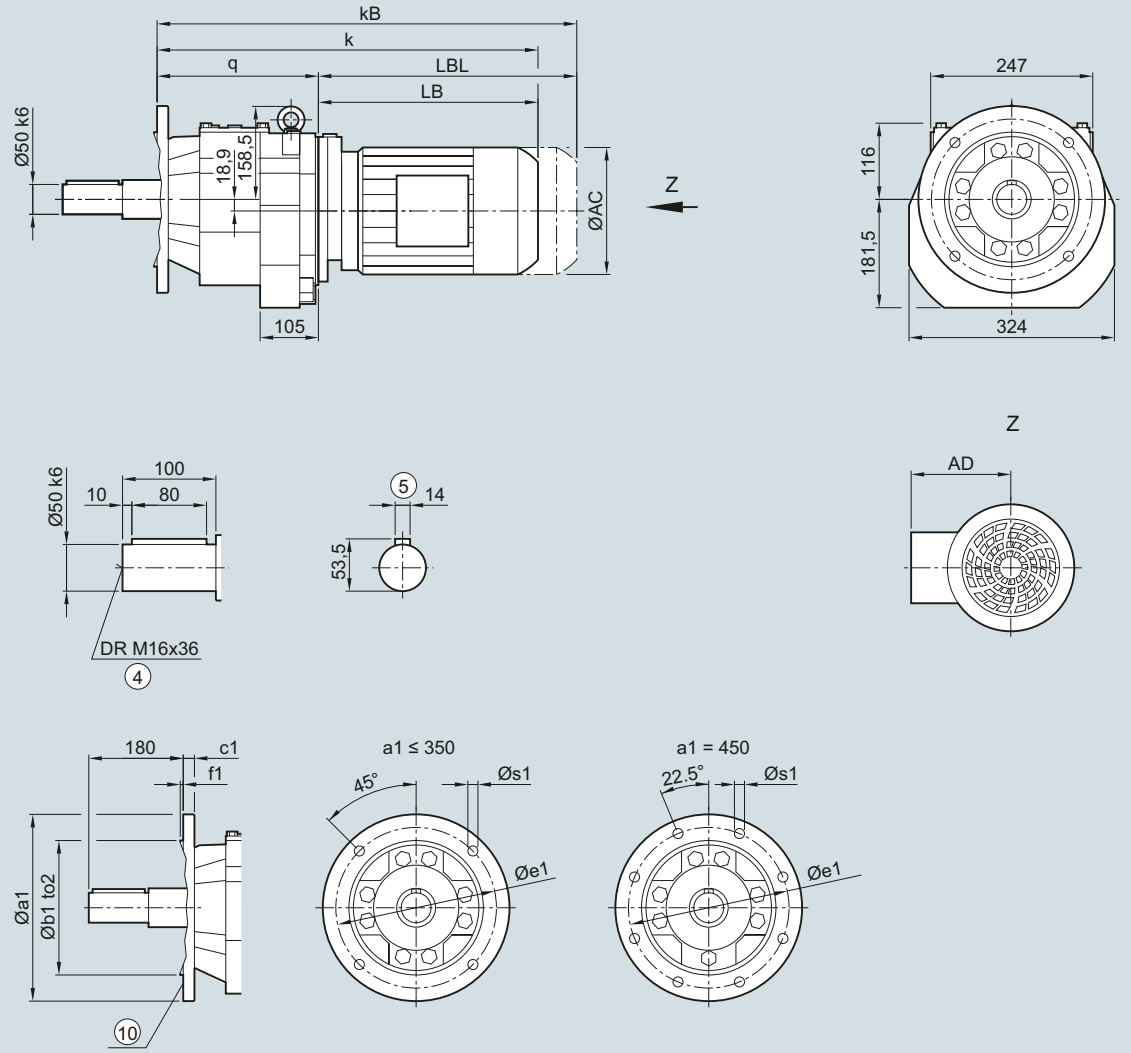
⑤ Feather key/keyway DIN 6885-1
2) AD depends on the motor options, for other dimensions see page 7/20.

3

ZKF89 gearbox in a flange-mounted design

ZKF030

ZKF89



Flange	a1	b1	to2	c1	e1	f1	s1
	300	230	j6	16	265	4.0	13.5
	350	250	j6	18	300	5.0	17.5
	450	350	h6	18	400	5.0	17.5

Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	526.5	587.5	562.5	660.5	680.0	769.0	724.0	869.0	809.0	888.5	918.5
kB	586.5	657.5	632.5	739.0	753.0	873.5	828.5	985.0	925.0	1 017.5	1 047.5
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

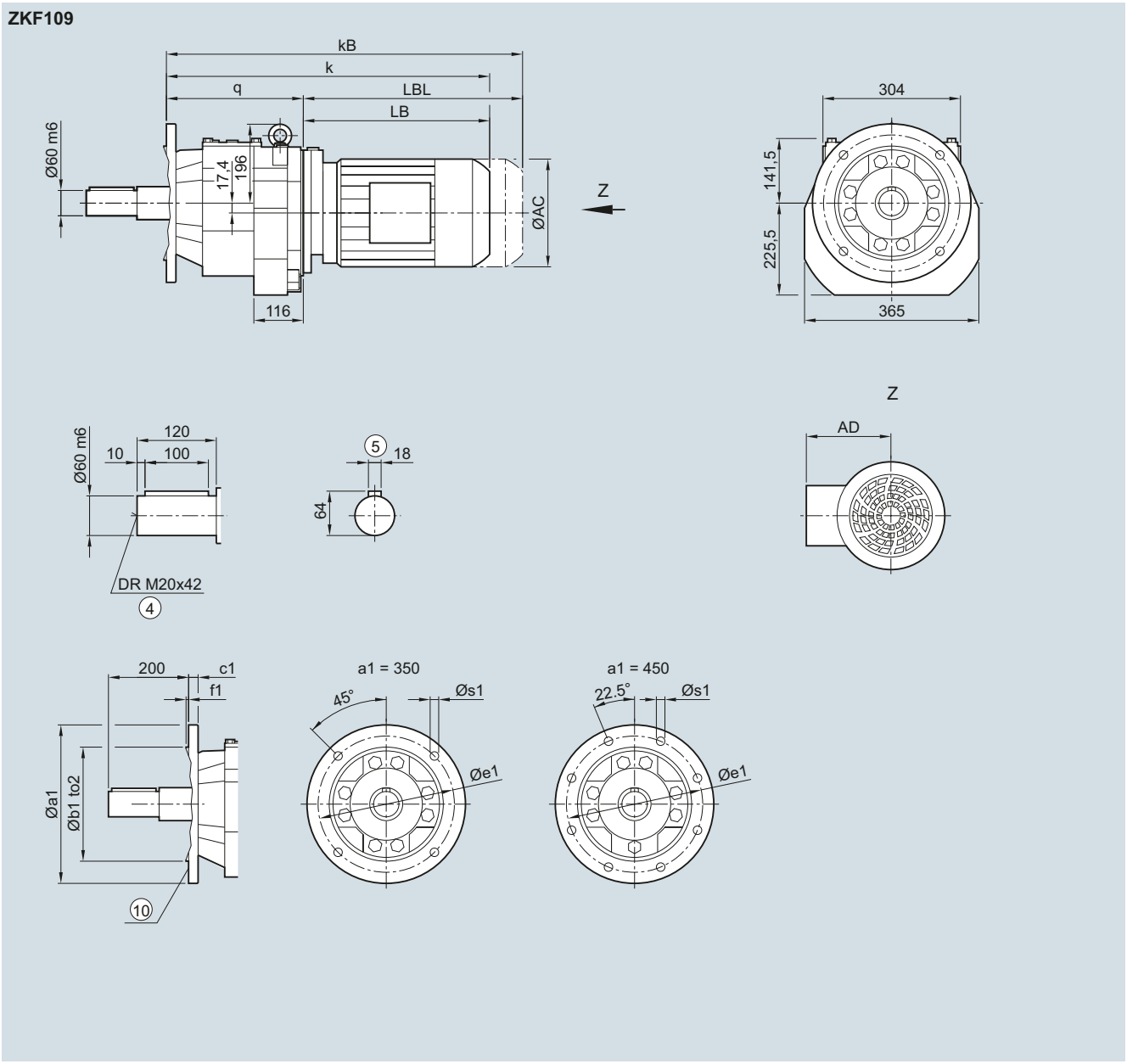
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

ZKF109 gearbox in a flange-mounted design

ZKF030

ZKF109



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	18	300	5	17.5
	450	350	h6	22	400	5	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	624.0	599.0	695.0	714.5	803.5	758.5	903.5	843.5	923.0	953.0	1 026.5	1 072.0
kB	694.0	669.0	773.5	787.5	908.0	863.0	1 019.5	959.5	1 052.0	1 082.0	1 173.5	1 219.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

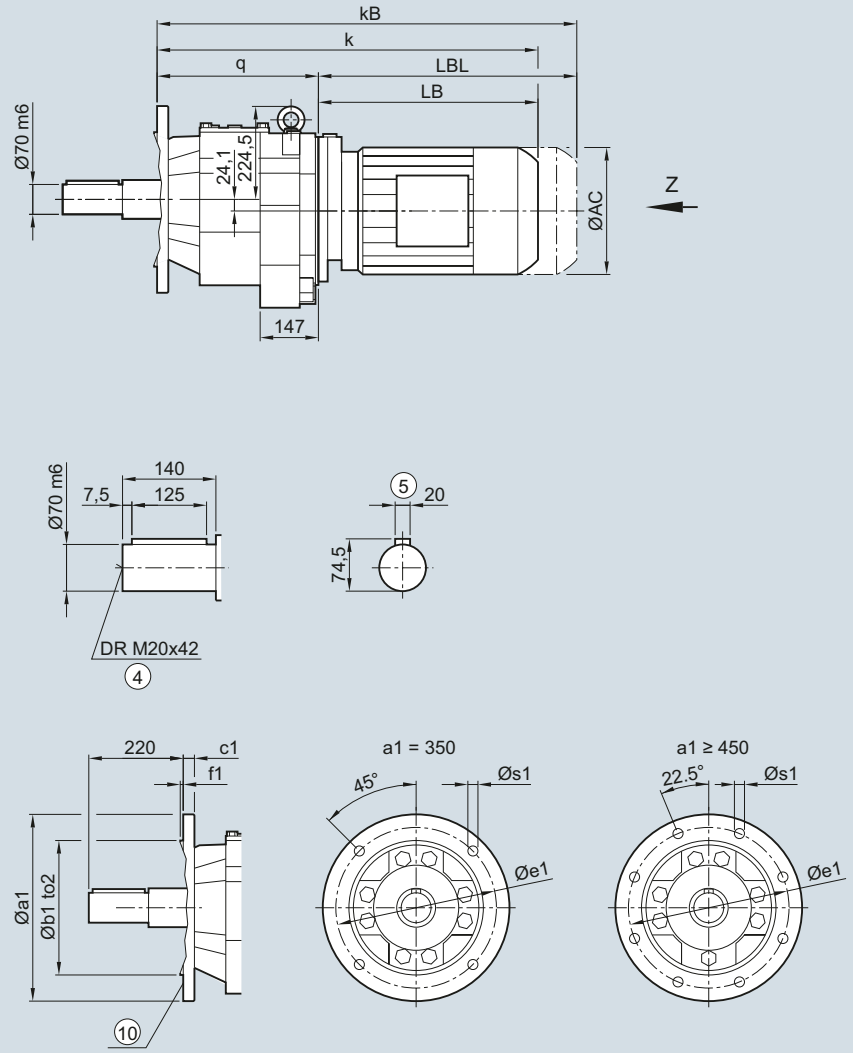
2) AD depends on the motor options, for other dimensions see page 7/20.

3

ZKF129 gearbox in a flange-mounted design

ZKF030

ZKF129



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	678.0	653.0	747.0	766.5	853.5	808.5	953.5	893.5	973.0	1 003.0	1 076.5	1 122.0	1 247.5
kB	748.0	723.0	825.5	839.5	958.0	913.0	1 069.5	1 009.5	1 102.0	1 132.0	1 223.5	1 269.0	1 372.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

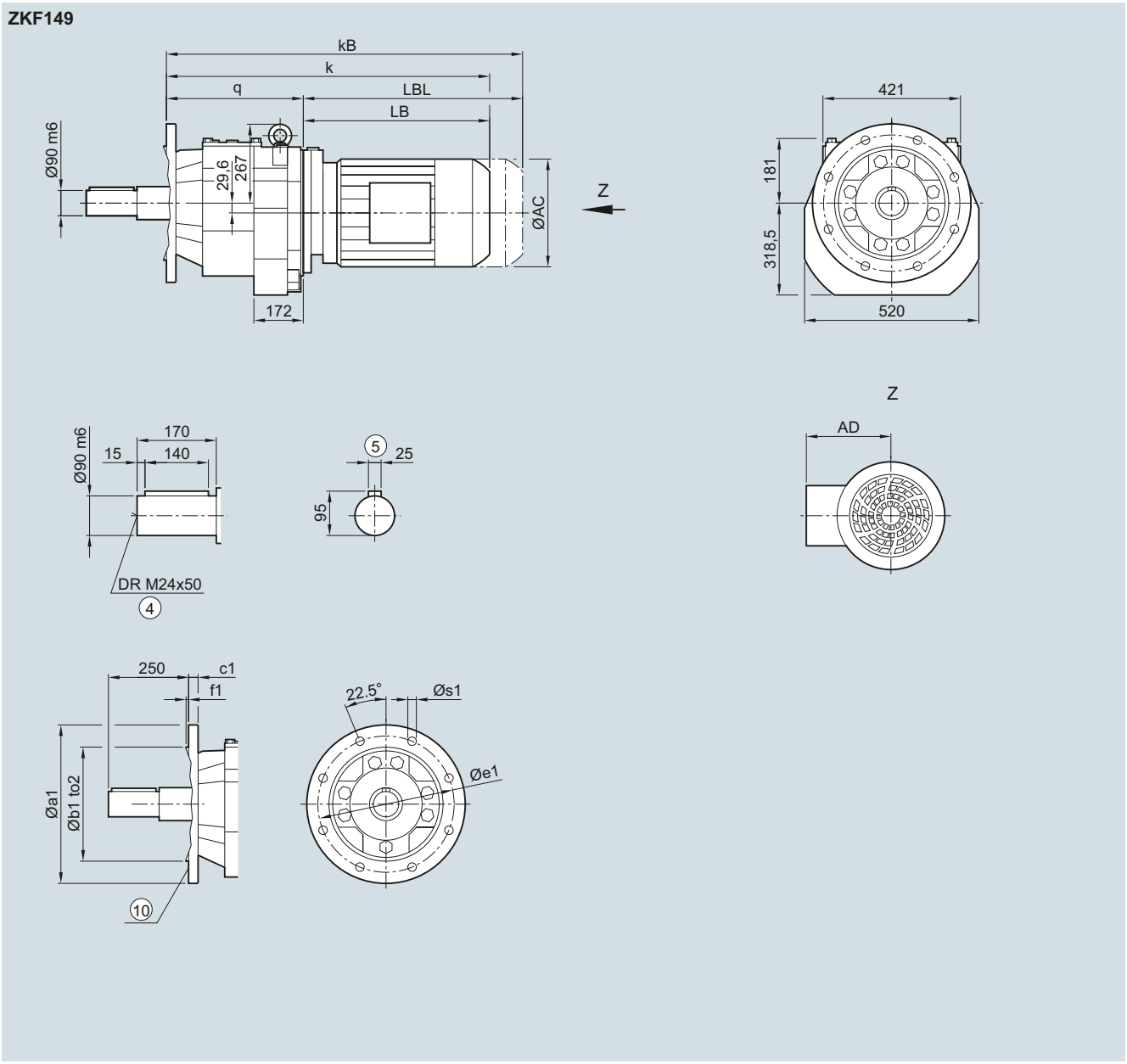
2) AD depends on the motor options, for other dimensions see page 7/20.

3

ZKF149 gearbox in a flange-mounted design

ZKF030

ZKF149



Flange	a1	b1	to2	c1	e1	f1	s1
	450	350	h6	22	400	5	17.5
	550	450	h6	25	500	5	17.5

Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	785.5	805.0	887.0	842.0	987.0	927.0	1 006.5	1 036.5	1 110.0	1 155.5	1 281.0
kB	864.0	878.0	991.5	946.5	1 103.0	1 043.0	1 135.5	1 165.5	1 257.0	1 302.5	1 406.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

④ DIN 332

⑩ For inner contour see page 3/311

⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

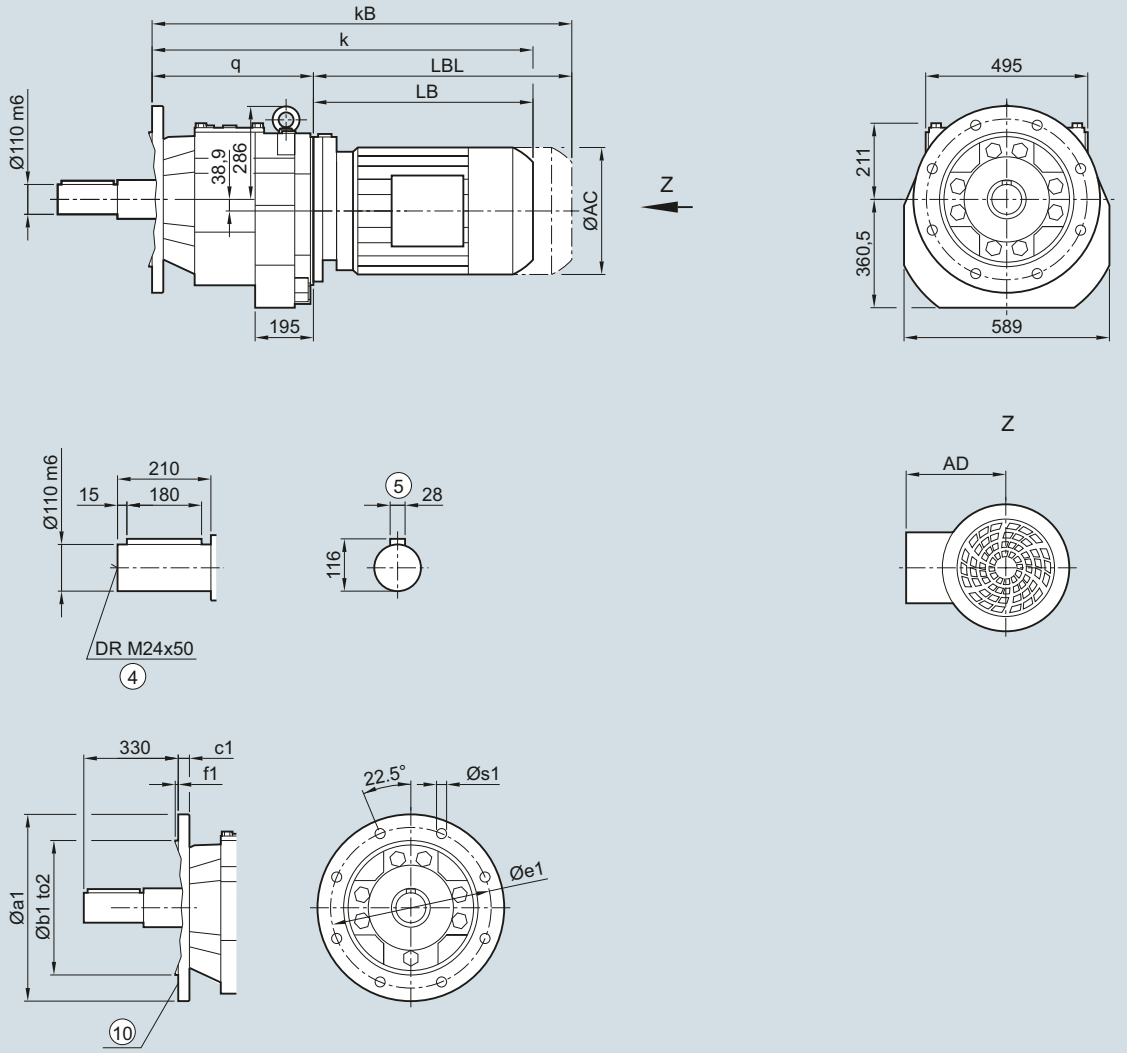
2) AD depends on the motor options, for other dimensions see page 7/20.

3

ZKF169 gearbox in a flange-mounted design

ZKF030

ZKF169



Flange	a1	b1	to2	c1	e1	f1	s1
	450	350	h6	22	400	5	22
	550	450	h6	25	500	5	22
	660	550	h6	25	600	6	22

Motor[1)]	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	872.5	954.0	909.0	1 054.0	994.0	1 073.0	1 103.0	1 176.5	1 221.0	1 342.5
kB	945.5	1 058.5	1 013.5	1 170.0	1 110.0	1 202.0	1 232.0	1 323.5	1 368.0	1 467.5
LB	378.5	460.0	415.0	560.0	500.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	564.5	519.5	676.0	616.0	708.0	738.0	829.5	874.0	973.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

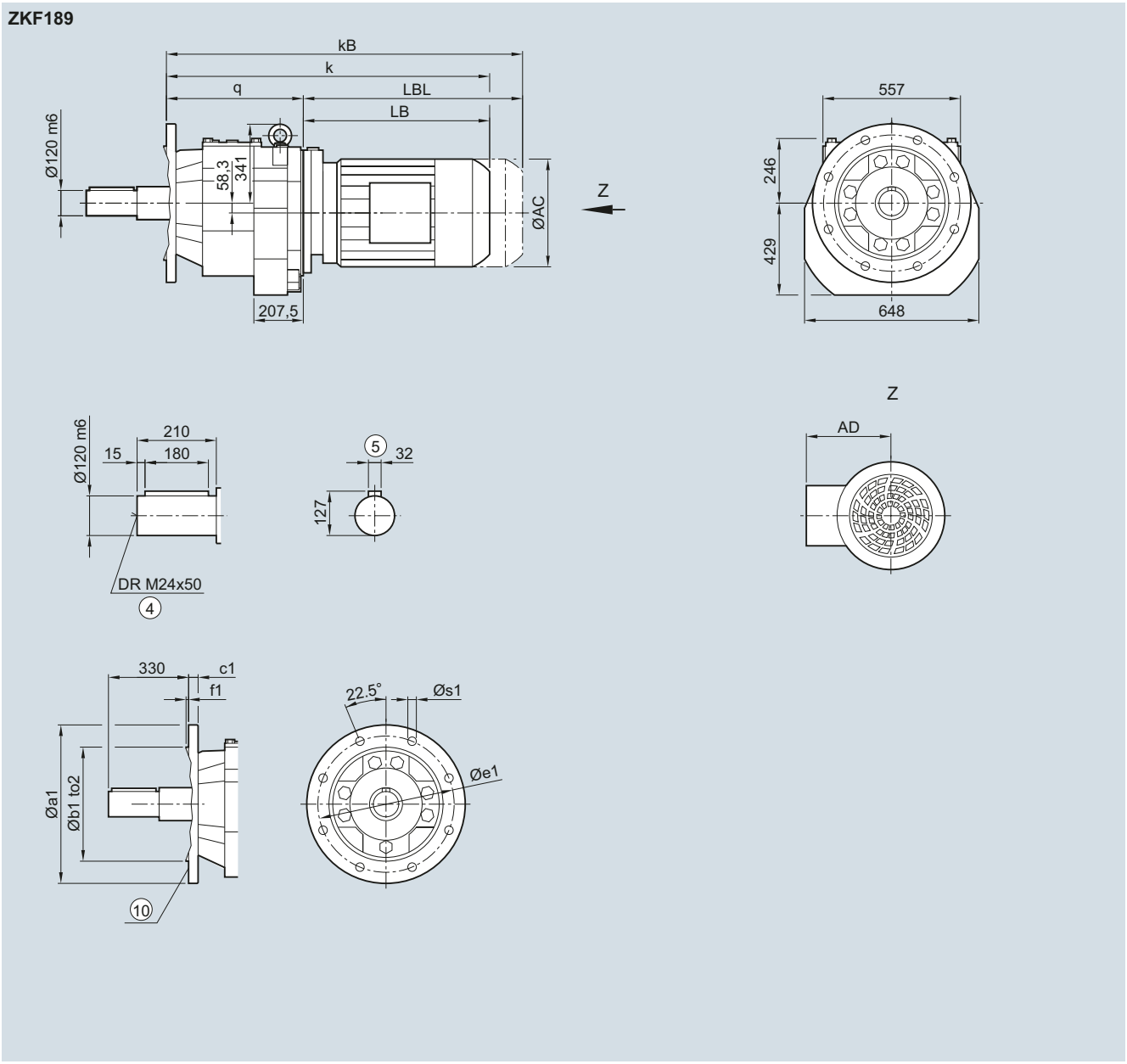
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

ZKF189 gearbox in a flange-mounted design

ZKF030

ZKF189



Flange	a1	b1	to2	c1	e1	f1	s1
	550	450	h6	25	500	5	17.5
	660	550	h6	28	600	6	22.0

Motor[1)]	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	968.5	1 050.0	1 005.0	1 150.0	1 090.0	1 169.0	1 199.0	1 272.5	1 317.0	1 438.5
kB	1 041.5	1 154.5	1 109.5	1 266.0	1 206.0	1 298.0	1 328.0	1 419.5	1 464.0	1 563.5
LB	378.5	460.0	415.0	560.0	500.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	564.5	519.5	676.0	616.0	708.0	738.0	829.5	874.0	973.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

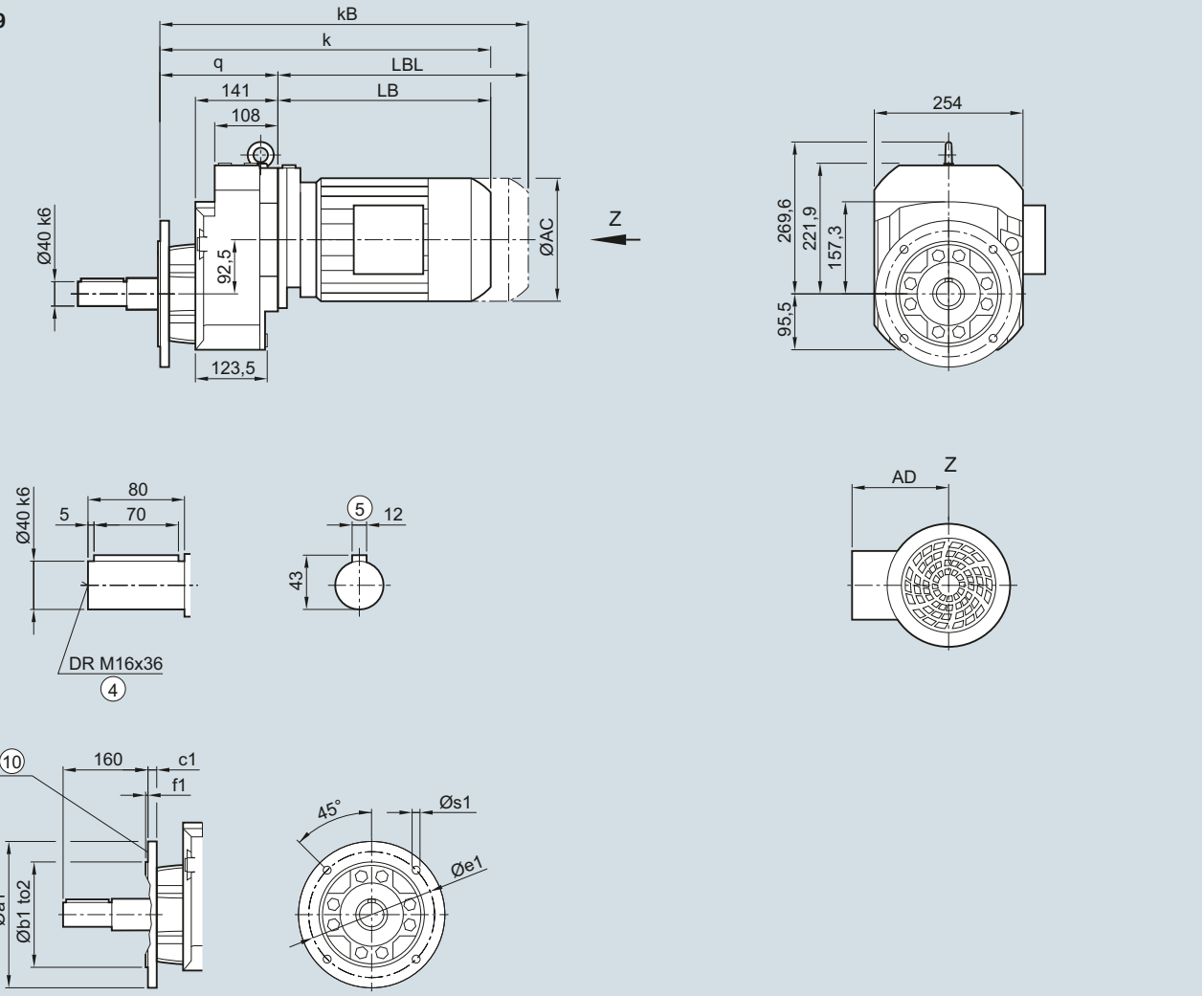
2) AD depends on the motor options, for other dimensions see page 7/20.

3

EKF89 gearbox in a flange-mounted design

EKF030

EKF89



Flange	a1	b1	to2	c1	e1	f1	s1
	250	180	j6	15	215	4.0	13.5
	300	230	j6	16	265	4.0	13.5
	350	250	j6	16	300	5.0	17.5

Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L
q	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	457.0	518.0	493.0	591.0	610.5	699.5	654.5	799.5	739.5	819.0	849.0
kB	517.0	588.0	563.0	669.5	683.5	804.0	759.0	915.5	855.5	948.0	978.0
LB	257.0	318.0	293.0	391.0	410.5	499.5	454.5	599.5	539.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	604.0	559.0	715.5	655.5	748.0	778.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

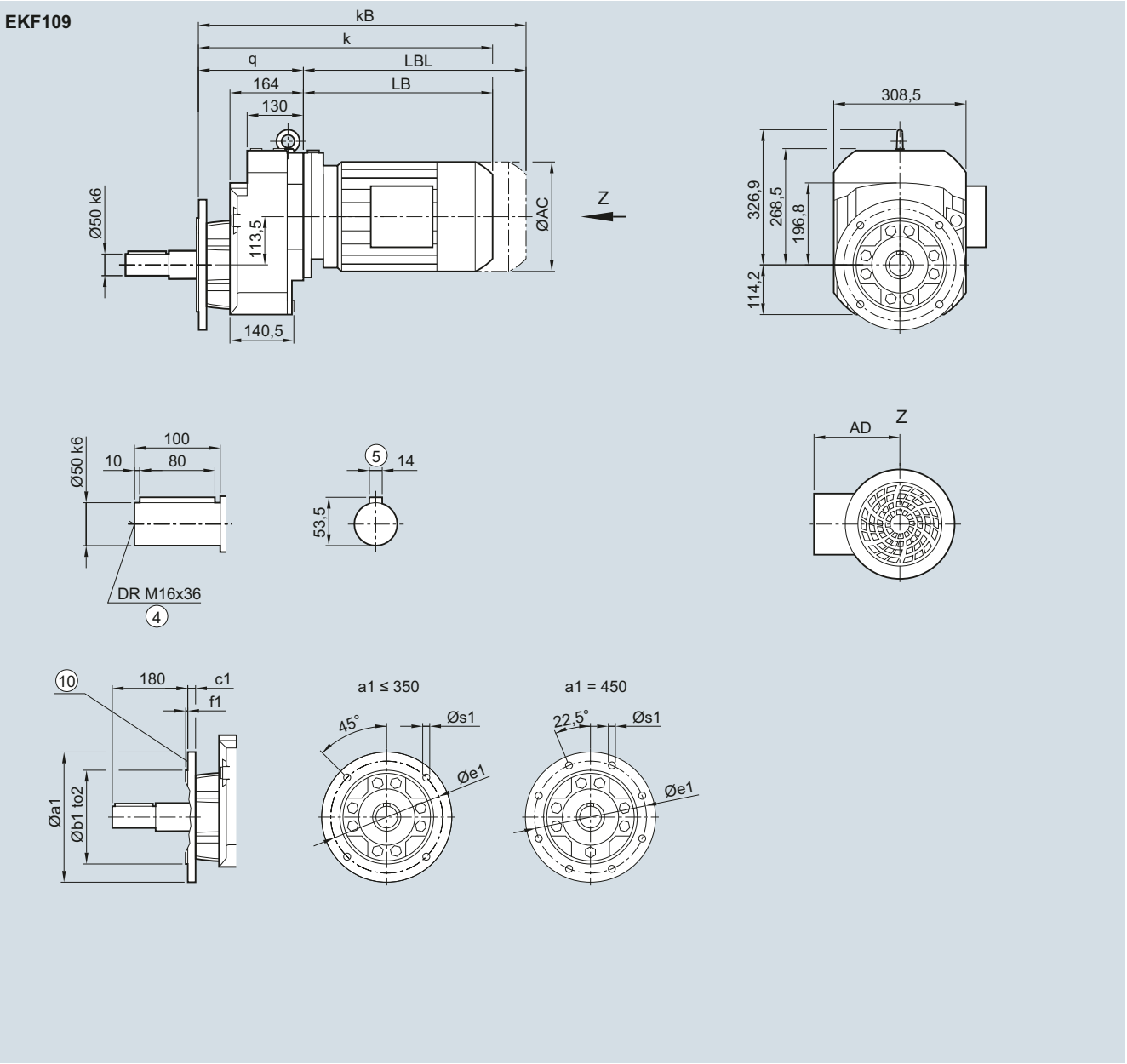
⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

EKF109 gearbox in a flange-mounted design

EKF030



Flange	a1	b1	to2	c1	e1	f1	s1
	300	230	j6	16	265	4.0	13.5
	350	250	j6	18	300	5.0	17.5
	450	350	h6	18	400	5.0	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225
q	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	544.0	519.0	615.0	634.5	723.5	678.5	823.5	763.5	843.0	873.0	946.5	992.0
kB	614.0	589.0	693.5	707.5	828.0	783.0	939.5	879.5	972.0	1 002.0	1 093.5	1 139.0
LB	311.0	286.0	382.0	401.5	490.5	445.5	590.5	530.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	595.0	550.0	706.5	646.5	739.0	769.0	860.5	906.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 3/311

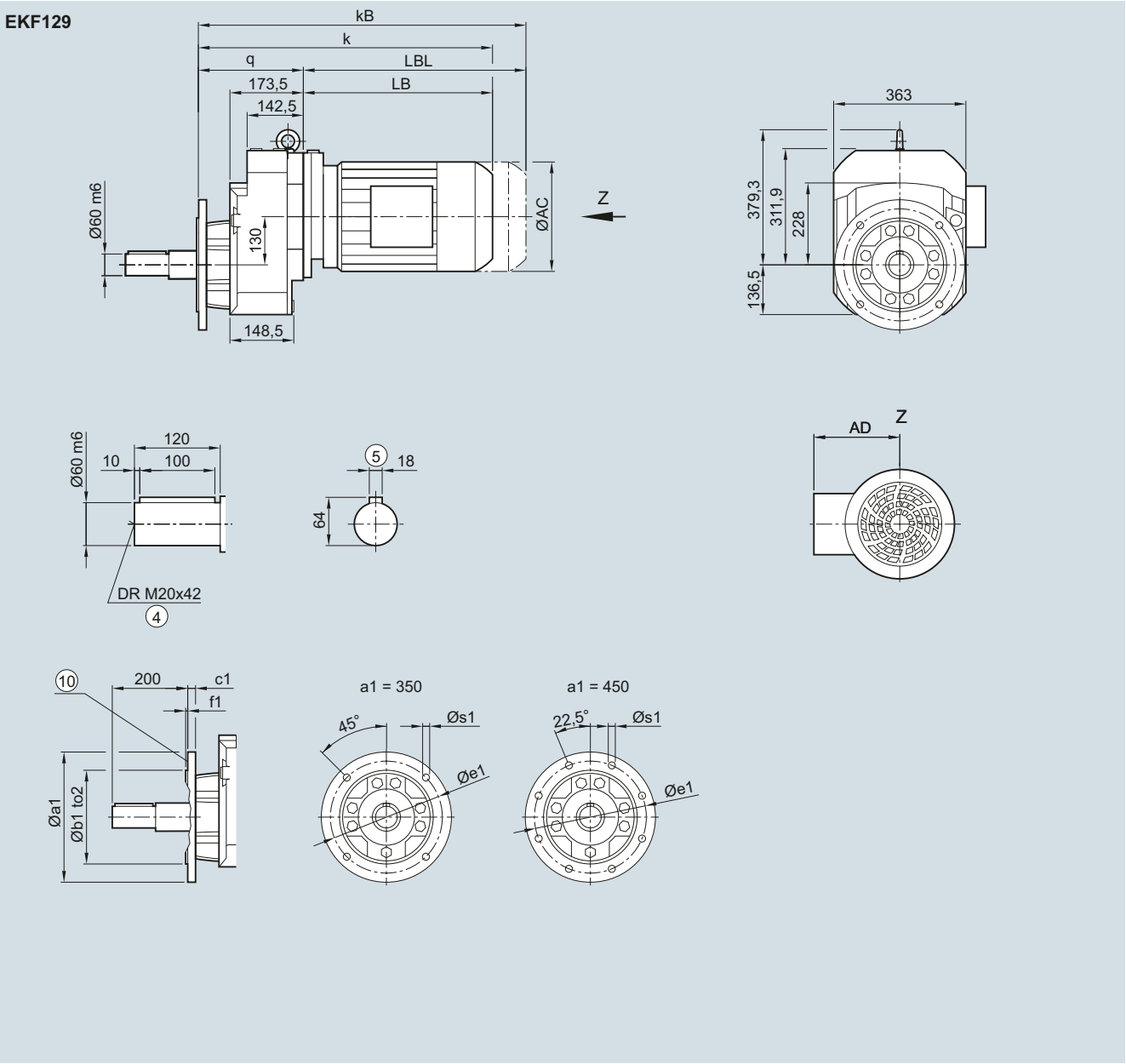
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

EKF129 gearbox in a flange-mounted design

EKF030



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	18	300	5	17.5
	450	350	h6	22	400	5	17.5

Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	556.0	531.0	625.0	644.5	731.5	686.5	831.5	771.5	851.0	881.0	954.5	1 000.0	1 125.5
kB	626.0	601.0	703.5	717.5	836.0	791.0	947.5	887.5	980.0	1 010.0	1 101.5	1 147.0	1 250.5
LB	304.0	279.0	373.0	392.5	479.5	434.5	579.5	519.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	584.0	539.0	695.5	635.5	728.0	758.0	849.5	895.0	998.5

④ DIN 332

⑩ For inner contour see page 3/311

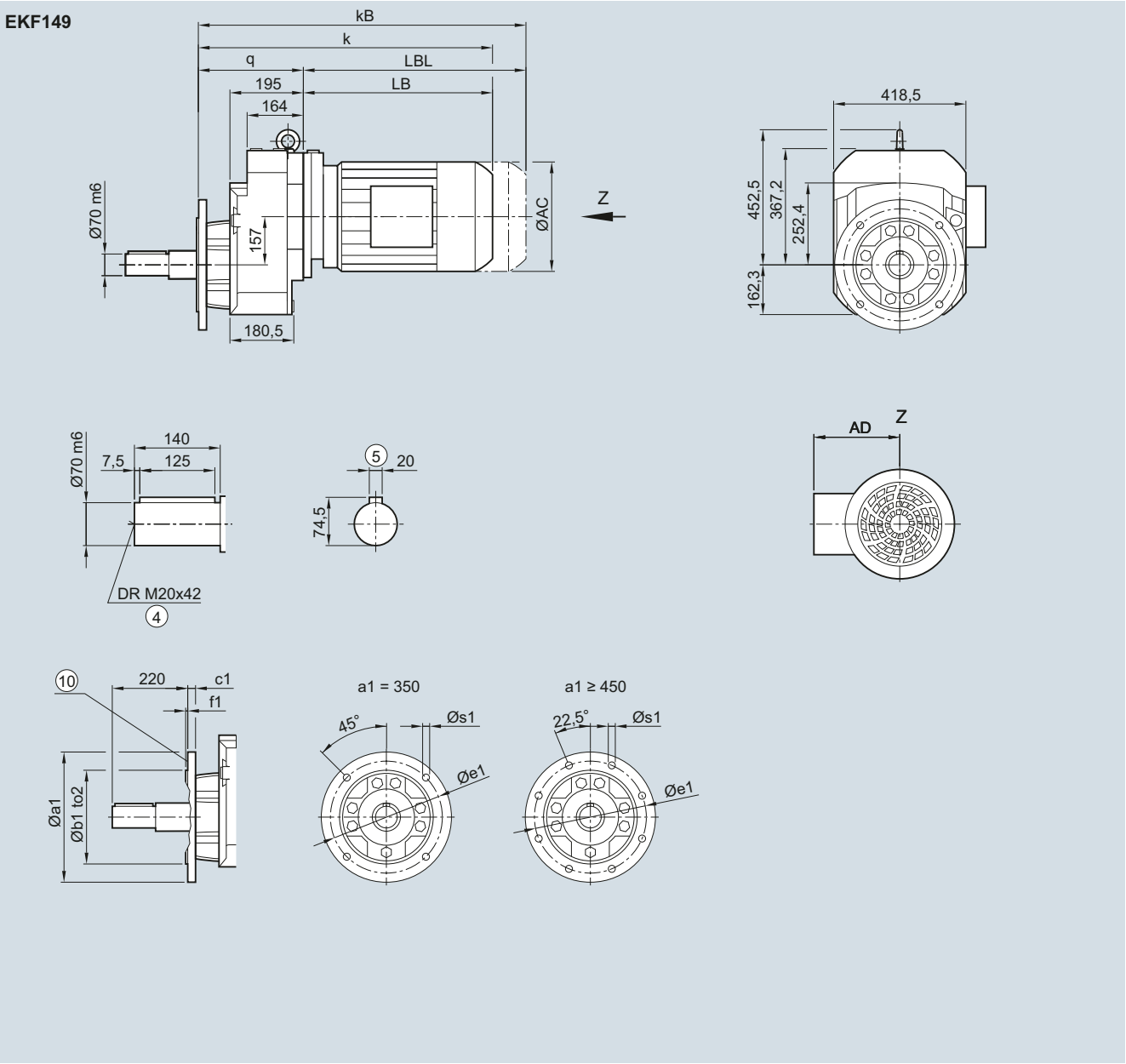
⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

EKF149 gearbox in a flange-mounted design

EKF030



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor[1)]	LEN100L	LEN112M	LEN132M	LEN132S	LEN160L	LEN160M	LEN180M	LEN180L	LEN200L	LHN225	LHN250
q	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	638.5	658.0	740.0	695.0	840.0	780.0	859.5	889.5	963.0	1 008.5	1 134.0
kB	717.0	731.0	844.5	799.5	956.0	896.0	988.5	1 018.5	1 110.0	1 155.5	1 259.0
LB	371.5	391.0	473.0	428.0	573.0	513.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	577.5	532.5	689.0	629.0	721.5	751.5	843.0	888.5	992.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

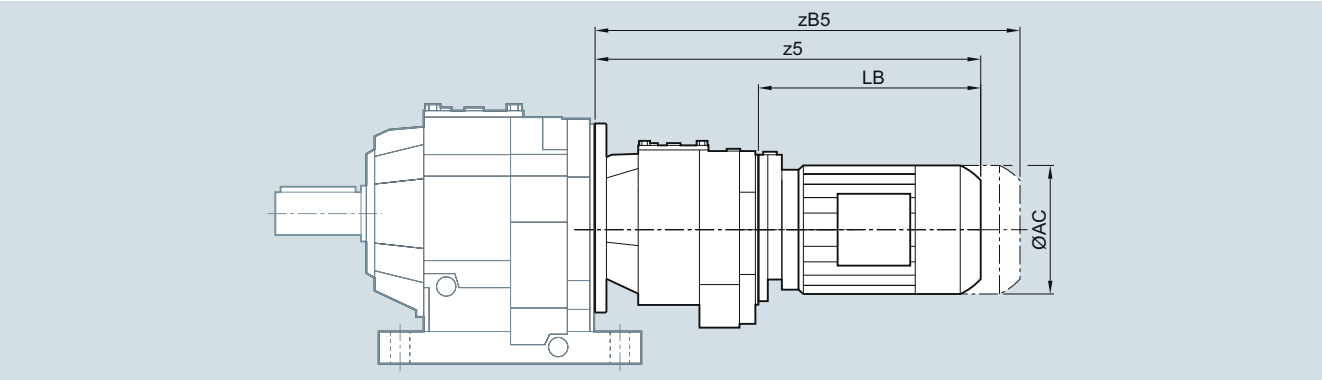
⑩ For inner contour see page 3/311

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

3

Helical tandem geared motors



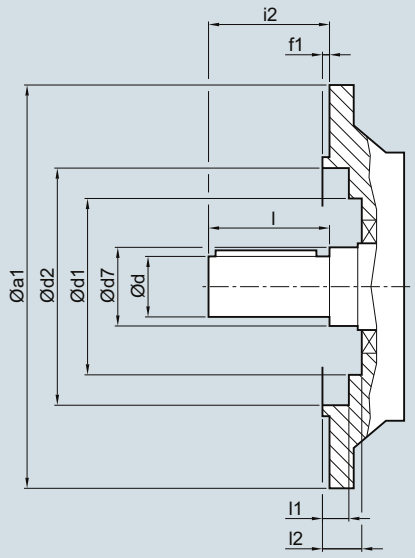
Gearbox	Motor[1)]	AC	z5	zB5	LB
D./Z.29-D/Z19	LHN63	118.0	349.5	394.5	179.0
D./Z.39-D/Z19	LHN63	118.0	349.5	394.5	179.0
	LHN71	139.0	371.0	426.0	192.5
D./Z.49-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
D./Z.59-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
D./Z.69-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
D./Z.79-D/Z39	LHN63	118.0	392.0	437.0	212.5
	LHN71	139.0	413.5	468.5	234.0
	LEN80M	154.5	465.0	525.0	285.5
D./Z.89-D/Z39	LHN63	118.0	375.0	420.0	212.5
	LHN71	139.0	396.5	451.5	234.0
	LEN80M	154.5	448.0	508.0	285.5
	LEN90L	174.0	509.0	579.0	346.5
	LEN90S	174.0	484.0	554.0	321.5
D.109-D/Z39	LHN63	118.0	366.0	411.0	212.5
	LHN71	139.0	387.5	442.5	234.0
	LEN80M	154.5	439.0	499.0	285.5
	LEN90L	174.0	500.0	570.0	346.5
	LEN90S	174.0	475.0	545.0	321.5
	LEN100L	197.0	577.0	655.5	423.5
D.129-D/Z49	LHN63	118.0	395.0	440.0	203.0
	LHN71	139.0	416.5	471.5	224.5
	LEN80M	154.5	468.0	528.0	276.0
	LEN90L	174.0	529.0	599.0	337.0
	LEN90S	174.0	504.0	574.0	312.0
	LEN100L	197.0	606.0	684.5	414.0
	LEN112M	222.0	625.5	698.5	433.5

Gearbox	Motor[1)]	AC	z5	zB5	LB
D.149-D/Z49	LHN63	118.0	384.5	429.5	203.0
	LHN71	139.0	406.0	461.0	224.5
	LEN80M	154.5	457.5	517.5	276.0
	LEN90L	174.0	518.5	588.5	337.0
	LEN90S	174.0	493.5	563.5	312.0
	LEN100L	197.0	595.5	674.0	414.0
	LEN112M	222.0	615.0	688.0	433.5
	LEN132S	262.0	659.0	763.5	477.5
	LEN132M	262.0	704.0	808.5	522.5
D.169-D/Z69	LHN63	118.0	410.0	455.0	203.0
	LHN71	139.0	431.5	486.5	224.5
	LEN80M	154.5	483.0	543.0	276.0
	LEN90L	174.0	544.0	614.0	337.0
	LEN90S	174.0	519.0	589.0	312.0
	LEN100L	197.0	621.0	699.5	414.0
	LEN112M	222.0	640.5	713.5	433.5
	LEN132S	262.0	684.5	789.0	477.5
	LEN132M	262.0	729.5	834.0	522.5
D.189-D/Z69	LHN63	118.0	410.0	455.0	203.0
	LHN71	139.0	431.5	486.5	224.5
	LEN80M	154.5	483.0	543.0	276.0
	LEN90L	174.0	544.0	614.0	337.0
	LEN90S	174.0	519.0	589.0	312.0
	LEN100L	197.0	621.0	699.5	414.0
	LEN112M	222.0	640.5	713.5	433.5
	LEN132S	262.0	684.5	789.0	477.5
	LEN132M	262.0	729.5	834.0	522.5

[1)] Dimensions for LHN(S3-75%), LEN(IE2)

Inner contour of the flange design

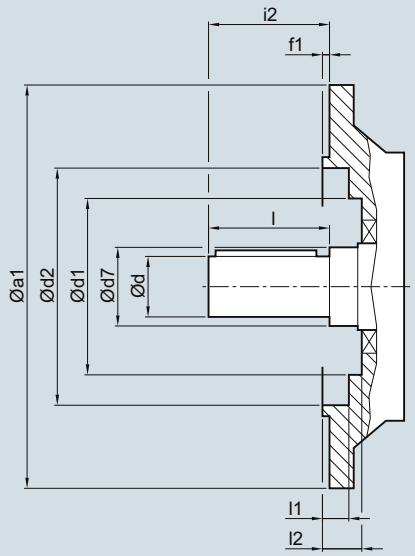
Notes regarding the design of the customer's interface.



Gearbox	a1	d	d7	d1 DF/ZF	d1 DB/ZB	d2	f1	i2	l	l1 DF/ZF	l1 DB/ZB	l2
Helical gearbox DF/ZF or DB/ZB												
DF/ZF19	120	16	25	48.0	-	72.0	3.0	28	28	1.0	-	6
		16						40	40			
		20						40	40			
	140	16	25	48.0	-	87.0	3.0	28	28	1.0	-	6
		16						40	40			
		20						40	40			
	160	16	25	48.0	-	102.0	3.5	28	28	1.0	-	6.5
		16						40	40			
		20						40	40			
DF/ZF29, DB/ZB29	120	25	30	56.0	56.0	72.0	3.0	50	50	2.0	2.0	8
DF/ZF29	140	25	30	56.0	-	87.0	3.5	50	50	2.0	-	7
	160					102.0		50	50			7.5
DF/ZF39, DB/ZB39	120	25	35	69.0	66.0	72.0	3.0	50	50	4.0	4.0	9
		30						60	60			
DF/ZF39	160	25	35	66.5	-	102.0	3.5	50	50	1.5	-	6.5
		30						60	60			
	200	25	35	66.5	-	120.0	3.5	50	50	1.5	-	6.5
		30						60	60			
DF/ZF49, DB/ZB49	140	30	35	79.0	79.0	84.5	3.0	60	60	4.0	4.0	9.5
DF/ZF49	160	30	35	79.0	-	94.5	3.5	60	60	5.5	-	11
	200	30				121.0		60	60	4.5		10
DF/ZF59, DB/ZB59	160	30	40	88.0	88.0	94.5	3.5	60	60	4.5	4.5	11
		35	40					70	70			
		40	45					80	80			
DF/ZF59	200	30	40	88.0	-	115.0	3.5	60	60	4.5	-	9
		35	40					70	70			
		40	45					80	80			
	250	30	40	88.0	-	168.0	4.0	60	60	4.0	-	10.5
		35	40					70	70			
		40	45					80	80			
DF/ZF69, DB/ZB69	200	35	47	105.0	105.0	115.0	3.5	70	70	4.5	4.5	11
DF/ZF69	250	35	47	105.0	-	168.0	4.0	70	70	4.0	-	10.5

Inner contour of the flange design (continued)

Notes regarding the design of the customer's interface.

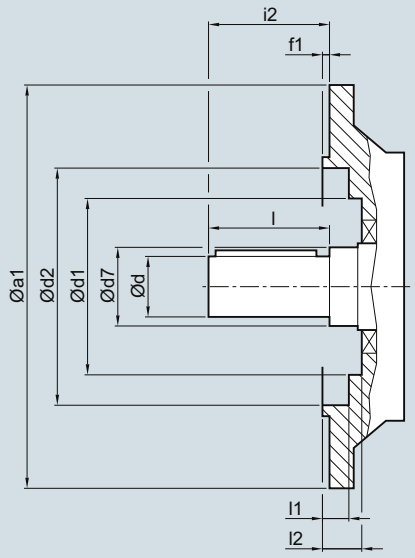


Gearbox	a1	d	d7	d1 DF/ZF	d1 DB/ZB	d2	f1	i2	l	l1 DF/ZF	l1 DB/ZB	l2
Helical gearbox DF/ZF or DB/ZB												
DF/ZF79, DB/ZB79	250	35	52	113.0	114.5	168.0	4.0	70	70	0.5	2.5	7.5
		40						80	80			
		50						100	100			
DF/ZF79	300	35	52	113.0	-	217.0	4.0	70	70	0.5	-	7.5
		40						80	80			
		50						100	100			
	350	35	52	113.0	-	238.0	5.0	70	70	0.5	-	8.5
		40						80	80			
		50						100	100			
DF/ZF89, DB/ZB89	300	50	62	143.0	143.0	218.0	4.0	100	100	1.5	1.5	8
		60						120	120			
DF/ZF89	350	50	62	143.0	-	238.0	5.0	100	100	2.5	-	9
		60						120	120			
	450	50	62	143.0	-	334.0	5.0	100	100	0.5	-	9
		60						120	120			
DF/ZF109	350	60	65	157.0	-	236.0	5.0	120	120	2.0	-	9
	450			168.0		335.0		120	120	0		
DF/ZF129	350	70	75	180.0	-	236.0	5.0	140	140	7.5	-	9
	450					330.0		140	140			
	550					428.0		140	140	5.0	-	9
DF/ZF149	450	90	100	225.0	-	330.0	5.0	170	170	2.5	-	10
	550					430.0		170	170			
DF/ZF169	450	100	120	235.0		330.0	5.0	210	210	0.5	-	10
		110						210	210			
	550	100	120	235.0		430.0	5.0	210	210	0.5	-	10
		110						210	210			
	660	100	120	235.0		530.0	6.0	210	210	0	-	11
		110						210	210			
DF/ZF189	550	120	140	274.0	-	430.0	5.0	210	210	0	-	10
	660					530.0	6.0	210	210	1.0	-	11

3

Inner contour of the flange design (continued)

Notes regarding the design of the customer's interface.

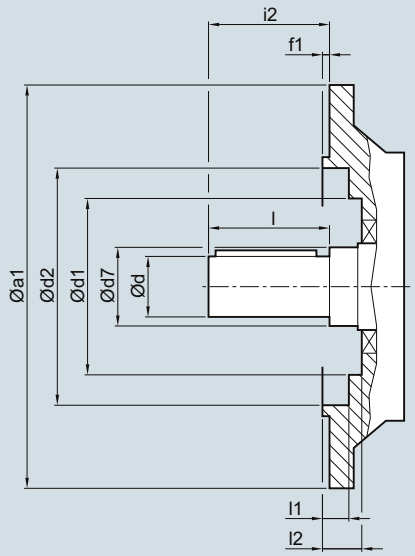


Gearbox	a1	d	d7	d1	d2	f1	i2	l	l1	l2
Helical gearbox DF/ZF with VLplus reinforced bearing system (G30)										
DF/ZF89	300	60	70	143	218.0	4.0	120	120	1.5	8.0
	350				238.0	5.0			2.5	9.0
	450				334.0				0.5	
DF/ZF109	350	70	75	157	236.0	5.0	140	140	2.0	9.0
	450			168	335.0				0	
DF/ZF129	350	90	95	180	236.0	5.0	170	170	7.5	10.0
	450				330.0				7.5	
	550				428.0				5.0	
DF/ZF149	550	100	120	225	430.0	5.0	210	210	5.5	11.0
DF/ZF169	450	120	140	235	330.0	5.0	210	210	0.5	10.0
	550				430.0					
	660				530.0	6.0			0	11.0
Helical gearbox EF										
EF39	120	20	35	-	72.0	3.0	40	40	6.0	-
	140				80.0					
	160			87	100.0	3.5	40	40	5.5	6.5
	200				121.0					
EF49	160	25	40	88	94.5	3.5	50	50	4.5	11.0
	200				115.0					9.0
	250				168.0	4.0	50	50	4.0	10.5
EF69	200	30	40	105	115.0	3.5	60	60	4.5	11.0
	250				168.0	4.0			4.0	10.5
EKF89	250	40	45	113	168.0	4.0	80	80	0.5	7.5
	300				217.0					
	350				238.0	5.0				8.5
EF109	300	50	55	143	218.0	4.0	100	100	1.5	8.0
	350				238.0	5.0			2.5	9.0
	450				334.0				0.5	
EF129	350	60	65	157	236.0	5.0	120	120	2.0	9.0
	450			168	335.0				0	
EF149	350	70	75	180	236.0	5.0	140	140	7.5	9.0
	450			180	330.0					
	550			180	428.0				5.0	

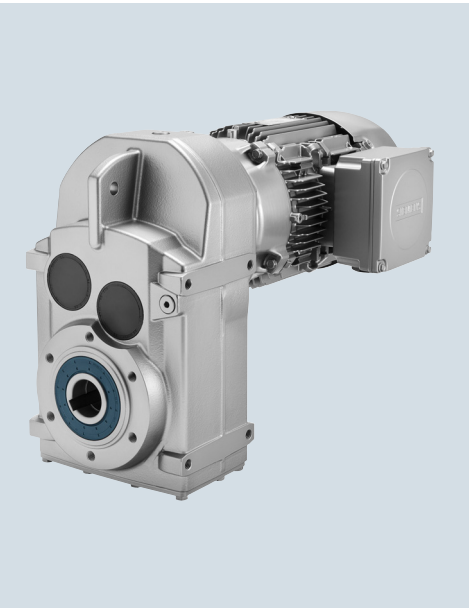
3

Inner contour of the flange design (continued)

Notes regarding the design of the customer's interface.



Gearbox	a1	d	d7	d1	d2	f1	i2	l	l1	l2
Cooling tower gearboxes ZKF										
ZKF89	300	50	62	143	218.0	4.0	180	100	1.5	8.0
	350				238.0	5.0			2.5	9.0
	450				334.0				0.5	
ZKF109	350	60	65	157	236.0	5.0	200	120	2.0	9.0
	450			168	335.0				0	
ZKF129	350	70	75	180	236.0	5.0	220	140	7.5	9.0
	450				330.0					
	550				428.0				5.0	
ZKF149	450	90	100	225	330.0	5.0	250	170	2.5	10.0
	550				430.0					
ZKF169	450	110	120	235	330.0	5.0	330	210	0.5	10.0
	550				430.0					
	660				530.0	6.0			0	11.0
ZKF189	550	120	140	274	430.0	5.0	330	210	0	10.0
	660				530.0	6.0			1.0	11.0
Cooling tower gearboxes EKF										
EKF89	250	40	45	113	168.0	4.0	160	80	0.5	7.5
	300				217.0					
	350				238.0	5.0				8.5
EKF109	300	50	55	143	218.0	4.0	180	100	1.5	8.0
	350				238.0	5.0			2.5	9.0
	450				334.0				0.5	
EKF129	350	60	65	157	236.0	5.0	200	120	2.0	9.0
	450			168	335.0				0	
EKF149	350	70	75	180	236.0	5.0	220	140	7.5	9.0
	450				330.0					
	550				428.0				5.0	



4/2 **Orientation**

4/3 **Geared motors up to 55 kW**
4/3 Selection and ordering data

4/127 **Transmission ratios and torques**
4/127 Selection and ordering data

4/138 **Transmission ratios and torques for very low speeds**
4/138 Selection and ordering data

4/149 **Dimensions**
4/149 Dimensional drawing overview
4/151 Parallel shaft geared motors FD./FZ.29
4/155 Parallel shaft geared motors FD./FZ.39
4/159 Parallel shaft geared motors FD./FZ.49
4/163 Parallel shaft geared motors FD./FZ.69
4/167 Parallel shaft geared motors FD./FZ.79
4/171 Parallel shaft geared motors FD./FZ.89
4/176 Parallel shaft geared motors FD./FZ.109
4/181 Parallel shaft geared motors FD./FZ.129
4/186 Parallel shaft geared motors FD./FZ.149
4/191 Parallel shaft geared motors FD./FZ.169
4/196 Parallel shaft geared motors FD./FZ.189
4/200 Parallel shaft tandem geared motors

Protection covers
4/201 Protection cover for hollow shaft
4/201 Protection cover for hollow shaft with shrink disk
4/202 Inner contour of the flange design

Orientation

SIMOGEAR parallel shaft geared motor F

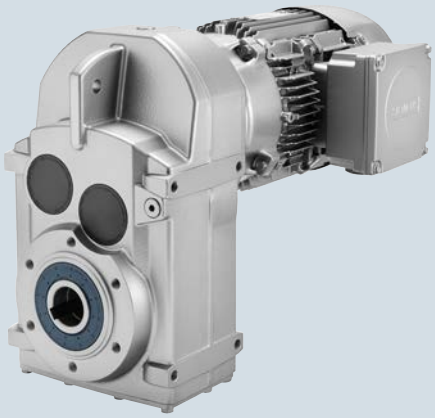


Fig. 4/1 Parallel shaft geared motor F

Gearbox designation	Number of sizes	Maximum output torque	Transmission ratio	Maximum motor power
		T_{2N}	i	P_1
		Nm	-	kW
FZ29 … FZ189 (2-stage)	11	150 … 19 000	3.5 … 70	55
FD29 … FD189 (3-stage)	11	150 … 19 000	32 … 413	55
FZ.29-Z19 ... FD.189-D69 (4-stage to 6-stage)	11	150 … 19 000	274 … 29 900	7.5

SIMOGEAR parallel shaft geared motors are available in the following versions:

Transmission stages

- 2-stage or 3-stage parallel shaft geared motors
- 4-stage to 6-stage parallel shaft geared motors for very low output speeds

Versions

- Shaft-mounted design
- Flange-mounted design with or without VLplus reinforced bearing systems
- Design with integrated housing flange
- Foot-mounted design

Mounting

- Hollow shaft design with feather key
- Hollow shaft design with splined shaft
- Hollow shaft design with shrink disk
- Solid shaft design with and without feather key

Selection and ordering data

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**FD.29-LHN63MB4**							
	4.7	184	298.58	5 200	0.82	11	**2KJ4401 - ■ BC21 - ■ ■ Q1**	
	5.3	163	264.39	5 200	0.92	11	**2KJ4401 - ■ BC21 - ■ ■ P1**	
	6.1	142	229.72	5 200	1.1	11	**2KJ4401 - ■ BC21 - ■ ■ N1**	
	6.7	129	208.83	5 200	1.2	11	**2KJ4401 - ■ BC21 - ■ ■ M1**	
	7.8	109	177.71	5 200	1.4	11	**2KJ4401 - ■ BC21 - ■ ■ L1**	
	8.6	100	161.55	5 200	1.5	11	**2KJ4401 - ■ BC21 - ■ ■ K1**	
	9.9	87	140.86	5 200	1.7	11	**2KJ4401 - ■ BC21 - ■ ■ J1**	
	11	78	126.09	5 200	1.9	11	**2KJ4401 - ■ BC21 - ■ ■ H1**	
	12	69	111.97	5 200	2.2	11	**2KJ4401 - ■ BC21 - ■ ■ G1**	
	13	64	103.36	5 200	2.4	11	**2KJ4401 - ■ BC21 - ■ ■ F1**	
	16	55	89.78	5 200	2.7	11	**2KJ4401 - ■ BC21 - ■ ■ E1**	
	18	48	78.02	5 200	3.1	11	**2KJ4401 - ■ BC21 - ■ ■ D1**	
	20	43	70.43	5 200	3.5	11	**2KJ4401 - ■ BC21 - ■ ■ C1**	
	21	41	66.29	5 200	3.7	11	**2KJ4401 - ■ BC21 - ■ ■ B1**	
	24	36	57.79	5 200	4.2	11	**2KJ4401 - ■ BC21 - ■ ■ A1**	
	FZ.29-LHN63MB4							
	25	35	56.73	5 200	4.3	10	**2KJ4301 - ■ BC21 - ■ ■ C2**	
	28	31	50.32	5 200	4.8	10	**2KJ4301 - ■ BC21 - ■ ■ B2**	
	32	27	43.66	5 200	5.6	10	**2KJ4301 - ■ BC21 - ■ ■ A2**	
	35	24	39.69	5 200	6.1	10	**2KJ4301 - ■ BC21 - ■ ■ X1**	
	41	21	34.04	5 200	7.2	10	**2KJ4301 - ■ BC21 - ■ ■ W1**	
	45	19	30.95	5 200	7.9	10	**2KJ4301 - ■ BC21 - ■ ■ V1**	
	51	17	27.13	5 200	9.0	10	**2KJ4301 - ■ BC21 - ■ ■ U1**	
	58	15	24.22	5 000	10	10	**2KJ4301 - ■ BC21 - ■ ■ T1**	
	65	13	21.58	4 800	11	10	**2KJ4301 - ■ BC21 - ■ ■ S1**	
	70	12	19.92	4 700	12	10	**2KJ4301 - ■ BC21 - ■ ■ R1**	
	80	11	17.44	4 500	14	10	**2KJ4301 - ■ BC21 - ■ ■ Q1**	
	91	9.4	15.29	4 300	16	10	**2KJ4301 - ■ BC21 - ■ ■ P1**	
	101	8.6	13.88	4 200	18	10	**2KJ4301 - ■ BC21 - ■ ■ N1**	
	107	8	13.06	4 100	19	10	**2KJ4301 - ■ BC21 - ■ ■ M1**	
	121	7.1	11.51	3 900	20	10	**2KJ4301 - ■ BC21 - ■ ■ L1**	
	140	6.2	9.99	3 800	22	10	**2KJ4301 - ■ BC21 - ■ ■ K1**	
	144	6	9.69	3 700	24	10	**2KJ4301 - ■ BC21 - ■ ■ J1**	
	162	5.3	8.63	3 600	24	10	**2KJ4301 - ■ BC21 - ■ ■ H1**	
	175	4.9	7.97	3 500	24	10	**2KJ4301 - ■ BC21 - ■ ■ G1**	
	FD.39-LHN63MB4							
	5.1	169	274.26	6 200	1.7	17	**2KJ4402 - ■ BC21 - ■ ■ R1**	
	5.7	150	243.26	6 300	1.9	17	**2KJ4402 - ■ BC21 - ■ ■ Q1**	
	FZ.29-Z19-LHN63MB4							
	3.4	177	415	5 200	0.85	13	**2KJ4320 - ■ BC21 - ■ ■ D1**	
	3.6	167	391	5 200	0.9	13	**2KJ4320 - ■ BC21 - ■ ■ C1**	
	4.1	146	340.63	5 200	1.0	13	**2KJ4320 - ■ BC21 - ■ ■ B1**	
	4.4	134	314.27	5 200	1.1	13	**2KJ4320 - ■ BC21 - ■ ■ A1**	
	FZ.29-Z19-LHN63MB4							
	2.3	260	610	5 900	0.88	19	**2KJ4322 - ■ BC21 - ■ ■ H1**	
	2.6	225	530	6 000	1.0	19	**2KJ4322 - ■ BC21 - ■ ■ G1**	
	2.9	200	478	6 100	1.1	19	**2KJ4322 - ■ BC21 - ■ ■ F1**	
	3.1	192	450	6 100	1.2	19	**2KJ4322 - ■ BC21 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.09	**FZ.29-Z19-LHN63MB4**							
	3.5	168	393	6 200	1.4	19	**2KJ4322 - ■ BC21 - ■ ■ D1**	
	3.9	155	362	6 300	1.5	19	**2KJ4322 - ■ BC21 - ■ ■ C1**	
	4.4	134	314.58	6 400	1.7	19	**2KJ4322 - ■ BC21 - ■ ■ B1**	
	5.1	117	273.36	6 400	2.0	19	**2KJ4322 - ■ BC21 - ■ ■ A1**	
	FD.49-Z19-LHN63MB4							
	1.9	315	752	8 500	1.5	28	**2KJ4424 - ■ BC21 - ■ ■ J1**	
	2.1	285	679	8 600	1.7	28	**2KJ4424 - ■ BC21 - ■ ■ H1**	
	2.2	270	639	8 600	1.8	28	**2KJ4424 - ■ BC21 - ■ ■ G1**	
	2.5	235	557	8 700	2.0	28	**2KJ4424 - ■ BC21 - ■ ■ F1**	
	FZ.49-Z19-LHN63MB4							
	1.1	545	1 279	7 500	0.88	28	**2KJ4324 - ■ BC21 - ■ ■ E1**	
	1.2	495	1 163	7 800	0.97	28	**2KJ4324 - ■ BC21 - ■ ■ D1**	
	1.4	430	1 014	8 100	1.1	28	**2KJ4324 - ■ BC21 - ■ ■ C1**	
	1.5	385	907	8 300	1.2	28	**2KJ4324 - ■ BC21 - ■ ■ B1**	
	1.7	345	806	8 400	1.4	28	**2KJ4324 - ■ BC21 - ■ ■ A1**	
	FD.69-Z19-LHN63MB4							
	1.2	505	1 200	11 000	1.2	33	**2KJ4426 - ■ BC21 - ■ ■ M1**	
	1.3	440	1 046	11 200	1.4	33	**2KJ4426 - ■ BC21 - ■ ■ L1**	
	1.4	405	965	11 300	1.5	33	**2KJ4426 - ■ BC21 - ■ ■ K1**	
	1.7	355	838	11 400	1.7	33	**2KJ4426 - ■ BC21 - ■ ■ J1**	
	1.9	305	729	11 500	1.9	33	**2KJ4426 - ■ BC21 - ■ ■ H1**	
	FZ.69-Z19-LHN63MB4							
	0.8	740	1 740	10 500	0.81	33	**2KJ4326 - ■ BC21 - ■ ■ D1**	
	0.88	675	1 582	10 600	0.89	33	**2KJ4326 - ■ BC21 - ■ ■ C1**	
	1.0	575	1 346	10 900	1.0	33	**2KJ4326 - ■ BC21 - ■ ■ B1**	
	1.1	520	1 224	11 000	1.1	33	**2KJ4326 - ■ BC21 - ■ ■ A1**	
	FZ.79-D39-LHN63MB4							
	0.5	1 170	2 764	13 200	0.85	43	**2KJ4330 - ■ BC21 - ■ ■ A1**	
	FZ.79-Z39-LHN63MB4							
	0.52	1 140	2 687	13 300	0.87	43	**2KJ4328 - ■ BC21 - ■ ■ S2**	
	0.58	1 020	2 389	13 500	0.98	43	**2KJ4328 - ■ BC21 - ■ ■ R1**	
	0.66	895	2 098	13 800	1.1	43	**2KJ4328 - ■ BC21 - ■ ■ Q1**	
	0.73	815	1 907	13 900	1.2	43	**2KJ4328 - ■ BC21 - ■ ■ P1**	
	0.85	695	1 632	14 200	1.4	43	**2KJ4328 - ■ BC21 - ■ ■ N1**	
	0.94	630	1 483	14 300	1.6	43	**2KJ4328 - ■ BC21 - ■ ■ M1**	
	1.1	560	1 311	14 400	1.8	43	**2KJ4328 - ■ BC21 - ■ ■ L1**	
	1.2	510	1 192	14 500	2.0	43	**2KJ4328 - ■ BC21 - ■ ■ K1**	
	FZ.89-D39-LHN63MB4							
	0.27	2 150	5 100	17 400	0.86	75	**2KJ4332 - ■ BC21 - ■ ■ D1**	
	0.31	1 880	4 465	17 400	0.98	75	**2KJ4332 - ■ BC21 - ■ ■ C1**	
	0.36	1 650	3 915	17 400	1.1	75	**2KJ4332 - ■ BC21 - ■ ■ B1**	
	0.39	1 500	3 552	17 400	1.2	75	**2KJ4332 - ■ BC21 - ■ ■ A1**	
	FZ.89-Z39-LHN63MB4							
	0.4	1 470	3 453	17 400	1.3	75	**2KJ4331 - ■ BC21 - ■ ■ P1**	
	0.45	1 310	3 070	17 400	1.4	75	**2KJ4331 - ■ BC21 - ■ ■ N1**	
	0.52	1 150	2 696	17 400	1.6	75	**2KJ4331 - ■ BC21 - ■ ■ M1**	
	0.57	1 040	2 451	17 400	1.8	75	**2KJ4331 - ■ BC21 - ■ ■ L1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**FD.109-D39-LHN63MB4**							
	0.15	3 790	9 069	25 000	0.82	117	**2KJ4434 - ■ BC21 - ■ ■ C1**	
	0.18	3 330	7 952	25 000	0.93	117	**2KJ4434 - ■ BC21 - ■ ■ B1**	
	0.19	3 020	7 214	25 000	1.0	117	**2KJ4434 - ■ BC21 - ■ ■ A1**	
	FD.109-Z39-LHN63MB4							
	0.2	2 960	7 014	25 000	1.0	108	**2KJ4433 - ■ BC21 - ■ ■ A2**	
	0.22	2 630	6 237	25 000	1.2	108	**2KJ4433 - ■ BC21 - ■ ■ X1**	
	0.25	2 310	5 476	25 000	1.3	108	**2KJ4433 - ■ BC21 - ■ ■ W1**	
	0.28	2 100	4 978	25 000	1.5	108	**2KJ4433 - ■ BC21 - ■ ■ V1**	
	0.33	1 800	4 259	25 000	1.7	108	**2KJ4433 - ■ BC21 - ■ ■ U1**	
	0.36	1 630	3 872	25 000	1.9	108	**2KJ4433 - ■ BC21 - ■ ■ T1**	
	FD.129-D49-LHN63MB4							
	0.1	5 790	13 824	36 200	0.84	182	**2KJ4436 - ■ BC21 - ■ ■ G1**	
	0.11	5 340	12 761	36 700	0.91	182	**2KJ4436 - ■ BC21 - ■ ■ F1**	
	0.12	4 730	11 298	37 300	1.0	182	**2KJ4436 - ■ BC21 - ■ ■ E1**	
	0.15	3 940	9 404	37 500	1.2	182	**2KJ4436 - ■ BC21 - ■ ■ D1**	
	0.16	3 700	8 851	37 500	1.3	182	**2KJ4436 - ■ BC21 - ■ ■ C1**	
	0.18	3 320	7 930	37 500	1.5	182	**2KJ4436 - ■ BC21 - ■ ■ B1**	
	0.21	2 820	6 751	37 500	1.7	182	**2KJ4436 - ■ BC21 - ■ ■ A1**	
	FD.129-Z49-LHN63MB4							
	0.21	2 790	6 604	37 500	1.7	183	**2KJ4435 - ■ BC21 - ■ ■ B2**	
	0.23	2 540	6 004	37 500	1.9	183	**2KJ4435 - ■ BC21 - ■ ■ A2**	
	FD.149-D49-LHN63MB4							
	0.06	9 050	21 617	65 000	0.88	270	**2KJ4438 - ■ BC21 - ■ ■ L1**	
	0.07	8 230	19 652	65 000	0.97	270	**2KJ4438 - ■ BC21 - ■ ■ K1**	
	0.08	7 270	17 371	65 000	1.1	270	**2KJ4438 - ■ BC21 - ■ ■ J1**	
	0.09	6 610	15 791	65 000	1.2	270	**2KJ4438 - ■ BC21 - ■ ■ H1**	
	0.1	5 790	13 832	65 000	1.4	270	**2KJ4438 - ■ BC21 - ■ ■ G1**	
	0.11	5 340	12 768	65 000	1.5	270	**2KJ4438 - ■ BC21 - ■ ■ F1**	
	0.12	4 730	11 305	65 000	1.7	270	**2KJ4438 - ■ BC21 - ■ ■ E1**	
	0.15	3 940	9 409	65 000	2.0	270	**2KJ4438 - ■ BC21 - ■ ■ D1**	
	FD.169-D69-LHN63MB4							
	0.05	10 900	26 206	73 500	1.2	428	**2KJ4441 - ■ BC21 - ■ ■ N1**	
	0.05	12 500	29 846	73 500	1.1	428	**2KJ4441 - ■ BC21 - ■ ■ P1**	
	0.06	9 980	23 824	73 500	1.4	428	**2KJ4441 - ■ BC21 - ■ ■ M1**	
	0.07	8 530	20 382	73 500	1.6	428	**2KJ4441 - ■ BC21 - ■ ■ L1**	
	0.08	7 760	18 530	73 500	1.8	428	**2KJ4441 - ■ BC21 - ■ ■ K1**	
	0.09	6 860	16 379	73 500	2.0	428	**2KJ4441 - ■ BC21 - ■ ■ J1**	
	FD.189-D69-LHN63MB4							
	0.05	11 400	27 341	110 900	1.7	640	**2KJ4443 - ■ BC21 - ■ ■ M1**	
	0.06	9 800	23 392	110 900	1.9	640	**2KJ4443 - ■ BC21 - ■ ■ L1**	
0.12	**FD.29-LHN63MC4**							
	6.4	179	208.83	5 200	0.84	10	**2KJ4401 - ■ BD21 - ■ ■ M1**	
	7.5	153	177.71	5 200	0.98	10	**2KJ4401 - ■ BD21 - ■ ■ L1**	
	8.3	139	161.55	5 200	1.1	10	**2KJ4401 - ■ BD21 - ■ ■ K1**	
	9.5	121	140.86	5 200	1.2	10	**2KJ4401 - ■ BD21 - ■ ■ J1**	
	11	108	126.09	5 200	1.4	10	**2KJ4401 - ■ BD21 - ■ ■ H1**	
	12	96	111.97	5 200	1.6	10	**2KJ4401 - ■ BD21 - ■ ■ G1**	
	13	89	103.36	5 200	1.7	10	**2KJ4401 - ■ BD21 - ■ ■ F1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**FD.29-LHN63MC4**							
	15	77	89.78	5 200	1.9	10	**2KJ4401 - ■ BD21 - ■ ■ E1**	
	17	67	78.02	5 200	2.2	10	**2KJ4401 - ■ BD21 - ■ ■ D1**	
	19	60	70.43	5 200	2.5	10	**2KJ4401 - ■ BD21 - ■ ■ C1**	
	20	57	66.29	5 200	2.6	10	**2KJ4401 - ■ BD21 - ■ ■ B1**	
	23	50	57.79	5 200	3.0	10	**2KJ4401 - ■ BD21 - ■ ■ A1**	
	FZ.29-LHN63MC4							
	24	49	56.73	5 200	3.1	10	**2KJ4301 - ■ BD21 - ■ ■ C2**	
	27	43	50.32	5 200	3.5	10	**2KJ4301 - ■ BD21 - ■ ■ B2**	
	31	38	43.66	5 200	4.0	10	**2KJ4301 - ■ BD21 - ■ ■ A2**	
	34	34	39.69	5 200	4.4	10	**2KJ4301 - ■ BD21 - ■ ■ X1**	
	39	29	34.04	5 200	5.1	10	**2KJ4301 - ■ BD21 - ■ ■ W1**	
	43	27	30.95	5 200	5.6	10	**2KJ4301 - ■ BD21 - ■ ■ V1**	
	49	23	27.13	5 200	6.4	10	**2KJ4301 - ■ BD21 - ■ ■ U1**	
	55	21	24.22	5 000	7.2	10	**2KJ4301 - ■ BD21 - ■ ■ T1**	
	62	18	21.58	4 900	8.1	10	**2KJ4301 - ■ BD21 - ■ ■ S1**	
	67	17	19.92	4 700	8.8	10	**2KJ4301 - ■ BD21 - ■ ■ R1**	
	77	15	17.44	4 500	10	10	**2KJ4301 - ■ BD21 - ■ ■ Q1**	
	87	13	15.29	4 400	11	10	**2KJ4301 - ■ BD21 - ■ ■ P1**	
	96	12	13.88	4 200	13	10	**2KJ4301 - ■ BD21 - ■ ■ N1**	
	102	11	13.06	4 100	13	10	**2KJ4301 - ■ BD21 - ■ ■ M1**	
	116	9.9	11.51	4 000	14	10	**2KJ4301 - ■ BD21 - ■ ■ L1**	
	134	8.6	9.99	3 800	16	10	**2KJ4301 - ■ BD21 - ■ ■ K1**	
	138	8.3	9.69	3 700	17	10	**2KJ4301 - ■ BD21 - ■ ■ J1**	
	155	7.4	8.63	3 600	18	10	**2KJ4301 - ■ BD21 - ■ ■ H1**	
	168	6.8	7.97	3 500	18	10	**2KJ4301 - ■ BD21 - ■ ■ G1**	
	191	6	6.98	3 400	20	10	**2KJ4301 - ■ BD21 - ■ ■ F1**	
	218	5.3	6.12	3 200	22	10	**2KJ4301 - ■ BD21 - ■ ■ E1**	
	241	4.8	5.55	3 100	23	10	**2KJ4301 - ■ BD21 - ■ ■ D1**	
	256	4.5	5.22	3 100	24	10	**2KJ4301 - ■ BD21 - ■ ■ C1**	
	290	3.9	4.60	2 900	25	10	**2KJ4301 - ■ BD21 - ■ ■ B1**	
	FD.39-LHN63MC4							
	4.9	235	274.26	6 000	1.2	17	**2KJ4402 - ■ BD21 - ■ ■ R1**	
	5.5	205	243.26	6 100	1.4	17	**2KJ4402 - ■ BD21 - ■ ■ Q1**	
	6.3	181	211.06	6 200	1.6	17	**2KJ4402 - ■ BD21 - ■ ■ P1**	
	7.0	165	191.87	6 200	1.8	17	**2KJ4402 - ■ BD21 - ■ ■ N1**	
	8.1	141	164.56	6 300	2.1	17	**2KJ4402 - ■ BD21 - ■ ■ M1**	
	FD.49-LHN63MC4							
	4.0	280	330.98	8 600	1.7	26	**2KJ4403 - ■ BD21 - ■ ■ S1**	
	4.5	250	294.29	8 700	1.9	26	**2KJ4403 - ■ BD21 - ■ ■ R1**	
	FD.69-LHN63MC4							
	3.8	295	348.4	11 500	2.0	31	**2KJ4404 - ■ BD21 - ■ ■ S1**	
	FZ.39-Z19-LHN63MC4							
	3.4	255	393	5 900	0.9	19	**2KJ4322 - ■ BD21 - ■ ■ D1**	
	3.7	235	362	6 000	0.97	19	**2KJ4322 - ■ BD21 - ■ ■ C1**	
	4.2	205	314.58	6 100	1.1	19	**2KJ4322 - ■ BD21 - ■ ■ B1**	
	4.9	178	273.36	6 200	1.3	19	**2KJ4322 - ■ BD21 - ■ ■ A1**	
	FD.49-Z19-LHN63MC4							
	1.8	485	752	7 900	0.99	28	**2KJ4424 - ■ BD21 - ■ ■ J1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**FD.49-Z19-LHN63MC4**							
	2.0	435	679	8 100	1.1	28	**2KJ4424 - ■ BD21 - ■ ■ H1**	
	2.1	410	639	8 200	1.2	28	**2KJ4424 - ■ BD21 - ■ ■ G1**	
	2.4	360	557	8 300	1.3	28	**2KJ4424 - ■ BD21 - ■ ■ F1**	
	2.6	330	514	8 400	1.4	28	**2KJ4424 - ■ BD21 - ■ ■ E1**	
	3.0	285	447	8 600	1.7	28	**2KJ4424 - ■ BD21 - ■ ■ D1**	
	3.4	250	388	8 700	1.9	28	**2KJ4424 - ■ BD21 - ■ ■ C1**	
	FZ.49-Z19-LHN63MC4							
	1.5	590	907	7 200	0.81	28	**2KJ4324 - ■ BD21 - ■ ■ B1**	
	1.7	525	806	7 600	0.91	28	**2KJ4324 - ■ BD21 - ■ ■ A1**	
	FD.69-Z19-LHN63MC4							
	1.3	675	1 046	10 600	0.89	33	**2KJ4426 - ■ BD21 - ■ ■ L1**	
	1.4	620	965	10 800	0.96	33	**2KJ4426 - ■ BD21 - ■ ■ K1**	
	1.6	540	838	11 000	1.1	33	**2KJ4426 - ■ BD21 - ■ ■ J1**	
	1.8	470	729	11 100	1.3	33	**2KJ4426 - ■ BD21 - ■ ■ H1**	
	2.0	425	658	11 200	1.4	33	**2KJ4426 - ■ BD21 - ■ ■ G1**	
	2.2	400	619	11 300	1.5	33	**2KJ4426 - ■ BD21 - ■ ■ F1**	
	2.3	375	587	11 300	1.6	33	**2KJ4426 - ■ BD21 - ■ ■ E1**	
	2.5	350	541	11 400	1.7	33	**2KJ4426 - ■ BD21 - ■ ■ D1**	
	2.8	300	470	11 500	2.0	33	**2KJ4426 - ■ BD21 - ■ ■ C1**	
	FZ.79-Z39-LHN63MC4							
	0.7	1 240	1 907	13 100	0.8	43	**2KJ4328 - ■ BD21 - ■ ■ P1**	
	0.82	1 060	1 632	13 500	0.94	43	**2KJ4328 - ■ BD21 - ■ ■ N1**	
	0.9	965	1 483	13 600	1.0	43	**2KJ4328 - ■ BD21 - ■ ■ M1**	
	1.0	855	1 311	13 900	1.2	43	**2KJ4328 - ■ BD21 - ■ ■ L1**	
	1.1	775	1 192	14 000	1.3	43	**2KJ4328 - ■ BD21 - ■ ■ K1**	
	1.3	680	1 044	14 200	1.5	43	**2KJ4328 - ■ BD21 - ■ ■ J1**	
	1.4	625	964	14 300	1.6	43	**2KJ4328 - ■ BD21 - ■ ■ H1**	
	1.6	555	853	14 500	1.8	43	**2KJ4328 - ■ BD21 - ■ ■ G1**	
	FZ.89-D39-LHN63MC4							
	0.38	2 290	3 552	17 400	0.81	75	**2KJ4332 - ■ BD21 - ■ ■ A1**	
	FZ.89-Z39-LHN63MC4							
	0.39	2 250	3 453	17 400	0.82	75	**2KJ4331 - ■ BD21 - ■ ■ P1**	
	0.43	2 000	3 070	17 400	0.92	75	**2KJ4331 - ■ BD21 - ■ ■ N1**	
	0.5	1 760	2 696	17 400	1.1	75	**2KJ4331 - ■ BD21 - ■ ■ M1**	
	0.54	1 600	2 451	17 400	1.2	75	**2KJ4331 - ■ BD21 - ■ ■ L1**	
	0.64	1 360	2 097	17 400	1.4	75	**2KJ4331 - ■ BD21 - ■ ■ K1**	
	0.7	1 240	1 906	17 400	1.5	75	**2KJ4331 - ■ BD21 - ■ ■ J1**	
	0.79	1 100	1 685	17 400	1.7	75	**2KJ4331 - ■ BD21 - ■ ■ H1**	
	0.87	1 000	1 532	17 400	1.8	75	**2KJ4331 - ■ BD21 - ■ ■ G1**	
	FD.109-Z39-LHN63MC4							
	0.24	3 530	5 476	25 000	0.88	108	**2KJ4433 - ■ BD21 - ■ ■ W1**	
	0.27	3 210	4 978	25 000	0.96	108	**2KJ4433 - ■ BD21 - ■ ■ V1**	
	0.31	2 750	4 259	25 000	1.1	108	**2KJ4433 - ■ BD21 - ■ ■ U1**	
	0.34	2 500	3 872	25 000	1.2	108	**2KJ4433 - ■ BD21 - ■ ■ T1**	
	0.39	2 210	3 423	25 000	1.4	108	**2KJ4433 - ■ BD21 - ■ ■ S1**	
	0.43	2 010	3 111	25 000	1.5	108	**2KJ4433 - ■ BD21 - ■ ■ R1**	
	0.49	1 760	2 725	25 000	1.8	108	**2KJ4433 - ■ BD21 - ■ ■ Q1**	
	0.53	1 620	2 516	25 000	1.9	108	**2KJ4433 - ■ BD21 - ■ ■ P1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**FD.129-D49-LHN63MC4**							
	0.14	6 010	9 404	36 000	0.81	182	**2KJ4436 - ■ BD21 - ■ ■ D1**	
	0.15	5 660	8 851	36 400	0.86	182	**2KJ4436 - ■ BD21 - ■ ■ C1**	
	0.17	5 070	7 930	36 900	0.96	182	**2KJ4436 - ■ BD21 - ■ ■ B1**	
	0.2	4 310	6 751	37 500	1.1	182	**2KJ4436 - ■ BD21 - ■ ■ A1**	
	FD.129-Z49-LHN63MC4							
	0.2	4 260	6 604	37 500	1.1	183	**2KJ4435 - ■ BD21 - ■ ■ B2**	
	0.22	3 880	6 004	37 500	1.2	183	**2KJ4435 - ■ BD21 - ■ ■ A2**	
	0.26	3 300	5 106	37 500	1.5	183	**2KJ4435 - ■ BD21 - ■ ■ X1**	
	0.29	3 000	4 642	37 500	1.6	183	**2KJ4435 - ■ BD21 - ■ ■ W1**	
	0.32	2 670	4 142	37 500	1.8	183	**2KJ4435 - ■ BD21 - ■ ■ V1**	
	0.36	2 400	3 714	37 500	2.0	183	**2KJ4435 - ■ BD21 - ■ ■ U1**	
	FD.149-D49-LHN63MC4							
	0.1	8 160	12 768	65 000	0.98	270	**2KJ4438 - ■ BD21 - ■ ■ F1**	
	0.1	8 850	13 832	65 000	0.9	270	**2KJ4438 - ■ BD21 - ■ ■ G1**	
	0.12	7 230	11 305	65 000	1.1	270	**2KJ4438 - ■ BD21 - ■ ■ E1**	
	0.14	6 020	9 409	65 000	1.3	270	**2KJ4438 - ■ BD21 - ■ ■ D1**	
	0.15	5 660	8 856	65 000	1.4	270	**2KJ4438 - ■ BD21 - ■ ■ C1**	
	0.17	5 070	7 935	65 000	1.6	270	**2KJ4438 - ■ BD21 - ■ ■ B1**	
	0.2	4 320	6 755	65 000	1.9	270	**2KJ4438 - ■ BD21 - ■ ■ A1**	
	FD.149-Z49-LHN63MC4							
	0.2	4 270	6 608	65 000	1.9	270	**2KJ4437 - ■ BD21 - ■ ■ B2**	
	FD.169-D69-LHN63MC4							
	0.05	16 700	26 206	73 500	0.81	428	**2KJ4441 - ■ BD21 - ■ ■ N1**	
	0.06	15 200	23 824	73 500	0.89	428	**2KJ4441 - ■ BD21 - ■ ■ M1**	
	0.07	11 800	18 530	73 500	1.1	428	**2KJ4441 - ■ BD21 - ■ ■ K1**	
	0.07	13 000	20 382	73 500	1.0	428	**2KJ4441 - ■ BD21 - ■ ■ L1**	
	0.08	10 400	16 379	73 500	1.3	428	**2KJ4441 - ■ BD21 - ■ ■ J1**	
	0.09	9 520	14 890	73 500	1.4	428	**2KJ4441 - ■ BD21 - ■ ■ H1**	
	0.1	8 340	13 042	73 500	1.6	428	**2KJ4441 - ■ BD21 - ■ ■ G1**	
	0.11	7 700	12 039	73 500	1.8	428	**2KJ4441 - ■ BD21 - ■ ■ F1**	
	0.13	6 820	10 659	73 500	2.0	428	**2KJ4441 - ■ BD21 - ■ ■ E1**	
	FD.189-D69-LHN63MC4							
	0.05	17 400	27 341	110 900	1.1	640	**2KJ4443 - ■ BD21 - ■ ■ M1**	
	0.06	13 600	21 265	110 900	1.4	640	**2KJ4443 - ■ BD21 - ■ ■ K1**	
	0.06	14 900	23 392	110 900	1.3	640	**2KJ4443 - ■ BD21 - ■ ■ L1**	
	0.07	12 000	18 797	110 900	1.6	640	**2KJ4443 - ■ BD21 - ■ ■ J1**	
	0.08	10 900	17 088	110 900	1.7	640	**2KJ4443 - ■ BD21 - ■ ■ H1**	
	FD.189-D69-LHN63MC4							
	0.09	9 570	14 968	110 900	2.0	640	**2KJ4443 - ■ BD21 - ■ ■ G1**	
0.18	**FD.29-LHN63MD4**							
	9.6	179	140.86	5 200	0.84	10	**2KJ4401 - ■ BE21 - ■ ■ J1**	
	11	161	126.09	5 200	0.93	10	**2KJ4401 - ■ BE21 - ■ ■ H1**	
	12	143	111.97	5 200	1.1	10	**2KJ4401 - ■ BE21 - ■ ■ G1**	
	13	132	103.36	5 200	1.1	10	**2KJ4401 - ■ BE21 - ■ ■ F1**	
	15	114	89.78	5 200	1.3	10	**2KJ4401 - ■ BE21 - ■ ■ E1**	
	17	99	78.02	5 200	1.5	10	**2KJ4401 - ■ BE21 - ■ ■ D1**	
	19	90	70.43	5 200	1.7	10	**2KJ4401 - ■ BE21 - ■ ■ C1**	
	20	84	66.29	5 200	1.8	10	**2KJ4401 - ■ BE21 - ■ ■ B1**	
	23	74	57.79	5 200	2.0	10	**2KJ4401 - ■ BE21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.18	**FZ.29-LHN63MD4**							
	24	72	56.73	5 200	2.1	10	**2KJ4301 - ■ BE21 - ■ ■ C2**	
	27	64	50.32	5 200	2.3	10	**2KJ4301 - ■ BE21 - ■ ■ B2**	
	31	56	43.66	5 200	2.7	10	**2KJ4301 - ■ BE21 - ■ ■ A2**	
	34	50	39.69	5 200	3.0	10	**2KJ4301 - ■ BE21 - ■ ■ X1**	
	40	43	34.04	5 200	3.5	10	**2KJ4301 - ■ BE21 - ■ ■ W1**	
	44	39	30.95	5 200	3.8	10	**2KJ4301 - ■ BE21 - ■ ■ V1**	
	50	34	27.13	5 100	4.3	10	**2KJ4301 - ■ BE21 - ■ ■ U1**	
	56	31	24.22	4 900	4.9	10	**2KJ4301 - ■ BE21 - ■ ■ T1**	
	63	28	21.58	4 800	5.5	10	**2KJ4301 - ■ BE21 - ■ ■ S1**	
	68	25	19.92	4 700	5.9	10	**2KJ4301 - ■ BE21 - ■ ■ R1**	
	77	22	17.44	4 500	6.8	10	**2KJ4301 - ■ BE21 - ■ ■ Q1**	
	88	20	15.29	4 300	7.7	10	**2KJ4301 - ■ BE21 - ■ ■ P1**	
	97	18	13.88	4 200	8.5	10	**2KJ4301 - ■ BE21 - ■ ■ N1**	
	103	17	13.06	4 100	9.0	10	**2KJ4301 - ■ BE21 - ■ ■ M1**	
	117	15	11.51	3 900	9.8	10	**2KJ4301 - ■ BE21 - ■ ■ L1**	
	135	13	9.99	3 700	11	10	**2KJ4301 - ■ BE21 - ■ ■ K1**	
	139	12	9.69	3 700	12	10	**2KJ4301 - ■ BE21 - ■ ■ J1**	
	156	11	8.63	3 600	12	10	**2KJ4301 - ■ BE21 - ■ ■ H1**	
	169	10	7.97	3 500	12	10	**2KJ4301 - ■ BE21 - ■ ■ G1**	
	193	8.9	6.98	3 300	14	10	**2KJ4301 - ■ BE21 - ■ ■ F1**	
	221	7.8	6.12	3 200	15	10	**2KJ4301 - ■ BE21 - ■ ■ E1**	
	243	7.1	5.55	3 100	15	10	**2KJ4301 - ■ BE21 - ■ ■ D1**	
	259	6.6	5.22	3 000	16	10	**2KJ4301 - ■ BE21 - ■ ■ C1**	
	293	5.9	4.60	2 900	17	10	**2KJ4301 - ■ BE21 - ■ ■ B1**	
	338	5.1	4.00	2 800	18	10	**2KJ4301 - ■ BE21 - ■ ■ A1**	
	FD.39-LHN63MD4							
	4.9	345	274.26	5 600	0.83	17	**2KJ4402 - ■ BE21 - ■ ■ R1**	
	5.5	310	243.26	5 700	0.94	17	**2KJ4402 - ■ BE21 - ■ ■ Q1**	
	6.4	265	211.06	5 900	1.1	17	**2KJ4402 - ■ BE21 - ■ ■ P1**	
	7.0	240	191.87	6 000	1.2	17	**2KJ4402 - ■ BE21 - ■ ■ N1**	
	8.2	210	164.56	6 100	1.4	17	**2KJ4402 - ■ BE21 - ■ ■ M1**	
	9.0	190	149.6	6 100	1.5	17	**2KJ4402 - ■ BE21 - ■ ■ L1**	
	10	167	131.17	6 200	1.7	17	**2KJ4402 - ■ BE21 - ■ ■ K1**	
	12	149	117.08	6 300	1.9	17	**2KJ4402 - ■ BE21 - ■ ■ J1**	
	13	133	104.34	6 400	2.2	17	**2KJ4402 - ■ BE21 - ■ ■ H1**	
	FD.49-LHN63MD4							
	4.1	420	330.98	8 200	1.1	26	**2KJ4403 - ■ BE21 - ■ ■ S1**	
	4.6	375	294.29	8 300	1.3	26	**2KJ4403 - ■ BE21 - ■ ■ R1**	
	5.2	325	258.4	8 400	1.5	26	**2KJ4403 - ■ BE21 - ■ ■ Q1**	
	5.7	295	234.91	8 500	1.6	26	**2KJ4403 - ■ BE21 - ■ ■ P1**	
	6.7	255	200.98	8 600	1.9	26	**2KJ4403 - ■ BE21 - ■ ■ N1**	
	7.4	230	182.71	8 700	2.1	26	**2KJ4403 - ■ BE21 - ■ ■ M1**	
	FD.69-LHN63MD4							
	3.9	440	348.4	11 200	1.4	31	**2KJ4404 - ■ BE21 - ■ ■ S1**	
	4.4	390	309.78	11 300	1.5	31	**2KJ4404 - ■ BE21 - ■ ■ R1**	
	5.0	345	272	11 400	1.7	31	**2KJ4404 - ■ BE21 - ■ ■ Q1**	
	5.5	315	247.27	11 500	1.9	31	**2KJ4404 - ■ BE21 - ■ ■ P1**	
	FZ.39-Z19-LHN63MD4							
	4.9	285	273.36	5 800	0.8	19	**2KJ4322 - ■ BE21 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.18	**FD.49-Z19-LHN63MD4**							
	2.4	580	557	7 300	0.83	29	**2KJ4424 - ■ BE21 - ■ ■ F1**	
	2.6	535	514	7 600	0.9	29	**2KJ4424 - ■ BE21 - ■ ■ E1**	
	3.0	465	447	8 000	1.0	29	**2KJ4424 - ■ BE21 - ■ ■ D1**	
	3.5	405	388	8 200	1.2	29	**2KJ4424 - ■ BE21 - ■ ■ C1**	
	3.9	365	350	8 300	1.3	29	**2KJ4424 - ■ BE21 - ■ ■ B1**	
	4.1	340	329.79	8 400	1.4	29	**2KJ4424 - ■ BE21 - ■ ■ A1**	
	FD.69-Z19-LHN63MD4							
	2.1	685	658	10 600	0.87	33	**2KJ4426 - ■ BE21 - ■ ■ G1**	
	2.2	645	619	10 700	0.93	33	**2KJ4426 - ■ BE21 - ■ ■ F1**	
	2.3	610	587	10 800	0.98	33	**2KJ4426 - ■ BE21 - ■ ■ E1**	
	2.5	560	541	10 900	1.1	33	**2KJ4426 - ■ BE21 - ■ ■ D1**	
	2.9	490	470	11 100	1.2	33	**2KJ4426 - ■ BE21 - ■ ■ C1**	
	3.3	425	409	11 200	1.4	33	**2KJ4426 - ■ BE21 - ■ ■ B1**	
	3.7	385	369	11 300	1.6	33	**2KJ4426 - ■ BE21 - ■ ■ A1**	
	FZ.79-Z39-LHN63MD4							
	1.1	1 250	1 192	13 100	0.8	43	**2KJ4328 - ■ BE21 - ■ ■ K1**	
	1.3	1 100	1 044	13 400	0.91	43	**2KJ4328 - ■ BE21 - ■ ■ J1**	
	1.4	1 010	964	13 600	0.98	43	**2KJ4328 - ■ BE21 - ■ ■ H1**	
	1.6	895	853	13 800	1.1	43	**2KJ4328 - ■ BE21 - ■ ■ G1**	
	1.9	745	710	14 100	1.3	43	**2KJ4328 - ■ BE21 - ■ ■ F1**	
	2.0	700	668	14 200	1.4	43	**2KJ4328 - ■ BE21 - ■ ■ E1**	
	2.3	630	599	14 300	1.6	43	**2KJ4328 - ■ BE21 - ■ ■ D1**	
	2.6	535	510	14 500	1.9	43	**2KJ4328 - ■ BE21 - ■ ■ C1**	
	FZ.89-Z39-LHN63MD4							
	0.64	2 200	2 097	17 400	0.84	75	**2KJ4331 - ■ BE21 - ■ ■ K1**	
	0.71	2 000	1 906	17 400	0.92	75	**2KJ4331 - ■ BE21 - ■ ■ J1**	
	0.8	1 770	1 685	17 400	1.0	75	**2KJ4331 - ■ BE21 - ■ ■ H1**	
	0.88	1 610	1 532	17 400	1.1	75	**2KJ4331 - ■ BE21 - ■ ■ G1**	
	1.0	1 410	1 342	17 400	1.3	75	**2KJ4331 - ■ BE21 - ■ ■ F1**	
	1.1	1 300	1 238	17 400	1.4	75	**2KJ4331 - ■ BE21 - ■ ■ E1**	
	1.2	1 150	1 097	17 400	1.6	75	**2KJ4331 - ■ BE21 - ■ ■ D1**	
	1.5	960	913	17 400	1.9	75	**2KJ4331 - ■ BE21 - ■ ■ C1**	
	1.6	905	859	17 400	2.0	75	**2KJ4331 - ■ BE21 - ■ ■ B1**	
	FD.109-Z39-LHN63MD4							
	0.39	3 560	3 423	25 000	0.87	108	**2KJ4433 - ■ BE21 - ■ ■ S1**	
	0.43	3 240	3 111	25 000	0.96	108	**2KJ4433 - ■ BE21 - ■ ■ R1**	
	0.5	2 840	2 725	25 000	1.1	108	**2KJ4433 - ■ BE21 - ■ ■ Q1**	
	0.54	2 620	2 516	25 000	1.2	108	**2KJ4433 - ■ BE21 - ■ ■ P1**	
	0.61	2 320	2 227	25 000	1.3	108	**2KJ4433 - ■ BE21 - ■ ■ N1**	
	0.73	1 930	1 854	25 000	1.6	108	**2KJ4433 - ■ BE21 - ■ ■ M1**	
	0.77	1 820	1 745	25 000	1.7	108	**2KJ4433 - ■ BE21 - ■ ■ L1**	
	0.86	1 630	1 563	25 000	1.9	108	**2KJ4433 - ■ BE21 - ■ ■ K1**	
	FD.129-Z49-LHN63MD4							
	0.26	5 320	5 106	36 700	0.91	183	**2KJ4435 - ■ BE21 - ■ ■ X1**	
	0.29	4 840	4 642	37 200	1.0	183	**2KJ4435 - ■ BE21 - ■ ■ W1**	
	0.33	4 310	4 142	37 500	1.1	183	**2KJ4435 - ■ BE21 - ■ ■ V1**	
	0.36	3 870	3 714	37 500	1.3	183	**2KJ4435 - ■ BE21 - ■ ■ U1**	
	0.4	3 490	3 347	37 500	1.4	183	**2KJ4435 - ■ BE21 - ■ ■ T1**	

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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.18	**FD.129-Z49-LHN63MD4**							
	0.44	3 220	3 090	37 500	1.5	183	**2KJ4435 - ■ BE21 - ■ ■ S1**	
	0.48	2 940	2 821	37 500	1.6	183	**2KJ4435 - ■ BE21 - ■ ■ R1**	
	0.58	2 440	2 340	37 500	2.0	183	**2KJ4435 - ■ BE21 - ■ ■ Q1**	
	FD.149-D49-LHN63MD4							
	0.14	9 710	9 409	65 000	0.82	271	**2KJ4438 - ■ BE21 - ■ ■ D1**	
	0.15	9 140	8 856	65 000	0.88	271	**2KJ4438 - ■ BE21 - ■ ■ C1**	
	0.17	8 190	7 935	65 000	0.98	271	**2KJ4438 - ■ BE21 - ■ ■ B1**	
	0.2	6 970	6 755	65 000	1.1	271	**2KJ4438 - ■ BE21 - ■ ■ A1**	
	FD.149-Z49-LHN63MD4							
	0.2	6 890	6 608	65 000	1.2	270	**2KJ4437 - ■ BE21 - ■ ■ B2**	
	0.22	6 260	6 007	65 000	1.3	270	**2KJ4437 - ■ BE21 - ■ ■ A2**	
	0.26	5 320	5 109	65 000	1.5	270	**2KJ4437 - ■ BE21 - ■ ■ X1**	
	0.29	4 840	4 645	65 000	1.7	270	**2KJ4437 - ■ BE21 - ■ ■ W1**	
	0.33	4 320	4 144	65 000	1.9	270	**2KJ4437 - ■ BE21 - ■ ■ V1**	
	FD.169-D69-LHN63MD4							
	0.08	16 900	16 379	73 500	0.8	428	**2KJ4441 - ■ BE21 - ■ ■ J1**	
	0.09	15 300	14 890	73 500	0.88	428	**2KJ4441 - ■ BE21 - ■ ■ H1**	
	0.1	13 400	13 042	73 500	1.0	428	**2KJ4441 - ■ BE21 - ■ ■ G1**	
	0.11	12 400	12 039	73 500	1.1	428	**2KJ4441 - ■ BE21 - ■ ■ F1**	
	0.13	11 000	10 659	73 500	1.2	428	**2KJ4441 - ■ BE21 - ■ ■ E1**	
	0.15	9 150	8 872	73 500	1.5	428	**2KJ4441 - ■ BE21 - ■ ■ D1**	
	0.16	8 620	8 350	73 500	1.6	428	**2KJ4441 - ■ BE21 - ■ ■ C1**	
	0.18	7 720	7 482	73 500	1.8	428	**2KJ4441 - ■ BE21 - ■ ■ B1**	
	FD.189-D69-LHN63MD4							
	0.06	21 900	21 265	110 900	0.87	640	**2KJ4443 - ■ BE21 - ■ ■ K1**	
	0.07	19 400	18 797	110 900	0.98	640	**2KJ4443 - ■ BE21 - ■ ■ J1**	
	0.08	17 600	17 088	110 900	1.1	640	**2KJ4443 - ■ BE21 - ■ ■ H1**	
	0.09	15 400	14 968	110 900	1.2	640	**2KJ4443 - ■ BE21 - ■ ■ G1**	
	0.1	14 200	13 817	110 900	1.3	640	**2KJ4443 - ■ BE21 - ■ ■ F1**	
	0.11	12 600	12 233	110 900	1.5	640	**2KJ4443 - ■ BE21 - ■ ■ E1**	
	0.13	10 500	10 182	110 900	1.8	640	**2KJ4443 - ■ BE21 - ■ ■ D1**	
	0.14	9 890	9 583	110 900	1.9	640	**2KJ4443 - ■ BE21 - ■ ■ C1**	
0.25	**FD.29-LHN71MB4**							
	13	182	103.36	5 200	0.82	12	**2KJ4401 - ■ CC21 - ■ ■ F1**	
	15	158	89.78	5 200	0.95	12	**2KJ4401 - ■ CC21 - ■ ■ E1**	
	17	137	78.02	5 200	1.1	12	**2KJ4401 - ■ CC21 - ■ ■ D1**	
	19	124	70.43	5 200	1.2	12	**2KJ4401 - ■ CC21 - ■ ■ C1**	
	20	117	66.29	5 200	1.3	12	**2KJ4401 - ■ CC21 - ■ ■ B1**	
	23	102	57.79	5 200	1.5	12	**2KJ4401 - ■ CC21 - ■ ■ A1**	
	FZ.29-LHN71MB4							
	24	100	56.73	5 200	1.5	12	**2KJ4301 - ■ CC21 - ■ ■ C2**	
	27	89	50.32	5 200	1.7	12	**2KJ4301 - ■ CC21 - ■ ■ B2**	
	31	77	43.66	5 200	1.9	12	**2KJ4301 - ■ CC21 - ■ ■ A2**	
	34	70	39.69	5 200	2.1	12	**2KJ4301 - ■ CC21 - ■ ■ X1**	
	40	60	34.04	5 200	2.5	12	**2KJ4301 - ■ CC21 - ■ ■ W1**	
	44	54	30.95	5 200	2.8	12	**2KJ4301 - ■ CC21 - ■ ■ V1**	
	50	48	27.13	5 000	3.1	12	**2KJ4301 - ■ CC21 - ■ ■ U1**	
	56	43	24.22	4 800	3.5	12	**2KJ4301 - ■ CC21 - ■ ■ T1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**FZ.29-LHN71MB4**							
	63	38	21.58	4 700	3.9	12	**2KJ4301 - ■ CC21 - ■ ■ S1**	
	68	35	19.92	4 600	4.3	12	**2KJ4301 - ■ CC21 - ■ ■ R1**	
	78	31	17.44	4 400	4.9	12	**2KJ4301 - ■ CC21 - ■ ■ Q1**	
	89	27	15.29	4 200	5.6	12	**2KJ4301 - ■ CC21 - ■ ■ P1**	
	98	24	13.88	4 100	6.1	12	**2KJ4301 - ■ CC21 - ■ ■ N1**	
	104	23	13.06	4 000	6.5	12	**2KJ4301 - ■ CC21 - ■ ■ M1**	
	118	20	11.51	3 900	7.1	12	**2KJ4301 - ■ CC21 - ■ ■ L1**	
	136	18	9.99	3 700	7.7	12	**2KJ4301 - ■ CC21 - ■ ■ K1**	
	140	17	9.69	3 600	8.4	12	**2KJ4301 - ■ CC21 - ■ ■ J1**	
	157	15	8.63	3 500	8.5	12	**2KJ4301 - ■ CC21 - ■ ■ H1**	
	170	14	7.97	3 400	8.5	12	**2KJ4301 - ■ CC21 - ■ ■ G1**	
	194	12	6.98	3 300	10	12	**2KJ4301 - ■ CC21 - ■ ■ F1**	
	221	11	6.12	3 200	11	12	**2KJ4301 - ■ CC21 - ■ ■ E1**	
	244	9.8	5.55	3 100	11	12	**2KJ4301 - ■ CC21 - ■ ■ D1**	
	260	9.2	5.22	3 000	12	12	**2KJ4301 - ■ CC21 - ■ ■ C1**	
	295	8.1	4.60	2 900	12	12	**2KJ4301 - ■ CC21 - ■ ■ B1**	
	339	7	4.00	2 800	13	12	**2KJ4301 - ■ CC21 - ■ ■ A1**	
	FD.39-LHN71MB4							
	7.1	335	191.87	5 600	0.86	19	**2KJ4402 - ■ CC21 - ■ ■ N1**	
	8.2	290	164.56	5 800	1.0	19	**2KJ4402 - ■ CC21 - ■ ■ M1**	
	9.1	260	149.6	5 900	1.1	19	**2KJ4402 - ■ CC21 - ■ ■ L1**	
	10	230	131.17	6 000	1.3	19	**2KJ4402 - ■ CC21 - ■ ■ K1**	
	12	205	117.08	6 100	1.4	19	**2KJ4402 - ■ CC21 - ■ ■ J1**	
	13	184	104.34	6 200	1.6	19	**2KJ4402 - ■ CC21 - ■ ■ H1**	
	14	170	96.31	6 200	1.7	19	**2KJ4402 - ■ CC21 - ■ ■ G1**	
	16	149	84.32	6 300	2.0	19	**2KJ4402 - ■ CC21 - ■ ■ F1**	
	18	130	73.93	6 400	2.2	19	**2KJ4402 - ■ CC21 - ■ ■ E1**	
	FZ.39-LHN71MB4							
	23	102	57.99	6 500	2.3	19	**2KJ4302 - ■ CC21 - ■ ■ A2**	
	FD.49-LHN71MB4							
	4.1	580	330.98	7 300	0.82	28	**2KJ4403 - ■ CC21 - ■ ■ S1**	
	4.6	515	294.29	7 700	0.93	28	**2KJ4403 - ■ CC21 - ■ ■ R1**	
	5.2	455	258.4	8 100	1.1	28	**2KJ4403 - ■ CC21 - ■ ■ Q1**	
	5.8	410	234.91	8 200	1.2	28	**2KJ4403 - ■ CC21 - ■ ■ P1**	
	6.7	350	200.98	8 400	1.4	28	**2KJ4403 - ■ CC21 - ■ ■ N1**	
	7.4	320	182.71	8 500	1.5	28	**2KJ4403 - ■ CC21 - ■ ■ M1**	
	8.4	285	161.5	8 600	1.7	28	**2KJ4403 - ■ CC21 - ■ ■ L1**	
	9.2	255	146.82	8 600	1.9	28	**2KJ4403 - ■ CC21 - ■ ■ K1**	
	11	225	128.6	8 700	2.1	28	**2KJ4403 - ■ CC21 - ■ ■ J1**	
	FD.69-LHN71MB4							
	3.9	610	348.4	10 800	0.98	33	**2KJ4404 - ■ CC21 - ■ ■ S1**	
	4.4	545	309.78	10 900	1.1	33	**2KJ4404 - ■ CC21 - ■ ■ R1**	
	5.0	475	272	11 100	1.3	33	**2KJ4404 - ■ CC21 - ■ ■ Q1**	
	5.5	435	247.27	11 200	1.4	33	**2KJ4404 - ■ CC21 - ■ ■ P1**	
	6.4	370	211.56	11 400	1.6	33	**2KJ4404 - ■ CC21 - ■ ■ N1**	
	7.0	335	192.32	11 400	1.8	33	**2KJ4404 - ■ CC21 - ■ ■ M1**	
	8.0	300	170	11 500	2.0	33	**2KJ4404 - ■ CC21 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.25	**FD.79-LHN71MB4**							
	3.8	625	357	14 300	1.6	40	**2KJ4405 - ■ CC21 - ■ ■ S1**	
	4.2	570	324.62	14 400	1.7	40	**2KJ4405 - ■ CC21 - ■ ■ R1**	
	FD.49-Z19-LHN71MB4							
	3.6	565	388	7 400	0.84	30	**2KJ4424 - ■ CC21 - ■ ■ C1**	
	4.0	510	350	7 700	0.94	30	**2KJ4424 - ■ CC21 - ■ ■ B1**	
	4.2	480	329.79	7 900	0.99	30	**2KJ4424 - ■ CC21 - ■ ■ A1**	
	FD.69-Z19-LHN71MB4							
	3.0	685	470	10 600	0.87	35	**2KJ4426 - ■ CC21 - ■ ■ C1**	
	3.4	595	409	10 800	1.0	35	**2KJ4426 - ■ CC21 - ■ ■ B1**	
	3.8	540	369	11 000	1.1	35	**2KJ4426 - ■ CC21 - ■ ■ A1**	
	FZ.79-Z39-LHN71MB4							
	2.0	1 050	710	13 500	0.95	45	**2KJ4328 - ■ CC21 - ■ ■ F1**	
	2.1	985	668	13 600	1.0	45	**2KJ4328 - ■ CC21 - ■ ■ E1**	
	2.3	885	599	13 800	1.1	45	**2KJ4328 - ■ CC21 - ■ ■ D1**	
	2.7	755	510	14 100	1.3	45	**2KJ4328 - ■ CC21 - ■ ■ C1**	
	FD.89-Z39-LHN71MB4							
	2.2	945	648	17 400	1.9	78	**2KJ4431 - ■ CC21 - ■ ■ E1**	
	FZ.89-Z39-LHN71MB4							
	0.91	2 260	1 532	17 400	0.82	77	**2KJ4331 - ■ CC21 - ■ ■ G1**	
	1.0	1 980	1 342	17 400	0.93	77	**2KJ4331 - ■ CC21 - ■ ■ F1**	
	1.1	1 830	1 238	17 400	1.0	77	**2KJ4331 - ■ CC21 - ■ ■ E1**	
	1.3	1 620	1 097	17 400	1.1	77	**2KJ4331 - ■ CC21 - ■ ■ D1**	
	1.5	1 350	913	17 400	1.4	77	**2KJ4331 - ■ CC21 - ■ ■ C1**	
	1.6	1 270	859	17 400	1.5	77	**2KJ4331 - ■ CC21 - ■ ■ B1**	
	1.8	1 130	770	17 400	1.6	77	**2KJ4331 - ■ CC21 - ■ ■ A1**	
	FD.109-Z39-LHN71MB4							
	0.55	3 680	2 516	25 000	0.84	110	**2KJ4433 - ■ CC21 - ■ ■ P1**	
	0.63	3 260	2 227	25 000	0.95	110	**2KJ4433 - ■ CC21 - ■ ■ N1**	
	0.75	2 710	1 854	25 000	1.1	110	**2KJ4433 - ■ CC21 - ■ ■ M1**	
	0.8	2 550	1 745	25 000	1.2	110	**2KJ4433 - ■ CC21 - ■ ■ L1**	
	0.89	2 290	1 563	25 000	1.4	110	**2KJ4433 - ■ CC21 - ■ ■ K1**	
	1.0	1 950	1 331	25 000	1.6	110	**2KJ4433 - ■ CC21 - ■ ■ J1**	
	FD.129-Z49-LHN71MB4							
	0.34	6 060	4 142	36 000	0.8	185	**2KJ4435 - ■ CC21 - ■ ■ V1**	
	0.38	5 440	3 714	36 600	0.89	185	**2KJ4435 - ■ CC21 - ■ ■ U1**	
	0.42	4 900	3 347	37 100	0.99	185	**2KJ4435 - ■ CC21 - ■ ■ T1**	
	0.45	4 520	3 090	37 500	1.1	185	**2KJ4435 - ■ CC21 - ■ ■ S1**	
	0.49	4 130	2 821	37 500	1.2	185	**2KJ4435 - ■ CC21 - ■ ■ R1**	
	0.6	3 420	2 340	37 500	1.4	185	**2KJ4435 - ■ CC21 - ■ ■ Q1**	
	0.63	3 220	2 203	37 500	1.5	185	**2KJ4435 - ■ CC21 - ■ ■ P1**	
	0.67	3 040	2 080	37 500	1.6	185	**2KJ4435 - ■ CC21 - ■ ■ N1**	
	0.79	2 590	1 770	37 500	1.9	185	**2KJ4435 - ■ CC21 - ■ ■ M1**	
	FD.149-D49-LHN71MB4							
	0.21	9 790	6 755	65 000	0.82	273	**2KJ4438 - ■ CC21 - ■ ■ A1**	
	FD.149-Z49-LHN71MB4							
	0.21	9 680	6 608	65 000	0.83	272	**2KJ4437 - ■ CC21 - ■ ■ B2**	
	0.23	8 790	6 007	65 000	0.91	272	**2KJ4437 - ■ CC21 - ■ ■ A2**	
	0.27	7 480	5 109	65 000	1.1	272	**2KJ4437 - ■ CC21 - ■ ■ X1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**FD.149-Z49-LHN71MB4**							
	0.3	6 800	4 645	65 000	1.2	272	**2KJ4437 - ■ CC21 - ■ ■ W1**	
	0.34	6 070	4 144	65 000	1.3	272	**2KJ4437 - ■ CC21 - ■ ■ V1**	
	0.38	5 440	3 716	65 000	1.5	272	**2KJ4437 - ■ CC21 - ■ ■ U1**	
	0.42	4 900	3 349	65 000	1.6	272	**2KJ4437 - ■ CC21 - ■ ■ T1**	
	0.45	4 520	3 092	65 000	1.8	272	**2KJ4437 - ■ CC21 - ■ ■ S1**	
	0.49	4 130	2 822	65 000	1.9	272	**2KJ4437 - ■ CC21 - ■ ■ R1**	
	FD.169-D69-LHN71MB4							
	0.13	15 400	10 659	73 500	0.88	430	**2KJ4441 - ■ CC21 - ■ ■ E1**	
	0.16	12 800	8 872	73 500	1.1	430	**2KJ4441 - ■ CC21 - ■ ■ D1**	
	0.17	12 100	8 350	73 500	1.1	430	**2KJ4441 - ■ CC21 - ■ ■ C1**	
	0.19	10 800	7 482	73 500	1.3	430	**2KJ4441 - ■ CC21 - ■ ■ B1**	
	0.22	9 230	6 370	73 500	1.5	430	**2KJ4441 - ■ CC21 - ■ ■ A1**	
	FD.169-Z69-LHN71MB4							
	0.22	9 120	6 230	73 500	1.5	430	**2KJ4440 - ■ CC21 - ■ ■ A2**	
	0.25	8 290	5 664	73 500	1.6	430	**2KJ4440 - ■ CC21 - ■ ■ X1**	
	0.29	7 050	4 817	73 500	1.9	430	**2KJ4440 - ■ CC21 - ■ ■ W1**	
	FD.189-D69-LHN71MB4							
	0.09	21 700	14 968	110 900	0.88	642	**2KJ4443 - ■ CC21 - ■ ■ G1**	
	0.1	20 000	13 817	110 900	0.95	642	**2KJ4443 - ■ CC21 - ■ ■ F1**	
	0.11	17 700	12 233	110 900	1.1	642	**2KJ4443 - ■ CC21 - ■ ■ E1**	
	0.14	14 700	10 182	110 900	1.3	642	**2KJ4443 - ■ CC21 - ■ ■ D1**	
	0.15	13 800	9 583	110 900	1.4	642	**2KJ4443 - ■ CC21 - ■ ■ C1**	
	0.16	12 400	8 586	110 900	1.5	642	**2KJ4443 - ■ CC21 - ■ ■ B1**	
	0.19	10 600	7 310	110 900	1.8	642	**2KJ4443 - ■ CC21 - ■ ■ A1**	
	FD.189-Z69-LHN71MB4							
	0.2	10 400	7 150	110 900	1.8	642	**2KJ4442 - ■ CC21 - ■ ■ C2**	
	0.21	9 520	6 500	110 900	2.0	642	**2KJ4442 - ■ CC21 - ■ ■ B2**	
0.37	**FD.29-LHN71MD4**							
	19	183	70.43	5 200	0.82	13	**2KJ4401 - ■ CE21 - ■ ■ C1**	
	21	172	66.29	5 200	0.87	13	**2KJ4401 - ■ CE21 - ■ ■ B1**	
	24	150	57.79	5 200	1.0	13	**2KJ4401 - ■ CE21 - ■ ■ A1**	
	FZ.29-LHN71MD4							
	24	147	56.73	5 200	1.0	12	**2KJ4301 - ■ CE21 - ■ ■ C2**	
	27	131	50.32	5 200	1.1	12	**2KJ4301 - ■ CE21 - ■ ■ B2**	
	31	113	43.66	5 200	1.3	12	**2KJ4301 - ■ CE21 - ■ ■ A2**	
	34	103	39.69	5 200	1.5	12	**2KJ4301 - ■ CE21 - ■ ■ X1**	
	40	88	34.04	5 100	1.7	12	**2KJ4301 - ■ CE21 - ■ ■ W1**	
	44	80	30.95	5 000	1.9	12	**2KJ4301 - ■ CE21 - ■ ■ V1**	
	50	70	27.13	4 800	2.1	12	**2KJ4301 - ■ CE21 - ■ ■ U1**	
	56	63	24.22	4 700	2.4	12	**2KJ4301 - ■ CE21 - ■ ■ T1**	
	63	56	21.58	4 500	2.7	12	**2KJ4301 - ■ CE21 - ■ ■ S1**	
	68	52	19.92	4 400	2.9	12	**2KJ4301 - ■ CE21 - ■ ■ R1**	
	78	45	17.44	4 300	3.3	12	**2KJ4301 - ■ CE21 - ■ ■ Q1**	
	89	40	15.29	4 100	3.8	12	**2KJ4301 - ■ CE21 - ■ ■ P1**	
	98	36	13.88	4 000	4.2	12	**2KJ4301 - ■ CE21 - ■ ■ N1**	
	104	34	13.06	3 900	4.4	12	**2KJ4301 - ■ CE21 - ■ ■ M1**	
	118	30	11.51	3 800	4.8	12	**2KJ4301 - ■ CE21 - ■ ■ L1**	
	136	26	9.99	3 600	5.2	12	**2KJ4301 - ■ CE21 - ■ ■ K1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.37	**FZ.29-LHN71MD4**							
	140	25	9.69	3 600	5.7	12	**2KJ4301 - ■ CE21 - ■ ■ J1**	
	158	22	8.63	3 400	5.8	12	**2KJ4301 - ■ CE21 - ■ ■ H1**	
	171	21	7.97	3 400	5.8	12	**2KJ4301 - ■ CE21 - ■ ■ G1**	
	195	18	6.98	3 200	6.8	12	**2KJ4301 - ■ CE21 - ■ ■ F1**	
	222	16	6.12	3 100	7.2	12	**2KJ4301 - ■ CE21 - ■ ■ E1**	
	245	14	5.55	3 000	7.5	12	**2KJ4301 - ■ CE21 - ■ ■ D1**	
	261	14	5.22	2 900	7.8	12	**2KJ4301 - ■ CE21 - ■ ■ C1**	
	296	12	4.60	2 800	8.1	12	**2KJ4301 - ■ CE21 - ■ ■ B1**	
	340	10	4.00	2 700	8.8	12	**2KJ4301 - ■ CE21 - ■ ■ A1**	
	FD.39-LHN71MD4							
	10	340	131.17	5 600	0.85	19	**2KJ4402 - ■ CE21 - ■ ■ K1**	
	12	300	117.08	5 700	0.95	19	**2KJ4402 - ■ CE21 - ■ ■ J1**	
	13	270	104.34	5 800	1.1	19	**2KJ4402 - ■ CE21 - ■ ■ H1**	
	14	250	96.31	5 900	1.2	19	**2KJ4402 - ■ CE21 - ■ ■ G1**	
	16	215	84.32	6 100	1.3	19	**2KJ4402 - ■ CE21 - ■ ■ F1**	
	18	192	73.93	6 100	1.5	19	**2KJ4402 - ■ CE21 - ■ ■ E1**	
	20	174	67.07	6 200	1.7	19	**2KJ4402 - ■ CE21 - ■ ■ D1**	
	22	164	63.13	6 200	1.8	19	**2KJ4402 - ■ CE21 - ■ ■ C1**	
	24	145	55.65	6 300	2.0	19	**2KJ4402 - ■ CE21 - ■ ■ B1**	
	28	125	48.29	6 400	2.3	19	**2KJ4402 - ■ CE21 - ■ ■ A1**	
	FZ.39-LHN71MD4							
	21	169	65.21	6 200	1.7	19	**2KJ4302 - ■ CE21 - ■ ■ B2**	
	23	151	57.99	6 300	1.5	19	**2KJ4302 - ■ CE21 - ■ ■ A2**	
	27	132	50.91	6 400	1.8	19	**2KJ4302 - ■ CE21 - ■ ■ X1**	
	29	120	46.29	6 400	2.1	19	**2KJ4302 - ■ CE21 - ■ ■ W1**	
	FD.49-LHN71MD4							
	6.8	520	200.98	7 700	0.92	28	**2KJ4403 - ■ CE21 - ■ ■ N1**	
	7.4	475	182.71	7 900	1.0	28	**2KJ4403 - ■ CE21 - ■ ■ M1**	
	8.4	420	161.5	8 200	1.1	28	**2KJ4403 - ■ CE21 - ■ ■ L1**	
	9.3	380	146.82	8 300	1.3	28	**2KJ4403 - ■ CE21 - ■ ■ K1**	
	11	305	118.71	8 500	1.6	28	**2KJ4403 - ■ CE21 - ■ ■ H1**	
	11	330	128.6	8 400	1.4	28	**2KJ4403 - ■ CE21 - ■ ■ J1**	
	13	270	105.1	8 600	1.8	28	**2KJ4403 - ■ CE21 - ■ ■ G1**	
	16	225	87.48	8 700	2.1	28	**2KJ4403 - ■ CE21 - ■ ■ F1**	
	17	210	82.33	8 800	2.2	28	**2KJ4403 - ■ CE21 - ■ ■ E1**	
	FD.69-LHN71MD4							
	5.0	705	272	10 600	0.85	33	**2KJ4404 - ■ CE21 - ■ ■ Q1**	
	5.5	640	247.27	10 700	0.93	33	**2KJ4404 - ■ CE21 - ■ ■ P1**	
	6.4	550	211.56	10 900	1.1	33	**2KJ4404 - ■ CE21 - ■ ■ N1**	
	7.1	500	192.32	11 000	1.2	33	**2KJ4404 - ■ CE21 - ■ ■ M1**	
	8.0	440	170	11 200	1.4	33	**2KJ4404 - ■ CE21 - ■ ■ L1**	
	8.8	400	154.55	11 300	1.5	33	**2KJ4404 - ■ CE21 - ■ ■ K1**	
	10	350	135.37	11 400	1.7	33	**2KJ4404 - ■ CE21 - ■ ■ J1**	
	11	325	124.96	11 500	1.8	33	**2KJ4404 - ■ CE21 - ■ ■ H1**	
	12	285	110.63	11 600	2.1	33	**2KJ4404 - ■ CE21 - ■ ■ G1**	
	FD.79-LHN71MD4							
	3.8	925	357	13 700	1.1	40	**2KJ4405 - ■ CE21 - ■ ■ S1**	
	4.2	840	324.62	13 900	1.2	40	**2KJ4405 - ■ CE21 - ■ ■ R1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.37	**FD.79-LHN71MD4**							
	4.9	715	276.09	14 100	1.4	40	**2KJ4405 - ■ CE21 - ■ ■ Q1**	
	5.4	650	250.99	14 300	1.5	40	**2KJ4405 - ■ CE21 - ■ ■ P1**	
	6.1	580	223.94	14 400	1.7	40	**2KJ4405 - ■ CE21 - ■ ■ N1**	
	6.8	520	200.8	14 500	1.9	40	**2KJ4405 - ■ CE21 - ■ ■ M1**	
	7.5	470	180.99	14 500	2.1	40	**2KJ4405 - ■ CE21 - ■ ■ L1**	
	FZ.79-Z39-LHN71MD4							
	2.7	1 180	510	13 200	0.84	46	**2KJ4328 - ■ CE21 - ■ ■ C1**	
	FD.89-Z39-LHN71MD4							
	2.1	1 490	648	17 400	1.2	78	**2KJ4431 - ■ CE21 - ■ ■ E1**	
	2.3	1 330	581	17 400	1.4	78	**2KJ4431 - ■ CE21 - ■ ■ D1**	
	2.8	1 130	494	17 400	1.6	78	**2KJ4431 - ■ CE21 - ■ ■ C1**	
	FZ.89-Z39-LHN71MD4							
	1.5	2 120	913	17 400	0.87	77	**2KJ4331 - ■ CE21 - ■ ■ C1**	
	1.6	1 990	859	17 400	0.93	77	**2KJ4331 - ■ CE21 - ■ ■ B1**	
	1.8	1 790	770	17 400	1.0	77	**2KJ4331 - ■ CE21 - ■ ■ A1**	
	FD.109-Z39-LHN71MD4							
	0.87	3 600	1 563	25 000	0.86	110	**2KJ4433 - ■ CE21 - ■ ■ K1**	
	1.0	3 060	1 331	25 000	1.0	110	**2KJ4433 - ■ CE21 - ■ ■ J1**	
	1.7	1 860	810	25 000	1.7	110	**2KJ4433 - ■ CE21 - ■ ■ F1**	
	1.8	1 750	763	25 000	1.8	110	**2KJ4433 - ■ CE21 - ■ ■ E1**	
	2.0	1 570	683	25 000	2.0	110	**2KJ4433 - ■ CE21 - ■ ■ D1**	
	FD.129-Z49-LHN71MD4							
	0.58	5 390	2 340	36 600	0.9	186	**2KJ4435 - ■ CE21 - ■ ■ Q1**	
	0.62	5 070	2 203	36 900	0.96	186	**2KJ4435 - ■ CE21 - ■ ■ P1**	
	0.65	4 790	2 080	37 200	1.0	186	**2KJ4435 - ■ CE21 - ■ ■ N1**	
	0.77	4 070	1 770	37 500	1.2	186	**2KJ4435 - ■ CE21 - ■ ■ M1**	
	FD.149-Z49-LHN71MD4							
	0.33	9 540	4 144	65 000	0.84	273	**2KJ4437 - ■ CE21 - ■ ■ V1**	
	0.37	8 560	3 716	65 000	0.93	273	**2KJ4437 - ■ CE21 - ■ ■ U1**	
	0.41	7 710	3 349	65 000	1.0	273	**2KJ4437 - ■ CE21 - ■ ■ T1**	
	0.44	7 120	3 092	65 000	1.1	273	**2KJ4437 - ■ CE21 - ■ ■ S1**	
	0.48	6 500	2 822	65 000	1.2	273	**2KJ4437 - ■ CE21 - ■ ■ R1**	
	0.58	5 390	2 342	65 000	1.5	273	**2KJ4437 - ■ CE21 - ■ ■ Q1**	
	0.62	5 070	2 204	65 000	1.6	273	**2KJ4437 - ■ CE21 - ■ ■ P1**	
	0.65	4 790	2 081	65 000	1.7	273	**2KJ4437 - ■ CE21 - ■ ■ N1**	
	0.77	4 080	1 771	65 000	2.0	273	**2KJ4437 - ■ CE21 - ■ ■ M1**	
	FD.169-D69-LHN71MD4							
	0.18	17 000	7 482	73 500	0.8	431	**2KJ4441 - ■ CE21 - ■ ■ B1**	
	0.21	14 500	6 370	73 500	0.94	431	**2KJ4441 - ■ CE21 - ■ ■ A1**	
	FD.169-Z69-LHN71MD4							
	0.22	14 300	6 230	73 500	0.95	430	**2KJ4440 - ■ CE21 - ■ ■ A2**	
	0.24	13 000	5 664	73 500	1.0	430	**2KJ4440 - ■ CE21 - ■ ■ X1**	
	0.28	11 000	4 817	73 500	1.2	430	**2KJ4440 - ■ CE21 - ■ ■ W1**	
	0.31	10 000	4 379	73 500	1.3	430	**2KJ4440 - ■ CE21 - ■ ■ V1**	
	0.35	9 000	3 907	73 500	1.5	430	**2KJ4440 - ■ CE21 - ■ ■ U1**	
	0.39	8 070	3 503	73 500	1.7	430	**2KJ4440 - ■ CE21 - ■ ■ T1**	
	0.43	7 270	3 158	73 500	1.9	430	**2KJ4440 - ■ CE21 - ■ ■ S1**	
	0.47	6 710	2 915	73 500	2.0	430	**2KJ4440 - ■ CE21 - ■ ■ R1**	

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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.37	**FD.189-D69-LHN71MD4**							
	0.13	23 200	10 182	110 200	0.82	642	**2KJ4443 - ■ CE21 - ■ ■ D1**	
	0.14	21 800	9 583	110 900	0.87	642	**2KJ4443 - ■ CE21 - ■ ■ C1**	
	0.16	19 500	8 586	110 900	0.97	642	**2KJ4443 - ■ CE21 - ■ ■ B1**	
	0.19	16 600	7 310	110 900	1.1	642	**2KJ4443 - ■ CE21 - ■ ■ A1**	
	FD.189-Z69-LHN71MD4							
	0.19	16 400	7 150	110 900	1.2	642	**2KJ4442 - ■ CE21 - ■ ■ C2**	
	0.21	14 900	6 500	110 900	1.3	642	**2KJ4442 - ■ CE21 - ■ ■ B2**	
	0.25	12 700	5 529	110 900	1.5	642	**2KJ4442 - ■ CE21 - ■ ■ A2**	
	0.27	11 500	5 026	110 900	1.6	642	**2KJ4442 - ■ CE21 - ■ ■ X1**	
	0.3	10 300	4 484	110 900	1.8	642	**2KJ4442 - ■ CE21 - ■ ■ W1**	
0.55	**FZ.29-LHN71ME4**							
	31	172	43.66	4 900	0.87	13	**2KJ4301 - ■ CF21 - ■ ■ A2**	
	34	156	39.69	4 900	0.96	13	**2KJ4301 - ■ CF21 - ■ ■ X1**	
	39	134	34.04	4 700	1.1	13	**2KJ4301 - ■ CF21 - ■ ■ W1**	
	43	122	30.95	4 600	1.2	13	**2KJ4301 - ■ CF21 - ■ ■ V1**	
	49	107	27.13	4 500	1.4	13	**2KJ4301 - ■ CF21 - ■ ■ U1**	
	55	95	24.22	4 400	1.6	13	**2KJ4301 - ■ CF21 - ■ ■ T1**	
	62	85	21.58	4 300	1.8	13	**2KJ4301 - ■ CF21 - ■ ■ S1**	
	67	78	19.92	4 200	1.9	13	**2KJ4301 - ■ CF21 - ■ ■ R1**	
	77	69	17.44	4 100	2.2	13	**2KJ4301 - ■ CF21 - ■ ■ Q1**	
	87	60	15.29	4 000	2.5	13	**2KJ4301 - ■ CF21 - ■ ■ P1**	
	96	55	13.88	3 900	2.7	13	**2KJ4301 - ■ CF21 - ■ ■ N1**	
	102	51	13.06	3 800	2.9	13	**2KJ4301 - ■ CF21 - ■ ■ M1**	
	116	45	11.51	3 700	3.2	13	**2KJ4301 - ■ CF21 - ■ ■ L1**	
	134	39	9.99	3 500	3.5	13	**2KJ4301 - ■ CF21 - ■ ■ K1**	
	138	38	9.69	3 500	3.8	13	**2KJ4301 - ■ CF21 - ■ ■ J1**	
	155	34	8.63	3 300	3.8	13	**2KJ4301 - ■ CF21 - ■ ■ H1**	
	168	31	7.97	3 300	3.8	13	**2KJ4301 - ■ CF21 - ■ ■ G1**	
	FD.39-LHN71ME4							
	16	330	84.32	5 600	0.87	20	**2KJ4402 - ■ CF21 - ■ ■ F1**	
	18	290	73.93	5 800	1.0	20	**2KJ4402 - ■ CF21 - ■ ■ E1**	
	20	260	67.07	5 900	1.1	20	**2KJ4402 - ■ CF21 - ■ ■ D1**	
	21	245	63.13	5 900	1.2	20	**2KJ4402 - ■ CF21 - ■ ■ C1**	
	24	215	55.65	6 100	1.3	20	**2KJ4402 - ■ CF21 - ■ ■ B1**	
	28	190	48.29	6 100	1.5	20	**2KJ4402 - ■ CF21 - ■ ■ A1**	
	FZ.39-LHN71ME4							
	20	255	65.21	5 900	1.1	20	**2KJ4302 - ■ CF21 - ■ ■ B2**	
	23	225	57.99	6 000	1.0	20	**2KJ4302 - ■ CF21 - ■ ■ A2**	
	26	200	50.91	6 100	1.2	20	**2KJ4302 - ■ CF21 - ■ ■ X1**	
	29	182	46.29	6 200	1.4	20	**2KJ4302 - ■ CF21 - ■ ■ W1**	
	34	156	39.6	6 300	1.9	20	**2KJ4302 - ■ CF21 - ■ ■ V1**	
	37	142	36	6 300	1.8	20	**2KJ4302 - ■ CF21 - ■ ■ U1**	
	42	125	31.82	6 300	2.3	20	**2KJ4302 - ■ CF21 - ■ ■ T1**	
	46	114	28.93	6 100	2.4	20	**2KJ4302 - ■ CF21 - ■ ■ S1**	
	53	100	25.34	5 900	2.7	20	**2KJ4302 - ■ CF21 - ■ ■ R1**	
	57	92	23.39	5 800	2.8	20	**2KJ4302 - ■ CF21 - ■ ■ Q1**	
	FD.49-LHN71ME4							
	9.1	575	146.82	7 300	0.83	29	**2KJ4403 - ■ CF21 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**FD.49-LHN71ME4**							
	10	505	128.6	7 700	0.95	29	**2KJ4403 - ■ CF21 - ■ ■ J1**	
	11	465	118.71	8 000	1.0	29	**2KJ4403 - ■ CF21 - ■ ■ H1**	
	13	410	105.1	8 200	1.2	29	**2KJ4403 - ■ CF21 - ■ ■ G1**	
	15	340	87.48	8 400	1.4	29	**2KJ4403 - ■ CF21 - ■ ■ F1**	
	16	320	82.33	8 500	1.5	29	**2KJ4403 - ■ CF21 - ■ ■ E1**	
	18	290	73.77	8 300	1.7	29	**2KJ4403 - ■ CF21 - ■ ■ D1**	
	21	245	62.81	8 100	1.9	29	**2KJ4403 - ■ CF21 - ■ ■ C1**	
	FZ.49-LHN71ME4							
	22	240	61.43	8 100	2.0	28	**2KJ4303 - ■ CF21 - ■ ■ X1**	
	24	220	55.85	7 900	2.2	28	**2KJ4303 - ■ CF21 - ■ ■ W1**	
	FD.69-LHN71ME4							
	7.9	665	170	10 700	0.9	34	**2KJ4404 - ■ CF21 - ■ ■ L1**	
	8.6	605	154.55	10 800	0.99	34	**2KJ4404 - ■ CF21 - ■ ■ K1**	
	9.9	530	135.37	11 000	1.1	34	**2KJ4404 - ■ CF21 - ■ ■ J1**	
	11	490	124.96	11 100	1.2	34	**2KJ4404 - ■ CF21 - ■ ■ H1**	
	12	435	110.63	11 200	1.4	34	**2KJ4404 - ■ CF21 - ■ ■ G1**	
	14	360	92.08	11 400	1.7	34	**2KJ4404 - ■ CF21 - ■ ■ F1**	
	15	340	86.67	11 400	1.8	34	**2KJ4404 - ■ CF21 - ■ ■ E1**	
	17	305	77.65	11 500	2.0	34	**2KJ4404 - ■ CF21 - ■ ■ D1**	
	20	260	66.11	11 600	2.3	34	**2KJ4404 - ■ CF21 - ■ ■ C1**	
	FZ.69-LHN71ME4							
	21	250	64.67	11 600	2.4	33	**2KJ4304 - ■ CF21 - ■ ■ X1**	
	FD.79-LHN71ME4							
	4.8	1 080	276.09	13 400	0.92	41	**2KJ4405 - ■ CF21 - ■ ■ Q1**	
	5.3	985	250.99	13 600	1.0	41	**2KJ4405 - ■ CF21 - ■ ■ P1**	
	6.0	880	223.94	13 800	1.1	41	**2KJ4405 - ■ CF21 - ■ ■ N1**	
	6.6	790	200.8	14 000	1.3	41	**2KJ4405 - ■ CF21 - ■ ■ M1**	
	7.4	710	180.99	14 100	1.4	41	**2KJ4405 - ■ CF21 - ■ ■ L1**	
	8.0	655	167.07	14 300	1.5	41	**2KJ4405 - ■ CF21 - ■ ■ K1**	
	8.8	600	152.51	14 400	1.7	41	**2KJ4405 - ■ CF21 - ■ ■ J1**	
	11	465	119.1	14 500	2.1	41	**2KJ4405 - ■ CF21 - ■ ■ G1**	
	11	495	126.54	14 500	2.0	41	**2KJ4405 - ■ CF21 - ■ ■ H1**	
	FZ.29-LHN80MD4E							
	28	186	50.32	4 100	0.81	17	**2KJ4301 - ■ DD22 - ■ ■ B2**	
	33	161	43.66	4 300	0.93	17	**2KJ4301 - ■ DD22 - ■ ■ A2**	
	36	147	39.69	4 400	1.0	17	**2KJ4301 - ■ DD22 - ■ ■ X1**	
	42	126	34.04	4 600	1.2	17	**2KJ4301 - ■ DD22 - ■ ■ W1**	
	46	114	30.95	4 600	1.3	17	**2KJ4301 - ■ DD22 - ■ ■ V1**	
	52	100	27.13	4 400	1.5	17	**2KJ4301 - ■ DD22 - ■ ■ U1**	
	59	90	24.22	4 300	1.7	17	**2KJ4301 - ■ DD22 - ■ ■ T1**	
	66	80	21.58	4 200	1.9	17	**2KJ4301 - ■ DD22 - ■ ■ S1**	
	71	74	19.92	4 100	2.0	17	**2KJ4301 - ■ DD22 - ■ ■ R1**	
	81	64	17.44	4 000	2.3	17	**2KJ4301 - ■ DD22 - ■ ■ Q1**	
	93	57	15.29	3 900	2.7	17	**2KJ4301 - ■ DD22 - ■ ■ P1**	
	102	51	13.88	3 800	2.9	17	**2KJ4301 - ■ DD22 - ■ ■ N1**	
	109	48	13.06	3 700	3.1	17	**2KJ4301 - ■ DD22 - ■ ■ M1**	
	123	43	11.51	3 600	3.4	17	**2KJ4301 - ■ DD22 - ■ ■ L1**	
	142	37	9.99	3 500	3.7	17	**2KJ4301 - ■ DD22 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**FZ.29-LHN80MD4E**							
	147	36	9.69	3 400	4.0	17	**2KJ4301 - ■ DD22 - ■ ■ J1**	
	165	32	8.63	3 300	4.1	17	**2KJ4301 - ■ DD22 - ■ ■ H1**	
	178	30	7.97	3 200	4.1	17	**2KJ4301 - ■ DD22 - ■ ■ G1**	
	FD.39-LHN80MD4E							
	15	355	96.31	4 600	0.81	23	**2KJ4402 - ■ DD22 - ■ ■ G1**	
	17	310	84.32	4 800	0.93	23	**2KJ4402 - ■ DD22 - ■ ■ F1**	
	19	270	73.93	5 000	1.1	23	**2KJ4402 - ■ DD22 - ■ ■ E1**	
	21	245	67.07	5 000	1.2	23	**2KJ4402 - ■ DD22 - ■ ■ D1**	
	22	230	63.13	5 100	1.2	23	**2KJ4402 - ■ DD22 - ■ ■ C1**	
	26	205	55.65	5 200	1.4	23	**2KJ4402 - ■ DD22 - ■ ■ B1**	
	29	179	48.29	5 300	1.6	23	**2KJ4402 - ■ DD22 - ■ ■ A1**	
	FZ.39-LHN80MD4E							
	24	215	57.99	5 200	1.1	23	**2KJ4302 - ■ DD22 - ■ ■ A2**	
	28	188	50.91	5 200	1.3	23	**2KJ4302 - ■ DD22 - ■ ■ X1**	
	31	171	46.29	5 300	1.5	23	**2KJ4302 - ■ DD22 - ■ ■ W1**	
	36	146	39.6	5 400	2.0	23	**2KJ4302 - ■ DD22 - ■ ■ V1**	
	39	133	36	5 400	1.9	23	**2KJ4302 - ■ DD22 - ■ ■ U1**	
	45	118	31.82	5 500	2.4	23	**2KJ4302 - ■ DD22 - ■ ■ T1**	
	49	107	28.93	5 500	2.6	23	**2KJ4302 - ■ DD22 - ■ ■ S1**	
	56	94	25.34	5 600	2.8	23	**2KJ4302 - ■ DD22 - ■ ■ R1**	
	61	86	23.39	5 600	3.0	23	**2KJ4302 - ■ DD22 - ■ ■ Q1**	
	FD.49-LHN80MD4E							
	8.8	595	161.5	4 200	0.8	33	**2KJ4403 - ■ DD22 - ■ ■ L1**	
	9.7	540	146.82	4 600	0.88	33	**2KJ4403 - ■ DD22 - ■ ■ K1**	
	11	475	128.6	5 100	1.0	33	**2KJ4403 - ■ DD22 - ■ ■ J1**	
	12	435	118.71	5 300	1.1	33	**2KJ4403 - ■ DD22 - ■ ■ H1**	
	14	385	105.1	5 600	1.2	33	**2KJ4403 - ■ DD22 - ■ ■ G1**	
	16	320	87.48	6 100	1.5	33	**2KJ4403 - ■ DD22 - ■ ■ F1**	
	17	305	82.33	6 200	1.6	33	**2KJ4403 - ■ DD22 - ■ ■ E1**	
	19	270	73.77	6 400	1.8	33	**2KJ4403 - ■ DD22 - ■ ■ D1**	
	23	230	62.81	6 700	2.1	33	**2KJ4403 - ■ DD22 - ■ ■ C1**	
	26	199	53.83	6 900	2.4	33	**2KJ4403 - ■ DD22 - ■ ■ B1**	
	FZ.49-LHN80MD4E							
	23	225	61.43	6 700	2.1	32	**2KJ4303 - ■ DD22 - ■ ■ X1**	
	25	205	55.85	6 900	2.3	32	**2KJ4303 - ■ DD22 - ■ ■ W1**	
	FD.69-LHN80MD4E							
	7.4	710	192.32	6 900	0.84	38	**2KJ4404 - ■ DD22 - ■ ■ M1**	
	8.4	625	170	7 400	0.95	38	**2KJ4404 - ■ DD22 - ■ ■ L1**	
	9.2	570	154.55	7 800	1.0	38	**2KJ4404 - ■ DD22 - ■ ■ K1**	
	10	500	135.37	8 200	1.2	38	**2KJ4404 - ■ DD22 - ■ ■ J1**	
	11	460	124.96	8 500	1.3	38	**2KJ4404 - ■ DD22 - ■ ■ H1**	
	13	405	110.63	8 800	1.5	38	**2KJ4404 - ■ DD22 - ■ ■ G1**	
	15	340	92.08	9 300	1.8	38	**2KJ4404 - ■ DD22 - ■ ■ F1**	
	16	320	86.67	9 400	1.9	38	**2KJ4404 - ■ DD22 - ■ ■ E1**	
	18	285	77.65	9 600	2.1	38	**2KJ4404 - ■ DD22 - ■ ■ D1**	
	FD.79-LHN80MD4E							
	4.4	1 200	324.62	11 200	0.83	45	**2KJ4405 - ■ DD22 - ■ ■ R1**	
	5.1	1 020	276.09	11 500	0.98	45	**2KJ4405 - ■ DD22 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**FD.79-LHN80MD4E**							
	5.7	925	250.99	11 700	1.1	45	**2KJ4405 - ■ DD22 - ■ ■ P1**	
	6.3	825	223.94	11 900	1.2	45	**2KJ4405 - ■ DD22 - ■ ■ N1**	
	7.1	740	200.8	12 000	1.3	45	**2KJ4405 - ■ DD22 - ■ ■ M1**	
	7.8	665	180.99	12 100	1.5	45	**2KJ4405 - ■ DD22 - ■ ■ L1**	
	8.5	615	167.07	12 200	1.6	45	**2KJ4405 - ■ DD22 - ■ ■ K1**	
	9.3	560	152.51	12 300	1.8	45	**2KJ4405 - ■ DD22 - ■ ■ J1**	
	11	465	126.54	12 500	2.1	45	**2KJ4405 - ■ DD22 - ■ ■ H1**	
	FD.89-LHN80MD4E							
	4.2	1 240	335.3	17 400	1.5	76	**2KJ4406 - ■ DD22 - ■ ■ S1**	
	4.7	1 120	304.82	17 400	1.6	76	**2KJ4406 - ■ DD22 - ■ ■ R1**	
	5.2	1 010	273.41	17 400	1.8	76	**2KJ4406 - ■ DD22 - ■ ■ Q1**	
	5.8	905	245.82	17 400	2.0	76	**2KJ4406 - ■ DD22 - ■ ■ P1**	
	FD.89-Z39-LHN71ME4							
	2.3	2 100	581	17 400	0.88	79	**2KJ4431 - ■ CF21 - ■ ■ D1**	
	2.7	1 790	494	17 400	1.0	79	**2KJ4431 - ■ CF21 - ■ ■ C1**	
	FD.89-Z39-LHN80MD4E							
	2.2	2 170	648	17 400	0.85	82	**2KJ4431 - ■ DD22 - ■ ■ E1**	
	2.4	1 950	581	17 400	0.95	82	**2KJ4431 - ■ DD22 - ■ ■ D1**	
	2.9	1 650	494	17 400	1.1	82	**2KJ4431 - ■ DD22 - ■ ■ C1**	
	3.3	1 420	424	17 400	1.3	82	**2KJ4431 - ■ DD22 - ■ ■ B1**	
	3.9	1 220	365	17 400	1.5	82	**2KJ4431 - ■ DD22 - ■ ■ A1**	
	FD.109-Z39-LHN71ME4							
	1.6	2 930	810	25 000	1.1	111	**2KJ4433 - ■ CF21 - ■ ■ F1**	
	1.7	2 760	763	25 000	1.1	111	**2KJ4433 - ■ CF21 - ■ ■ E1**	
	1.9	2 470	683	25 000	1.3	111	**2KJ4433 - ■ CF21 - ■ ■ D1**	
	2.3	2 110	582	25 000	1.5	111	**2KJ4433 - ■ CF21 - ■ ■ C1**	
	FD.129-Z49-LHN71ME4							
	1.4	3 310	913	37 500	1.5	186	**2KJ4435 - ■ CF21 - ■ ■ F1**	
	1.4	3 500	967	37 500	1.4	186	**2KJ4435 - ■ CF21 - ■ ■ G1**	
	1.7	2 810	777	37 500	1.7	186	**2KJ4435 - ■ CF21 - ■ ■ E1**	
	FD.149-Z49-LHN71ME4							
	0.56	8 490	2 342	65 000	0.94	273	**2KJ4437 - ■ CF21 - ■ ■ Q1**	
	0.6	7 990	2 204	65 000	1.0	273	**2KJ4437 - ■ CF21 - ■ ■ P1**	
	0.63	7 540	2 081	65 000	1.1	273	**2KJ4437 - ■ CF21 - ■ ■ N1**	
	0.74	6 420	1 771	65 000	1.2	273	**2KJ4437 - ■ CF21 - ■ ■ M1**	
	FD.169-Z69-LHN71ME4							
	0.3	15 800	4 379	73 500	0.86	431	**2KJ4440 - ■ CF21 - ■ ■ V1**	
	0.34	14 100	3 907	73 500	0.96	431	**2KJ4440 - ■ CF21 - ■ ■ U1**	
	0.38	12 700	3 503	73 500	1.1	431	**2KJ4440 - ■ CF21 - ■ ■ T1**	
	0.42	11 400	3 158	73 500	1.2	431	**2KJ4440 - ■ CF21 - ■ ■ S1**	
	0.45	10 500	2 915	73 500	1.3	431	**2KJ4440 - ■ CF21 - ■ ■ R1**	
	0.49	9 640	2 661	73 500	1.4	431	**2KJ4440 - ■ CF21 - ■ ■ Q1**	
	0.6	8 000	2 208	73 500	1.7	431	**2KJ4440 - ■ CF21 - ■ ■ P1**	
	0.63	7 530	2 078	73 500	1.8	431	**2KJ4440 - ■ CF21 - ■ ■ N1**	
	0.67	7 110	1 963	73 500	1.9	431	**2KJ4440 - ■ CF21 - ■ ■ M1**	
	FD.189-Z69-LHN71ME4							
	0.2	23 500	6 500	110 000	0.81	643	**2KJ4442 - ■ CF21 - ■ ■ B2**	
	0.24	20 000	5 529	110 900	0.95	643	**2KJ4442 - ■ CF21 - ■ ■ A2**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**FD.189-Z69-LHN71ME4**							
	0.26	18 200	5 026	110 900	1.0	643	**2KJ4442 - ■ CF21 - ■ ■ X1**	
	0.29	16 200	4 484	110 900	1.2	643	**2KJ4442 - ■ CF21 - ■ ■ W1**	
	0.33	14 500	4 021	110 900	1.3	643	**2KJ4442 - ■ CF21 - ■ ■ V1**	
	0.36	13 100	3 624	110 900	1.4	643	**2KJ4442 - ■ CF21 - ■ ■ U1**	
	0.39	12 100	3 345	110 900	1.6	643	**2KJ4442 - ■ CF21 - ■ ■ T1**	
	0.43	11 000	3 054	110 900	1.7	643	**2KJ4442 - ■ CF21 - ■ ■ S1**	
	FD.109-Z39-LHN80MD4E							
	1.2	3 830	1 141	25 000	0.81	115	**2KJ4433 - ■ DD22 - ■ ■ H1**	
	1.4	3 290	982	25 000	0.94	115	**2KJ4433 - ■ DD22 - ■ ■ G1**	
	1.8	2 720	810	25 000	1.1	115	**2KJ4433 - ■ DD22 - ■ ■ F1**	
	1.9	2 560	763	25 000	1.2	115	**2KJ4433 - ■ DD22 - ■ ■ E1**	
	2.1	2 290	683	25 000	1.4	115	**2KJ4433 - ■ DD22 - ■ ■ D1**	
	2.4	1 950	582	25 000	1.6	115	**2KJ4433 - ■ DD22 - ■ ■ C1**	
	2.8	1 670	499	25 000	1.9	115	**2KJ4433 - ■ DD22 - ■ ■ B1**	
	FD.129-Z49-LHN80MD4E							
	0.8	5 940	1 770	36 100	0.82	190	**2KJ4435 - ■ DD22 - ■ ■ M1**	
	0.94	5 090	1 516	36 900	0.95	190	**2KJ4435 - ■ DD22 - ■ ■ L1**	
	1.1	4 470	1 333	37 500	1.1	190	**2KJ4435 - ■ DD22 - ■ ■ K1**	
	1.3	3 770	1 125	37 500	1.3	190	**2KJ4435 - ■ DD22 - ■ ■ J1**	
	1.4	3 290	980	37 500	1.5	190	**2KJ4435 - ■ DD22 - ■ ■ H1**	
	1.5	3 240	967	37 500	1.5	190	**2KJ4435 - ■ DD22 - ■ ■ G1**	
	1.6	3 060	913	37 500	1.6	190	**2KJ4435 - ■ DD22 - ■ ■ F1**	
	1.8	2 600	777	37 500	1.9	190	**2KJ4435 - ■ DD22 - ■ ■ E1**	
	FD.149-Z49-LHN80MD4E							
	0.5	9 470	2 822	65 000	0.84	277	**2KJ4437 - ■ DD22 - ■ ■ R1**	
	0.61	7 860	2 342	65 000	1.0	277	**2KJ4437 - ■ DD22 - ■ ■ Q1**	
	0.64	7 400	2 204	65 000	1.1	277	**2KJ4437 - ■ DD22 - ■ ■ P1**	
	0.68	6 980	2 081	65 000	1.1	277	**2KJ4437 - ■ DD22 - ■ ■ N1**	
	0.8	5 940	1 771	65 000	1.3	277	**2KJ4437 - ■ DD22 - ■ ■ M1**	
	0.94	5 090	1 517	65 000	1.6	277	**2KJ4437 - ■ DD22 - ■ ■ L1**	
	1.1	4 470	1 334	65 000	1.8	277	**2KJ4437 - ■ DD22 - ■ ■ K1**	
	FD.169-Z69-LHN80MD4E							
	0.29	16 100	4 817	73 500	0.84	435	**2KJ4440 - ■ DD22 - ■ ■ W1**	
	0.32	14 700	4 379	73 500	0.92	435	**2KJ4440 - ■ DD22 - ■ ■ V1**	
	0.36	13 100	3 907	73 500	1.0	435	**2KJ4440 - ■ DD22 - ■ ■ U1**	
	0.41	11 700	3 503	73 500	1.2	435	**2KJ4440 - ■ DD22 - ■ ■ T1**	
	0.45	10 600	3 158	73 500	1.3	435	**2KJ4440 - ■ DD22 - ■ ■ S1**	
	0.49	9 780	2 915	73 500	1.4	435	**2KJ4440 - ■ DD22 - ■ ■ R1**	
	0.53	8 930	2 661	73 500	1.5	435	**2KJ4440 - ■ DD22 - ■ ■ Q1**	
	0.64	7 410	2 208	73 500	1.8	435	**2KJ4440 - ■ DD22 - ■ ■ P1**	
	0.68	6 970	2 078	73 500	1.9	435	**2KJ4440 - ■ DD22 - ■ ■ N1**	
	FD.189-Z69-LHN80MD4E							
	0.22	21 800	6 500	110 900	0.87	647	**2KJ4442 - ■ DD22 - ■ ■ B2**	
	0.26	18 500	5 529	110 900	1.0	647	**2KJ4442 - ■ DD22 - ■ ■ A2**	
	0.28	16 800	5 026	110 900	1.1	647	**2KJ4442 - ■ DD22 - ■ ■ X1**	
	0.32	15 000	4 484	110 900	1.3	647	**2KJ4442 - ■ DD22 - ■ ■ W1**	
	0.35	13 500	4 021	110 900	1.4	647	**2KJ4442 - ■ DD22 - ■ ■ V1**	
	0.39	12 100	3 624	110 900	1.6	647	**2KJ4442 - ■ DD22 - ■ ■ U1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**FD.189-Z69-LHN80MD4E**							
	0.42	11 200	3 345	110 900	1.7	647	**2KJ4442 - ■ DD22 - ■ ■ T1**	
	0.46	10 200	3 054	110 900	1.9	647	**2KJ4442 - ■ DD22 - ■ ■ S1**	
0.75	**FZ.29-LHN80MG4E**							
	42	172	34.04	4 600	0.87	23	**2KJ4301 - ■ DF22 - ■ ■ W1**	
	46	156	30.95	4 600	0.96	23	**2KJ4301 - ■ DF22 - ■ ■ V1**	
	52	137	27.13	4 400	1.1	23	**2KJ4301 - ■ DF22 - ■ ■ U1**	
	59	122	24.22	4 300	1.2	23	**2KJ4301 - ■ DF22 - ■ ■ T1**	
	66	109	21.58	4 200	1.4	23	**2KJ4301 - ■ DF22 - ■ ■ S1**	
	71	100	19.92	4 100	1.5	23	**2KJ4301 - ■ DF22 - ■ ■ R1**	
	81	88	17.44	4 000	1.7	23	**2KJ4301 - ■ DF22 - ■ ■ Q1**	
	93	77	15.29	3 900	1.9	23	**2KJ4301 - ■ DF22 - ■ ■ P1**	
	102	70	13.88	3 800	2.1	23	**2KJ4301 - ■ DF22 - ■ ■ N1**	
	109	66	13.06	3 700	2.3	23	**2KJ4301 - ■ DF22 - ■ ■ M1**	
	123	58	11.51	3 600	2.5	23	**2KJ4301 - ■ DF22 - ■ ■ L1**	
	142	50	9.99	3 500	2.7	23	**2KJ4301 - ■ DF22 - ■ ■ K1**	
	147	49	9.69	3 400	2.9	23	**2KJ4301 - ■ DF22 - ■ ■ J1**	
	165	44	8.63	3 300	3.0	23	**2KJ4301 - ■ DF22 - ■ ■ H1**	
	178	40	7.97	3 200	3.0	23	**2KJ4301 - ■ DF22 - ■ ■ G1**	
	203	35	6.98	3 100	3.5	23	**2KJ4301 - ■ DF22 - ■ ■ F1**	
	232	31	6.12	3 000	3.7	23	**2KJ4301 - ■ DF22 - ■ ■ E1**	
	256	28	5.55	2 900	3.9	23	**2KJ4301 - ■ DF22 - ■ ■ D1**	
	272	26	5.22	2 800	4.0	23	**2KJ4301 - ■ DF22 - ■ ■ C1**	
	309	23	4.60	2 700	4.2	23	**2KJ4301 - ■ DF22 - ■ ■ B1**	
	355	20	4.00	2 600	4.5	23	**2KJ4301 - ■ DF22 - ■ ■ A1**	
	FD.39-LHN80MG4E							
	21	335	67.07	5 000	0.86	30	**2KJ4402 - ■ DF22 - ■ ■ D1**	
	22	315	63.13	5 100	0.91	30	**2KJ4402 - ■ DF22 - ■ ■ C1**	
	26	280	55.65	5 200	1.0	30	**2KJ4402 - ■ DF22 - ■ ■ B1**	
	29	240	48.29	5 300	1.2	30	**2KJ4402 - ■ DF22 - ■ ■ A1**	
	FZ.39-LHN80MG4E							
	28	255	50.91	5 200	0.93	30	**2KJ4302 - ■ DF22 - ■ ■ X1**	
	31	230	46.29	5 300	1.1	30	**2KJ4302 - ■ DF22 - ■ ■ W1**	
	36	200	39.6	5 400	1.5	30	**2KJ4302 - ■ DF22 - ■ ■ V1**	
	39	182	36	5 400	1.4	30	**2KJ4302 - ■ DF22 - ■ ■ U1**	
	45	161	31.82	5 500	1.8	30	**2KJ4302 - ■ DF22 - ■ ■ T1**	
	49	146	28.93	5 500	1.9	30	**2KJ4302 - ■ DF22 - ■ ■ S1**	
	56	128	25.34	5 600	2.1	30	**2KJ4302 - ■ DF22 - ■ ■ R1**	
	61	118	23.39	5 600	2.2	30	**2KJ4302 - ■ DF22 - ■ ■ Q1**	
	69	104	20.71	5 500	2.4	30	**2KJ4302 - ■ DF22 - ■ ■ P1**	
	82	87	17.24	5 300	2.7	30	**2KJ4302 - ■ DF22 - ■ ■ N1**	
	88	82	16.22	5 200	2.8	30	**2KJ4302 - ■ DF22 - ■ ■ M1**	
	98	73	14.54	5 000	3.0	30	**2KJ4302 - ■ DF22 - ■ ■ L1**	
	115	62	12.38	4 800	3.4	30	**2KJ4302 - ■ DF22 - ■ ■ K1**	
	134	54	10.61	4 600	3.7	30	**2KJ4302 - ■ DF22 - ■ ■ J1**	
	175	41	8.10	4 200	4.1	30	**2KJ4302 - ■ DF22 - ■ ■ G1**	
	211	34	6.74	4 000	4.5	30	**2KJ4302 - ■ DF22 - ■ ■ F1**	
	FD.49-LHN80MG4E							
	12	595	118.71	5 300	0.8	40	**2KJ4403 - ■ DF22 - ■ ■ H1**	

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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**FD.49-LHN80MG4E**							
	14	530	105.1	5 600	0.91	40	**2KJ4403 - ■ DF22 - ■ ■ G1**	
	16	440	87.48	6 100	1.1	40	**2KJ4403 - ■ DF22 - ■ ■ F1**	
	17	415	82.33	6 200	1.2	40	**2KJ4403 - ■ DF22 - ■ ■ E1**	
	19	370	73.77	6 400	1.3	40	**2KJ4403 - ■ DF22 - ■ ■ D1**	
	23	315	62.81	6 700	1.5	40	**2KJ4403 - ■ DF22 - ■ ■ C1**	
	26	270	53.83	6 900	1.8	40	**2KJ4403 - ■ DF22 - ■ ■ B1**	
	31	230	46.36	7 100	2.1	40	**2KJ4403 - ■ DF22 - ■ ■ A1**	
	FZ.49-LHN80MG4E							
	23	310	61.43	6 700	1.5	39	**2KJ4303 - ■ DF22 - ■ ■ X1**	
	25	280	55.85	6 900	1.7	39	**2KJ4303 - ■ DF22 - ■ ■ W1**	
	30	240	47.5	7 100	2.0	39	**2KJ4303 - ■ DF22 - ■ ■ V1**	
	33	215	43.18	7 200	2.2	39	**2KJ4303 - ■ DF22 - ■ ■ U1**	
	37	194	38.53	7 100	2.5	39	**2KJ4303 - ■ DF22 - ■ ■ T1**	
	FD.69-LHN80MG4E							
	10	680	135.37	8 200	0.88	45	**2KJ4404 - ■ DF22 - ■ ■ J1**	
	11	630	124.96	8 500	0.95	45	**2KJ4404 - ■ DF22 - ■ ■ H1**	
	13	555	110.63	8 800	1.1	45	**2KJ4404 - ■ DF22 - ■ ■ G1**	
	15	460	92.08	9 300	1.3	45	**2KJ4404 - ■ DF22 - ■ ■ F1**	
	16	435	86.67	9 400	1.4	45	**2KJ4404 - ■ DF22 - ■ ■ E1**	
	18	390	77.65	9 600	1.5	45	**2KJ4404 - ■ DF22 - ■ ■ D1**	
	21	330	66.11	9 900	1.8	45	**2KJ4404 - ■ DF22 - ■ ■ C1**	
	25	285	56.67	10 000	2.1	45	**2KJ4404 - ■ DF22 - ■ ■ B1**	
	29	245	48.8	10 100	2.4	45	**2KJ4404 - ■ DF22 - ■ ■ A1**	
	FZ.69-LHN80MG4E							
	22	325	64.67	9 900	1.8	44	**2KJ4304 - ■ DF22 - ■ ■ X1**	
	24	295	58.79	10 000	2.0	44	**2KJ4304 - ■ DF22 - ■ ■ W1**	
	28	250	50	10 100	2.4	44	**2KJ4304 - ■ DF22 - ■ ■ V1**	
	FD.79-LHN80MG4E							
	6.3	1 130	223.94	11 900	0.89	52	**2KJ4405 - ■ DF22 - ■ ■ N1**	
	7.1	1 010	200.8	12 000	0.99	52	**2KJ4405 - ■ DF22 - ■ ■ M1**	
	7.8	910	180.99	12 100	1.1	52	**2KJ4405 - ■ DF22 - ■ ■ L1**	
	8.5	840	167.07	12 200	1.2	52	**2KJ4405 - ■ DF22 - ■ ■ K1**	
	9.3	765	152.51	12 300	1.3	52	**2KJ4405 - ■ DF22 - ■ ■ J1**	
	11	635	126.54	12 500	1.6	52	**2KJ4405 - ■ DF22 - ■ ■ H1**	
	12	600	119.1	12 500	1.7	52	**2KJ4405 - ■ DF22 - ■ ■ G1**	
	13	565	112.48	12 600	1.8	52	**2KJ4405 - ■ DF22 - ■ ■ F1**	
	15	480	95.71	12 700	2.1	52	**2KJ4405 - ■ DF22 - ■ ■ E1**	
	FD.89-LHN80MG4E							
	4.2	1 690	335.3	17 400	1.1	83	**2KJ4406 - ■ DF22 - ■ ■ S1**	
	4.7	1 530	304.82	17 400	1.2	83	**2KJ4406 - ■ DF22 - ■ ■ R1**	
	5.2	1 370	273.41	17 400	1.3	83	**2KJ4406 - ■ DF22 - ■ ■ Q1**	
	5.8	1 240	245.82	17 400	1.5	83	**2KJ4406 - ■ DF22 - ■ ■ P1**	
	6.4	1 120	222.33	17 400	1.6	83	**2KJ4406 - ■ DF22 - ■ ■ N1**	
	6.9	1 030	205.23	17 400	1.8	83	**2KJ4406 - ■ DF22 - ■ ■ M1**	
	7.6	945	188	17 400	2.0	83	**2KJ4406 - ■ DF22 - ■ ■ L1**	
	FD.89-Z39-LHN80MG4E							
	2.9	2 290	494	17 400	0.81	89	**2KJ4431 - ■ DF22 - ■ ■ C1**	
	3.3	1 960	424	17 400	0.94	89	**2KJ4431 - ■ DF22 - ■ ■ B1**	
	3.9	1 690	365	17 400	1.1	89	**2KJ4431 - ■ DF22 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**FD.109-Z39-LHN80MG4E**							
	1.8	3 750	810	25 000	0.83	121	**2KJ4433 - ■ DF22 - ■ ■ F1**	
	1.9	3 530	763	25 000	0.88	121	**2KJ4433 - ■ DF22 - ■ ■ E1**	
	2.1	3 160	683	25 000	0.98	121	**2KJ4433 - ■ DF22 - ■ ■ D1**	
	2.4	2 690	582	25 000	1.1	121	**2KJ4433 - ■ DF22 - ■ ■ C1**	
	2.8	2 310	499	25 000	1.3	121	**2KJ4433 - ■ DF22 - ■ ■ B1**	
	3.3	1 980	429	25 000	1.6	121	**2KJ4433 - ■ DF22 - ■ ■ A1**	
	FD.129-Z49-LHN80MG4E							
	1.3	5 210	1 125	25 000	0.93	197	**2KJ4435 - ■ DF22 - ■ ■ J1**	
	1.4	4 540	980	25 000	1.1	197	**2KJ4435 - ■ DF22 - ■ ■ H1**	
	1.5	4 480	967	37 500	1.1	197	**2KJ4435 - ■ DF22 - ■ ■ G1**	
	1.6	4 230	913	37 500	1.1	197	**2KJ4435 - ■ DF22 - ■ ■ F1**	
	1.8	3 600	777	37 500	1.3	197	**2KJ4435 - ■ DF22 - ■ ■ E1**	
	2.1	3 080	666	37 500	1.6	197	**2KJ4435 - ■ DF22 - ■ ■ D1**	
	2.4	2 710	585	37 500	1.8	197	**2KJ4435 - ■ DF22 - ■ ■ C1**	
	FD.149-Z49-LHN80MG4E							
	0.68	9 640	2 081	65 000	0.83	284	**2KJ4437 - ■ DF22 - ■ ■ N1**	
	0.8	8 210	1 771	65 000	0.97	284	**2KJ4437 - ■ DF22 - ■ ■ M1**	
	0.94	7 030	1 517	65 000	1.1	284	**2KJ4437 - ■ DF22 - ■ ■ L1**	
	1.1	6 180	1 334	36 700	1.3	284	**2KJ4437 - ■ DF22 - ■ ■ K1**	
	1.3	5 210	1 125	37 400	1.5	284	**2KJ4437 - ■ DF22 - ■ ■ J1**	
	1.4	4 540	981	37 500	1.8	284	**2KJ4437 - ■ DF22 - ■ ■ H1**	
	1.5	4 480	968	37 500	1.8	284	**2KJ4437 - ■ DF22 - ■ ■ G1**	
	1.6	4 230	914	37 500	1.9	284	**2KJ4437 - ■ DF22 - ■ ■ F1**	
	FD.169-Z69-LHN80MG4E							
	0.41	16 200	3 503	73 500	0.84	442	**2KJ4440 - ■ DF22 - ■ ■ T1**	
	0.45	14 600	3 158	73 500	0.93	442	**2KJ4440 - ■ DF22 - ■ ■ S1**	
	0.49	13 500	2 915	73 500	1.0	442	**2KJ4440 - ■ DF22 - ■ ■ R1**	
	0.53	12 300	2 661	73 500	1.1	442	**2KJ4440 - ■ DF22 - ■ ■ Q1**	
	0.64	10 200	2 208	65 000	1.3	442	**2KJ4440 - ■ DF22 - ■ ■ P1**	
	0.68	9 630	2 078	65 000	1.4	442	**2KJ4440 - ■ DF22 - ■ ■ N1**	
	0.72	9 100	1 963	65 000	1.5	442	**2KJ4440 - ■ DF22 - ■ ■ M1**	
	0.85	7 740	1 670	65 000	1.8	442	**2KJ4440 - ■ DF22 - ■ ■ L1**	
	0.99	6 630	1 431	65 000	2.0	442	**2KJ4440 - ■ DF22 - ■ ■ K1**	
	FD.189-Z69-LHN80MG4E							
	0.28	23 300	5 026	110 100	0.82	653	**2KJ4442 - ■ DF22 - ■ ■ X1**	
	0.32	20 700	4 484	110 900	0.91	653	**2KJ4442 - ■ DF22 - ■ ■ W1**	
	0.35	18 600	4 021	110 900	1.0	653	**2KJ4442 - ■ DF22 - ■ ■ V1**	
	0.39	16 800	3 624	110 900	1.1	653	**2KJ4442 - ■ DF22 - ■ ■ U1**	
	0.42	15 500	3 345	110 900	1.2	653	**2KJ4442 - ■ DF22 - ■ ■ T1**	
	0.46	14 100	3 054	110 900	1.3	653	**2KJ4442 - ■ DF22 - ■ ■ S1**	
	0.56	11 700	2 534	73 500	1.6	653	**2KJ4442 - ■ DF22 - ■ ■ R1**	
	0.6	11 000	2 385	73 500	1.7	653	**2KJ4442 - ■ DF22 - ■ ■ Q1**	
	0.63	10 400	2 252	73 500	1.8	653	**2KJ4442 - ■ DF22 - ■ ■ P1**	
1.1	**FZ.29-LHN90SH4E**							
	59	179	24.22	4 300	0.84	31	**2KJ4301 - ■ EL22 - ■ ■ T1**	
	66	160	21.58	4 200	0.94	31	**2KJ4301 - ■ EL22 - ■ ■ S1**	
	71	147	19.92	4 100	1.0	31	**2KJ4301 - ■ EL22 - ■ ■ R1**	
	81	129	17.44	4 000	1.2	31	**2KJ4301 - ■ EL22 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**FZ.29-LHN90SH4E**							
	93	113	15.29	3 900	1.3	31	**2KJ4301 - ■ EL22 - ■ ■ P1**	
	102	103	13.88	3 800	1.5	31	**2KJ4301 - ■ EL22 - ■ ■ N1**	
	109	97	13.06	3 700	1.6	31	**2KJ4301 - ■ EL22 - ■ ■ M1**	
	123	85	11.51	3 600	1.7	31	**2KJ4301 - ■ EL22 - ■ ■ L1**	
	142	74	9.99	3 500	1.8	31	**2KJ4301 - ■ EL22 - ■ ■ K1**	
	147	72	9.69	3 400	2.0	31	**2KJ4301 - ■ EL22 - ■ ■ J1**	
	165	64	8.63	3 300	2.0	31	**2KJ4301 - ■ EL22 - ■ ■ H1**	
	178	59	7.97	3 200	2.0	31	**2KJ4301 - ■ EL22 - ■ ■ G1**	
	203	52	6.98	3 100	2.4	31	**2KJ4301 - ■ EL22 - ■ ■ F1**	
	232	45	6.12	3 000	2.5	31	**2KJ4301 - ■ EL22 - ■ ■ E1**	
	256	41	5.55	2 900	2.6	31	**2KJ4301 - ■ EL22 - ■ ■ D1**	
	272	39	5.22	2 800	2.7	31	**2KJ4301 - ■ EL22 - ■ ■ C1**	
	309	34	4.60	2 700	2.9	31	**2KJ4301 - ■ EL22 - ■ ■ B1**	
	355	30	4.00	2 600	3.1	31	**2KJ4301 - ■ EL22 - ■ ■ A1**	
	FD.39-LHN90SH4E							
	29	355	48.29	5 300	0.81	38	**2KJ4402 - ■ EL22 - ■ ■ A1**	
	FZ.39-LHN90SH4E							
	36	290	39.6	5 400	0.99	37	**2KJ4302 - ■ EL22 - ■ ■ V1**	
	39	265	36	5 400	0.96	37	**2KJ4302 - ■ EL22 - ■ ■ U1**	
	45	235	31.82	5 500	1.2	37	**2KJ4302 - ■ EL22 - ■ ■ T1**	
	49	210	28.93	5 500	1.3	37	**2KJ4302 - ■ EL22 - ■ ■ S1**	
	56	187	25.34	5 600	1.4	37	**2KJ4302 - ■ EL22 - ■ ■ R1**	
	61	173	23.39	5 600	1.5	37	**2KJ4302 - ■ EL22 - ■ ■ Q1**	
	69	153	20.71	5 500	1.6	37	**2KJ4302 - ■ EL22 - ■ ■ P1**	
	82	128	17.24	5 300	1.8	37	**2KJ4302 - ■ EL22 - ■ ■ N1**	
	88	120	16.22	5 200	1.9	37	**2KJ4302 - ■ EL22 - ■ ■ M1**	
	98	108	14.54	5 000	2.0	37	**2KJ4302 - ■ EL22 - ■ ■ L1**	
	115	92	12.38	4 800	2.3	37	**2KJ4302 - ■ EL22 - ■ ■ K1**	
	134	78	10.61	4 600	2.5	37	**2KJ4302 - ■ EL22 - ■ ■ J1**	
	156	68	9.13	4 400	2.8	37	**2KJ4302 - ■ EL22 - ■ ■ H1**	
	175	60	8.10	4 200	2.8	37	**2KJ4302 - ■ EL22 - ■ ■ G1**	
	211	50	6.74	4 000	3.0	37	**2KJ4302 - ■ EL22 - ■ ■ F1**	
	224	47	6.35	3 900	3.2	37	**2KJ4302 - ■ EL22 - ■ ■ E1**	
	250	42	5.69	3 800	3.3	37	**2KJ4302 - ■ EL22 - ■ ■ D1**	
	293	36	4.84	3 600	3.6	37	**2KJ4302 - ■ EL22 - ■ ■ C1**	
	342	31	4.15	3 400	3.8	37	**2KJ4302 - ■ EL22 - ■ ■ B1**	
	398	26	3.57	3 300	4.1	37	**2KJ4302 - ■ EL22 - ■ ■ A1**	
	FD.49-LHN90SH4E							
	19	545	73.77	6 400	0.88	45	**2KJ4403 - ■ EL22 - ■ ■ D1**	
	23	465	62.81	6 700	1.0	45	**2KJ4403 - ■ EL22 - ■ ■ C1**	
	26	395	53.83	6 900	1.2	45	**2KJ4403 - ■ EL22 - ■ ■ B1**	
	31	340	46.36	7 100	1.4	45	**2KJ4403 - ■ EL22 - ■ ■ A1**	
	FZ.49-LHN90SH4E							
	23	450	61.43	6 700	1.1	45	**2KJ4303 - ■ EL22 - ■ ■ X1**	
	25	410	55.85	6 900	1.2	45	**2KJ4303 - ■ EL22 - ■ ■ W1**	
	30	350	47.5	7 100	1.4	45	**2KJ4303 - ■ EL22 - ■ ■ V1**	
	33	315	43.18	7 200	1.5	45	**2KJ4303 - ■ EL22 - ■ ■ U1**	
	37	285	38.53	7 100	1.7	45	**2KJ4303 - ■ EL22 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**FZ.49-LHN90SH4E**							
	41	255	34.55	6 900	1.9	45	**2KJ4303 - ■ EL22 - ■ ■ S1**	
	46	230	31.14	6 700	2.1	45	**2KJ4303 - ■ EL22 - ■ ■ R1**	
	49	210	28.74	6 600	2.3	45	**2KJ4303 - ■ EL22 - ■ ■ Q1**	
	54	194	26.24	6 400	2.5	45	**2KJ4303 - ■ EL22 - ■ ■ P1**	
	65	161	21.77	6 100	3.0	45	**2KJ4303 - ■ EL22 - ■ ■ N1**	
	FD.69-LHN90SH4E							
	15	680	92.08	9 300	0.88	50	**2KJ4404 - ■ EL22 - ■ ■ F1**	
	16	640	86.67	9 400	0.94	50	**2KJ4404 - ■ EL22 - ■ ■ E1**	
	18	570	77.65	9 600	1.0	50	**2KJ4404 - ■ EL22 - ■ ■ D1**	
	21	485	66.11	9 900	1.2	50	**2KJ4404 - ■ EL22 - ■ ■ C1**	
	25	415	56.67	10 000	1.4	50	**2KJ4404 - ■ EL22 - ■ ■ B1**	
	29	360	48.8	10 100	1.7	50	**2KJ4404 - ■ EL22 - ■ ■ A1**	
	FZ.69-LHN90SH4E							
	22	475	64.67	9 900	1.3	50	**2KJ4304 - ■ EL22 - ■ ■ X1**	
	24	435	58.79	10 000	1.4	50	**2KJ4304 - ■ EL22 - ■ ■ W1**	
	28	370	50	10 100	1.6	50	**2KJ4304 - ■ EL22 - ■ ■ V1**	
	31	335	45.45	10 100	1.8	50	**2KJ4304 - ■ EL22 - ■ ■ U1**	
	35	300	40.56	10 200	2.0	50	**2KJ4304 - ■ EL22 - ■ ■ T1**	
	39	265	36.36	10 200	2.2	50	**2KJ4304 - ■ EL22 - ■ ■ S1**	
	43	240	32.78	9 900	2.5	50	**2KJ4304 - ■ EL22 - ■ ■ R1**	
	47	220	30.26	9 700	2.7	50	**2KJ4304 - ■ EL22 - ■ ■ Q1**	
	FD.79-LHN90SH4E							
	8.5	1 230	167.07	12 200	0.81	59	**2KJ4405 - ■ EL22 - ■ ■ K1**	
	9.3	1 120	152.51	12 300	0.89	59	**2KJ4405 - ■ EL22 - ■ ■ J1**	
	11	935	126.54	12 500	1.1	59	**2KJ4405 - ■ EL22 - ■ ■ H1**	
	12	880	119.1	12 500	1.1	59	**2KJ4405 - ■ EL22 - ■ ■ G1**	
	13	830	112.48	12 600	1.2	59	**2KJ4405 - ■ EL22 - ■ ■ F1**	
	15	705	95.71	12 700	1.4	59	**2KJ4405 - ■ EL22 - ■ ■ E1**	
	17	605	81.99	12 800	1.6	59	**2KJ4405 - ■ EL22 - ■ ■ D1**	
	20	530	72.09	12 900	1.9	59	**2KJ4405 - ■ EL22 - ■ ■ C1**	
	23	450	60.82	12 900	2.2	59	**2KJ4405 - ■ EL22 - ■ ■ B1**	
	27	390	53.01	13 000	2.5	59	**2KJ4405 - ■ EL22 - ■ ■ A1**	
	FZ.79-LHN90SH4E							
	27	395	53.55	13 000	2.5	58	**2KJ4305 - ■ EL22 - ■ ■ X1**	
	FD.89-LHN90SH4E							
	4.7	2 250	304.82	17 400	0.82	91	**2KJ4406 - ■ EL22 - ■ ■ R1**	
	5.2	2 020	273.41	17 400	0.91	91	**2KJ4406 - ■ EL22 - ■ ■ Q1**	
	5.8	1 810	245.82	17 400	1.0	91	**2KJ4406 - ■ EL22 - ■ ■ P1**	
	6.4	1 640	222.33	17 400	1.1	91	**2KJ4406 - ■ EL22 - ■ ■ N1**	
	6.9	1 510	205.23	17 400	1.2	91	**2KJ4406 - ■ EL22 - ■ ■ M1**	
	7.6	1 390	188	17 400	1.3	91	**2KJ4406 - ■ EL22 - ■ ■ L1**	
	9.0	1 160	157.74	17 400	1.6	91	**2KJ4406 - ■ EL22 - ■ ■ K1**	
	9.6	1 090	148.46	17 400	1.7	91	**2KJ4406 - ■ EL22 - ■ ■ J1**	
	10	1 000	136.21	17 400	1.8	91	**2KJ4406 - ■ EL22 - ■ ■ H1**	
	12	880	118.98	17 400	2.1	91	**2KJ4406 - ■ EL22 - ■ ■ G1**	
	FD.109-LHN90SH4E							
	3.5	3 030	410	25 000	1.0	131	**2KJ4407 - ■ EL22 - ■ ■ T1**	
	3.8	2 730	370	25 000	1.1	131	**2KJ4407 - ■ EL22 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**FD.109-LHN90SH4E**							
	4.2	2 480	335.7	25 000	1.2	131	**2KJ4407 - ■ EL22 - ■ ■ R1**	
	4.6	2 290	309.87	25 000	1.4	131	**2KJ4407 - ■ EL22 - ■ ■ Q1**	
	5.0	2 080	281.68	25 000	1.5	131	**2KJ4407 - ■ EL22 - ■ ■ P1**	
	6.0	1 760	238.52	25 000	1.8	131	**2KJ4407 - ■ EL22 - ■ ■ N1**	
	6.3	1 660	224.49	25 000	1.9	131	**2KJ4407 - ■ EL22 - ■ ■ M1**	
	6.8	1 530	207.31	25 000	2.0	131	**2KJ4407 - ■ EL22 - ■ ■ L1**	
	FD.129-LHN90SH4E							
	3.4	3 050	413	34 600	1.6	184	**2KJ4408 - ■ EL22 - ■ ■ T1**	
	3.7	2 810	381	34 700	1.7	184	**2KJ4408 - ■ EL22 - ■ ■ S1**	
	4.0	2 590	351	34 800	1.9	184	**2KJ4408 - ■ EL22 - ■ ■ R1**	
	FD.109-Z39-LHN90SH4E							
	2.8	3 430	499	25 000	0.9	129	**2KJ4433 - ■ EL22 - ■ ■ B1**	
	3.3	2 950	429	25 000	1.1	129	**2KJ4433 - ■ EL22 - ■ ■ A1**	
	FD.129-Z49-LHN90SH4E							
	1.8	5 340	777	36 700	0.91	203	**2KJ4435 - ■ EL22 - ■ ■ E1**	
	2.1	4 570	666	37 400	1.1	203	**2KJ4435 - ■ EL22 - ■ ■ D1**	
	2.4	4 020	585	37 500	1.2	203	**2KJ4435 - ■ EL22 - ■ ■ C1**	
	2.9	3 390	494	37 500	1.4	203	**2KJ4435 - ■ EL22 - ■ ■ B1**	
	3.3	2 950	430	37 500	1.6	203	**2KJ4435 - ■ EL22 - ■ ■ A1**	
	FD.149-Z49-LHN90SH4E							
	1.1	9 170	1 334	65 000	0.87	290	**2KJ4437 - ■ EL22 - ■ ■ K1**	
	1.3	7 730	1 125	65 000	1.0	290	**2KJ4437 - ■ EL22 - ■ ■ J1**	
	1.4	6 740	981	65 000	1.2	290	**2KJ4437 - ■ EL22 - ■ ■ H1**	
	1.5	6 650	968	65 000	1.2	290	**2KJ4437 - ■ EL22 - ■ ■ G1**	
	1.6	6 280	914	65 000	1.3	290	**2KJ4437 - ■ EL22 - ■ ■ F1**	
	1.8	5 340	778	65 000	1.5	290	**2KJ4437 - ■ EL22 - ■ ■ E1**	
	2.1	4 570	666	65 000	1.7	290	**2KJ4437 - ■ EL22 - ■ ■ D1**	
	2.4	4 020	586	65 000	2.0	290	**2KJ4437 - ■ EL22 - ■ ■ C1**	
	FD.169-Z69-LHN90SH4E							
	0.64	15 100	2 208	65 000	0.9	447	**2KJ4440 - ■ EL22 - ■ ■ P1**	
	0.68	14 200	2 078	36 500	0.95	447	**2KJ4440 - ■ EL22 - ■ ■ N1**	
	0.72	13 400	1 963	37 300	1.0	447	**2KJ4440 - ■ EL22 - ■ ■ M1**	
	0.85	11 400	1 670	37 500	1.2	447	**2KJ4440 - ■ EL22 - ■ ■ L1**	
	0.99	9 830	1 431	73 500	1.4	447	**2KJ4440 - ■ EL22 - ■ ■ K1**	
	1.1	8 640	1 258	73 500	1.6	447	**2KJ4440 - ■ EL22 - ■ ■ J1**	
	1.3	7 290	1 061	73 500	1.9	447	**2KJ4440 - ■ EL22 - ■ ■ H1**	
	FD.189-Z69-LHN90SH4E							
	0.42	22 900	3 345	73 500	0.83	659	**2KJ4442 - ■ EL22 - ■ ■ T1**	
	0.46	20 900	3 054	65 000	0.9	659	**2KJ4442 - ■ EL22 - ■ ■ S1**	
	0.56	17 400	2 534	65 000	1.1	659	**2KJ4442 - ■ EL22 - ■ ■ R1**	
	0.6	16 300	2 385	65 000	1.2	659	**2KJ4442 - ■ EL22 - ■ ■ Q1**	
	0.63	15 400	2 252	65 000	1.2	659	**2KJ4442 - ■ EL22 - ■ ■ P1**	
	0.74	13 100	1 917	65 000	1.4	659	**2KJ4442 - ■ EL22 - ■ ■ N1**	
	0.86	11 200	1 642	65 000	1.7	659	**2KJ4442 - ■ EL22 - ■ ■ M1**	
	0.98	9 920	1 444	65 000	1.9	659	**2KJ4442 - ■ EL22 - ■ ■ L1**	
1.5	**FZ.29-LHN90LJ4E**							
	81	176	17.44	4 000	0.85	32	**2KJ4301 - ■ EP22 - ■ ■ Q1**	
	93	154	15.29	3 900	0.97	32	**2KJ4301 - ■ EP22 - ■ ■ P1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**FZ.29-LHN90LJ4E**							
	102	140	13.88	3 800	1.1	32	**2KJ4301 - ■ EP22 - ■ ■ N1**	
	109	132	13.06	3 700	1.1	32	**2KJ4301 - ■ EP22 - ■ ■ M1**	
	123	116	11.51	3 600	1.2	32	**2KJ4301 - ■ EP22 - ■ ■ L1**	
	142	101	9.99	3 500	1.3	32	**2KJ4301 - ■ EP22 - ■ ■ K1**	
	147	98	9.69	3 400	1.5	32	**2KJ4301 - ■ EP22 - ■ ■ J1**	
	165	87	8.63	3 300	1.5	32	**2KJ4301 - ■ EP22 - ■ ■ H1**	
	178	80	7.97	3 200	1.5	32	**2KJ4301 - ■ EP22 - ■ ■ G1**	
	203	70	6.98	3 100	1.7	32	**2KJ4301 - ■ EP22 - ■ ■ F1**	
	232	62	6.12	3 000	1.8	32	**2KJ4301 - ■ EP22 - ■ ■ E1**	
	256	56	5.55	2 900	1.9	32	**2KJ4301 - ■ EP22 - ■ ■ D1**	
	272	53	5.22	2 800	2.0	32	**2KJ4301 - ■ EP22 - ■ ■ C1**	
	309	46	4.60	2 700	2.1	32	**2KJ4301 - ■ EP22 - ■ ■ B1**	
	355	40	4.00	2 600	2.3	32	**2KJ4301 - ■ EP22 - ■ ■ A1**	
	FZ.39-LHN90LJ4E							
	45	320	31.82	5 500	0.89	38	**2KJ4302 - ■ EP22 - ■ ■ T1**	
	49	290	28.93	5 500	0.94	38	**2KJ4302 - ■ EP22 - ■ ■ S1**	
	56	255	25.34	5 600	1.0	38	**2KJ4302 - ■ EP22 - ■ ■ R1**	
	61	235	23.39	5 600	1.1	38	**2KJ4302 - ■ EP22 - ■ ■ Q1**	
	69	205	20.71	5 500	1.2	38	**2KJ4302 - ■ EP22 - ■ ■ P1**	
	82	174	17.24	5 300	1.4	38	**2KJ4302 - ■ EP22 - ■ ■ N1**	
	88	164	16.22	5 200	1.4	38	**2KJ4302 - ■ EP22 - ■ ■ M1**	
	98	147	14.54	5 000	1.5	38	**2KJ4302 - ■ EP22 - ■ ■ L1**	
	115	125	12.38	4 800	1.7	38	**2KJ4302 - ■ EP22 - ■ ■ K1**	
	134	107	10.61	4 600	1.9	38	**2KJ4302 - ■ EP22 - ■ ■ J1**	
	156	92	9.13	4 400	2.1	38	**2KJ4302 - ■ EP22 - ■ ■ H1**	
	175	82	8.10	4 200	2.0	38	**2KJ4302 - ■ EP22 - ■ ■ G1**	
	211	68	6.74	4 000	2.2	38	**2KJ4302 - ■ EP22 - ■ ■ F1**	
	224	64	6.35	3 900	2.3	38	**2KJ4302 - ■ EP22 - ■ ■ E1**	
	250	57	5.69	3 800	2.4	38	**2KJ4302 - ■ EP22 - ■ ■ D1**	
	293	49	4.84	3 600	2.6	38	**2KJ4302 - ■ EP22 - ■ ■ C1**	
	342	42	4.15	3 400	2.8	38	**2KJ4302 - ■ EP22 - ■ ■ B1**	
	398	36	3.57	3 300	3.0	38	**2KJ4302 - ■ EP22 - ■ ■ A1**	
	FD.49-LHN90LJ4E							
	26	540	53.83	6 900	0.88	46	**2KJ4403 - ■ EP22 - ■ ■ B1**	
	31	465	46.36	7 100	1.0	46	**2KJ4403 - ■ EP22 - ■ ■ A1**	
	FZ.49-LHN90LJ4E							
	25	560	55.85	6 900	0.85	46	**2KJ4303 - ■ EP22 - ■ ■ W1**	
	30	475	47.5	7 100	1.0	46	**2KJ4303 - ■ EP22 - ■ ■ V1**	
	33	435	43.18	7 200	1.1	46	**2KJ4303 - ■ EP22 - ■ ■ U1**	
	37	385	38.53	7 100	1.2	46	**2KJ4303 - ■ EP22 - ■ ■ T1**	
	41	345	34.55	6 900	1.4	46	**2KJ4303 - ■ EP22 - ■ ■ S1**	
	46	310	31.14	6 700	1.5	46	**2KJ4303 - ■ EP22 - ■ ■ R1**	
	49	290	28.74	6 600	1.7	46	**2KJ4303 - ■ EP22 - ■ ■ Q1**	
	54	265	26.24	6 400	1.8	46	**2KJ4303 - ■ EP22 - ■ ■ P1**	
	65	220	21.77	6 100	2.2	46	**2KJ4303 - ■ EP22 - ■ ■ N1**	
	69	205	20.49	6 000	2.3	46	**2KJ4303 - ■ EP22 - ■ ■ M1**	
	73	195	19.35	5 900	2.5	46	**2KJ4303 - ■ EP22 - ■ ■ L1**	
	86	166	16.47	5 700	2.9	46	**2KJ4303 - ■ EP22 - ■ ■ K1**	
	101	142	14.11	5 400	3.4	46	**2KJ4303 - ■ EP22 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**FD.69-LHN90LJ4E**							
	21	665	66.11	9 900	0.9	51	**2KJ4404 - ■ EP22 - ■ ■ C1**	
	25	570	56.67	10 000	1.0	51	**2KJ4404 - ■ EP22 - ■ ■ B1**	
	29	490	48.8	10 100	1.2	51	**2KJ4404 - ■ EP22 - ■ ■ A1**	
	FZ.69-LHN90LJ4E							
	22	650	64.67	9 900	0.92	51	**2KJ4304 - ■ EP22 - ■ ■ X1**	
	24	590	58.79	10 000	1.0	51	**2KJ4304 - ■ EP22 - ■ ■ W1**	
	28	500	50	10 100	1.2	51	**2KJ4304 - ■ EP22 - ■ ■ V1**	
	31	455	45.45	10 100	1.3	51	**2KJ4304 - ■ EP22 - ■ ■ U1**	
	35	405	40.56	10 200	1.5	51	**2KJ4304 - ■ EP22 - ■ ■ T1**	
	39	365	36.36	10 200	1.6	51	**2KJ4304 - ■ EP22 - ■ ■ S1**	
	43	330	32.78	9 900	1.8	51	**2KJ4304 - ■ EP22 - ■ ■ R1**	
	47	305	30.26	9 700	2.0	51	**2KJ4304 - ■ EP22 - ■ ■ Q1**	
	51	275	27.62	9 400	2.2	51	**2KJ4304 - ■ EP22 - ■ ■ P1**	
	62	230	22.92	8 900	2.6	51	**2KJ4304 - ■ EP22 - ■ ■ N1**	
	66	215	21.57	8 800	2.8	51	**2KJ4304 - ■ EP22 - ■ ■ M1**	
	70	205	20.37	8 600	2.9	51	**2KJ4304 - ■ EP22 - ■ ■ L1**	
	FD.79-LHN90LJ4E							
	12	1 200	119.1	12 500	0.83	60	**2KJ4405 - ■ EP22 - ■ ■ G1**	
	13	1 130	112.48	12 600	0.88	60	**2KJ4405 - ■ EP22 - ■ ■ F1**	
	15	965	95.71	12 700	1.0	60	**2KJ4405 - ■ EP22 - ■ ■ E1**	
	17	825	81.99	12 800	1.2	60	**2KJ4405 - ■ EP22 - ■ ■ D1**	
	20	725	72.09	12 900	1.4	60	**2KJ4405 - ■ EP22 - ■ ■ C1**	
	23	610	60.82	12 900	1.6	60	**2KJ4405 - ■ EP22 - ■ ■ B1**	
	27	535	53.01	13 000	1.9	60	**2KJ4405 - ■ EP22 - ■ ■ A1**	
	FZ.79-LHN90LJ4E							
	27	540	53.55	13 000	1.9	59	**2KJ4305 - ■ EP22 - ■ ■ X1**	
	30	485	48.03	13 000	2.1	59	**2KJ4305 - ■ EP22 - ■ ■ W1**	
	33	435	43.18	13 000	2.3	59	**2KJ4305 - ■ EP22 - ■ ■ V1**	
	36	390	39.06	13 100	2.5	59	**2KJ4305 - ■ EP22 - ■ ■ U1**	
	39	360	36.05	13 100	2.7	59	**2KJ4305 - ■ EP22 - ■ ■ T1**	
	FD.89-LHN90LJ4E							
	6.4	2 240	222.33	17 400	0.82	92	**2KJ4406 - ■ EP22 - ■ ■ N1**	
	6.9	2 070	205.23	17 400	0.89	92	**2KJ4406 - ■ EP22 - ■ ■ M1**	
	7.6	1 890	188	17 400	0.98	92	**2KJ4406 - ■ EP22 - ■ ■ L1**	
	9.0	1 590	157.74	17 400	1.2	92	**2KJ4406 - ■ EP22 - ■ ■ K1**	
	9.6	1 490	148.46	17 400	1.2	92	**2KJ4406 - ■ EP22 - ■ ■ J1**	
	10	1 370	136.21	17 400	1.3	92	**2KJ4406 - ■ EP22 - ■ ■ H1**	
	12	1 200	118.98	17 400	1.5	92	**2KJ4406 - ■ EP22 - ■ ■ G1**	
	13	1 070	106.52	17 400	1.7	92	**2KJ4406 - ■ EP22 - ■ ■ F1**	
	15	940	93.14	17 400	2.0	92	**2KJ4406 - ■ EP22 - ■ ■ E1**	
	18	805	79.95	17 400	2.3	92	**2KJ4406 - ■ EP22 - ■ ■ D1**	
	FD.109-LHN90LJ4E							
	3.8	3 730	370	25 000	0.83	132	**2KJ4407 - ■ EP22 - ■ ■ S1**	
	4.2	3 380	335.7	25 000	0.92	132	**2KJ4407 - ■ EP22 - ■ ■ R1**	
	4.6	3 120	309.87	25 000	0.99	132	**2KJ4407 - ■ EP22 - ■ ■ Q1**	
	5.0	2 840	281.68	25 000	1.1	132	**2KJ4407 - ■ EP22 - ■ ■ P1**	
	6.0	2 400	238.52	25 000	1.3	132	**2KJ4407 - ■ EP22 - ■ ■ N1**	
	6.3	2 260	224.49	25 000	1.4	132	**2KJ4407 - ■ EP22 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**FD.109-LHN90LJ4E**							
	6.8	2 090	207.31	25 000	1.5	132	**2KJ4407 - ■ EP22 - ■ ■ L1**	
	7.7	1 860	184.46	25 000	1.7	132	**2KJ4407 - ■ EP22 - ■ ■ K1**	
	8.7	1 650	163.83	25 000	1.9	132	**2KJ4407 - ■ EP22 - ■ ■ J1**	
	9.7	1 470	146.65	25 000	2.1	132	**2KJ4407 - ■ EP22 - ■ ■ H1**	
	FD.129-LHN90LJ4E							
	3.4	4 160	413	34 600	1.2	185	**2KJ4408 - ■ EP22 - ■ ■ T1**	
	3.7	3 840	381	34 700	1.3	185	**2KJ4408 - ■ EP22 - ■ ■ S1**	
	4.0	3 540	351	34 800	1.4	185	**2KJ4408 - ■ EP22 - ■ ■ R1**	
	4.7	3 010	299.31	34 900	1.6	185	**2KJ4408 - ■ EP22 - ■ ■ Q1**	
	5.0	2 840	281.7	35 000	1.7	185	**2KJ4408 - ■ EP22 - ■ ■ P1**	
	5.4	2 630	261.42	35 100	1.8	185	**2KJ4408 - ■ EP22 - ■ ■ N1**	
	6.1	2 330	231.12	35 200	2.1	185	**2KJ4408 - ■ EP22 - ■ ■ M1**	
	FD.129-Z49-LHN90LJ4E							
	2.4	5 510	585	36 500	0.88	204	**2KJ4435 - ■ EP22 - ■ ■ C1**	
	2.9	4 660	494	37 300	1.0	204	**2KJ4435 - ■ EP22 - ■ ■ B1**	
	3.3	4 050	430	37 500	1.2	204	**2KJ4435 - ■ EP22 - ■ ■ A1**	
	FD.149-Z49-LHN90LJ4E							
	1.4	9 250	981	65 000	0.86	291	**2KJ4437 - ■ EP22 - ■ ■ H1**	
	1.5	9 130	968	65 000	0.88	291	**2KJ4437 - ■ EP22 - ■ ■ G1**	
	1.6	8 620	914	65 000	0.93	291	**2KJ4437 - ■ EP22 - ■ ■ F1**	
	1.8	7 330	778	65 000	1.1	291	**2KJ4437 - ■ EP22 - ■ ■ E1**	
	2.1	6 280	666	65 000	1.3	291	**2KJ4437 - ■ EP22 - ■ ■ D1**	
	2.4	5 520	586	65 000	1.4	291	**2KJ4437 - ■ EP22 - ■ ■ C1**	
	2.9	4 660	494	65 000	1.7	291	**2KJ4437 - ■ EP22 - ■ ■ B1**	
	3.3	4 060	431	65 000	2.0	291	**2KJ4437 - ■ EP22 - ■ ■ A1**	
	FD.169-Z69-LHN90LJ4E							
	0.85	15 700	1 670	73 500	0.86	448	**2KJ4440 - ■ EP22 - ■ ■ L1**	
	0.99	13 500	1 431	73 500	1.0	448	**2KJ4440 - ■ EP22 - ■ ■ K1**	
	1.1	11 800	1 258	73 500	1.1	448	**2KJ4440 - ■ EP22 - ■ ■ J1**	
	1.3	10 000	1 061	73 500	1.4	448	**2KJ4440 - ■ EP22 - ■ ■ H1**	
	1.5	8 720	925	73 500	1.6	448	**2KJ4440 - ■ EP22 - ■ ■ G1**	
	1.6	8 190	869	65 000	1.7	448	**2KJ4440 - ■ EP22 - ■ ■ F1**	
	1.9	6 970	739	65 000	2.0	448	**2KJ4440 - ■ EP22 - ■ ■ E1**	
	FD.189-Z69-LHN90LJ4E							
	0.6	22 400	2 385	110 300	0.84	660	**2KJ4442 - ■ EP22 - ■ ■ Q1**	
	0.63	21 200	2 252	110 900	0.89	660	**2KJ4442 - ■ EP22 - ■ ■ P1**	
	0.74	18 000	1 917	110 900	1.1	660	**2KJ4442 - ■ EP22 - ■ ■ N1**	
	0.86	15 400	1 642	110 900	1.2	660	**2KJ4442 - ■ EP22 - ■ ■ M1**	
	0.98	13 600	1 444	110 900	1.4	660	**2KJ4442 - ■ EP22 - ■ ■ L1**	
	1.2	11 400	1 218	110 900	1.7	660	**2KJ4442 - ■ EP22 - ■ ■ K1**	
	1.3	10 000	1 061	110 900	1.9	660	**2KJ4442 - ■ EP22 - ■ ■ J1**	
	1.4	9 400	997	73 500	2.0	660	**2KJ4442 - ■ EP22 - ■ ■ H1**	
2.2	**FZ.29-LHN100LD4E**							
	125	169	11.51	3 600	0.85	39	**2KJ4301 - ■ FL22 - ■ ■ L1**	
	144	146	9.99	3 500	0.93	39	**2KJ4301 - ■ FL22 - ■ ■ K1**	
	148	142	9.69	3 400	1.0	39	**2KJ4301 - ■ FL22 - ■ ■ J1**	
	166	126	8.63	3 300	1.0	39	**2KJ4301 - ■ FL22 - ■ ■ H1**	
	180	117	7.97	3 200	1.0	39	**2KJ4301 - ■ FL22 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**FZ.29-LHN100LD4E**							
	206	102	6.98	3 100	1.2	39	**2KJ4301 - ■ FL22 - ■ ■ F1**	
	234	90	6.12	3 000	1.3	39	**2KJ4301 - ■ FL22 - ■ ■ E1**	
	259	81	5.55	2 900	1.3	39	**2KJ4301 - ■ FL22 - ■ ■ D1**	
	275	76	5.22	2 800	1.4	39	**2KJ4301 - ■ FL22 - ■ ■ C1**	
	312	67	4.60	2 700	1.4	39	**2KJ4301 - ■ FL22 - ■ ■ B1**	
	359	59	4.00	2 600	1.6	39	**2KJ4301 - ■ FL22 - ■ ■ A1**	
	FZ.39-LHN100LD4E							
	69	300	20.71	5 500	0.82	46	**2KJ4302 - ■ FL22 - ■ ■ P1**	
	83	250	17.24	5 200	0.93	46	**2KJ4302 - ■ FL22 - ■ ■ N1**	
	88	235	16.22	5 200	0.97	46	**2KJ4302 - ■ FL22 - ■ ■ M1**	
	99	210	14.54	5 000	1.0	46	**2KJ4302 - ■ FL22 - ■ ■ L1**	
	116	181	12.38	4 800	1.2	46	**2KJ4302 - ■ FL22 - ■ ■ K1**	
	135	155	10.61	4 600	1.3	46	**2KJ4302 - ■ FL22 - ■ ■ J1**	
	157	134	9.13	4 400	1.4	46	**2KJ4302 - ■ FL22 - ■ ■ H1**	
	177	119	8.10	4 200	1.4	46	**2KJ4302 - ■ FL22 - ■ ■ G1**	
	213	99	6.74	4 000	1.5	46	**2KJ4302 - ■ FL22 - ■ ■ F1**	
	226	93	6.35	3 900	1.6	46	**2KJ4302 - ■ FL22 - ■ ■ E1**	
	252	83	5.69	3 800	1.7	46	**2KJ4302 - ■ FL22 - ■ ■ D1**	
	296	71	4.84	3 600	1.8	46	**2KJ4302 - ■ FL22 - ■ ■ C1**	
	346	61	4.15	3 400	1.9	46	**2KJ4302 - ■ FL22 - ■ ■ B1**	
	402	52	3.57	3 300	2.1	46	**2KJ4302 - ■ FL22 - ■ ■ A1**	
	FZ.49-LHN100LD4E							
	37	560	38.53	7 100	0.85	57	**2KJ4303 - ■ FL22 - ■ ■ T1**	
	42	505	34.55	6 900	0.95	57	**2KJ4303 - ■ FL22 - ■ ■ S1**	
	46	455	31.14	6 700	1.1	57	**2KJ4303 - ■ FL22 - ■ ■ R1**	
	50	420	28.74	6 600	1.1	57	**2KJ4303 - ■ FL22 - ■ ■ Q1**	
	55	380	26.24	6 400	1.2	57	**2KJ4303 - ■ FL22 - ■ ■ P1**	
	66	315	21.77	6 100	1.5	57	**2KJ4303 - ■ FL22 - ■ ■ N1**	
	70	300	20.49	6 000	1.6	57	**2KJ4303 - ■ FL22 - ■ ■ M1**	
	74	280	19.35	5 900	1.7	57	**2KJ4303 - ■ FL22 - ■ ■ L1**	
	87	240	16.47	5 600	2.0	57	**2KJ4303 - ■ FL22 - ■ ■ K1**	
	102	205	14.11	5 400	2.3	57	**2KJ4303 - ■ FL22 - ■ ■ J1**	
	116	182	12.4	5 200	2.6	57	**2KJ4303 - ■ FL22 - ■ ■ H1**	
	137	153	10.46	4 900	3.1	57	**2KJ4303 - ■ FL22 - ■ ■ G1**	
	157	134	9.12	4 700	3.6	57	**2KJ4303 - ■ FL22 - ■ ■ F1**	
	171	123	8.40	4 600	3.7	57	**2KJ4303 - ■ FL22 - ■ ■ E1**	
	199	105	7.20	4 400	4.3	57	**2KJ4303 - ■ FL22 - ■ ■ D1**	
	227	93	6.33	4 200	4.6	57	**2KJ4303 - ■ FL22 - ■ ■ C1**	
	FD.69-LHN100LD4E							
	29	710	48.8	10 100	0.84	62	**2KJ4404 - ■ FL22 - ■ ■ A1**	
	FZ.69-LHN100LD4E							
	35	590	40.56	10 200	1.0	61	**2KJ4304 - ■ FL22 - ■ ■ T1**	
	39	530	36.36	10 100	1.1	61	**2KJ4304 - ■ FL22 - ■ ■ S1**	
	44	480	32.78	9 900	1.3	61	**2KJ4304 - ■ FL22 - ■ ■ R1**	
	47	440	30.26	9 600	1.4	61	**2KJ4304 - ■ FL22 - ■ ■ Q1**	
	52	400	27.62	9 400	1.5	61	**2KJ4304 - ■ FL22 - ■ ■ P1**	
	63	335	22.92	8 900	1.8	61	**2KJ4304 - ■ FL22 - ■ ■ N1**	
	67	315	21.57	8 700	1.9	61	**2KJ4304 - ■ FL22 - ■ ■ M1**	

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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**FZ.69-LHN100LD4E**							
	70	295	20.37	8 600	2.0	61	**2KJ4304 - ■ FL22 - ■ ■ L1**	
	83	250	17.33	8 200	2.4	61	**2KJ4304 - ■ FL22 - ■ ■ K1**	
	97	215	14.85	7 800	2.8	61	**2KJ4304 - ■ FL22 - ■ ■ J1**	
	110	191	13.06	7 500	3.1	61	**2KJ4304 - ■ FL22 - ■ ■ H1**	
	130	161	11.01	7 100	3.7	61	**2KJ4304 - ■ FL22 - ■ ■ G1**	
	161	130	8.90	6 600	3.6	61	**2KJ4304 - ■ FL22 - ■ ■ E1**	
	188	112	7.62	6 300	4.2	61	**2KJ4304 - ■ FL22 - ■ ■ D1**	
	214	98	6.70	6 100	4.5	61	**2KJ4304 - ■ FL22 - ■ ■ C1**	
	FD.79-LHN100LD4E							
	18	1 200	81.99	12 800	0.83	69	**2KJ4405 - ■ FL22 - ■ ■ D1**	
	20	1 050	72.09	12 900	0.95	69	**2KJ4405 - ■ FL22 - ■ ■ C1**	
	24	890	60.82	12 900	1.1	69	**2KJ4405 - ■ FL22 - ■ ■ B1**	
	27	775	53.01	13 000	1.3	69	**2KJ4405 - ■ FL22 - ■ ■ A1**	
	FZ.79-LHN100LD4E							
	30	700	48.03	13 000	1.4	68	**2KJ4305 - ■ FL22 - ■ ■ W1**	
	33	630	43.18	13 000	1.6	68	**2KJ4305 - ■ FL22 - ■ ■ V1**	
	37	570	39.06	13 100	1.7	68	**2KJ4305 - ■ FL22 - ■ ■ U1**	
	40	525	36.05	13 100	1.9	68	**2KJ4305 - ■ FL22 - ■ ■ T1**	
	43	480	33.02	13 100	2.1	68	**2KJ4305 - ■ FL22 - ■ ■ S1**	
	52	405	27.71	13 100	2.5	68	**2KJ4305 - ■ FL22 - ■ ■ R1**	
	55	380	26.08	13 200	2.6	68	**2KJ4305 - ■ FL22 - ■ ■ Q1**	
	60	350	23.93	13 200	2.9	68	**2KJ4305 - ■ FL22 - ■ ■ P1**	
	FD.89-LHN100LD4E							
	9.1	2 300	157.74	17 400	0.8	100	**2KJ4406 - ■ FL22 - ■ ■ K1**	
	9.7	2 170	148.46	17 400	0.85	100	**2KJ4406 - ■ FL22 - ■ ■ J1**	
	11	1 990	136.21	17 400	0.93	100	**2KJ4406 - ■ FL22 - ■ ■ H1**	
	12	1 740	118.98	17 400	1.1	100	**2KJ4406 - ■ FL22 - ■ ■ G1**	
	13	1 560	106.52	17 400	1.2	100	**2KJ4406 - ■ FL22 - ■ ■ F1**	
	15	1 360	93.14	17 400	1.4	100	**2KJ4406 - ■ FL22 - ■ ■ E1**	
	18	1 170	79.95	17 400	1.6	100	**2KJ4406 - ■ FL22 - ■ ■ D1**	
	20	1 030	70.67	17 400	1.8	100	**2KJ4406 - ■ FL22 - ■ ■ C1**	
	24	880	60.09	17 400	2.1	100	**2KJ4406 - ■ FL22 - ■ ■ B1**	
	28	750	51.51	17 400	2.5	100	**2KJ4406 - ■ FL22 - ■ ■ A1**	
	FZ.89-LHN100LD4E							
	23	900	61.72	17 400	2.0	99	**2KJ4306 - ■ FL22 - ■ ■ B2**	
	26	815	55.72	17 400	2.3	99	**2KJ4306 - ■ FL22 - ■ ■ A2**	
	28	740	50.54	17 400	2.5	99	**2KJ4306 - ■ FL22 - ■ ■ X1**	
	FD.109-LHN100LD4E							
	6.0	3 490	238.52	25 000	0.89	141	**2KJ4407 - ■ FL22 - ■ ■ N1**	
	6.4	3 280	224.49	25 000	0.94	141	**2KJ4407 - ■ FL22 - ■ ■ M1**	
	6.9	3 030	207.31	25 000	1.0	141	**2KJ4407 - ■ FL22 - ■ ■ L1**	
	7.8	2 700	184.46	25 000	1.1	141	**2KJ4407 - ■ FL22 - ■ ■ K1**	
	8.8	2 390	163.83	25 000	1.3	141	**2KJ4407 - ■ FL22 - ■ ■ J1**	
	9.8	2 140	146.65	25 000	1.4	141	**2KJ4407 - ■ FL22 - ■ ■ H1**	
	11	1 830	125.37	25 000	1.7	141	**2KJ4407 - ■ FL22 - ■ ■ G1**	
	13	1 630	111.95	25 000	1.9	141	**2KJ4407 - ■ FL22 - ■ ■ F1**	
	15	1 440	98.94	25 000	2.1	141	**2KJ4407 - ■ FL22 - ■ ■ E1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**FD.129-LHN100LD4E**							
	3.5	6 040	413	34 600	0.8	195	**2KJ4408 - ■ FL22 - ■ ■ T1**	
	3.8	5 570	381	34 700	0.87	195	**2KJ4408 - ■ FL22 - ■ ■ S1**	
	4.1	5 130	351	34 800	0.94	195	**2KJ4408 - ■ FL22 - ■ ■ R1**	
	4.8	4 380	299.31	34 900	1.1	195	**2KJ4408 - ■ FL22 - ■ ■ Q1**	
	5.1	4 120	281.7	35 000	1.2	195	**2KJ4408 - ■ FL22 - ■ ■ P1**	
	5.5	3 820	261.42	35 100	1.3	195	**2KJ4408 - ■ FL22 - ■ ■ N1**	
	6.2	3 380	231.12	35 200	1.4	195	**2KJ4408 - ■ FL22 - ■ ■ M1**	
	7.0	3 020	206.32	35 200	1.6	195	**2KJ4408 - ■ FL22 - ■ ■ L1**	
	7.7	2 710	185.66	35 300	1.8	195	**2KJ4408 - ■ FL22 - ■ ■ K1**	
	8.9	2 350	161.14	35 400	2.1	195	**2KJ4408 - ■ FL22 - ■ ■ J1**	
	FD.149-LHN100LD4E							
	3.8	5 520	377	61 700	1.4	282	**2KJ4410 - ■ FL22 - ■ ■ W1**	
	4.4	4 730	323.04	61 800	1.7	282	**2KJ4410 - ■ FL22 - ■ ■ V1**	
	4.7	4 450	304.03	61 900	1.8	282	**2KJ4410 - ■ FL22 - ■ ■ U1**	
	5.0	4 170	285	61 900	1.9	282	**2KJ4410 - ■ FL22 - ■ ■ T1**	
	FD.129-Z49-LHN100LD4E							
	3.3	5 910	430	36 100	0.82	214	**2KJ4435 - ■ FL22 - ■ ■ A1**	
	FD.149-Z49-LHN100LD4E							
	2.2	9 160	666	36 100	0.87	301	**2KJ4437 - ■ FL22 - ■ ■ D1**	
	2.4	8 060	586	36 900	0.99	301	**2KJ4437 - ■ FL22 - ■ ■ C1**	
	2.9	6 800	494	37 500	1.2	301	**2KJ4437 - ■ FL22 - ■ ■ B1**	
	3.3	5 930	431	37 500	1.3	301	**2KJ4437 - ■ FL22 - ■ ■ A1**	
	FD.169-Z69-LHN100LD4E							
	1.4	14 600	1 061	65 000	0.93	459	**2KJ4440 - ■ FL22 - ■ ■ H1**	
	1.6	12 700	925	65 000	1.1	459	**2KJ4440 - ■ FL22 - ■ ■ G1**	
	1.7	11 900	869	65 000	1.1	459	**2KJ4440 - ■ FL22 - ■ ■ F1**	
	1.9	10 100	739	65 000	1.3	459	**2KJ4440 - ■ FL22 - ■ ■ E1**	
	2.3	8 710	633	65 000	1.6	459	**2KJ4440 - ■ FL22 - ■ ■ D1**	
	2.6	7 660	557	65 000	1.8	459	**2KJ4440 - ■ FL22 - ■ ■ C1**	
	FD.189-Z69-LHN100LD4E							
	0.87	22 600	1 642	73 500	0.84	671	**2KJ4442 - ■ FL22 - ■ ■ M1**	
	0.99	19 800	1 444	73 500	0.96	671	**2KJ4442 - ■ FL22 - ■ ■ L1**	
	1.2	16 700	1 218	73 500	1.1	671	**2KJ4442 - ■ FL22 - ■ ■ K1**	
	1.4	13 700	997	73 500	1.4	671	**2KJ4442 - ■ FL22 - ■ ■ H1**	
	1.4	14 600	1 061	73 500	1.3	671	**2KJ4442 - ■ FL22 - ■ ■ J1**	
	1.7	11 600	848	73 500	1.6	671	**2KJ4442 - ■ FL22 - ■ ■ G1**	
	2.0	10 000	727	65 000	1.9	671	**2KJ4442 - ■ FL22 - ■ ■ F1**	
3	**FZ.29-LHN100LJ4E**							
	206	139	6.98	3 100	0.88	38	**2KJ4301 - ■ FM22 - ■ ■ F1**	
	234	122	6.12	3 000	0.93	38	**2KJ4301 - ■ FM22 - ■ ■ E1**	
	259	111	5.55	2 900	0.97	38	**2KJ4301 - ■ FM22 - ■ ■ D1**	
	275	104	5.22	2 800	1.0	38	**2KJ4301 - ■ FM22 - ■ ■ C1**	
	312	92	4.60	2 700	1.1	38	**2KJ4301 - ■ FM22 - ■ ■ B1**	
	359	80	4.00	2 600	1.1	38	**2KJ4301 - ■ FM22 - ■ ■ A1**	
	FZ.39-LHN100LJ4E							
	116	245	12.38	4 800	0.85	45	**2KJ4302 - ■ FM22 - ■ ■ K1**	
	135	210	10.61	4 600	0.94	45	**2KJ4302 - ■ FM22 - ■ ■ J1**	
	157	182	9.13	4 400	1.0	45	**2KJ4302 - ■ FM22 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FZ.39-LHN100LJ4E**							
	177	162	8.10	4 200	1.0	45	**2KJ4302 - ■ FM22 - ■ ■ G1**	
	213	135	6.74	4 000	1.1	45	**2KJ4302 - ■ FM22 - ■ ■ F1**	
	226	127	6.35	3 900	1.2	45	**2KJ4302 - ■ FM22 - ■ ■ E1**	
	252	114	5.69	3 800	1.2	45	**2KJ4302 - ■ FM22 - ■ ■ D1**	
	296	97	4.84	3 600	1.3	45	**2KJ4302 - ■ FM22 - ■ ■ C1**	
	346	83	4.15	3 400	1.4	45	**2KJ4302 - ■ FM22 - ■ ■ B1**	
	402	71	3.57	3 300	1.5	45	**2KJ4302 - ■ FM22 - ■ ■ A1**	
	FZ.49-LHN100LJ4E							
	50	570	28.74	6 600	0.84	56	**2KJ4303 - ■ FM22 - ■ ■ Q1**	
	55	520	26.24	6 400	0.92	56	**2KJ4303 - ■ FM22 - ■ ■ P1**	
	66	435	21.77	6 100	1.1	56	**2KJ4303 - ■ FM22 - ■ ■ N1**	
	70	405	20.49	6 000	1.2	56	**2KJ4303 - ■ FM22 - ■ ■ M1**	
	74	385	19.35	5 900	1.2	56	**2KJ4303 - ■ FM22 - ■ ■ L1**	
	87	325	16.47	5 600	1.5	56	**2KJ4303 - ■ FM22 - ■ ■ K1**	
	102	280	14.11	5 400	1.7	56	**2KJ4303 - ■ FM22 - ■ ■ J1**	
	116	245	12.4	5 200	1.9	56	**2KJ4303 - ■ FM22 - ■ ■ H1**	
	137	205	10.46	4 900	2.3	56	**2KJ4303 - ■ FM22 - ■ ■ G1**	
	157	182	9.12	4 700	2.6	56	**2KJ4303 - ■ FM22 - ■ ■ F1**	
	171	168	8.40	4 600	2.7	56	**2KJ4303 - ■ FM22 - ■ ■ E1**	
	199	144	7.20	4 400	3.1	56	**2KJ4303 - ■ FM22 - ■ ■ D1**	
	227	126	6.33	4 200	3.4	56	**2KJ4303 - ■ FM22 - ■ ■ C1**	
	269	107	5.34	4 000	3.8	56	**2KJ4303 - ■ FM22 - ■ ■ B1**	
	309	93	4.65	3 800	4.0	56	**2KJ4303 - ■ FM22 - ■ ■ A1**	
	FZ.69-LHN100LJ4E							
	39	725	36.36	10 100	0.83	60	**2KJ4304 - ■ FM22 - ■ ■ S1**	
	44	650	32.78	9 900	0.92	60	**2KJ4304 - ■ FM22 - ■ ■ R1**	
	47	600	30.26	9 600	0.99	60	**2KJ4304 - ■ FM22 - ■ ■ Q1**	
	52	550	27.62	9 400	1.1	60	**2KJ4304 - ■ FM22 - ■ ■ P1**	
	63	455	22.92	8 900	1.3	60	**2KJ4304 - ■ FM22 - ■ ■ N1**	
	67	430	21.57	8 700	1.4	60	**2KJ4304 - ■ FM22 - ■ ■ M1**	
	70	405	20.37	8 600	1.5	60	**2KJ4304 - ■ FM22 - ■ ■ L1**	
	83	345	17.33	8 200	1.7	60	**2KJ4304 - ■ FM22 - ■ ■ K1**	
	97	295	14.85	7 800	2.0	60	**2KJ4304 - ■ FM22 - ■ ■ J1**	
	110	260	13.06	7 500	2.3	60	**2KJ4304 - ■ FM22 - ■ ■ H1**	
	130	220	11.01	7 100	2.7	60	**2KJ4304 - ■ FM22 - ■ ■ G1**	
	149	192	9.60	6 800	3.1	60	**2KJ4304 - ■ FM22 - ■ ■ F1**	
	161	178	8.90	6 600	2.7	60	**2KJ4304 - ■ FM22 - ■ ■ E1**	
	188	152	7.62	6 300	3.1	60	**2KJ4304 - ■ FM22 - ■ ■ D1**	
	214	134	6.70	6 100	3.3	60	**2KJ4304 - ■ FM22 - ■ ■ C1**	
	254	113	5.66	5 800	3.6	60	**2KJ4304 - ■ FM22 - ■ ■ B1**	
	291	98	4.93	5 500	3.9	60	**2KJ4304 - ■ FM22 - ■ ■ A1**	
	FD.79-LHN100LJ4E							
	24	1 210	60.82	12 900	0.82	68	**2KJ4405 - ■ FM22 - ■ ■ B1**	
	27	1 050	53.01	13 000	0.94	68	**2KJ4405 - ■ FM22 - ■ ■ A1**	
	FZ.79-LHN100LJ4E							
	30	955	48.03	13 000	1.0	67	**2KJ4305 - ■ FM22 - ■ ■ W1**	
	33	860	43.18	13 000	1.2	67	**2KJ4305 - ■ FM22 - ■ ■ V1**	
	37	780	39.06	13 100	1.3	67	**2KJ4305 - ■ FM22 - ■ ■ U1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FZ.79-LHN100LJ4E**							
	40	720	36.05	13 100	1.4	67	**2KJ4305 - ■ FM22 - ■ ■ T1**	
	43	655	33.02	13 100	1.5	67	**2KJ4305 - ■ FM22 - ■ ■ S1**	
	52	550	27.71	13 100	1.8	67	**2KJ4305 - ■ FM22 - ■ ■ R1**	
	55	520	26.08	13 200	1.9	67	**2KJ4305 - ■ FM22 - ■ ■ Q1**	
	60	475	23.93	13 200	2.1	67	**2KJ4305 - ■ FM22 - ■ ■ P1**	
	69	415	20.9	13 200	2.4	67	**2KJ4305 - ■ FM22 - ■ ■ N1**	
	77	370	18.71	13 200	2.7	67	**2KJ4305 - ■ FM22 - ■ ■ M1**	
	88	325	16.36	13 200	3.1	67	**2KJ4305 - ■ FM22 - ■ ■ L1**	
	169	170	8.51	13 300	4.2	67	**2KJ4305 - ■ FM22 - ■ ■ F1**	
	FD.89-LHN100LJ4E							
	13	2 120	106.52	17 400	0.87	99	**2KJ4406 - ■ FM22 - ■ ■ F1**	
	15	1 860	93.14	17 400	0.99	99	**2KJ4406 - ■ FM22 - ■ ■ E1**	
	18	1 590	79.95	17 400	1.2	99	**2KJ4406 - ■ FM22 - ■ ■ D1**	
	20	1 410	70.67	17 400	1.3	99	**2KJ4406 - ■ FM22 - ■ ■ C1**	
	24	1 200	60.09	17 400	1.5	99	**2KJ4406 - ■ FM22 - ■ ■ B1**	
	28	1 020	51.51	17 400	1.8	99	**2KJ4406 - ■ FM22 - ■ ■ A1**	
	FZ.89-LHN100LJ4E							
	23	1 230	61.72	17 400	1.5	98	**2KJ4306 - ■ FM22 - ■ ■ B2**	
	26	1 110	55.72	17 400	1.7	98	**2KJ4306 - ■ FM22 - ■ ■ A2**	
	28	1 000	50.54	17 400	1.8	98	**2KJ4306 - ■ FM22 - ■ ■ X1**	
	31	930	46.66	17 400	2.0	98	**2KJ4306 - ■ FM22 - ■ ■ W1**	
	34	845	42.41	17 400	2.2	98	**2KJ4306 - ■ FM22 - ■ ■ V1**	
	40	715	35.91	17 400	2.6	98	**2KJ4306 - ■ FM22 - ■ ■ U1**	
	42	675	33.8	17 400	2.7	98	**2KJ4306 - ■ FM22 - ■ ■ T1**	
	FD.109-LHN100LJ4E							
	7.8	3 680	184.46	25 000	0.84	140	**2KJ4407 - ■ FM22 - ■ ■ K1**	
	8.8	3 270	163.83	25 000	0.95	140	**2KJ4407 - ■ FM22 - ■ ■ J1**	
	9.8	2 920	146.65	25 000	1.1	140	**2KJ4407 - ■ FM22 - ■ ■ H1**	
	11	2 500	125.37	25 000	1.2	140	**2KJ4407 - ■ FM22 - ■ ■ G1**	
	13	2 230	111.95	25 000	1.4	140	**2KJ4407 - ■ FM22 - ■ ■ F1**	
	15	1 970	98.94	25 000	1.6	140	**2KJ4407 - ■ FM22 - ■ ■ E1**	
	17	1 730	86.83	25 000	1.8	140	**2KJ4407 - ■ FM22 - ■ ■ D1**	
	19	1 500	75.59	25 000	2.1	140	**2KJ4407 - ■ FM22 - ■ ■ C1**	
	22	1 290	64.62	25 000	2.4	140	**2KJ4407 - ■ FM22 - ■ ■ B1**	
	FZ.109-LHN100LJ4E							
	20	1 410	70.74	25 000	2.2	137	**2KJ4307 - ■ FM22 - ■ ■ B2**	
	22	1 300	65.3	25 000	2.4	137	**2KJ4307 - ■ FM22 - ■ ■ A2**	
	FD.129-LHN100LJ4E							
	4.8	5 970	299.31	34 900	0.81	194	**2KJ4408 - ■ FM22 - ■ ■ Q1**	
	5.1	5 620	281.7	35 000	0.86	194	**2KJ4408 - ■ FM22 - ■ ■ P1**	
	5.5	5 210	261.42	35 100	0.93	194	**2KJ4408 - ■ FM22 - ■ ■ N1**	
	6.2	4 610	231.12	35 200	1.1	194	**2KJ4408 - ■ FM22 - ■ ■ M1**	
	7.0	4 110	206.32	35 200	1.2	194	**2KJ4408 - ■ FM22 - ■ ■ L1**	
	7.7	3 700	185.66	35 300	1.3	194	**2KJ4408 - ■ FM22 - ■ ■ K1**	
	8.9	3 210	161.14	35 400	1.5	194	**2KJ4408 - ■ FM22 - ■ ■ J1**	
	9.9	2 890	144.92	35 400	1.7	194	**2KJ4408 - ■ FM22 - ■ ■ H1**	
	11	2 520	126.66	35 500	1.9	194	**2KJ4408 - ■ FM22 - ■ ■ G1**	
	13	2 250	113.03	35 500	2.1	194	**2KJ4408 - ■ FM22 - ■ ■ F1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FD.149-LHN100LJ4E**							
	3.8	7 520	377	61 700	1.1	281	**2KJ4410 - ■ FM22 - ■ ■ W1**	
	4.4	6 450	323.04	61 800	1.2	281	**2KJ4410 - ■ FM22 - ■ ■ V1**	
	4.7	6 070	304.03	61 900	1.3	281	**2KJ4410 - ■ FM22 - ■ ■ U1**	
	5.0	5 690	285	61 900	1.4	281	**2KJ4410 - ■ FM22 - ■ ■ T1**	
	5.7	5 040	252.64	62 000	1.6	281	**2KJ4410 - ■ FM22 - ■ ■ S1**	
	6.4	4 480	224.42	62 100	1.8	281	**2KJ4410 - ■ FM22 - ■ ■ R1**	
	7.1	4 040	202.5	62 100	2.0	281	**2KJ4410 - ■ FM22 - ■ ■ Q1**	
	FD.149-Z49-LHN100LJ4E							
	2.9	9 300	494	17 400	0.86	300	**2KJ4437 - ■ FM22 - ■ ■ B1**	
	3.3	8 110	431	17 400	0.99	300	**2KJ4437 - ■ FM22 - ■ ■ A1**	
	FD.169-Z69-LHN100LJ4E							
	1.7	16 300	869	25 000	0.83	458	**2KJ4440 - ■ FM22 - ■ ■ F1**	
	1.9	13 900	739	25 000	0.98	458	**2KJ4440 - ■ FM22 - ■ ■ E1**	
	2.3	11 900	633	25 000	1.1	458	**2KJ4440 - ■ FM22 - ■ ■ D1**	
	2.6	10 400	557	17 400	1.3	458	**2KJ4440 - ■ FM22 - ■ ■ C1**	
	3.1	8 840	470	17 400	1.5	458	**2KJ4440 - ■ FM22 - ■ ■ B1**	
	3.5	7 700	409	17 400	1.8	458	**2KJ4440 - ■ FM22 - ■ ■ A1**	
	FD.189-Z69-LHN100LJ4E							
	1.2	22 900	1 218	37 500	0.83	670	**2KJ4442 - ■ FM22 - ■ ■ K1**	
	1.4	18 700	997	37 500	1.0	670	**2KJ4442 - ■ FM22 - ■ ■ H1**	
	1.4	19 900	1 061	37 500	0.95	670	**2KJ4442 - ■ FM22 - ■ ■ J1**	
	1.7	15 900	848	25 000	1.2	670	**2KJ4442 - ■ FM22 - ■ ■ G1**	
	2.0	13 600	727	25 000	1.4	670	**2KJ4442 - ■ FM22 - ■ ■ F1**	
	2.2	12 000	639	25 000	1.6	670	**2KJ4442 - ■ FM22 - ■ ■ E1**	
	2.7	10 100	539	25 000	1.9	670	**2KJ4442 - ■ FM22 - ■ ■ D1**	
4	**FZ.39-LHN112MF4**							
	214	178	6.74	2 700	0.85	68	**2KJ4302 - ■ GJ21 - ■ ■ F1**	
	228	168	6.35	2 700	0.89	68	**2KJ4302 - ■ GJ21 - ■ ■ E1**	
	254	150	5.69	2 700	0.93	68	**2KJ4302 - ■ GJ21 - ■ ■ D1**	
	299	128	4.84	2 700	1.0	68	**2KJ4302 - ■ GJ21 - ■ ■ C1**	
	348	110	4.15	2 600	1.1	68	**2KJ4302 - ■ GJ21 - ■ ■ B1**	
	405	94	3.57	2 600	1.1	68	**2KJ4302 - ■ GJ21 - ■ ■ A1**	
	FZ.49-LHN112MF4							
	66	575	21.77	2 900	0.83	76	**2KJ4303 - ■ GJ21 - ■ ■ N1**	
	71	540	20.49	3 000	0.89	76	**2KJ4303 - ■ GJ21 - ■ ■ M1**	
	75	510	19.35	3 000	0.94	76	**2KJ4303 - ■ GJ21 - ■ ■ L1**	
	88	435	16.47	3 200	1.1	76	**2KJ4303 - ■ GJ21 - ■ ■ K1**	
	102	370	14.11	3 300	1.3	76	**2KJ4303 - ■ GJ21 - ■ ■ J1**	
	117	325	12.4	3 400	1.5	76	**2KJ4303 - ■ GJ21 - ■ ■ H1**	
	138	275	10.46	3 400	1.7	76	**2KJ4303 - ■ GJ21 - ■ ■ G1**	
	158	240	9.12	3 400	2.0	76	**2KJ4303 - ■ GJ21 - ■ ■ F1**	
	172	220	8.40	3 200	2.0	76	**2KJ4303 - ■ GJ21 - ■ ■ E1**	
	201	190	7.20	3 200	2.4	76	**2KJ4303 - ■ GJ21 - ■ ■ D1**	
	228	167	6.33	3 200	2.6	76	**2KJ4303 - ■ GJ21 - ■ ■ C1**	
	271	141	5.34	3 100	2.8	76	**2KJ4303 - ■ GJ21 - ■ ■ B1**	
	311	123	4.65	3 000	3.1	76	**2KJ4303 - ■ GJ21 - ■ ■ A1**	
	FZ.69-LHN112MF4							
	52	730	27.62	5 500	0.82	81	**2KJ4304 - ■ GJ21 - ■ ■ P1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**FZ.69-LHN112MF4**							
	63	605	22.92	5 700	0.99	81	**2KJ4304 - ■ GJ21 - ■ ■ N1**	
	67	570	21.57	5 700	1.1	81	**2KJ4304 - ■ GJ21 - ■ ■ M1**	
	71	535	20.37	5 700	1.1	81	**2KJ4304 - ■ GJ21 - ■ ■ L1**	
	83	455	17.33	5 800	1.3	81	**2KJ4304 - ■ GJ21 - ■ ■ K1**	
	97	390	14.85	5 700	1.5	81	**2KJ4304 - ■ GJ21 - ■ ■ J1**	
	111	345	13.06	5 700	1.7	81	**2KJ4304 - ■ GJ21 - ■ ■ H1**	
	131	290	11.01	5 600	2.1	81	**2KJ4304 - ■ GJ21 - ■ ■ G1**	
	151	250	9.60	5 500	2.4	81	**2KJ4304 - ■ GJ21 - ■ ■ F1**	
	162	235	8.90	5 300	2.0	81	**2KJ4304 - ■ GJ21 - ■ ■ E1**	
	190	200	7.62	5 200	2.3	81	**2KJ4304 - ■ GJ21 - ■ ■ D1**	
	216	177	6.70	5 100	2.5	81	**2KJ4304 - ■ GJ21 - ■ ■ C1**	
	255	150	5.66	4 900	2.7	81	**2KJ4304 - ■ GJ21 - ■ ■ B1**	
	293	130	4.93	4 800	3.0	81	**2KJ4304 - ■ GJ21 - ■ ■ A1**	
	FZ.79-LHN112MF4							
	33	1 140	43.18	13 300	0.88	88	**2KJ4305 - ■ GJ21 - ■ ■ V1**	
	37	1 030	39.06	13 500	0.97	88	**2KJ4305 - ■ GJ21 - ■ ■ U1**	
	40	950	36.05	13 700	1.0	88	**2KJ4305 - ■ GJ21 - ■ ■ T1**	
	44	870	33.02	13 800	1.1	88	**2KJ4305 - ■ GJ21 - ■ ■ S1**	
	52	730	27.71	14 100	1.4	88	**2KJ4305 - ■ GJ21 - ■ ■ R1**	
	55	685	26.08	14 200	1.5	88	**2KJ4305 - ■ GJ21 - ■ ■ Q1**	
	60	630	23.93	14 300	1.6	88	**2KJ4305 - ■ GJ21 - ■ ■ P1**	
	69	550	20.9	14 500	1.8	88	**2KJ4305 - ■ GJ21 - ■ ■ N1**	
	77	495	18.71	14 500	2.0	88	**2KJ4305 - ■ GJ21 - ■ ■ M1**	
	88	430	16.36	14 500	2.3	88	**2KJ4305 - ■ GJ21 - ■ ■ L1**	
	103	370	14.04	14 500	2.7	88	**2KJ4305 - ■ GJ21 - ■ ■ K1**	
	116	325	12.41	14 400	3.0	88	**2KJ4305 - ■ GJ21 - ■ ■ J1**	
	137	275	10.56	13 900	3.6	88	**2KJ4305 - ■ GJ21 - ■ ■ H1**	
	170	225	8.51	13 100	3.2	88	**2KJ4305 - ■ GJ21 - ■ ■ F1**	
	194	197	7.44	12 700	3.7	88	**2KJ4305 - ■ GJ21 - ■ ■ E1**	
	226	169	6.39	12 200	4.3	88	**2KJ4305 - ■ GJ21 - ■ ■ D1**	
	256	149	5.64	11 900	4.7	88	**2KJ4305 - ■ GJ21 - ■ ■ C1**	
	FD.89-LHN112MF4							
	18	2 110	79.95	17 400	0.88	119	**2KJ4406 - ■ GJ21 - ■ ■ D1**	
	20	1 860	70.67	17 400	0.99	119	**2KJ4406 - ■ GJ21 - ■ ■ C1**	
	24	1 580	60.09	17 400	1.2	119	**2KJ4406 - ■ GJ21 - ■ ■ B1**	
	28	1 360	51.51	17 400	1.4	119	**2KJ4406 - ■ GJ21 - ■ ■ A1**	
	FZ.89-LHN112MF4							
	23	1 630	61.72	17 400	1.1	118	**2KJ4306 - ■ GJ21 - ■ ■ B2**	
	26	1 470	55.72	17 400	1.3	118	**2KJ4306 - ■ GJ21 - ■ ■ A2**	
	29	1 330	50.54	17 400	1.4	118	**2KJ4306 - ■ GJ21 - ■ ■ X1**	
	31	1 230	46.66	17 400	1.5	118	**2KJ4306 - ■ GJ21 - ■ ■ W1**	
	34	1 120	42.41	17 400	1.7	118	**2KJ4306 - ■ GJ21 - ■ ■ V1**	
	40	945	35.91	17 400	1.9	118	**2KJ4306 - ■ GJ21 - ■ ■ U1**	
	43	890	33.8	17 400	2.1	118	**2KJ4306 - ■ GJ21 - ■ ■ T1**	
	46	825	31.21	17 400	2.2	118	**2KJ4306 - ■ GJ21 - ■ ■ S1**	
	52	730	27.77	17 400	2.5	118	**2KJ4306 - ■ GJ21 - ■ ■ R1**	
	59	650	24.67	17 400	2.8	118	**2KJ4306 - ■ GJ21 - ■ ■ Q1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**FD.109-LHN112MF4**							
	9.9	3 870	146.65	25 000	0.8	160	**2KJ4407 - ■ GJ21 - ■ ■ H1**	
	12	3 310	125.37	25 000	0.94	160	**2KJ4407 - ■ GJ21 - ■ ■ G1**	
	13	2 960	111.95	25 000	1.0	160	**2KJ4407 - ■ GJ21 - ■ ■ F1**	
	15	2 610	98.94	25 000	1.2	160	**2KJ4407 - ■ GJ21 - ■ ■ E1**	
	17	2 290	86.83	25 000	1.4	160	**2KJ4407 - ■ GJ21 - ■ ■ D1**	
	19	1 990	75.59	25 000	1.6	160	**2KJ4407 - ■ GJ21 - ■ ■ C1**	
	22	1 700	64.62	25 000	1.8	160	**2KJ4407 - ■ GJ21 - ■ ■ B1**	
	26	1 460	55.31	25 000	2.1	160	**2KJ4407 - ■ GJ21 - ■ ■ A1**	
	FZ.109-LHN112MF4							
	20	1 870	70.74	25 000	1.7	157	**2KJ4307 - ■ GJ21 - ■ ■ B2**	
	22	1 720	65.3	25 000	1.8	157	**2KJ4307 - ■ GJ21 - ■ ■ A2**	
	24	1 580	60.12	25 000	2.0	157	**2KJ4307 - ■ GJ21 - ■ ■ X1**	
	28	1 350	51.27	25 000	2.3	157	**2KJ4307 - ■ GJ21 - ■ ■ W1**	
	30	1 270	48.25	25 000	2.4	157	**2KJ4307 - ■ GJ21 - ■ ■ V1**	
	FD.129-LHN112MF4							
	7.0	5 450	206.32	36 600	0.89	215	**2KJ4408 - ■ GJ21 - ■ ■ L1**	
	7.8	4 900	185.66	37 100	0.99	215	**2KJ4408 - ■ GJ21 - ■ ■ K1**	
	9.0	4 260	161.14	37 500	1.1	215	**2KJ4408 - ■ GJ21 - ■ ■ J1**	
	10	3 830	144.92	37 500	1.3	215	**2KJ4408 - ■ GJ21 - ■ ■ H1**	
	11	3 340	126.66	37 500	1.4	215	**2KJ4408 - ■ GJ21 - ■ ■ G1**	
	13	2 980	113.03	37 500	1.6	215	**2KJ4408 - ■ GJ21 - ■ ■ F1**	
	15	2 630	99.58	37 500	1.8	215	**2KJ4408 - ■ GJ21 - ■ ■ E1**	
	17	2 300	87.25	37 500	2.1	215	**2KJ4408 - ■ GJ21 - ■ ■ D1**	
	FD.149-LHN112MF4							
	3.8	9 960	377	65 000	0.8	303	**2KJ4410 - ■ GJ21 - ■ ■ W1**	
	4.5	8 540	323.04	65 000	0.94	303	**2KJ4410 - ■ GJ21 - ■ ■ V1**	
	4.8	8 030	304.03	65 000	1.0	303	**2KJ4410 - ■ GJ21 - ■ ■ U1**	
	5.1	7 530	285	65 000	1.1	303	**2KJ4410 - ■ GJ21 - ■ ■ T1**	
	5.7	6 670	252.64	65 000	1.2	303	**2KJ4410 - ■ GJ21 - ■ ■ S1**	
	6.4	5 930	224.42	65 000	1.3	303	**2KJ4410 - ■ GJ21 - ■ ■ R1**	
	7.1	5 350	202.5	65 000	1.5	303	**2KJ4410 - ■ GJ21 - ■ ■ Q1**	
	8.1	4 740	179.44	65 000	1.7	303	**2KJ4410 - ■ GJ21 - ■ ■ P1**	
	9.1	4 200	158.91	65 000	1.9	303	**2KJ4410 - ■ GJ21 - ■ ■ N1**	
	10	3 730	141.43	65 000	2.1	303	**2KJ4410 - ■ GJ21 - ■ ■ M1**	
	FD.169-LHN112MF4							
	3.9	9 720	368	73 500	1.4	449	**2KJ4411 - ■ GJ21 - ■ ■ V1**	
	4.2	9 060	343.01	73 500	1.5	449	**2KJ4411 - ■ GJ21 - ■ ■ U1**	
	4.7	8 060	304.94	73 500	1.7	449	**2KJ4411 - ■ GJ21 - ■ ■ T1**	
	5.3	7 230	273.8	73 500	1.9	449	**2KJ4411 - ■ GJ21 - ■ ■ S1**	
	5.8	6 550	247.84	73 500	2.1	449	**2KJ4411 - ■ GJ21 - ■ ■ R1**	
5.5	**FZ.49-LHN132SH4**							
	88	595	16.47	2 100	0.8	98	**2KJ4303 - ■ HF21 - ■ ■ K1**	
	102	510	14.11	2 400	0.94	98	**2KJ4303 - ■ HF21 - ■ ■ J1**	
	117	450	12.4	2 500	1.1	98	**2KJ4303 - ■ HF21 - ■ ■ H1**	
	138	380	10.46	2 700	1.3	98	**2KJ4303 - ■ HF21 - ■ ■ G1**	
	158	330	9.12	2 800	1.4	98	**2KJ4303 - ■ HF21 - ■ ■ F1**	
	172	305	8.40	2 600	1.5	98	**2KJ4303 - ■ HF21 - ■ ■ E1**	
	201	260	7.20	2 700	1.7	98	**2KJ4303 - ■ HF21 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**FZ.49-LHN132SH4**							
	228	230	6.33	2 700	1.9	98	**2KJ4303 - ■ HF21 - ■ ■ C1**	
	271	194	5.34	2 700	2.1	98	**2KJ4303 - ■ HF21 - ■ ■ B1**	
	311	169	4.65	2 700	2.2	98	**2KJ4303 - ■ HF21 - ■ ■ A1**	
	FZ.69-LHN132SH4							
	71	740	20.37	4 500	0.81	102	**2KJ4304 - ■ HF21 - ■ ■ L1**	
	83	630	17.33	4 700	0.95	102	**2KJ4304 - ■ HF21 - ■ ■ K1**	
	97	540	14.85	4 800	1.1	102	**2KJ4304 - ■ HF21 - ■ ■ J1**	
	111	475	13.06	4 900	1.3	102	**2KJ4304 - ■ HF21 - ■ ■ H1**	
	131	400	11.01	4 900	1.5	102	**2KJ4304 - ■ HF21 - ■ ■ G1**	
	151	345	9.60	4 900	1.7	102	**2KJ4304 - ■ HF21 - ■ ■ F1**	
	162	320	8.90	4 800	1.5	102	**2KJ4304 - ■ HF21 - ■ ■ E1**	
	190	275	7.62	4 700	1.7	102	**2KJ4304 - ■ HF21 - ■ ■ D1**	
	216	240	6.70	4 700	1.8	102	**2KJ4304 - ■ HF21 - ■ ■ C1**	
	255	205	5.66	4 600	2.0	102	**2KJ4304 - ■ HF21 - ■ ■ B1**	
	293	179	4.93	4 500	2.1	102	**2KJ4304 - ■ HF21 - ■ ■ A1**	
	FZ.79-LHN132SH4							
	44	1 200	33.02	13 200	0.83	110	**2KJ4305 - ■ HF21 - ■ ■ S1**	
	52	1 000	27.71	13 600	0.99	110	**2KJ4305 - ■ HF21 - ■ ■ R1**	
	55	945	26.08	13 700	1.1	110	**2KJ4305 - ■ HF21 - ■ ■ Q1**	
	60	870	23.93	13 800	1.1	110	**2KJ4305 - ■ HF21 - ■ ■ P1**	
	69	760	20.9	14 000	1.3	110	**2KJ4305 - ■ HF21 - ■ ■ N1**	
	77	680	18.71	14 200	1.5	110	**2KJ4305 - ■ HF21 - ■ ■ M1**	
	88	595	16.36	14 400	1.7	110	**2KJ4305 - ■ HF21 - ■ ■ L1**	
	103	510	14.04	14 000	2.0	110	**2KJ4305 - ■ HF21 - ■ ■ K1**	
	116	450	12.41	13 700	2.2	110	**2KJ4305 - ■ HF21 - ■ ■ J1**	
	137	380	10.56	13 300	2.6	110	**2KJ4305 - ■ HF21 - ■ ■ H1**	
	160	325	9.05	12 900	3.0	110	**2KJ4305 - ■ HF21 - ■ ■ G1**	
	170	305	8.51	12 700	2.3	110	**2KJ4305 - ■ HF21 - ■ ■ F1**	
	194	270	7.44	12 300	2.7	110	**2KJ4305 - ■ HF21 - ■ ■ E1**	
	226	230	6.39	11 900	3.1	110	**2KJ4305 - ■ HF21 - ■ ■ D1**	
	256	205	5.64	11 600	3.4	110	**2KJ4305 - ■ HF21 - ■ ■ C1**	
	301	174	4.80	11 100	3.7	110	**2KJ4305 - ■ HF21 - ■ ■ B1**	
	352	149	4.11	10 700	4.0	110	**2KJ4305 - ■ HF21 - ■ ■ A1**	
	FD.89-LHN132SH4							
	24	2 180	60.09	17 400	0.85	141	**2KJ4406 - ■ HF21 - ■ ■ B1**	
	28	1 870	51.51	17 400	0.99	141	**2KJ4406 - ■ HF21 - ■ ■ A1**	
	FZ.89-LHN132SH4							
	34	1 540	42.41	17 400	1.2	140	**2KJ4306 - ■ HF21 - ■ ■ V1**	
	40	1 300	35.91	17 400	1.4	140	**2KJ4306 - ■ HF21 - ■ ■ U1**	
	43	1 220	33.8	17 400	1.5	140	**2KJ4306 - ■ HF21 - ■ ■ T1**	
	46	1 130	31.21	17 400	1.6	140	**2KJ4306 - ■ HF21 - ■ ■ S1**	
	52	1 000	27.77	17 400	1.8	140	**2KJ4306 - ■ HF21 - ■ ■ R1**	
	59	895	24.67	17 400	2.1	140	**2KJ4306 - ■ HF21 - ■ ■ Q1**	
	65	800	22.08	17 400	2.3	140	**2KJ4306 - ■ HF21 - ■ ■ P1**	
	77	685	18.88	17 400	2.7	140	**2KJ4306 - ■ HF21 - ■ ■ N1**	
	86	610	16.86	17 400	3.0	140	**2KJ4306 - ■ HF21 - ■ ■ M1**	
	97	540	14.9	17 400	3.4	140	**2KJ4306 - ■ HF21 - ■ ■ L1**	
	190	275	7.60	17 400	4.0	140	**2KJ4306 - ■ HF21 - ■ ■ F1**	
	215	240	6.72	17 200	4.5	140	**2KJ4306 - ■ HF21 - ■ ■ E1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
5.5	**FD.109-LHN132SH4**							
	15	3 590	98.94	25 000	0.86	182	**2KJ4407 - ■ HF21 - ■ ■ E1**	
	17	3 150	86.83	25 000	0.98	182	**2KJ4407 - ■ HF21 - ■ ■ D1**	
	19	2 740	75.59	25 000	1.1	182	**2KJ4407 - ■ HF21 - ■ ■ C1**	
	22	2 340	64.62	25 000	1.3	182	**2KJ4407 - ■ HF21 - ■ ■ B1**	
	26	2 010	55.31	25 000	1.5	182	**2KJ4407 - ■ HF21 - ■ ■ A1**	
	FZ.109-LHN132SH4							
	24	2 180	60.12	25 000	1.4	178	**2KJ4307 - ■ HF21 - ■ ■ X1**	
	28	1 860	51.27	25 000	1.7	178	**2KJ4307 - ■ HF21 - ■ ■ W1**	
	30	1 750	48.25	25 000	1.8	178	**2KJ4307 - ■ HF21 - ■ ■ V1**	
	32	1 620	44.78	25 000	1.9	178	**2KJ4307 - ■ HF21 - ■ ■ U1**	
	36	1 430	39.59	25 000	2.2	178	**2KJ4307 - ■ HF21 - ■ ■ T1**	
	41	1 280	35.34	25 000	2.4	178	**2KJ4307 - ■ HF21 - ■ ■ S1**	
	45	1 150	31.8	25 000	2.7	178	**2KJ4307 - ■ HF21 - ■ ■ R1**	
	FD.129-LHN132SH4							
	9.0	5 850	161.14	36 200	0.83	236	**2KJ4408 - ■ HF21 - ■ ■ J1**	
	10	5 260	144.92	36 800	0.92	236	**2KJ4408 - ■ HF21 - ■ ■ H1**	
	11	4 600	126.66	37 400	1.1	236	**2KJ4408 - ■ HF21 - ■ ■ G1**	
	13	4 100	113.03	37 500	1.2	236	**2KJ4408 - ■ HF21 - ■ ■ F1**	
	15	3 620	99.58	37 500	1.3	236	**2KJ4408 - ■ HF21 - ■ ■ E1**	
	17	3 170	87.25	37 500	1.5	236	**2KJ4408 - ■ HF21 - ■ ■ D1**	
	19	2 760	76.04	37 500	1.8	236	**2KJ4408 - ■ HF21 - ■ ■ C1**	
	21	2 520	69.4	37 500	1.9	236	**2KJ4408 - ■ HF21 - ■ ■ B1**	
	24	2 170	59.75	37 500	2.2	236	**2KJ4408 - ■ HF21 - ■ ■ A1**	
	FZ.129-LHN132SH4							
	21	2 510	69.2	37 500	1.9	231	**2KJ4308 - ■ HF21 - ■ ■ A2**	
	24	2 150	59.22	37 500	2.3	231	**2KJ4308 - ■ HF21 - ■ ■ X1**	
	26	2 020	55.74	37 500	2.4	231	**2KJ4308 - ■ HF21 - ■ ■ W1**	
	FD.149-LHN132SH4							
	5.7	9 180	252.64	65 000	0.87	322	**2KJ4410 - ■ HF21 - ■ ■ S1**	
	6.4	8 150	224.42	65 000	0.98	322	**2KJ4410 - ■ HF21 - ■ ■ R1**	
	7.1	7 360	202.5	65 000	1.1	322	**2KJ4410 - ■ HF21 - ■ ■ Q1**	
	8.1	6 520	179.44	65 000	1.2	322	**2KJ4410 - ■ HF21 - ■ ■ P1**	
	9.1	5 770	158.91	65 000	1.4	322	**2KJ4410 - ■ HF21 - ■ ■ N1**	
	10	5 140	141.43	65 000	1.6	322	**2KJ4410 - ■ HF21 - ■ ■ M1**	
	11	4 600	126.73	65 000	1.7	322	**2KJ4410 - ■ HF21 - ■ ■ L1**	
	13	4 080	112.36	65 000	2.0	322	**2KJ4410 - ■ HF21 - ■ ■ K1**	
	15	3 600	99.18	65 000	2.2	322	**2KJ4410 - ■ HF21 - ■ ■ J1**	
	FD.169-LHN132SH4							
	3.9	13 300	368	73 500	1.0	469	**2KJ4411 - ■ HF21 - ■ ■ V1**	
	4.2	12 400	343.01	73 500	1.1	469	**2KJ4411 - ■ HF21 - ■ ■ U1**	
	4.7	11 000	304.94	73 500	1.2	469	**2KJ4411 - ■ HF21 - ■ ■ T1**	
	5.3	9 950	273.8	73 500	1.4	469	**2KJ4411 - ■ HF21 - ■ ■ S1**	
	5.8	9 000	247.84	73 500	1.5	469	**2KJ4411 - ■ HF21 - ■ ■ R1**	
	6.6	7 910	217.7	73 500	1.7	469	**2KJ4411 - ■ HF21 - ■ ■ Q1**	
	7.3	7 170	197.27	73 500	1.9	469	**2KJ4411 - ■ HF21 - ■ ■ P1**	
	8.2	6 380	175.69	73 500	2.1	469	**2KJ4411 - ■ HF21 - ■ ■ N1**	
	FD.189-LHN132SH4							
	4.2	12 600	347.35	110 900	1.5	681	**2KJ4412 - ■ HF21 - ■ ■ T1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
5.5	**FD.189-LHN132SH4**							
	4.6	11 200	310.76	110 900	1.7	681	**2KJ4412 - ■ HF21 - ■ ■ S1**	
	5.2	10 100	280.27	110 900	1.9	681	**2KJ4412 - ■ HF21 - ■ ■ R1**	
	5.8	9 000	247.71	110 900	2.1	681	**2KJ4412 - ■ HF21 - ■ ■ Q1**	
7.5	**FZ.49-LHN132MKA4**							
	139	515	10.46	1 800	0.93	113	**2KJ4303 - ■ HJ21 - ■ ■ G1**	
	159	450	9.12	2 000	1.1	113	**2KJ4303 - ■ HJ21 - ■ ■ F1**	
	173	415	8.40	1 800	1.1	113	**2KJ4303 - ■ HJ21 - ■ ■ E1**	
	201	355	7.20	2 000	1.3	113	**2KJ4303 - ■ HJ21 - ■ ■ D1**	
	229	310	6.33	2 100	1.4	113	**2KJ4303 - ■ HJ21 - ■ ■ C1**	
	272	260	5.34	2 200	1.5	113	**2KJ4303 - ■ HJ21 - ■ ■ B1**	
	312	230	4.65	2 300	1.6	113	**2KJ4303 - ■ HJ21 - ■ ■ A1**	
	FZ.69-LHN132MKA4							
	98	730	14.85	3 600	0.82	117	**2KJ4304 - ■ HJ21 - ■ ■ J1**	
	111	645	13.06	3 800	0.93	117	**2KJ4304 - ■ HJ21 - ■ ■ H1**	
	132	540	11.01	4 000	1.1	117	**2KJ4304 - ■ HJ21 - ■ ■ G1**	
	151	470	9.60	4 100	1.3	117	**2KJ4304 - ■ HJ21 - ■ ■ F1**	
	163	440	8.90	4 000	1.1	117	**2KJ4304 - ■ HJ21 - ■ ■ E1**	
	190	375	7.62	4 100	1.2	117	**2KJ4304 - ■ HJ21 - ■ ■ D1**	
	216	330	6.70	4 100	1.3	117	**2KJ4304 - ■ HJ21 - ■ ■ C1**	
	256	280	5.66	4 100	1.5	117	**2KJ4304 - ■ HJ21 - ■ ■ B1**	
	294	240	4.93	4 100	1.6	117	**2KJ4304 - ■ HJ21 - ■ ■ A1**	
	FZ.79-LHN132MKA4							
	61	1 180	23.93	13 200	0.85	125	**2KJ4305 - ■ HJ21 - ■ ■ P1**	
	69	1 030	20.9	13 400	0.97	125	**2KJ4305 - ■ HJ21 - ■ ■ N1**	
	77	920	18.71	13 400	1.1	125	**2KJ4305 - ■ HJ21 - ■ ■ M1**	
	89	805	16.36	13 300	1.2	125	**2KJ4305 - ■ HJ21 - ■ ■ L1**	
	103	690	14.04	13 100	1.4	125	**2KJ4305 - ■ HJ21 - ■ ■ K1**	
	117	610	12.41	12 900	1.6	125	**2KJ4305 - ■ HJ21 - ■ ■ J1**	
	137	520	10.56	12 600	1.9	125	**2KJ4305 - ■ HJ21 - ■ ■ H1**	
	160	445	9.05	12 300	2.2	125	**2KJ4305 - ■ HJ21 - ■ ■ G1**	
	170	420	8.51	12 000	1.7	125	**2KJ4305 - ■ HJ21 - ■ ■ F1**	
	195	365	7.44	11 800	2.0	125	**2KJ4305 - ■ HJ21 - ■ ■ E1**	
	227	315	6.39	11 400	2.3	125	**2KJ4305 - ■ HJ21 - ■ ■ D1**	
	257	275	5.64	11 200	2.5	125	**2KJ4305 - ■ HJ21 - ■ ■ C1**	
	302	235	4.80	10 800	2.7	125	**2KJ4305 - ■ HJ21 - ■ ■ B1**	
	353	200	4.11	10 400	3.0	125	**2KJ4305 - ■ HJ21 - ■ ■ A1**	
	FZ.89-LHN132MKA4							
	34	2 090	42.41	17 400	0.88	155	**2KJ4306 - ■ HJ21 - ■ ■ V1**	
	40	1 770	35.91	17 400	1.0	155	**2KJ4306 - ■ HJ21 - ■ ■ U1**	
	43	1 670	33.8	17 400	1.1	155	**2KJ4306 - ■ HJ21 - ■ ■ T1**	
	46	1 540	31.21	17 400	1.2	155	**2KJ4306 - ■ HJ21 - ■ ■ S1**	
	52	1 370	27.77	17 400	1.3	155	**2KJ4306 - ■ HJ21 - ■ ■ R1**	
	59	1 210	24.67	17 400	1.5	155	**2KJ4306 - ■ HJ21 - ■ ■ Q1**	
	66	1 090	22.08	17 400	1.7	155	**2KJ4306 - ■ HJ21 - ■ ■ P1**	
	77	930	18.88	17 400	2.0	155	**2KJ4306 - ■ HJ21 - ■ ■ N1**	
	86	830	16.86	17 400	2.2	155	**2KJ4306 - ■ HJ21 - ■ ■ M1**	
	97	735	14.9	17 400	2.5	155	**2KJ4306 - ■ HJ21 - ■ ■ L1**	
	111	645	13.07	17 400	2.9	155	**2KJ4306 - ■ HJ21 - ■ ■ K1**	
	127	560	11.38	17 400	3.3	155	**2KJ4306 - ■ HJ21 - ■ ■ J1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**FZ.89-LHN132MKA4**							
	149	480	9.73	17 400	3.8	155	**2KJ4306 - ■ HJ21 - ■ ■ H1**	
	174	410	8.33	17 400	4.2	155	**2KJ4306 - ■ HJ21 - ■ ■ G1**	
	191	375	7.60	17 300	2.9	155	**2KJ4306 - ■ HJ21 - ■ ■ F1**	
	216	330	6.72	16 800	3.3	155	**2KJ4306 - ■ HJ21 - ■ ■ E1**	
	246	290	5.90	16 300	3.8	155	**2KJ4306 - ■ HJ21 - ■ ■ D1**	
	283	250	5.13	15 700	4.4	155	**2KJ4306 - ■ HJ21 - ■ ■ C1**	
	330	215	4.39	15 100	4.9	155	**2KJ4306 - ■ HJ21 - ■ ■ B1**	
	386	186	3.76	14 500	5.3	155	**2KJ4306 - ■ HJ21 - ■ ■ A1**	
	FD.109-LHN132MKA4							
	19	3 730	75.59	25 000	0.83	197	**2KJ4407 - ■ HJ21 - ■ ■ C1**	
	22	3 190	64.62	25 000	0.97	197	**2KJ4407 - ■ HJ21 - ■ ■ B1**	
	26	2 730	55.31	25 000	1.1	197	**2KJ4407 - ■ HJ21 - ■ ■ A1**	
	FZ.109-LHN132MKA4							
	24	2 970	60.12	25 000	1.0	193	**2KJ4307 - ■ HJ21 - ■ ■ X1**	
	28	2 530	51.27	25 000	1.2	193	**2KJ4307 - ■ HJ21 - ■ ■ W1**	
	30	2 380	48.25	25 000	1.3	193	**2KJ4307 - ■ HJ21 - ■ ■ V1**	
	32	2 210	44.78	25 000	1.4	193	**2KJ4307 - ■ HJ21 - ■ ■ U1**	
	37	1 950	39.59	25 000	1.6	193	**2KJ4307 - ■ HJ21 - ■ ■ T1**	
	41	1 740	35.34	25 000	1.8	193	**2KJ4307 - ■ HJ21 - ■ ■ S1**	
	46	1 570	31.8	25 000	2.0	193	**2KJ4307 - ■ HJ21 - ■ ■ R1**	
	53	1 360	27.6	25 000	2.3	193	**2KJ4307 - ■ HJ21 - ■ ■ Q1**	
	58	1 220	24.82	25 000	2.5	193	**2KJ4307 - ■ HJ21 - ■ ■ P1**	
	67	1 070	21.7	25 000	2.9	193	**2KJ4307 - ■ HJ21 - ■ ■ N1**	
	75	955	19.36	25 000	3.2	193	**2KJ4307 - ■ HJ21 - ■ ■ M1**	
	FD.129-LHN132MKA4							
	13	5 580	113.03	36 400	0.87	251	**2KJ4408 - ■ HJ21 - ■ ■ F1**	
	15	4 910	99.58	37 100	0.99	251	**2KJ4408 - ■ HJ21 - ■ ■ E1**	
	17	4 310	87.25	37 500	1.1	251	**2KJ4408 - ■ HJ21 - ■ ■ D1**	
	19	3 750	76.04	37 500	1.3	251	**2KJ4408 - ■ HJ21 - ■ ■ C1**	
	21	3 420	69.4	37 500	1.4	251	**2KJ4408 - ■ HJ21 - ■ ■ B1**	
	24	2 950	59.75	37 500	1.6	251	**2KJ4408 - ■ HJ21 - ■ ■ A1**	
	FZ.129-LHN132MKA4							
	21	3 410	69.2	37 500	1.4	246	**2KJ4308 - ■ HJ21 - ■ ■ A2**	
	24	2 920	59.22	37 500	1.7	246	**2KJ4308 - ■ HJ21 - ■ ■ X1**	
	26	2 750	55.74	37 500	1.8	246	**2KJ4308 - ■ HJ21 - ■ ■ W1**	
	28	2 580	52.25	37 500	1.9	246	**2KJ4308 - ■ HJ21 - ■ ■ V1**	
	31	2 280	46.32	37 500	2.1	246	**2KJ4308 - ■ HJ21 - ■ ■ U1**	
	35	2 030	41.14	37 500	2.4	246	**2KJ4308 - ■ HJ21 - ■ ■ T1**	
	39	1 830	37.12	37 500	2.6	246	**2KJ4308 - ■ HJ21 - ■ ■ S1**	
	FD.149-LHN132MKA4							
	7.2	10 000	202.5	64 900	0.8	337	**2KJ4410 - ■ HJ21 - ■ ■ Q1**	
	8.1	8 860	179.44	65 000	0.9	337	**2KJ4410 - ■ HJ21 - ■ ■ P1**	
	9.1	7 850	158.91	65 000	1.0	337	**2KJ4410 - ■ HJ21 - ■ ■ N1**	
	10	6 980	141.43	65 000	1.1	337	**2KJ4410 - ■ HJ21 - ■ ■ M1**	
	11	6 260	126.73	65 000	1.3	337	**2KJ4410 - ■ HJ21 - ■ ■ L1**	
	13	5 550	112.36	65 000	1.4	337	**2KJ4410 - ■ HJ21 - ■ ■ K1**	
	15	4 890	99.18	65 000	1.6	337	**2KJ4410 - ■ HJ21 - ■ ■ J1**	
	17	4 300	87.2	64 100	1.9	337	**2KJ4410 - ■ HJ21 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
7.5	**FD.149-LHN132MKA4**							
	18	3 900	78.98	62 900	2.1	337	**2KJ4410 - ■ HJ21 - ■ ■ G1**	
	21	3 390	68.76	61 200	2.4	337	**2KJ4410 - ■ HJ21 - ■ ■ F1**	
	FD.169-LHN132MKA4							
	4.2	16 900	343.01	73 500	0.8	484	**2KJ4411 - ■ HJ21 - ■ ■ U1**	
	4.8	15 000	304.94	73 500	0.9	484	**2KJ4411 - ■ HJ21 - ■ ■ T1**	
	5.3	13 500	273.8	73 500	1.0	484	**2KJ4411 - ■ HJ21 - ■ ■ S1**	
	5.9	12 200	247.84	73 500	1.1	484	**2KJ4411 - ■ HJ21 - ■ ■ R1**	
	6.7	10 700	217.7	73 500	1.3	484	**2KJ4411 - ■ HJ21 - ■ ■ Q1**	
	7.4	9 740	197.27	73 500	1.4	484	**2KJ4411 - ■ HJ21 - ■ ■ P1**	
	8.3	8 670	175.69	73 500	1.6	484	**2KJ4411 - ■ HJ21 - ■ ■ N1**	
	9.2	7 790	157.76	73 500	1.7	484	**2KJ4411 - ■ HJ21 - ■ ■ M1**	
	10	6 950	140.77	73 500	2.0	484	**2KJ4411 - ■ HJ21 - ■ ■ L1**	
	12	6 190	125.49	73 500	2.2	484	**2KJ4411 - ■ HJ21 - ■ ■ K1**	
	FD.189-LHN132MKA4							
	4.2	17 100	347.35	110 900	1.1	696	**2KJ4412 - ■ HJ21 - ■ ■ T1**	
	4.7	15 300	310.76	110 900	1.2	696	**2KJ4412 - ■ HJ21 - ■ ■ S1**	
	5.2	13 800	280.27	110 900	1.4	696	**2KJ4412 - ■ HJ21 - ■ ■ R1**	
	5.9	12 200	247.71	110 900	1.6	696	**2KJ4412 - ■ HJ21 - ■ ■ Q1**	
	6.4	11 100	226.42	110 900	1.7	696	**2KJ4412 - ■ HJ21 - ■ ■ P1**	
	7.1	10 000	203.69	110 900	1.9	696	**2KJ4412 - ■ HJ21 - ■ ■ N1**	
	8.0	8 990	182.03	110 900	2.1	696	**2KJ4412 - ■ HJ21 - ■ ■ M1**	
9.2	**FZ.49-LHN132MKB4**							
	158	555	9.12	1 300	0.87	113	**2KJ4303 - ■ HT21 - ■ ■ F1**	
	172	510	8.40	1 100	0.88	113	**2KJ4303 - ■ HT21 - ■ ■ E1**	
	201	435	7.20	1 400	1.0	113	**2KJ4303 - ■ HT21 - ■ ■ D1**	
	228	385	6.33	1 600	1.1	113	**2KJ4303 - ■ HT21 - ■ ■ C1**	
	271	325	5.34	1 800	1.2	113	**2KJ4303 - ■ HT21 - ■ ■ B1**	
	311	280	4.65	1 900	1.3	113	**2KJ4303 - ■ HT21 - ■ ■ A1**	
	FZ.69-LHN132MKB4							
	131	665	11.01	3 300	0.9	117	**2KJ4304 - ■ HT21 - ■ ■ G1**	
	151	580	9.60	3 400	1.0	117	**2KJ4304 - ■ HT21 - ■ ■ F1**	
	162	540	8.90	3 300	0.88	117	**2KJ4304 - ■ HT21 - ■ ■ E1**	
	190	460	7.62	3 500	1.0	117	**2KJ4304 - ■ HT21 - ■ ■ D1**	
	216	405	6.70	3 600	1.1	117	**2KJ4304 - ■ HT21 - ■ ■ C1**	
	255	340	5.66	3 700	1.2	117	**2KJ4304 - ■ HT21 - ■ ■ B1**	
	293	300	4.93	3 700	1.3	117	**2KJ4304 - ■ HT21 - ■ ■ A1**	
	FZ.79-LHN132MKB4							
	77	1 130	18.71	12 300	0.88	125	**2KJ4305 - ■ HT21 - ■ ■ M1**	
	88	995	16.36	12 300	1.0	125	**2KJ4305 - ■ HT21 - ■ ■ L1**	
	103	850	14.04	12 300	1.2	125	**2KJ4305 - ■ HT21 - ■ ■ K1**	
	116	755	12.41	12 100	1.3	125	**2KJ4305 - ■ HT21 - ■ ■ J1**	
	137	640	10.56	12 000	1.6	125	**2KJ4305 - ■ HT21 - ■ ■ H1**	
	160	550	9.05	11 800	1.8	125	**2KJ4305 - ■ HT21 - ■ ■ G1**	
	170	515	8.51	11 500	1.4	125	**2KJ4305 - ■ HT21 - ■ ■ F1**	
	194	450	7.44	11 300	1.6	125	**2KJ4305 - ■ HT21 - ■ ■ E1**	
	226	385	6.39	11 000	1.9	125	**2KJ4305 - ■ HT21 - ■ ■ D1**	
	256	340	5.64	10 800	2.0	125	**2KJ4305 - ■ HT21 - ■ ■ C1**	
	301	290	4.80	10 500	2.2	125	**2KJ4305 - ■ HT21 - ■ ■ B1**	
	352	250	4.11	10 200	2.4	125	**2KJ4305 - ■ HT21 - ■ ■ A1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**FZ.89-LHN132MKB4**							
	40	2 180	35.91	17 400	0.85	155	**2KJ4306 - ■ HT21 - ■ ■ U1**	
	43	2 050	33.8	17 400	0.9	155	**2KJ4306 - ■ HT21 - ■ ■ T1**	
	46	1 890	31.21	17 400	0.97	155	**2KJ4306 - ■ HT21 - ■ ■ S1**	
	52	1 680	27.77	17 400	1.1	155	**2KJ4306 - ■ HT21 - ■ ■ R1**	
	59	1 500	24.67	17 400	1.2	155	**2KJ4306 - ■ HT21 - ■ ■ Q1**	
	65	1 340	22.08	17 400	1.4	155	**2KJ4306 - ■ HT21 - ■ ■ P1**	
	77	1 140	18.88	17 400	1.6	155	**2KJ4306 - ■ HT21 - ■ ■ N1**	
	86	1 020	16.86	17 400	1.8	155	**2KJ4306 - ■ HT21 - ■ ■ M1**	
	97	905	14.9	17 400	2.0	155	**2KJ4306 - ■ HT21 - ■ ■ L1**	
	111	795	13.07	17 400	2.3	155	**2KJ4306 - ■ HT21 - ■ ■ K1**	
	127	690	11.38	17 400	2.7	155	**2KJ4306 - ■ HT21 - ■ ■ J1**	
	149	590	9.73	17 400	3.1	155	**2KJ4306 - ■ HT21 - ■ ■ H1**	
	173	505	8.33	17 400	3.4	155	**2KJ4306 - ■ HT21 - ■ ■ G1**	
	190	460	7.60	16 900	2.4	155	**2KJ4306 - ■ HT21 - ■ ■ F1**	
	215	405	6.72	16 500	2.7	155	**2KJ4306 - ■ HT21 - ■ ■ E1**	
	245	355	5.90	16 000	3.1	155	**2KJ4306 - ■ HT21 - ■ ■ D1**	
	282	310	5.13	15 500	3.6	155	**2KJ4306 - ■ HT21 - ■ ■ C1**	
	329	265	4.39	14 900	4.0	155	**2KJ4306 - ■ HT21 - ■ ■ B1**	
	384	225	3.76	14 400	4.3	155	**2KJ4306 - ■ HT21 - ■ ■ A1**	
	FD.109-LHN132MKB4							
	26	3 360	55.31	25 000	0.92	197	**2KJ4407 - ■ HT21 - ■ ■ A1**	
	FZ.109-LHN132MKB4							
	24	3 650	60.12	25 000	0.85	193	**2KJ4307 - ■ HT21 - ■ ■ X1**	
	28	3 110	51.27	25 000	0.99	193	**2KJ4307 - ■ HT21 - ■ ■ W1**	
	30	2 930	48.25	25 000	1.1	193	**2KJ4307 - ■ HT21 - ■ ■ V1**	
	32	2 720	44.78	25 000	1.1	193	**2KJ4307 - ■ HT21 - ■ ■ U1**	
	36	2 400	39.59	25 000	1.3	193	**2KJ4307 - ■ HT21 - ■ ■ T1**	
	41	2 140	35.34	25 000	1.4	193	**2KJ4307 - ■ HT21 - ■ ■ S1**	
	45	1 930	31.8	25 000	1.6	193	**2KJ4307 - ■ HT21 - ■ ■ R1**	
	52	1 670	27.6	25 000	1.8	193	**2KJ4307 - ■ HT21 - ■ ■ Q1**	
	58	1 500	24.82	25 000	2.1	193	**2KJ4307 - ■ HT21 - ■ ■ P1**	
	67	1 310	21.7	25 000	2.3	193	**2KJ4307 - ■ HT21 - ■ ■ N1**	
	75	1 170	19.36	25 000	2.6	193	**2KJ4307 - ■ HT21 - ■ ■ M1**	
	85	1 030	17.06	24 700	3.0	193	**2KJ4307 - ■ HT21 - ■ ■ L1**	
	97	905	14.95	24 000	3.4	193	**2KJ4307 - ■ HT21 - ■ ■ K1**	
	160	545	9.02	21 300	3.8	193	**2KJ4307 - ■ HT21 - ■ ■ F1**	
	182	480	7.94	20 700	4.1	193	**2KJ4307 - ■ HT21 - ■ ■ E1**	
	208	420	6.96	20 000	4.5	193	**2KJ4307 - ■ HT21 - ■ ■ D1**	
	FD.129-LHN132MKB4							
	15	6 050	99.58	36 000	0.8	251	**2KJ4408 - ■ HT21 - ■ ■ E1**	
	17	5 300	87.25	36 700	0.91	251	**2KJ4408 - ■ HT21 - ■ ■ D1**	
	19	4 620	76.04	37 400	1.0	251	**2KJ4408 - ■ HT21 - ■ ■ C1**	
	21	4 220	69.4	37 500	1.1	251	**2KJ4408 - ■ HT21 - ■ ■ B1**	
	24	3 630	59.75	37 500	1.3	251	**2KJ4408 - ■ HT21 - ■ ■ A1**	
	FZ.129-LHN132MKB4							
	21	4 200	69.2	37 500	1.2	246	**2KJ4308 - ■ HT21 - ■ ■ A2**	
	24	3 600	59.22	37 500	1.3	246	**2KJ4308 - ■ HT21 - ■ ■ X1**	
	26	3 380	55.74	37 500	1.4	246	**2KJ4308 - ■ HT21 - ■ ■ W1**	
	28	3 170	52.25	37 500	1.5	246	**2KJ4308 - ■ HT21 - ■ ■ V1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
9.2	**FZ.129-LHN132MKB4**							
	31	2 810	46.32	37 500	1.7	246	**2KJ4308 - ■ HT21 - ■ ■ U1**	
	35	2 500	41.14	37 500	1.9	246	**2KJ4308 - ■ HT21 - ■ ■ T1**	
	39	2 250	37.12	37 500	2.1	246	**2KJ4308 - ■ HT21 - ■ ■ S1**	
	44	2 000	32.9	37 500	2.4	246	**2KJ4308 - ■ HT21 - ■ ■ R1**	
	50	1 770	29.13	37 200	2.7	246	**2KJ4308 - ■ HT21 - ■ ■ Q1**	
	FD.149-LHN132MKB4							
	9.1	9 660	158.91	65 000	0.83	337	**2KJ4410 - ■ HT21 - ■ ■ N1**	
	10	8 590	141.43	65 000	0.93	337	**2KJ4410 - ■ HT21 - ■ ■ M1**	
	11	7 700	126.73	64 600	1.0	337	**2KJ4410 - ■ HT21 - ■ ■ L1**	
	13	6 830	112.36	63 800	1.2	337	**2KJ4410 - ■ HT21 - ■ ■ K1**	
	15	6 030	99.18	62 800	1.3	337	**2KJ4410 - ■ HT21 - ■ ■ J1**	
	17	5 300	87.2	61 700	1.5	337	**2KJ4410 - ■ HT21 - ■ ■ H1**	
	18	4 800	78.98	60 700	1.7	337	**2KJ4410 - ■ HT21 - ■ ■ G1**	
	21	4 180	68.76	59 300	1.9	337	**2KJ4410 - ■ HT21 - ■ ■ F1**	
	26	3 420	56.37	57 200	2.3	337	**2KJ4410 - ■ HT21 - ■ ■ E1**	
	FD.169-LHN132MKB4							
	5.3	16 600	273.8	73 500	0.82	484	**2KJ4411 - ■ HT21 - ■ ■ S1**	
	5.8	15 000	247.84	73 500	0.9	484	**2KJ4411 - ■ HT21 - ■ ■ R1**	
	6.6	13 200	217.7	73 500	1.0	484	**2KJ4411 - ■ HT21 - ■ ■ Q1**	
	7.3	11 900	197.27	73 500	1.1	484	**2KJ4411 - ■ HT21 - ■ ■ P1**	
	8.2	10 600	175.69	73 500	1.3	484	**2KJ4411 - ■ HT21 - ■ ■ N1**	
	9.2	9 590	157.76	73 500	1.4	484	**2KJ4411 - ■ HT21 - ■ ■ M1**	
	10	8 550	140.77	73 500	1.6	484	**2KJ4411 - ■ HT21 - ■ ■ L1**	
	12	7 630	125.49	73 500	1.8	484	**2KJ4411 - ■ HT21 - ■ ■ K1**	
	13	6 760	111.3	73 500	2.0	484	**2KJ4411 - ■ HT21 - ■ ■ J1**	
	14	6 210	102.18	73 500	2.2	484	**2KJ4411 - ■ HT21 - ■ ■ H1**	
	FD.189-LHN132MKB4							
	4.2	21 100	347.35	110 900	0.9	696	**2KJ4412 - ■ HT21 - ■ ■ T1**	
	4.6	18 800	310.76	110 900	1.0	696	**2KJ4412 - ■ HT21 - ■ ■ S1**	
	5.2	17 000	280.27	110 900	1.1	696	**2KJ4412 - ■ HT21 - ■ ■ R1**	
	5.8	15 000	247.71	110 900	1.3	696	**2KJ4412 - ■ HT21 - ■ ■ Q1**	
	6.4	13 700	226.42	110 900	1.4	696	**2KJ4412 - ■ HT21 - ■ ■ P1**	
	7.1	12 300	203.69	110 900	1.5	696	**2KJ4412 - ■ HT21 - ■ ■ N1**	
	7.9	11 000	182.03	110 900	1.7	696	**2KJ4412 - ■ HT21 - ■ ■ M1**	
	8.8	10 000	164.61	110 900	1.9	696	**2KJ4412 - ■ HT21 - ■ ■ L1**	
11	**FZ.79-LHN160MK4**							
	89	1 180	16.36	11 300	0.85	169	**2KJ4305 - ■ JQ21 - ■ ■ L1**	
	104	1 010	14.04	11 400	0.99	169	**2KJ4305 - ■ JQ21 - ■ ■ K1**	
	117	895	12.41	11 400	1.1	169	**2KJ4305 - ■ JQ21 - ■ ■ J1**	
	138	760	10.56	11 300	1.3	169	**2KJ4305 - ■ JQ21 - ■ ■ H1**	
	161	650	9.05	11 200	1.5	169	**2KJ4305 - ■ JQ21 - ■ ■ G1**	
	171	610	8.51	10 900	1.2	169	**2KJ4305 - ■ JQ21 - ■ ■ F1**	
	196	535	7.44	10 800	1.3	169	**2KJ4305 - ■ JQ21 - ■ ■ E1**	
	228	460	6.39	10 600	1.6	169	**2KJ4305 - ■ JQ21 - ■ ■ D1**	
	258	405	5.64	10 400	1.7	169	**2KJ4305 - ■ JQ21 - ■ ■ C1**	
	303	345	4.80	10 100	1.9	169	**2KJ4305 - ■ JQ21 - ■ ■ B1**	
	354	295	4.11	9 900	2.0	169	**2KJ4305 - ■ JQ21 - ■ ■ A1**	
	FZ.89-LHN160MK4							
	47	2 250	31.21	17 400	0.82	200	**2KJ4306 - ■ JQ21 - ■ ■ S1**	

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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**FZ.89-LHN160MK4**							
	52	2 000	27.77	17 400	0.92	200	**2KJ4306 - ■ JQ21 - ■ ■ R1**	
	59	1 780	24.67	17 400	1.0	200	**2KJ4306 - ■ JQ21 - ■ ■ Q1**	
	66	1 590	22.08	17 400	1.2	200	**2KJ4306 - ■ JQ21 - ■ ■ P1**	
	77	1 360	18.88	17 400	1.4	200	**2KJ4306 - ■ JQ21 - ■ ■ N1**	
	86	1 210	16.86	17 400	1.5	200	**2KJ4306 - ■ JQ21 - ■ ■ M1**	
	98	1 070	14.9	17 400	1.7	200	**2KJ4306 - ■ JQ21 - ■ ■ L1**	
	111	940	13.07	17 400	2.0	200	**2KJ4306 - ■ JQ21 - ■ ■ K1**	
	128	820	11.38	17 400	2.3	200	**2KJ4306 - ■ JQ21 - ■ ■ J1**	
	150	700	9.73	17 400	2.6	200	**2KJ4306 - ■ JQ21 - ■ ■ H1**	
	175	600	8.33	17 000	2.9	200	**2KJ4306 - ■ JQ21 - ■ ■ G1**	
	191	545	7.60	16 500	2.0	200	**2KJ4306 - ■ JQ21 - ■ ■ F1**	
	217	485	6.72	16 100	2.3	200	**2KJ4306 - ■ JQ21 - ■ ■ E1**	
	247	425	5.90	15 700	2.6	200	**2KJ4306 - ■ JQ21 - ■ ■ D1**	
	284	370	5.13	15 200	3.0	200	**2KJ4306 - ■ JQ21 - ■ ■ C1**	
	331	315	4.39	14 700	3.3	200	**2KJ4306 - ■ JQ21 - ■ ■ B1**	
	387	270	3.76	14 100	3.6	200	**2KJ4306 - ■ JQ21 - ■ ■ A1**	
	FZ.109-LHN160MK4							
	28	3 700	51.27	25 000	0.84	237	**2KJ4307 - ■ JQ21 - ■ ■ W1**	
	30	3 480	48.25	25 000	0.89	237	**2KJ4307 - ■ JQ21 - ■ ■ V1**	
	32	3 230	44.78	25 000	0.96	237	**2KJ4307 - ■ JQ21 - ■ ■ U1**	
	37	2 850	39.59	25 000	1.1	237	**2KJ4307 - ■ JQ21 - ■ ■ T1**	
	41	2 550	35.34	25 000	1.2	237	**2KJ4307 - ■ JQ21 - ■ ■ S1**	
	46	2 290	31.8	25 000	1.4	237	**2KJ4307 - ■ JQ21 - ■ ■ R1**	
	53	1 990	27.6	25 000	1.6	237	**2KJ4307 - ■ JQ21 - ■ ■ Q1**	
	59	1 790	24.82	25 000	1.7	237	**2KJ4307 - ■ JQ21 - ■ ■ P1**	
	67	1 560	21.7	25 000	2.0	237	**2KJ4307 - ■ JQ21 - ■ ■ N1**	
	75	1 390	19.36	24 500	2.2	237	**2KJ4307 - ■ JQ21 - ■ ■ M1**	
	85	1 230	17.06	24 000	2.5	237	**2KJ4307 - ■ JQ21 - ■ ■ L1**	
	97	1 070	14.95	23 400	2.9	237	**2KJ4307 - ■ JQ21 - ■ ■ K1**	
	112	940	13.03	22 700	3.3	237	**2KJ4307 - ■ JQ21 - ■ ■ J1**	
	122	855	11.89	22 300	3.6	237	**2KJ4307 - ■ JQ21 - ■ ■ H1**	
	142	735	10.23	21 600	3.9	237	**2KJ4307 - ■ JQ21 - ■ ■ G1**	
	161	650	9.02	20 900	3.2	237	**2KJ4307 - ■ JQ21 - ■ ■ F1**	
	183	570	7.94	20 300	3.5	237	**2KJ4307 - ■ JQ21 - ■ ■ E1**	
	209	500	6.96	19 700	3.8	237	**2KJ4307 - ■ JQ21 - ■ ■ D1**	
	240	435	6.07	19 100	4.1	237	**2KJ4307 - ■ JQ21 - ■ ■ C1**	
	263	400	5.54	18 600	4.3	237	**2KJ4307 - ■ JQ21 - ■ ■ B1**	
	305	340	4.77	17 900	4.7	237	**2KJ4307 - ■ JQ21 - ■ ■ A1**	
	FD.129-LHN160MK4							
	19	5 490	76.04	36 500	0.88	294	**2KJ4408 - ■ JQ21 - ■ ■ C1**	
	21	5 010	69.4	37 000	0.97	294	**2KJ4408 - ■ JQ21 - ■ ■ B1**	
	24	4 310	59.75	37 500	1.1	294	**2KJ4408 - ■ JQ21 - ■ ■ A1**	
	FZ.129-LHN160MK4							
	21	4 990	69.2	37 000	0.97	289	**2KJ4308 - ■ JQ21 - ■ ■ A2**	
	25	4 270	59.22	37 500	1.1	289	**2KJ4308 - ■ JQ21 - ■ ■ X1**	
	26	4 020	55.74	37 500	1.2	289	**2KJ4308 - ■ JQ21 - ■ ■ W1**	
	28	3 770	52.25	37 500	1.3	289	**2KJ4308 - ■ JQ21 - ■ ■ V1**	
	31	3 340	46.32	37 500	1.5	289	**2KJ4308 - ■ JQ21 - ■ ■ U1**	
	35	2 970	41.14	37 500	1.6	289	**2KJ4308 - ■ JQ21 - ■ ■ T1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
11	**FZ.129-LHN160MK4**							
	39	2 680	37.12	37 500	1.8	289	**2KJ4308 - ■ JQ21 - ■ ■ S1**	
	44	2 370	32.9	37 000	2.0	289	**2KJ4308 - ■ JQ21 - ■ ■ R1**	
	50	2 100	29.13	36 200	2.3	289	**2KJ4308 - ■ JQ21 - ■ ■ Q1**	
	56	1 870	25.93	35 400	2.6	289	**2KJ4308 - ■ JQ21 - ■ ■ P1**	
	63	1 670	23.23	34 600	2.9	289	**2KJ4308 - ■ JQ21 - ■ ■ N1**	
	FD.149-LHN160MK4							
	11	9 150	126.73	60 800	0.87	380	**2KJ4410 - ■ JQ21 - ■ ■ L1**	
	13	8 110	112.36	60 400	0.99	380	**2KJ4410 - ■ JQ21 - ■ ■ K1**	
	15	7 160	99.18	59 800	1.1	380	**2KJ4410 - ■ JQ21 - ■ ■ J1**	
	17	6 290	87.2	59 000	1.3	380	**2KJ4410 - ■ JQ21 - ■ ■ H1**	
	18	5 700	78.98	58 300	1.4	380	**2KJ4410 - ■ JQ21 - ■ ■ G1**	
	21	4 960	68.76	57 200	1.6	380	**2KJ4410 - ■ JQ21 - ■ ■ F1**	
	26	4 070	56.37	55 400	2.0	380	**2KJ4410 - ■ JQ21 - ■ ■ E1**	
	29	3 610	50.01	54 200	2.2	380	**2KJ4410 - ■ JQ21 - ■ ■ D1**	
	32	3 270	45.3	53 200	2.4	380	**2KJ4410 - ■ JQ21 - ■ ■ C1**	
	FZ.149-LHN160MK4							
	30	3 500	48.48	53 900	2.3	374	**2KJ4310 - ■ JQ21 - ■ ■ T1**	
	33	3 160	43.89	52 900	2.5	374	**2KJ4310 - ■ JQ21 - ■ ■ S1**	
	FD.169-LHN160MK4							
	6.7	15 700	217.7	73 500	0.87	527	**2KJ4411 - ■ JQ21 - ■ ■ Q1**	
	7.4	14 200	197.27	73 500	0.95	527	**2KJ4411 - ■ JQ21 - ■ ■ P1**	
	8.3	12 600	175.69	73 500	1.1	527	**2KJ4411 - ■ JQ21 - ■ ■ N1**	
	9.2	11 300	157.76	73 500	1.2	527	**2KJ4411 - ■ JQ21 - ■ ■ M1**	
	10	10 100	140.77	73 500	1.3	527	**2KJ4411 - ■ JQ21 - ■ ■ L1**	
	12	9 060	125.49	73 500	1.5	527	**2KJ4411 - ■ JQ21 - ■ ■ K1**	
	13	8 030	111.3	73 500	1.7	527	**2KJ4411 - ■ JQ21 - ■ ■ J1**	
	14	7 370	102.18	73 500	1.8	527	**2KJ4411 - ■ JQ21 - ■ ■ H1**	
	16	6 500	90.03	73 500	2.1	527	**2KJ4411 - ■ JQ21 - ■ ■ G1**	
	FD.189-LHN160MK4							
	4.7	22 400	310.76	110 600	0.85	739	**2KJ4412 - ■ JQ21 - ■ ■ S1**	
	5.2	20 200	280.27	110 900	0.94	739	**2KJ4412 - ■ JQ21 - ■ ■ R1**	
	5.9	17 800	247.71	110 900	1.1	739	**2KJ4412 - ■ JQ21 - ■ ■ Q1**	
	6.4	16 300	226.42	110 900	1.2	739	**2KJ4412 - ■ JQ21 - ■ ■ P1**	
	7.1	14 700	203.69	110 900	1.3	739	**2KJ4412 - ■ JQ21 - ■ ■ N1**	
	8.0	13 100	182.03	110 900	1.4	739	**2KJ4412 - ■ JQ21 - ■ ■ M1**	
	8.8	11 800	164.61	110 900	1.6	739	**2KJ4412 - ■ JQ21 - ■ ■ L1**	
	10	10 400	145.28	110 900	1.8	739	**2KJ4412 - ■ JQ21 - ■ ■ K1**	
	11	9 340	129.45	110 900	2.0	739	**2KJ4412 - ■ JQ21 - ■ ■ J1**	
	12	8 460	117.27	110 900	2.2	739	**2KJ4412 - ■ JQ21 - ■ ■ H1**	
15	**FZ.79-LHN160LH4**							
	117	1 220	12.41	9 700	0.82	183	**2KJ4305 - ■ JT21 - ■ ■ J1**	
	138	1 040	10.56	9 800	0.96	183	**2KJ4305 - ■ JT21 - ■ ■ H1**	
	161	890	9.05	9 900	1.1	183	**2KJ4305 - ■ JT21 - ■ ■ G1**	
	171	835	8.51	9 700	0.86	183	**2KJ4305 - ■ JT21 - ■ ■ F1**	
	196	730	7.44	9 700	0.99	183	**2KJ4305 - ■ JT21 - ■ ■ E1**	
	228	625	6.39	9 700	1.1	183	**2KJ4305 - ■ JT21 - ■ ■ D1**	
	258	555	5.64	9 600	1.3	183	**2KJ4305 - ■ JT21 - ■ ■ C1**	
	303	470	4.80	9 400	1.4	183	**2KJ4305 - ■ JT21 - ■ ■ B1**	
	354	405	4.11	9 300	1.5	183	**2KJ4305 - ■ JT21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**FZ.89-LHN160LH4**							
	66	2 170	22.08	17 100	0.85	214	**2KJ4306 - ■ JT21 - ■ ■ P1**	
	77	1 850	18.88	17 200	1.0	214	**2KJ4306 - ■ JT21 - ■ ■ N1**	
	86	1 660	16.86	17 200	1.1	214	**2KJ4306 - ■ JT21 - ■ ■ M1**	
	98	1 460	14.9	17 100	1.3	214	**2KJ4306 - ■ JT21 - ■ ■ L1**	
	111	1 280	13.07	17 000	1.4	214	**2KJ4306 - ■ JT21 - ■ ■ K1**	
	128	1 120	11.38	16 700	1.7	214	**2KJ4306 - ■ JT21 - ■ ■ J1**	
	150	955	9.73	16 400	1.9	214	**2KJ4306 - ■ JT21 - ■ ■ H1**	
	175	820	8.33	16 100	2.1	214	**2KJ4306 - ■ JT21 - ■ ■ G1**	
	191	745	7.60	15 600	1.5	214	**2KJ4306 - ■ JT21 - ■ ■ F1**	
	217	660	6.72	15 300	1.7	214	**2KJ4306 - ■ JT21 - ■ ■ E1**	
	247	580	5.90	15 000	1.9	214	**2KJ4306 - ■ JT21 - ■ ■ D1**	
	284	505	5.13	14 600	2.2	214	**2KJ4306 - ■ JT21 - ■ ■ C1**	
	331	430	4.39	14 200	2.5	214	**2KJ4306 - ■ JT21 - ■ ■ B1**	
	387	370	3.76	13 700	2.7	214	**2KJ4306 - ■ JT21 - ■ ■ A1**	
	FZ.109-LHN160LH4							
	37	3 890	39.59	23 300	0.8	251	**2KJ4307 - ■ JT21 - ■ ■ T1**	
	41	3 470	35.34	23 500	0.89	251	**2KJ4307 - ■ JT21 - ■ ■ S1**	
	46	3 130	31.8	23 500	0.99	251	**2KJ4307 - ■ JT21 - ■ ■ R1**	
	53	2 710	27.6	23 500	1.1	251	**2KJ4307 - ■ JT21 - ■ ■ Q1**	
	59	2 440	24.82	23 300	1.3	251	**2KJ4307 - ■ JT21 - ■ ■ P1**	
	67	2 130	21.7	23 100	1.5	251	**2KJ4307 - ■ JT21 - ■ ■ N1**	
	75	1 900	19.36	22 800	1.6	251	**2KJ4307 - ■ JT21 - ■ ■ M1**	
	85	1 680	17.06	22 500	1.8	251	**2KJ4307 - ■ JT21 - ■ ■ L1**	
	97	1 470	14.95	22 100	2.1	251	**2KJ4307 - ■ JT21 - ■ ■ K1**	
	112	1 280	13.03	21 600	2.4	251	**2KJ4307 - ■ JT21 - ■ ■ J1**	
	122	1 170	11.89	21 300	2.6	251	**2KJ4307 - ■ JT21 - ■ ■ H1**	
	142	1 000	10.23	20 700	2.9	251	**2KJ4307 - ■ JT21 - ■ ■ G1**	
	161	885	9.02	20 100	2.4	251	**2KJ4307 - ■ JT21 - ■ ■ F1**	
	183	780	7.94	19 600	2.6	251	**2KJ4307 - ■ JT21 - ■ ■ E1**	
	209	685	6.96	19 100	2.8	251	**2KJ4307 - ■ JT21 - ■ ■ D1**	
	240	595	6.07	18 500	3.0	251	**2KJ4307 - ■ JT21 - ■ ■ C1**	
	263	545	5.54	18 100	3.2	251	**2KJ4307 - ■ JT21 - ■ ■ B1**	
	305	470	4.77	17 500	3.4	251	**2KJ4307 - ■ JT21 - ■ ■ A1**	
	FD.129-LHN160LH4							
	24	5 880	59.75	35 800	0.82	308	**2KJ4408 - ■ JT21 - ■ ■ A1**	
	FZ.129-LHN160LH4							
	25	5 830	59.22	35 800	0.83	303	**2KJ4308 - ■ JT21 - ■ ■ X1**	
	26	5 480	55.74	35 800	0.88	303	**2KJ4308 - ■ JT21 - ■ ■ W1**	
	28	5 140	52.25	35 800	0.94	303	**2KJ4308 - ■ JT21 - ■ ■ V1**	
	31	4 560	46.32	35 600	1.1	303	**2KJ4308 - ■ JT21 - ■ ■ U1**	
	35	4 050	41.14	35 400	1.2	303	**2KJ4308 - ■ JT21 - ■ ■ T1**	
	39	3 650	37.12	35 100	1.3	303	**2KJ4308 - ■ JT21 - ■ ■ S1**	
	44	3 230	32.9	34 600	1.5	303	**2KJ4308 - ■ JT21 - ■ ■ R1**	
	50	2 860	29.13	34 100	1.7	303	**2KJ4308 - ■ JT21 - ■ ■ Q1**	
	56	2 550	25.93	33 500	1.9	303	**2KJ4308 - ■ JT21 - ■ ■ P1**	
	63	2 280	23.23	32 900	2.1	303	**2KJ4308 - ■ JT21 - ■ ■ N1**	
	71	2 020	20.6	32 300	2.4	303	**2KJ4308 - ■ JT21 - ■ ■ M1**	
	80	1 790	18.18	31 500	2.7	303	**2KJ4308 - ■ JT21 - ■ ■ L1**	
	91	1 570	15.99	30 700	3.0	303	**2KJ4308 - ■ JT21 - ■ ■ K1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**FZ.129-LHN160LH4**							
	100	1 420	14.48	30 100	3.3	303	**2KJ4308 - ■ JT21 - ■ ■ J1**	
	115	1 240	12.61	29 200	3.6	303	**2KJ4308 - ■ JT21 - ■ ■ H1**	
	148	965	9.80	27 400	3.8	303	**2KJ4308 - ■ JT21 - ■ ■ F1**	
	FD.149-LHN160LH4							
	15	9 760	99.18	53 300	0.82	394	**2KJ4410 - ■ JT21 - ■ ■ J1**	
	17	8 580	87.2	53 300	0.93	394	**2KJ4410 - ■ JT21 - ■ ■ H1**	
	18	7 770	78.98	53 100	1.0	394	**2KJ4410 - ■ JT21 - ■ ■ G1**	
	21	6 770	68.76	52 700	1.2	394	**2KJ4410 - ■ JT21 - ■ ■ F1**	
	26	5 550	56.37	51 700	1.4	394	**2KJ4410 - ■ JT21 - ■ ■ E1**	
	29	4 920	50.01	51 000	1.6	394	**2KJ4410 - ■ JT21 - ■ ■ D1**	
	32	4 460	45.3	50 300	1.8	394	**2KJ4410 - ■ JT21 - ■ ■ C1**	
	37	3 880	39.43	49 200	2.1	394	**2KJ4410 - ■ JT21 - ■ ■ B1**	
	45	3 180	32.33	47 600	2.4	394	**2KJ4410 - ■ JT21 - ■ ■ A1**	
	FZ.149-LHN160LH4							
	30	4 770	48.48	50 800	1.7	388	**2KJ4310 - ■ JT21 - ■ ■ T1**	
	33	4 320	43.89	50 000	1.9	388	**2KJ4310 - ■ JT21 - ■ ■ S1**	
	38	3 790	38.55	49 000	2.1	388	**2KJ4310 - ■ JT21 - ■ ■ R1**	
	42	3 430	34.93	48 200	2.3	388	**2KJ4310 - ■ JT21 - ■ ■ Q1**	
	47	3 060	31.11	47 200	2.6	388	**2KJ4310 - ■ JT21 - ■ ■ P1**	
	52	2 750	27.94	46 200	2.9	388	**2KJ4310 - ■ JT21 - ■ ■ N1**	
	FD.169-LHN160LH4							
	9.2	15 500	157.76	73 500	0.88	541	**2KJ4411 - ■ JT21 - ■ ■ M1**	
	10	13 800	140.77	73 500	0.98	541	**2KJ4411 - ■ JT21 - ■ ■ L1**	
	12	12 300	125.49	73 500	1.1	541	**2KJ4411 - ■ JT21 - ■ ■ K1**	
	13	10 900	111.3	73 500	1.2	541	**2KJ4411 - ■ JT21 - ■ ■ J1**	
	14	10 000	102.18	73 500	1.4	541	**2KJ4411 - ■ JT21 - ■ ■ H1**	
	16	8 860	90.03	73 500	1.5	541	**2KJ4411 - ■ JT21 - ■ ■ G1**	
	20	7 270	73.85	73 500	1.9	541	**2KJ4411 - ■ JT21 - ■ ■ F1**	
	22	6 370	64.75	73 500	2.1	541	**2KJ4411 - ■ JT21 - ■ ■ E1**	
	FD.189-LHN160LH4							
	6.4	22 200	226.42	110 700	0.85	753	**2KJ4412 - ■ JT21 - ■ ■ P1**	
	7.1	20 000	203.69	110 900	0.95	753	**2KJ4412 - ■ JT21 - ■ ■ N1**	
	8.0	17 900	182.03	110 900	1.1	753	**2KJ4412 - ■ JT21 - ■ ■ M1**	
	8.8	16 200	164.61	110 900	1.2	753	**2KJ4412 - ■ JT21 - ■ ■ L1**	
	10	14 300	145.28	110 900	1.3	753	**2KJ4412 - ■ JT21 - ■ ■ K1**	
	11	12 700	129.45	110 900	1.5	753	**2KJ4412 - ■ JT21 - ■ ■ J1**	
	12	11 500	117.27	110 900	1.6	753	**2KJ4412 - ■ JT21 - ■ ■ H1**	
	14	10 300	105.48	110 900	1.8	753	**2KJ4412 - ■ JT21 - ■ ■ G1**	
	17	8 620	87.65	110 900	2.2	753	**2KJ4412 - ■ JT21 - ■ ■ F1**	
18.5	**FZ.89-LHN180MK4**							
	87	2 030	16.86	15 600	0.91	252	**2KJ4306 - ■ KK21 - ■ ■ M1**	
	98	1 790	14.9	15 700	1.0	252	**2KJ4306 - ■ KK21 - ■ ■ L1**	
	112	1 570	13.07	15 700	1.2	252	**2KJ4306 - ■ KK21 - ■ ■ K1**	
	129	1 370	11.38	15 600	1.3	252	**2KJ4306 - ■ KK21 - ■ ■ J1**	
	151	1 170	9.73	15 500	1.6	252	**2KJ4306 - ■ KK21 - ■ ■ H1**	
	176	1 000	8.33	15 300	1.7	252	**2KJ4306 - ■ KK21 - ■ ■ G1**	
	193	915	7.60	14 900	1.2	252	**2KJ4306 - ■ KK21 - ■ ■ F1**	
	218	810	6.72	14 600	1.4	252	**2KJ4306 - ■ KK21 - ■ ■ E1**	
	248	710	5.90	14 400	1.6	252	**2KJ4306 - ■ KK21 - ■ ■ D1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
18.5	**FZ.89-LHN180MK4**							
	286	615	5.13	14 100	1.8	252	**2KJ4306 - ■ KK21 - ■ ■ C1**	
	334	525	4.39	13 700	2.0	252	**2KJ4306 - ■ KK21 - ■ ■ B1**	
	390	450	3.76	13 300	2.2	252	**2KJ4306 - ■ KK21 - ■ ■ A1**	
	FZ.109-LHN180MK4							
	59	2 990	24.82	21 500	1.0	291	**2KJ4307 - ■ KK21 - ■ ■ P1**	
	68	2 610	21.7	21 500	1.2	291	**2KJ4307 - ■ KK21 - ■ ■ N1**	
	76	2 330	19.36	21 400	1.3	291	**2KJ4307 - ■ KK21 - ■ ■ M1**	
	86	2 050	17.06	21 200	1.5	291	**2KJ4307 - ■ KK21 - ■ ■ L1**	
	98	1 800	14.95	20 900	1.7	291	**2KJ4307 - ■ KK21 - ■ ■ K1**	
	112	1 570	13.03	20 600	2.0	291	**2KJ4307 - ■ KK21 - ■ ■ J1**	
	123	1 430	11.89	20 400	2.1	291	**2KJ4307 - ■ KK21 - ■ ■ H1**	
	143	1 230	10.23	19 900	2.3	291	**2KJ4307 - ■ KK21 - ■ ■ G1**	
	162	1 080	9.02	19 400	1.9	291	**2KJ4307 - ■ KK21 - ■ ■ F1**	
	185	955	7.94	19 000	2.1	291	**2KJ4307 - ■ KK21 - ■ ■ E1**	
	210	835	6.96	18 500	2.3	291	**2KJ4307 - ■ KK21 - ■ ■ D1**	
	241	730	6.07	18 000	2.5	291	**2KJ4307 - ■ KK21 - ■ ■ C1**	
	264	665	5.54	17 700	2.6	291	**2KJ4307 - ■ KK21 - ■ ■ B1**	
	307	575	4.77	17 100	2.8	291	**2KJ4307 - ■ KK21 - ■ ■ A1**	
	FZ.129-LHN180MK4							
	50	3 510	29.13	32 200	1.4	342	**2KJ4308 - ■ KK21 - ■ ■ Q1**	
	56	3 120	25.93	31 800	1.6	342	**2KJ4308 - ■ KK21 - ■ ■ P1**	
	63	2 800	23.23	31 400	1.7	342	**2KJ4308 - ■ KK21 - ■ ■ N1**	
	71	2 480	20.6	30 900	2.0	342	**2KJ4308 - ■ KK21 - ■ ■ M1**	
	81	2 190	18.18	30 300	2.2	342	**2KJ4308 - ■ KK21 - ■ ■ L1**	
	92	1 920	15.99	29 700	2.5	342	**2KJ4308 - ■ KK21 - ■ ■ K1**	
	101	1 740	14.48	29 200	2.7	342	**2KJ4308 - ■ KK21 - ■ ■ J1**	
	116	1 520	12.61	28 400	3.0	342	**2KJ4308 - ■ KK21 - ■ ■ H1**	
	142	1 240	10.34	27 300	3.5	342	**2KJ4308 - ■ KK21 - ■ ■ G1**	
	149	1 180	9.80	26 700	3.1	342	**2KJ4308 - ■ KK21 - ■ ■ F1**	
	169	1 040	8.65	26 000	3.5	342	**2KJ4308 - ■ KK21 - ■ ■ E1**	
	193	915	7.60	25 300	3.9	342	**2KJ4308 - ■ KK21 - ■ ■ D1**	
	213	830	6.89	24 700	4.4	342	**2KJ4308 - ■ KK21 - ■ ■ C1**	
	FD.149-LHN180MK4							
	19	9 520	78.98	48 600	0.84	411	**2KJ4410 - ■ KK21 - ■ ■ G1**	
	21	8 290	68.76	48 700	0.96	411	**2KJ4410 - ■ KK21 - ■ ■ F1**	
	26	6 790	56.37	48 500	1.2	411	**2KJ4410 - ■ KK21 - ■ ■ E1**	
	29	6 030	50.01	48 100	1.3	411	**2KJ4410 - ■ KK21 - ■ ■ D1**	
	32	5 460	45.3	47 600	1.5	411	**2KJ4410 - ■ KK21 - ■ ■ C1**	
	37	4 750	39.43	46 900	1.7	411	**2KJ4410 - ■ KK21 - ■ ■ B1**	
	45	3 890	32.33	45 700	1.9	411	**2KJ4410 - ■ KK21 - ■ ■ A1**	
	FZ.149-LHN180MK4							
	42	4 210	34.93	46 200	1.9	430	**2KJ4310 - ■ KK21 - ■ ■ Q1**	
	47	3 750	31.11	45 400	2.1	430	**2KJ4310 - ■ KK21 - ■ ■ P1**	
	52	3 360	27.94	44 600	2.4	430	**2KJ4310 - ■ KK21 - ■ ■ N1**	
	59	3 000	24.93	43 700	2.7	430	**2KJ4310 - ■ KK21 - ■ ■ M1**	
	66	2 680	22.22	42 800	3.0	430	**2KJ4310 - ■ KK21 - ■ ■ L1**	
	FD.169-LHN180MK4							
	10	16 900	140.77	73 500	0.8	579	**2KJ4411 - ■ KK21 - ■ ■ L1**	
	12	15 100	125.49	73 500	0.9	579	**2KJ4411 - ■ KK21 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**FD.169-LHN180MK4**							
	13	13 400	111.3	73 500	1.0	579	**2KJ4411 - ■ KK21 - ■ ■ J1**	
	14	12 300	102.18	73 500	1.1	579	**2KJ4411 - ■ KK21 - ■ ■ H1**	
	16	10 800	90.03	73 500	1.3	579	**2KJ4411 - ■ KK21 - ■ ■ G1**	
	20	8 900	73.85	73 500	1.5	579	**2KJ4411 - ■ KK21 - ■ ■ F1**	
	23	7 800	64.75	73 500	1.7	579	**2KJ4411 - ■ KK21 - ■ ■ E1**	
	29	6 100	50.63	73 500	2.2	579	**2KJ4411 - ■ KK21 - ■ ■ D1**	
	31	5 610	46.55	73 500	2.4	579	**2KJ4411 - ■ KK21 - ■ ■ C1**	
	FD.189-LHN180MK4							
	8.0	21 900	182.03	110 900	0.87	791	**2KJ4412 - ■ KK21 - ■ ■ M1**	
	8.9	19 800	164.61	110 900	0.96	791	**2KJ4412 - ■ KK21 - ■ ■ L1**	
	10	17 500	145.28	110 900	1.1	791	**2KJ4412 - ■ KK21 - ■ ■ K1**	
	11	15 600	129.45	110 900	1.2	791	**2KJ4412 - ■ KK21 - ■ ■ J1**	
	12	14 100	117.27	110 900	1.3	791	**2KJ4412 - ■ KK21 - ■ ■ H1**	
	14	12 700	105.48	110 900	1.5	791	**2KJ4412 - ■ KK21 - ■ ■ G1**	
	17	10 500	87.65	110 900	1.8	791	**2KJ4412 - ■ KK21 - ■ ■ F1**	
	19	9 390	77.92	110 900	2.0	791	**2KJ4412 - ■ KK21 - ■ ■ E1**	
22	**FZ.89-LHN180LH4**							
	98	2 130	14.9	14 300	0.87	261	**2KJ4306 - ■ KM21 - ■ ■ L1**	
	112	1 870	13.07	14 500	0.99	261	**2KJ4306 - ■ KM21 - ■ ■ K1**	
	129	1 630	11.38	14 600	1.1	261	**2KJ4306 - ■ KM21 - ■ ■ J1**	
	151	1 390	9.73	14 600	1.3	261	**2KJ4306 - ■ KM21 - ■ ■ H1**	
	176	1 190	8.33	14 500	1.5	261	**2KJ4306 - ■ KM21 - ■ ■ G1**	
	193	1 090	7.60	14 100	1.0	261	**2KJ4306 - ■ KM21 - ■ ■ F1**	
	218	960	6.72	14 000	1.2	261	**2KJ4306 - ■ KM21 - ■ ■ E1**	
	248	845	5.90	13 800	1.3	261	**2KJ4306 - ■ KM21 - ■ ■ D1**	
	286	735	5.13	13 500	1.5	261	**2KJ4306 - ■ KM21 - ■ ■ C1**	
	334	630	4.39	13 200	1.7	261	**2KJ4306 - ■ KM21 - ■ ■ B1**	
	390	535	3.76	12 900	1.8	261	**2KJ4306 - ■ KM21 - ■ ■ A1**	
	FZ.109-LHN180LH4							
	59	3 560	24.82	19 600	0.87	300	**2KJ4307 - ■ KM21 - ■ ■ P1**	
	68	3 110	21.7	19 800	1.0	300	**2KJ4307 - ■ KM21 - ■ ■ N1**	
	76	2 770	19.36	19 900	1.1	300	**2KJ4307 - ■ KM21 - ■ ■ M1**	
	86	2 440	17.06	19 900	1.3	300	**2KJ4307 - ■ KM21 - ■ ■ L1**	
	98	2 140	14.95	19 800	1.4	300	**2KJ4307 - ■ KM21 - ■ ■ K1**	
	112	1 860	13.03	19 700	1.7	300	**2KJ4307 - ■ KM21 - ■ ■ J1**	
	123	1 700	11.89	19 500	1.8	300	**2KJ4307 - ■ KM21 - ■ ■ H1**	
	143	1 460	10.23	19 200	2.0	300	**2KJ4307 - ■ KM21 - ■ ■ G1**	
	162	1 290	9.02	18 700	1.6	300	**2KJ4307 - ■ KM21 - ■ ■ F1**	
	185	1 130	7.94	18 400	1.8	300	**2KJ4307 - ■ KM21 - ■ ■ E1**	
	210	995	6.96	18 000	1.9	300	**2KJ4307 - ■ KM21 - ■ ■ D1**	
	241	870	6.07	17 500	2.1	300	**2KJ4307 - ■ KM21 - ■ ■ C1**	
	264	795	5.54	17 200	2.2	300	**2KJ4307 - ■ KM21 - ■ ■ B1**	
	307	680	4.77	16 800	2.4	300	**2KJ4307 - ■ KM21 - ■ ■ A1**	
	FZ.129-LHN180LH4							
	50	4 170	29.13	30 300	1.2	351	**2KJ4308 - ■ KM21 - ■ ■ Q1**	
	56	3 710	25.93	30 200	1.3	351	**2KJ4308 - ■ KM21 - ■ ■ P1**	
	63	3 330	23.23	29 900	1.5	351	**2KJ4308 - ■ KM21 - ■ ■ N1**	
	71	2 950	20.6	29 600	1.6	351	**2KJ4308 - ■ KM21 - ■ ■ M1**	
	81	2 600	18.18	29 200	1.9	351	**2KJ4308 - ■ KM21 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
22	**FZ.129-LHN180LH4**							
	92	2 290	15.99	28 700	2.1	351	**2KJ4308 - ■ KM21 - ■ ■ K1**	
	101	2 070	14.48	28 300	2.3	351	**2KJ4308 - ■ KM21 - ■ ■ J1**	
	116	1 800	12.61	27 600	2.5	351	**2KJ4308 - ■ KM21 - ■ ■ H1**	
	142	1 480	10.34	26 600	2.9	351	**2KJ4308 - ■ KM21 - ■ ■ G1**	
	149	1 400	9.80	26 000	2.6	351	**2KJ4308 - ■ KM21 - ■ ■ F1**	
	169	1 240	8.65	25 400	2.9	351	**2KJ4308 - ■ KM21 - ■ ■ E1**	
	193	1 090	7.60	24 700	3.3	351	**2KJ4308 - ■ KM21 - ■ ■ D1**	
	213	985	6.89	24 200	3.7	351	**2KJ4308 - ■ KM21 - ■ ■ C1**	
	244	860	6.00	23 500	4.2	351	**2KJ4308 - ■ KM21 - ■ ■ B1**	
	298	705	4.92	22 500	4.3	351	**2KJ4308 - ■ KM21 - ■ ■ A1**	
	FD.149-LHN180LH4							
	21	9 860	68.76	44 800	0.81	444	**2KJ4410 - ■ KM21 - ■ ■ F1**	
	26	8 080	56.37	45 200	0.99	444	**2KJ4410 - ■ KM21 - ■ ■ E1**	
	29	7 170	50.01	45 200	1.1	444	**2KJ4410 - ■ KM21 - ■ ■ D1**	
	32	6 490	45.3	45 100	1.2	444	**2KJ4410 - ■ KM21 - ■ ■ C1**	
	37	5 650	39.43	44 700	1.4	444	**2KJ4410 - ■ KM21 - ■ ■ B1**	
	45	4 630	32.33	43 800	1.6	444	**2KJ4410 - ■ KM21 - ■ ■ A1**	
	FZ.149-LHN180LH4							
	42	5 000	34.93	44 200	1.6	439	**2KJ4310 - ■ KM21 - ■ ■ Q1**	
	47	4 460	31.11	43 600	1.8	439	**2KJ4310 - ■ KM21 - ■ ■ P1**	
	52	4 000	27.94	43 000	2.0	439	**2KJ4310 - ■ KM21 - ■ ■ N1**	
	59	3 570	24.93	42 300	2.2	439	**2KJ4310 - ■ KM21 - ■ ■ M1**	
	66	3 180	22.22	41 500	2.5	439	**2KJ4310 - ■ KM21 - ■ ■ L1**	
	74	2 820	19.71	40 700	2.8	439	**2KJ4310 - ■ KM21 - ■ ■ K1**	
	81	2 590	18.1	40 100	3.1	439	**2KJ4310 - ■ KM21 - ■ ■ J1**	
	FD.169-LHN180LH4							
	13	15 900	111.3	73 500	0.85	588	**2KJ4411 - ■ KM21 - ■ ■ J1**	
	14	14 600	102.18	73 500	0.93	588	**2KJ4411 - ■ KM21 - ■ ■ H1**	
	16	12 900	90.03	73 500	1.1	588	**2KJ4411 - ■ KM21 - ■ ■ G1**	
	20	10 500	73.85	73 500	1.3	588	**2KJ4411 - ■ KM21 - ■ ■ F1**	
	23	9 280	64.75	73 500	1.5	588	**2KJ4411 - ■ KM21 - ■ ■ E1**	
	29	7 260	50.63	73 500	1.9	588	**2KJ4411 - ■ KM21 - ■ ■ D1**	
	31	6 670	46.55	72 700	2.0	588	**2KJ4411 - ■ KM21 - ■ ■ C1**	
	36	5 850	40.82	71 000	2.3	588	**2KJ4411 - ■ KM21 - ■ ■ B1**	
	FZ.169-LHN180LH4							
	36	5 890	41.07	71 100	2.3	573	**2KJ4311 - ■ KM21 - ■ ■ R1**	
	40	5 290	36.94	69 800	2.6	573	**2KJ4311 - ■ KM21 - ■ ■ Q1**	
	FD.189-LHN180LH4							
	8.9	23 600	164.61	109 900	0.8	800	**2KJ4412 - ■ KM21 - ■ ■ L1**	
	10	20 800	145.28	110 900	0.91	800	**2KJ4412 - ■ KM21 - ■ ■ K1**	
	11	18 500	129.45	110 900	1.0	800	**2KJ4412 - ■ KM21 - ■ ■ J1**	
	12	16 800	117.27	110 900	1.1	800	**2KJ4412 - ■ KM21 - ■ ■ H1**	
	14	15 100	105.48	110 900	1.3	800	**2KJ4412 - ■ KM21 - ■ ■ G1**	
	17	12 500	87.65	110 900	1.5	800	**2KJ4412 - ■ KM21 - ■ ■ F1**	
	19	11 100	77.92	110 900	1.7	800	**2KJ4412 - ■ KM21 - ■ ■ E1**	
	24	8 900	62.11	110 900	2.1	800	**2KJ4412 - ■ KM21 - ■ ■ D1**	
30	**FZ.109-LHN200LM4**							
	76	3 780	19.36	16 600	0.82	376	**2KJ4307 - ■ LM21 - ■ ■ M1**	
	86	3 330	17.06	17 000	0.93	376	**2KJ4307 - ■ LM21 - ■ ■ L1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**FZ.109-LHN200LM4**							
	98	2 920	14.95	17 300	1.1	376	**2KJ4307 - ■ LM21 - ■ ■ K1**	
	112	2 540	13.03	17 400	1.2	376	**2KJ4307 - ■ LM21 - ■ ■ J1**	
	123	2 320	11.89	17 500	1.3	376	**2KJ4307 - ■ LM21 - ■ ■ H1**	
	143	2 000	10.23	17 400	1.4	376	**2KJ4307 - ■ LM21 - ■ ■ G1**	
	162	1 760	9.02	17 100	1.2	376	**2KJ4307 - ■ LM21 - ■ ■ F1**	
	185	1 550	7.94	17 000	1.3	376	**2KJ4307 - ■ LM21 - ■ ■ E1**	
	210	1 360	6.96	16 800	1.4	376	**2KJ4307 - ■ LM21 - ■ ■ D1**	
	241	1 180	6.07	16 500	1.5	376	**2KJ4307 - ■ LM21 - ■ ■ C1**	
	264	1 080	5.54	16 300	1.6	376	**2KJ4307 - ■ LM21 - ■ ■ B1**	
	307	930	4.77	15 900	1.7	376	**2KJ4307 - ■ LM21 - ■ ■ A1**	
	FZ.129-LHN200LM4							
	56	5 070	25.93	26 400	0.96	427	**2KJ4308 - ■ LM21 - ■ ■ P1**	
	63	4 540	23.23	26 600	1.1	427	**2KJ4308 - ■ LM21 - ■ ■ N1**	
	71	4 020	20.6	26 600	1.2	427	**2KJ4308 - ■ LM21 - ■ ■ M1**	
	81	3 550	18.18	26 500	1.4	427	**2KJ4308 - ■ LM21 - ■ ■ L1**	
	92	3 120	15.99	26 400	1.5	427	**2KJ4308 - ■ LM21 - ■ ■ K1**	
	101	2 830	14.48	26 100	1.7	427	**2KJ4308 - ■ LM21 - ■ ■ J1**	
	116	2 460	12.61	25 800	1.8	427	**2KJ4308 - ■ LM21 - ■ ■ H1**	
	142	2 020	10.34	25 100	2.1	427	**2KJ4308 - ■ LM21 - ■ ■ G1**	
	149	1 910	9.80	24 500	1.9	427	**2KJ4308 - ■ LM21 - ■ ■ F1**	
	169	1 690	8.65	24 000	2.2	427	**2KJ4308 - ■ LM21 - ■ ■ E1**	
	193	1 480	7.60	23 500	2.4	427	**2KJ4308 - ■ LM21 - ■ ■ D1**	
	213	1 340	6.89	23 100	2.7	427	**2KJ4308 - ■ LM21 - ■ ■ C1**	
	244	1 170	6.00	22 600	3.1	427	**2KJ4308 - ■ LM21 - ■ ■ B1**	
	298	960	4.92	21 700	3.1	427	**2KJ4308 - ■ LM21 - ■ ■ A1**	
	FD.149-LHN200LM4							
	29	9 780	50.01	38 700	0.82	519	**2KJ4410 - ■ LM21 - ■ ■ D1**	
	32	8 850	45.3	39 200	0.9	519	**2KJ4410 - ■ LM21 - ■ ■ C1**	
	37	7 710	39.43	39 500	1.0	519	**2KJ4410 - ■ LM21 - ■ ■ B1**	
	45	6 320	32.33	39 600	1.2	519	**2KJ4410 - ■ LM21 - ■ ■ A1**	
	FZ.149-LHN200LM4							
	47	6 080	31.11	39 600	1.3	514	**2KJ4310 - ■ LM21 - ■ ■ P1**	
	52	5 460	27.94	39 400	1.5	514	**2KJ4310 - ■ LM21 - ■ ■ N1**	
	59	4 870	24.93	39 100	1.6	514	**2KJ4310 - ■ LM21 - ■ ■ M1**	
	66	4 340	22.22	38 600	1.8	514	**2KJ4310 - ■ LM21 - ■ ■ L1**	
	74	3 850	19.71	38 100	2.1	514	**2KJ4310 - ■ LM21 - ■ ■ K1**	
	81	3 540	18.1	37 700	2.3	514	**2KJ4310 - ■ LM21 - ■ ■ J1**	
	92	3 110	15.94	37 000	2.6	514	**2KJ4310 - ■ LM21 - ■ ■ H1**	
	112	2 550	13.08	35 800	3.0	514	**2KJ4310 - ■ LM21 - ■ ■ G1**	
	128	2 240	11.47	35 000	3.3	514	**2KJ4310 - ■ LM21 - ■ ■ F1**	
	163	1 750	8.97	33 300	3.9	514	**2KJ4310 - ■ LM21 - ■ ■ E1**	
	181	1 580	8.09	32 300	3.6	514	**2KJ4310 - ■ LM21 - ■ ■ D1**	
	221	1 290	6.64	31 000	4.4	514	**2KJ4310 - ■ LM21 - ■ ■ C1**	
	FD.169-LHN200LM4							
	20	14 400	73.85	69 400	0.94	665	**2KJ4411 - ■ LM21 - ■ ■ F1**	
	23	12 600	64.75	69 300	1.1	665	**2KJ4411 - ■ LM21 - ■ ■ E1**	
	29	9 900	50.63	68 100	1.4	665	**2KJ4411 - ■ LM21 - ■ ■ D1**	
	31	9 100	46.55	67 600	1.5	665	**2KJ4411 - ■ LM21 - ■ ■ C1**	
	36	7 980	40.82	66 600	1.7	665	**2KJ4411 - ■ LM21 - ■ ■ B1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
30	**FD.169-LHN200LM4**							
	46	6 240	31.92	64 300	2.2	665	**2KJ4411 - ■ LM21 - ■ ■ A1**	
	FZ.169-LHN200LM4							
	40	7 220	36.94	65 700	1.9	650	**2KJ4311 - ■ LM21 - ■ ■ Q1**	
	44	6 450	33.02	64 600	2.1	650	**2KJ4311 - ■ LM21 - ■ ■ P1**	
	49	5 840	29.86	63 600	2.3	650	**2KJ4311 - ■ LM21 - ■ ■ N1**	
	56	5 150	26.35	62 300	2.6	650	**2KJ4311 - ■ LM21 - ■ ■ M1**	
	62	4 590	23.48	60 900	3.0	650	**2KJ4311 - ■ LM21 - ■ ■ L1**	
	FD.189-LHN200LM4							
	12	22 900	117.27	110 300	0.83	877	**2KJ4412 - ■ LM21 - ■ ■ H1**	
	14	20 600	105.48	110 900	0.92	877	**2KJ4412 - ■ LM21 - ■ ■ G1**	
	17	17 100	87.65	110 900	1.1	877	**2KJ4412 - ■ LM21 - ■ ■ F1**	
	19	15 200	77.92	110 200	1.2	877	**2KJ4412 - ■ LM21 - ■ ■ E1**	
	24	12 100	62.11	106 900	1.6	877	**2KJ4412 - ■ LM21 - ■ ■ D1**	
	30	9 660	49.43	103 000	2.0	877	**2KJ4412 - ■ LM21 - ■ ■ C1**	
	36	7 940	40.61	99 300	2.4	877	**2KJ4412 - ■ LM21 - ■ ■ B1**	
	FZ.189-LHN200LM4							
	39	7 410	37.93	98 000	2.6	849	**2KJ4312 - ■ LM21 - ■ ■ L1**	
37	**FZ.109-LHN225S4**							
	99	3 560	14.95	15 100	0.87	376	**2KJ4307 - ■ ME21 - ■ ■ K1**	
	114	3 110	13.03	15 500	1.0	376	**2KJ4307 - ■ ME21 - ■ ■ J1**	
	124	2 830	11.89	15 700	1.1	376	**2KJ4307 - ■ ME21 - ■ ■ H1**	
	145	2 440	10.23	15 900	1.2	376	**2KJ4307 - ■ ME21 - ■ ■ G1**	
	164	2 150	9.02	15 800	0.97	376	**2KJ4307 - ■ ME21 - ■ ■ F1**	
	186	1 890	7.94	15 800	1.1	376	**2KJ4307 - ■ ME21 - ■ ■ E1**	
	213	1 660	6.96	15 700	1.1	376	**2KJ4307 - ■ ME21 - ■ ■ D1**	
	244	1 440	6.07	15 600	1.2	376	**2KJ4307 - ■ ME21 - ■ ■ C1**	
	267	1 320	5.54	15 400	1.3	376	**2KJ4307 - ■ ME21 - ■ ■ B1**	
	310	1 130	4.77	15 200	1.4	376	**2KJ4307 - ■ ME21 - ■ ■ A1**	
	FZ.129-LHN225S4							
	64	5 540	23.23	23 700	0.87	425	**2KJ4308 - ■ ME21 - ■ ■ N1**	
	72	4 910	20.6	24 000	0.99	425	**2KJ4308 - ■ ME21 - ■ ■ M1**	
	81	4 340	18.18	24 200	1.1	425	**2KJ4308 - ■ ME21 - ■ ■ L1**	
	93	3 810	15.99	24 300	1.3	425	**2KJ4308 - ■ ME21 - ■ ■ K1**	
	102	3 450	14.48	24 300	1.4	425	**2KJ4308 - ■ ME21 - ■ ■ J1**	
	117	3 010	12.61	24 100	1.5	425	**2KJ4308 - ■ ME21 - ■ ■ H1**	
	143	2 460	10.34	23 800	1.7	425	**2KJ4308 - ■ ME21 - ■ ■ G1**	
	151	2 340	9.80	23 100	1.6	425	**2KJ4308 - ■ ME21 - ■ ■ F1**	
	171	2 060	8.65	22 800	1.8	425	**2KJ4308 - ■ ME21 - ■ ■ E1**	
	195	1 810	7.60	22 500	2.0	425	**2KJ4308 - ■ ME21 - ■ ■ D1**	
	215	1 640	6.89	22 200	2.2	425	**2KJ4308 - ■ ME21 - ■ ■ C1**	
	247	1 430	6.00	21 700	2.5	425	**2KJ4308 - ■ ME21 - ■ ■ B1**	
	301	1 170	4.92	21 000	2.6	425	**2KJ4308 - ■ ME21 - ■ ■ A1**	
	FD.149-LHN225S4							
	38	9 410	39.43	35 100	0.85	512	**2KJ4410 - ■ ME21 - ■ ■ B1**	
	46	7 710	32.33	35 900	0.97	512	**2KJ4410 - ■ ME21 - ■ ■ A1**	
	FZ.149-LHN225S4							
	53	6 670	27.94	36 200	1.2	507	**2KJ4310 - ■ ME21 - ■ ■ N1**	
	59	5 950	24.93	36 200	1.3	507	**2KJ4310 - ■ ME21 - ■ ■ M1**	
	67	5 300	22.22	36 100	1.5	507	**2KJ4310 - ■ ME21 - ■ ■ L1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
37	**FZ.149-LHN225S4**							
	75	4 700	19.71	35 800	1.7	507	**2KJ4310 - ■ ME21 - ■ ■ K1**	
	82	4 320	18.1	35 600	1.9	507	**2KJ4310 - ■ ME21 - ■ ■ J1**	
	93	3 800	15.94	35 200	2.1	507	**2KJ4310 - ■ ME21 - ■ ■ H1**	
	113	3 120	13.08	34 300	2.4	507	**2KJ4310 - ■ ME21 - ■ ■ G1**	
	129	2 730	11.47	33 600	2.7	507	**2KJ4310 - ■ ME21 - ■ ■ F1**	
	165	2 140	8.97	32 200	3.2	507	**2KJ4310 - ■ ME21 - ■ ■ E1**	
	183	1 930	8.09	31 300	2.9	507	**2KJ4310 - ■ ME21 - ■ ■ D1**	
	223	1 580	6.64	30 100	3.6	507	**2KJ4310 - ■ ME21 - ■ ■ C1**	
	254	1 390	5.82	29 300	4.1	507	**2KJ4310 - ■ ME21 - ■ ■ B1**	
	FD.169-LHN225S4							
	23	15 400	64.75	63 100	0.88	653	**2KJ4411 - ■ ME21 - ■ ■ E1**	
	29	12 000	50.63	63 500	1.1	653	**2KJ4411 - ■ ME21 - ■ ■ D1**	
	32	11 100	46.55	63 100	1.2	653	**2KJ4411 - ■ ME21 - ■ ■ C1**	
	36	9 740	40.82	62 600	1.4	653	**2KJ4411 - ■ ME21 - ■ ■ B1**	
	46	7 620	31.92	61 200	1.8	653	**2KJ4411 - ■ ME21 - ■ ■ A1**	
	FZ.169-LHN225S4							
	45	7 880	33.02	61 400	1.7	637	**2KJ4311 - ■ ME21 - ■ ■ P1**	
	50	7 120	29.86	60 700	1.9	637	**2KJ4311 - ■ ME21 - ■ ■ N1**	
	56	6 290	26.35	59 600	2.2	637	**2KJ4311 - ■ ME21 - ■ ■ M1**	
	63	5 600	23.48	58 600	2.4	637	**2KJ4311 - ■ ME21 - ■ ■ L1**	
	70	5 070	21.27	57 700	2.7	637	**2KJ4311 - ■ ME21 - ■ ■ K1**	
	77	4 560	19.13	56 600	3.0	637	**2KJ4311 - ■ ME21 - ■ ■ J1**	
	183	1 920	8.07	46 200	4.3	637	**2KJ4311 - ■ ME21 - ■ ■ D1**	
	FD.189-LHN225S4							
	17	20 900	87.65	103 800	0.91	865	**2KJ4412 - ■ ME21 - ■ ■ F1**	
	19	18 600	77.92	103 200	1.0	865	**2KJ4412 - ■ ME21 - ■ ■ E1**	
	24	14 800	62.11	101 400	1.3	865	**2KJ4412 - ■ ME21 - ■ ■ D1**	
	30	11 800	49.43	98 500	1.6	865	**2KJ4412 - ■ ME21 - ■ ■ C1**	
	36	9 690	40.61	95 600	2.0	865	**2KJ4412 - ■ ME21 - ■ ■ B1**	
	46	7 710	32.32	91 800	2.5	865	**2KJ4412 - ■ ME21 - ■ ■ A1**	
	FZ.189-LHN225S4							
	39	9 050	37.93	94 500	2.1	836	**2KJ4312 - ■ ME21 - ■ ■ L1**	
	43	8 120	34.03	92 700	2.3	836	**2KJ4312 - ■ ME21 - ■ ■ K1**	
	49	7 260	30.41	90 700	2.6	836	**2KJ4312 - ■ ME21 - ■ ■ J1**	
	54	6 480	27.17	88 800	2.9	836	**2KJ4312 - ■ ME21 - ■ ■ H1**	
45	**FZ.109-LHN225M4**							
	114	3 780	13.03	13 300	0.82	434	**2KJ4307 - ■ MP21 - ■ ■ J1**	
	124	3 450	11.89	13 700	0.89	434	**2KJ4307 - ■ MP21 - ■ ■ H1**	
	145	2 970	10.23	14 100	0.97	434	**2KJ4307 - ■ MP21 - ■ ■ G1**	
	164	2 610	9.02	14 200	0.8	434	**2KJ4307 - ■ MP21 - ■ ■ F1**	
	186	2 300	7.94	14 400	0.87	434	**2KJ4307 - ■ MP21 - ■ ■ E1**	
	213	2 020	6.96	14 500	0.94	434	**2KJ4307 - ■ MP21 - ■ ■ D1**	
	244	1 760	6.07	14 500	1.0	434	**2KJ4307 - ■ MP21 - ■ ■ C1**	
	267	1 600	5.54	14 500	1.1	434	**2KJ4307 - ■ MP21 - ■ ■ B1**	
	310	1 380	4.77	14 300	1.2	434	**2KJ4307 - ■ MP21 - ■ ■ A1**	
	FZ.129-LHN225M4							
	72	5 980	20.6	21 000	0.81	486	**2KJ4308 - ■ MP21 - ■ ■ M1**	
	81	5 270	18.18	21 600	0.92	486	**2KJ4308 - ■ MP21 - ■ ■ L1**	
	93	4 640	15.99	22 000	1.0	486	**2KJ4308 - ■ MP21 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
45	**FZ.129-LHN225M4**							
	102	4 200	14.48	22 200	1.1	486	**2KJ4308 - ■ MP21 - ■ ■ J1**	
	117	3 660	12.61	22 300	1.2	486	**2KJ4308 - ■ MP21 - ■ ■ H1**	
	143	3 000	10.34	22 300	1.4	486	**2KJ4308 - ■ MP21 - ■ ■ G1**	
	151	2 840	9.80	21 500	1.3	486	**2KJ4308 - ■ MP21 - ■ ■ F1**	
	171	2 510	8.65	21 400	1.4	486	**2KJ4308 - ■ MP21 - ■ ■ E1**	
	195	2 200	7.60	21 300	1.6	486	**2KJ4308 - ■ MP21 - ■ ■ D1**	
	215	2 000	6.89	21 100	1.8	486	**2KJ4308 - ■ MP21 - ■ ■ C1**	
	247	1 740	6.00	20 700	2.1	486	**2KJ4308 - ■ MP21 - ■ ■ B1**	
	301	1 420	4.92	20 200	2.1	486	**2KJ4308 - ■ MP21 - ■ ■ A1**	
	FD.149-LHN225M4							
	46	9 380	32.33	31 800	0.8	580	**2KJ4410 - ■ MP21 - ■ ■ A1**	
	FZ.149-LHN225M4							
	53	8 110	27.94	32 600	0.99	575	**2KJ4310 - ■ MP21 - ■ ■ N1**	
	59	7 230	24.93	33 000	1.1	575	**2KJ4310 - ■ MP21 - ■ ■ M1**	
	67	6 450	22.22	33 200	1.2	575	**2KJ4310 - ■ MP21 - ■ ■ L1**	
	75	5 720	19.71	33 300	1.4	575	**2KJ4310 - ■ MP21 - ■ ■ K1**	
	82	5 250	18.1	33 300	1.5	575	**2KJ4310 - ■ MP21 - ■ ■ J1**	
	93	4 620	15.94	33 100	1.7	575	**2KJ4310 - ■ MP21 - ■ ■ H1**	
	113	3 790	13.08	32 600	2.0	575	**2KJ4310 - ■ MP21 - ■ ■ G1**	
	129	3 330	11.47	32 100	2.2	575	**2KJ4310 - ■ MP21 - ■ ■ F1**	
	165	2 600	8.97	31 100	2.6	575	**2KJ4310 - ■ MP21 - ■ ■ E1**	
	183	2 340	8.09	30 200	2.4	575	**2KJ4310 - ■ MP21 - ■ ■ D1**	
	223	1 920	6.64	29 200	3.0	575	**2KJ4310 - ■ MP21 - ■ ■ C1**	
	254	1 690	5.82	28 500	3.4	575	**2KJ4310 - ■ MP21 - ■ ■ B1**	
	325	1 320	4.55	27 100	4.3	575	**2KJ4310 - ■ MP21 - ■ ■ A1**	
	FD.169-LHN225M4							
	29	14 700	50.63	57 800	0.93	724	**2KJ4411 - ■ MP21 - ■ ■ D1**	
	32	13 500	46.55	58 100	1.0	724	**2KJ4411 - ■ MP21 - ■ ■ C1**	
	36	11 800	40.82	58 300	1.1	724	**2KJ4411 - ■ MP21 - ■ ■ B1**	
	46	9 260	31.92	57 700	1.5	724	**2KJ4411 - ■ MP21 - ■ ■ A1**	
	FZ.169-LHN225M4							
	45	9 580	33.02	57 900	1.4	709	**2KJ4311 - ■ MP21 - ■ ■ P1**	
	50	8 670	29.86	57 400	1.6	709	**2KJ4311 - ■ MP21 - ■ ■ N1**	
	56	7 650	26.35	56 800	1.8	709	**2KJ4311 - ■ MP21 - ■ ■ M1**	
	63	6 810	23.48	56 100	2.0	709	**2KJ4311 - ■ MP21 - ■ ■ L1**	
	70	6 170	21.27	55 400	2.2	709	**2KJ4311 - ■ MP21 - ■ ■ K1**	
	77	5 550	19.13	54 500	2.4	709	**2KJ4311 - ■ MP21 - ■ ■ J1**	
	93	4 610	15.9	52 900	2.9	709	**2KJ4311 - ■ MP21 - ■ ■ H1**	
	105	4 100	14.13	51 800	3.1	709	**2KJ4311 - ■ MP21 - ■ ■ G1**	
	131	3 270	11.26	49 600	3.6	709	**2KJ4311 - ■ MP21 - ■ ■ F1**	
	165	2 600	8.97	47 200	4.0	709	**2KJ4311 - ■ MP21 - ■ ■ E1**	
	183	2 340	8.07	45 200	3.6	709	**2KJ4311 - ■ MP21 - ■ ■ D1**	
	206	2 080	7.18	44 000	4.0	709	**2KJ4311 - ■ MP21 - ■ ■ C1**	
	FD.189-LHN225M4							
	19	22 600	77.92	95 600	0.84	936	**2KJ4412 - ■ MP21 - ■ ■ E1**	
	24	18 000	62.11	95 300	1.1	936	**2KJ4412 - ■ MP21 - ■ ■ D1**	
	30	14 300	49.43	93 700	1.3	936	**2KJ4412 - ■ MP21 - ■ ■ C1**	
	36	11 700	40.61	91 800	1.6	936	**2KJ4412 - ■ MP21 - ■ ■ B1**	
	46	9 380	32.32	88 600	2.0	936	**2KJ4412 - ■ MP21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
45	**FZ.189-LHN225M4**							
	39	11 000	37.93	90 800	1.7	908	**2KJ4312 - ■ MP21 - ■ ■ L1**	
	43	9 880	34.03	89 300	1.9	908	**2KJ4312 - ■ MP21 - ■ ■ K1**	
	49	8 830	30.41	87 700	2.2	908	**2KJ4312 - ■ MP21 - ■ ■ J1**	
	54	7 880	27.17	86 100	2.4	908	**2KJ4312 - ■ MP21 - ■ ■ H1**	
	60	7 210	24.85	84 700	2.6	908	**2KJ4312 - ■ MP21 - ■ ■ G1**	
	67	6 410	22.09	82 800	3.0	908	**2KJ4312 - ■ MP21 - ■ ■ F1**	
55	**FZ.129-LHN250M4**							
	92	5 690	15.99	19 100	0.84	525	**2KJ4308 - ■ NL21 - ■ ■ K1**	
	102	5 150	14.48	19 600	0.91	525	**2KJ4308 - ■ NL21 - ■ ■ J1**	
	117	4 490	12.61	20 100	1.0	525	**2KJ4308 - ■ NL21 - ■ ■ H1**	
	143	3 680	10.34	20 400	1.2	525	**2KJ4308 - ■ NL21 - ■ ■ G1**	
	171	3 080	8.65	19 700	1.2	525	**2KJ4308 - ■ NL21 - ■ ■ E1**	
	194	2 700	7.60	19 800	1.3	525	**2KJ4308 - ■ NL21 - ■ ■ D1**	
	214	2 450	6.89	19 700	1.5	525	**2KJ4308 - ■ NL21 - ■ ■ C1**	
	246	2 130	6.00	19 600	1.7	525	**2KJ4308 - ■ NL21 - ■ ■ B1**	
	300	1 750	4.92	19 200	1.7	525	**2KJ4308 - ■ NL21 - ■ ■ A1**	
	FZ.149-LHN250M4							
	66	7 910	22.22	29 600	1.0	607	**2KJ4310 - ■ NL21 - ■ ■ L1**	
	75	7 010	19.71	30 100	1.1	607	**2KJ4310 - ■ NL21 - ■ ■ K1**	
	81	6 440	18.1	30 300	1.2	607	**2KJ4310 - ■ NL21 - ■ ■ J1**	
	93	5 670	15.94	30 500	1.4	607	**2KJ4310 - ■ NL21 - ■ ■ H1**	
	113	4 650	13.08	30 500	1.6	607	**2KJ4310 - ■ NL21 - ■ ■ G1**	
	129	4 080	11.47	30 300	1.8	607	**2KJ4310 - ■ NL21 - ■ ■ F1**	
	164	3 190	8.97	29 600	2.1	607	**2KJ4310 - ■ NL21 - ■ ■ E1**	
	182	2 880	8.09	28 800	2.0	607	**2KJ4310 - ■ NL21 - ■ ■ D1**	
	222	2 360	6.64	28 100	2.4	607	**2KJ4310 - ■ NL21 - ■ ■ C1**	
	253	2 070	5.82	27 500	2.7	607	**2KJ4310 - ■ NL21 - ■ ■ B1**	
	324	1 620	4.55	26 400	3.5	607	**2KJ4310 - ■ NL21 - ■ ■ A1**	
	FD.169-LHN250M4							
	32	16 500	46.55	51 900	0.82	753	**2KJ4411 - ■ NL21 - ■ ■ C1**	
	36	14 500	40.82	52 800	0.94	753	**2KJ4411 - ■ NL21 - ■ ■ B1**	
	46	11 300	31.92	53 500	1.2	753	**2KJ4411 - ■ NL21 - ■ ■ A1**	
	FZ.169-LHN250M4							
	56	9 380	26.35	53 200	1.4	737	**2KJ4311 - ■ NL21 - ■ ■ M1**	
	63	8 360	23.48	52 900	1.6	737	**2KJ4311 - ■ NL21 - ■ ■ L1**	
	69	7 570	21.27	52 500	1.8	737	**2KJ4311 - ■ NL21 - ■ ■ K1**	
	77	6 810	19.13	51 900	2.0	737	**2KJ4311 - ■ NL21 - ■ ■ J1**	
	93	5 660	15.9	50 800	2.4	737	**2KJ4311 - ■ NL21 - ■ ■ H1**	
	104	5 030	14.13	49 900	2.6	737	**2KJ4311 - ■ NL21 - ■ ■ G1**	
	131	4 010	11.26	48 100	2.9	737	**2KJ4311 - ■ NL21 - ■ ■ F1**	
	164	3 190	8.97	46 100	3.3	737	**2KJ4311 - ■ NL21 - ■ ■ E1**	
	183	2 870	8.07	43 900	2.9	737	**2KJ4311 - ■ NL21 - ■ ■ D1**	
	205	2 550	7.18	42 900	3.3	737	**2KJ4311 - ■ NL21 - ■ ■ C1**	
	258	2 030	5.72	41 000	4.0	737	**2KJ4311 - ■ NL21 - ■ ■ B1**	
	324	1 620	4.55	39 000	4.5	737	**2KJ4311 - ■ NL21 - ■ ■ A1**	
	FD.189-LHN250M4							
	24	22 100	62.11	87 600	0.86	965	**2KJ4412 - ■ NL21 - ■ ■ D1**	
	30	17 600	49.43	87 600	1.1	965	**2KJ4412 - ■ NL21 - ■ ■ C1**	
	36	14 400	40.61	86 700	1.3	965	**2KJ4412 - ■ NL21 - ■ ■ B1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
55	**FD.189-LHN250M4**							
	46	11 500	32.32	84 700	1.7	965	**2KJ4412 - ■ NL21 - ■ ■ A1**	
	FZ.189-LHN250M4							
	49	10 800	30.41	84 100	1.8	936	**2KJ4312 - ■ NL21 - ■ ■ J1**	
	54	9 670	27.17	82 800	2.0	936	**2KJ4312 - ■ NL21 - ■ ■ H1**	
	59	8 840	24.85	81 700	2.1	936	**2KJ4312 - ■ NL21 - ■ ■ G1**	
	67	7 860	22.09	80 100	2.4	936	**2KJ4312 - ■ NL21 - ■ ■ F1**	
	79	6 670	18.75	77 800	2.8	936	**2KJ4312 - ■ NL21 - ■ ■ E1**	
	91	5 770	16.21	75 700	3.3	936	**2KJ4312 - ■ NL21 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**FZ.29-LEN80MD4E**							
	28	185	50.32	5 000	0.81	22	**2KJ4301 - ■ DC32 - ■ ■ B2**	
	33	161	43.66	4 900	0.93	22	**2KJ4301 - ■ DC32 - ■ ■ A2**	
	36	146	39.69	4 800	1.0	22	**2KJ4301 - ■ DC32 - ■ ■ X1**	
	42	125	34.04	4 700	1.2	22	**2KJ4301 - ■ DC32 - ■ ■ W1**	
	46	114	30.95	4 600	1.3	22	**2KJ4301 - ■ DC32 - ■ ■ V1**	
	53	100	27.13	4 500	1.5	22	**2KJ4301 - ■ DC32 - ■ ■ U1**	
	59	89	24.22	4 400	1.7	22	**2KJ4301 - ■ DC32 - ■ ■ T1**	
	66	80	21.58	4 200	1.9	22	**2KJ4301 - ■ DC32 - ■ ■ S1**	
	72	73	19.92	4 200	2.0	22	**2KJ4301 - ■ DC32 - ■ ■ R1**	
	82	64	17.44	4 000	2.3	22	**2KJ4301 - ■ DC32 - ■ ■ Q1**	
	93	56	15.29	3 900	2.7	22	**2KJ4301 - ■ DC32 - ■ ■ P1**	
	103	51	13.88	3 800	2.9	22	**2KJ4301 - ■ DC32 - ■ ■ N1**	
	109	48	13.06	3 700	3.1	22	**2KJ4301 - ■ DC32 - ■ ■ M1**	
	124	42	11.51	3 600	3.4	22	**2KJ4301 - ■ DC32 - ■ ■ L1**	
	143	37	9.99	3 500	3.7	22	**2KJ4301 - ■ DC32 - ■ ■ K1**	
	147	36	9.69	3 400	4.0	22	**2KJ4301 - ■ DC32 - ■ ■ J1**	
	165	32	8.63	3 300	4.1	22	**2KJ4301 - ■ DC32 - ■ ■ H1**	
	179	29	7.97	3 200	4.1	22	**2KJ4301 - ■ DC32 - ■ ■ G1**	
	FD.39-LEN80MD4E							
	15	355	96.31	5 500	0.82	29	**2KJ4402 - ■ DC32 - ■ ■ G1**	
	17	310	84.32	5 700	0.93	29	**2KJ4402 - ■ DC32 - ■ ■ F1**	
	19	270	73.93	5 800	1.1	29	**2KJ4402 - ■ DC32 - ■ ■ E1**	
	21	245	67.07	5 900	1.2	29	**2KJ4402 - ■ DC32 - ■ ■ D1**	
	23	230	63.13	6 000	1.2	29	**2KJ4402 - ■ DC32 - ■ ■ C1**	
	26	205	55.65	6 100	1.4	29	**2KJ4402 - ■ DC32 - ■ ■ B1**	
	30	178	48.29	6 200	1.6	29	**2KJ4402 - ■ DC32 - ■ ■ A1**	
	FZ.39-LEN80MD4E							
	25	210	57.99	6 100	1.1	29	**2KJ4302 - ■ DC32 - ■ ■ A2**	
	28	188	50.91	6 200	1.3	29	**2KJ4302 - ■ DC32 - ■ ■ X1**	
	31	171	46.29	6 200	1.5	29	**2KJ4302 - ■ DC32 - ■ ■ W1**	
	36	146	39.6	6 300	2.0	29	**2KJ4302 - ■ DC32 - ■ ■ V1**	
	40	133	36	6 400	1.9	29	**2KJ4302 - ■ DC32 - ■ ■ U1**	
	45	117	31.82	6 200	2.4	29	**2KJ4302 - ■ DC32 - ■ ■ T1**	
	49	107	28.93	6 000	2.6	29	**2KJ4302 - ■ DC32 - ■ ■ S1**	
	56	93	25.34	5 900	2.8	29	**2KJ4302 - ■ DC32 - ■ ■ R1**	
	61	86	23.39	5 700	3.0	29	**2KJ4302 - ■ DC32 - ■ ■ Q1**	
	FD.49-LEN80MD4E							
	8.8	595	161.5	7 200	0.81	39	**2KJ4403 - ■ DC32 - ■ ■ L1**	
	9.7	540	146.82	7 500	0.89	39	**2KJ4403 - ■ DC32 - ■ ■ K1**	
	11	470	128.6	8 000	1.0	39	**2KJ4403 - ■ DC32 - ■ ■ J1**	
	12	435	118.71	8 100	1.1	39	**2KJ4403 - ■ DC32 - ■ ■ H1**	
	14	385	105.1	8 300	1.2	39	**2KJ4403 - ■ DC32 - ■ ■ G1**	
	16	320	87.48	8 500	1.5	39	**2KJ4403 - ■ DC32 - ■ ■ F1**	
	17	300	82.33	8 400	1.6	39	**2KJ4403 - ■ DC32 - ■ ■ E1**	
	19	270	73.77	8 300	1.8	39	**2KJ4403 - ■ DC32 - ■ ■ D1**	
	23	230	62.81	8 000	2.1	39	**2KJ4403 - ■ DC32 - ■ ■ C1**	
	26	198	53.83	7 700	2.4	39	**2KJ4403 - ■ DC32 - ■ ■ B1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**FZ.49-LEN80MD4E**							
	23	225	61.43	8 000	2.1	38	**2KJ4303 - ■ DC32 - ■ ■ X1**	
	26	205	55.85	7 800	2.3	38	**2KJ4303 - ■ DC32 - ■ ■ W1**	
	FD.69-LEN80MD4E							
	7.4	705	192.32	10 600	0.85	43	**2KJ4404 - ■ DC32 - ■ ■ M1**	
	8.4	625	170	10 800	0.96	43	**2KJ4404 - ■ DC32 - ■ ■ L1**	
	9.2	570	154.55	10 900	1.1	43	**2KJ4404 - ■ DC32 - ■ ■ K1**	
	11	460	124.96	11 100	1.3	43	**2KJ4404 - ■ DC32 - ■ ■ H1**	
	11	495	135.37	11 100	1.2	43	**2KJ4404 - ■ DC32 - ■ ■ J1**	
	13	405	110.63	11 300	1.5	43	**2KJ4404 - ■ DC32 - ■ ■ G1**	
	15	335	92.08	11 400	1.8	43	**2KJ4404 - ■ DC32 - ■ ■ F1**	
	16	315	86.67	11 500	1.9	43	**2KJ4404 - ■ DC32 - ■ ■ E1**	
	18	285	77.65	11 600	2.1	43	**2KJ4404 - ■ DC32 - ■ ■ D1**	
	FD.79-LEN80MD4E							
	4.4	1 190	324.62	13 200	0.84	50	**2KJ4405 - ■ DC32 - ■ ■ R1**	
	5.2	1 010	276.09	13 600	0.98	50	**2KJ4405 - ■ DC32 - ■ ■ Q1**	
	5.7	925	250.99	13 700	1.1	50	**2KJ4405 - ■ DC32 - ■ ■ P1**	
	6.4	825	223.94	13 900	1.2	50	**2KJ4405 - ■ DC32 - ■ ■ N1**	
	7.1	740	200.8	14 100	1.4	50	**2KJ4405 - ■ DC32 - ■ ■ M1**	
	7.9	665	180.99	14 200	1.5	50	**2KJ4405 - ■ DC32 - ■ ■ L1**	
	8.5	615	167.07	14 300	1.6	50	**2KJ4405 - ■ DC32 - ■ ■ K1**	
	9.3	560	152.51	14 400	1.8	50	**2KJ4405 - ■ DC32 - ■ ■ J1**	
	11	465	126.54	14 500	2.1	50	**2KJ4405 - ■ DC32 - ■ ■ H1**	
	FD.89-LEN80MD4E							
	4.2	1 230	335.3	17 400	1.5	82	**2KJ4406 - ■ DC32 - ■ ■ S1**	
	4.7	1 120	304.82	17 400	1.6	82	**2KJ4406 - ■ DC32 - ■ ■ R1**	
	5.2	1 000	273.41	17 400	1.8	82	**2KJ4406 - ■ DC32 - ■ ■ Q1**	
	5.8	905	245.82	17 400	2.0	82	**2KJ4406 - ■ DC32 - ■ ■ P1**	
	FD.89-Z39-LEN80MD4E							
	2.2	2 160	648	17 400	0.85	88	**2KJ4431 - ■ DC32 - ■ ■ E1**	
	2.5	1 940	581	17 400	0.95	88	**2KJ4431 - ■ DC32 - ■ ■ D1**	
	2.9	1 650	494	17 400	1.1	88	**2KJ4431 - ■ DC32 - ■ ■ C1**	
	3.4	1 410	424	17 400	1.3	88	**2KJ4431 - ■ DC32 - ■ ■ B1**	
	3.9	1 220	365	17 400	1.5	88	**2KJ4431 - ■ DC32 - ■ ■ A1**	
	FD.109-Z39-LEN80MD4E							
	1.2	3 810	1 141	25 000	0.81	120	**2KJ4433 - ■ DC32 - ■ ■ H1**	
	1.5	3 280	982	25 000	0.94	120	**2KJ4433 - ■ DC32 - ■ ■ G1**	
	1.8	2 710	810	25 000	1.1	120	**2KJ4433 - ■ DC32 - ■ ■ F1**	
	1.9	2 550	763	25 000	1.2	120	**2KJ4433 - ■ DC32 - ■ ■ E1**	
	2.1	2 280	683	25 000	1.4	120	**2KJ4433 - ■ DC32 - ■ ■ D1**	
	2.4	1 940	582	25 000	1.6	120	**2KJ4433 - ■ DC32 - ■ ■ C1**	
	2.9	1 670	499	25 000	1.9	120	**2KJ4433 - ■ DC32 - ■ ■ B1**	
	FD.129-Z49-LEN80MD4E							
	0.81	5 920	1 770	36 100	0.82	196	**2KJ4435 - ■ DC32 - ■ ■ M1**	
	0.94	5 070	1 516	36 900	0.96	196	**2KJ4435 - ■ DC32 - ■ ■ L1**	
	1.1	4 460	1 333	37 500	1.1	196	**2KJ4435 - ■ DC32 - ■ ■ K1**	
	1.3	3 760	1 125	37 500	1.3	196	**2KJ4435 - ■ DC32 - ■ ■ J1**	
	1.5	3 230	967	37 500	1.5	196	**2KJ4435 - ■ DC32 - ■ ■ G1**	
	1.5	3 270	980	37 500	1.5	196	**2KJ4435 - ■ DC32 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**FD.129-Z49-LEN80MD4E**							
	1.6	3 050	913	37 500	1.6	196	**2KJ4435 - ■ DC32 - ■ ■ F1**	
	1.8	2 600	777	37 500	1.9	196	**2KJ4435 - ■ DC32 - ■ ■ E1**	
	FD.149-Z49-LEN80MD4E							
	0.5	9 440	2 822	65 000	0.85	283	**2KJ4437 - ■ DC32 - ■ ■ R1**	
	0.61	7 830	2 342	65 000	1.0	283	**2KJ4437 - ■ DC32 - ■ ■ Q1**	
	0.65	7 370	2 204	65 000	1.1	283	**2KJ4437 - ■ DC32 - ■ ■ P1**	
	0.68	6 960	2 081	65 000	1.1	283	**2KJ4437 - ■ DC32 - ■ ■ N1**	
	0.8	5 920	1 771	65 000	1.4	283	**2KJ4437 - ■ DC32 - ■ ■ M1**	
	0.94	5 070	1 517	65 000	1.6	283	**2KJ4437 - ■ DC32 - ■ ■ L1**	
	1.1	4 460	1 334	65 000	1.8	283	**2KJ4437 - ■ DC32 - ■ ■ K1**	
	FD.169-Z69-LEN80MD4E							
	0.3	16 100	4 817	73 500	0.84	440	**2KJ4440 - ■ DC32 - ■ ■ W1**	
	0.33	14 600	4 379	73 500	0.93	440	**2KJ4440 - ■ DC32 - ■ ■ V1**	
	0.36	13 000	3 907	73 500	1.0	440	**2KJ4440 - ■ DC32 - ■ ■ U1**	
	0.41	11 700	3 503	73 500	1.2	440	**2KJ4440 - ■ DC32 - ■ ■ T1**	
	0.45	10 500	3 158	73 500	1.3	440	**2KJ4440 - ■ DC32 - ■ ■ S1**	
	0.49	9 750	2 915	73 500	1.4	440	**2KJ4440 - ■ DC32 - ■ ■ R1**	
	0.54	8 900	2 661	73 500	1.5	440	**2KJ4440 - ■ DC32 - ■ ■ Q1**	
	0.65	7 380	2 208	73 500	1.8	440	**2KJ4440 - ■ DC32 - ■ ■ P1**	
	0.69	6 950	2 078	73 500	2.0	440	**2KJ4440 - ■ DC32 - ■ ■ N1**	
	FD.189-Z69-LEN80MD4E							
	0.22	21 700	6 500	110 900	0.87	652	**2KJ4442 - ■ DC32 - ■ ■ B2**	
	0.26	18 500	5 529	110 900	1.0	652	**2KJ4442 - ■ DC32 - ■ ■ A2**	
	0.28	16 800	5 026	110 900	1.1	652	**2KJ4442 - ■ DC32 - ■ ■ X1**	
	0.32	15 000	4 484	110 900	1.3	652	**2KJ4442 - ■ DC32 - ■ ■ W1**	
	0.35	13 400	4 021	110 900	1.4	652	**2KJ4442 - ■ DC32 - ■ ■ V1**	
	0.39	12 100	3 624	110 900	1.6	652	**2KJ4442 - ■ DC32 - ■ ■ U1**	
	0.43	11 100	3 345	110 900	1.7	652	**2KJ4442 - ■ DC32 - ■ ■ T1**	
	0.47	10 200	3 054	110 900	1.9	652	**2KJ4442 - ■ DC32 - ■ ■ S1**	
0.75	**FZ.29-LEN80MH4E**							
	42	169	34.04	4 300	0.89	24	**2KJ4301 - ■ DE32 - ■ ■ W1**	
	47	154	30.95	4 200	0.97	24	**2KJ4301 - ■ DE32 - ■ ■ V1**	
	53	135	27.13	4 200	1.1	24	**2KJ4301 - ■ DE32 - ■ ■ U1**	
	59	120	24.22	4 100	1.2	24	**2KJ4301 - ■ DE32 - ■ ■ T1**	
	67	107	21.58	4 000	1.4	24	**2KJ4301 - ■ DE32 - ■ ■ S1**	
	72	99	19.92	3 900	1.5	24	**2KJ4301 - ■ DE32 - ■ ■ R1**	
	83	87	17.44	3 800	1.7	24	**2KJ4301 - ■ DE32 - ■ ■ Q1**	
	94	76	15.29	3 700	2.0	24	**2KJ4301 - ■ DE32 - ■ ■ P1**	
	104	69	13.88	3 600	2.2	24	**2KJ4301 - ■ DE32 - ■ ■ N1**	
	110	65	13.06	3 600	2.3	24	**2KJ4301 - ■ DE32 - ■ ■ M1**	
	125	57	11.51	3 500	2.5	24	**2KJ4301 - ■ DE32 - ■ ■ L1**	
	144	50	9.99	3 400	2.7	24	**2KJ4301 - ■ DE32 - ■ ■ K1**	
	149	48	9.69	3 300	3.0	24	**2KJ4301 - ■ DE32 - ■ ■ J1**	
	167	43	8.63	3 200	3.0	24	**2KJ4301 - ■ DE32 - ■ ■ H1**	
	181	40	7.97	3 100	3.0	24	**2KJ4301 - ■ DE32 - ■ ■ G1**	
	206	35	6.98	3 000	3.5	24	**2KJ4301 - ■ DE32 - ■ ■ F1**	
	235	30	6.12	2 900	3.7	24	**2KJ4301 - ■ DE32 - ■ ■ E1**	
	259	28	5.55	2 800	3.9	24	**2KJ4301 - ■ DE32 - ■ ■ D1**	
	276	26	5.22	2 800	4.1	24	**2KJ4301 - ■ DE32 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**FZ.29-LEN80MH4E**							
	313	23	4.60	2 700	4.2	24	**2KJ4301 - ■ DE32 - ■ ■ B1**	
	360	20	4.00	2 600	4.6	24	**2KJ4301 - ■ DE32 - ■ ■ A1**	
	FD.39-LEN80MH4E							
	21	330	67.07	5 600	0.87	31	**2KJ4402 - ■ DE32 - ■ ■ D1**	
	23	310	63.13	5 700	0.92	31	**2KJ4402 - ■ DE32 - ■ ■ C1**	
	26	275	55.65	5 800	1.0	31	**2KJ4402 - ■ DE32 - ■ ■ B1**	
	30	240	48.29	6 000	1.2	31	**2KJ4402 - ■ DE32 - ■ ■ A1**	
	FZ.39-LEN80MH4E							
	25	285	57.99	5 800	0.8	30	**2KJ4302 - ■ DE32 - ■ ■ A2**	
	28	250	50.91	5 900	0.95	30	**2KJ4302 - ■ DE32 - ■ ■ X1**	
	31	230	46.29	6 000	1.1	30	**2KJ4302 - ■ DE32 - ■ ■ W1**	
	36	197	39.6	6 100	1.5	30	**2KJ4302 - ■ DE32 - ■ ■ V1**	
	40	179	36	6 000	1.4	30	**2KJ4302 - ■ DE32 - ■ ■ U1**	
	45	158	31.82	5 900	1.8	30	**2KJ4302 - ■ DE32 - ■ ■ T1**	
	50	144	28.93	5 700	1.9	30	**2KJ4302 - ■ DE32 - ■ ■ S1**	
	57	126	25.34	5 600	2.1	30	**2KJ4302 - ■ DE32 - ■ ■ R1**	
	62	116	23.39	5 500	2.2	30	**2KJ4302 - ■ DE32 - ■ ■ Q1**	
	70	103	20.71	5 300	2.4	30	**2KJ4302 - ■ DE32 - ■ ■ P1**	
	84	86	17.24	5 100	2.7	30	**2KJ4302 - ■ DE32 - ■ ■ N1**	
	89	81	16.22	5 000	2.9	30	**2KJ4302 - ■ DE32 - ■ ■ M1**	
	99	72	14.54	4 900	3.0	30	**2KJ4302 - ■ DE32 - ■ ■ L1**	
	116	62	12.38	4 700	3.4	30	**2KJ4302 - ■ DE32 - ■ ■ K1**	
	136	53	10.61	4 500	3.8	30	**2KJ4302 - ■ DE32 - ■ ■ J1**	
	178	40	8.10	4 100	4.1	30	**2KJ4302 - ■ DE32 - ■ ■ G1**	
	214	34	6.74	3 900	4.5	30	**2KJ4302 - ■ DE32 - ■ ■ F1**	
	FD.49-LEN80MH4E							
	12	590	118.71	7 200	0.81	40	**2KJ4403 - ■ DE32 - ■ ■ H1**	
	14	520	105.1	7 700	0.92	40	**2KJ4403 - ■ DE32 - ■ ■ G1**	
	16	435	87.48	7 700	1.1	40	**2KJ4403 - ■ DE32 - ■ ■ F1**	
	17	410	82.33	7 700	1.2	40	**2KJ4403 - ■ DE32 - ■ ■ E1**	
	20	365	73.77	7 600	1.3	40	**2KJ4403 - ■ DE32 - ■ ■ D1**	
	23	310	62.81	7 400	1.5	40	**2KJ4403 - ■ DE32 - ■ ■ C1**	
	27	265	53.83	7 300	1.8	40	**2KJ4403 - ■ DE32 - ■ ■ B1**	
	31	230	46.36	7 000	2.1	40	**2KJ4403 - ■ DE32 - ■ ■ A1**	
	FZ.49-LEN80MH4E							
	23	305	61.43	7 400	1.6	40	**2KJ4303 - ■ DE32 - ■ ■ X1**	
	26	275	55.85	7 300	1.7	40	**2KJ4303 - ■ DE32 - ■ ■ W1**	
	30	235	47.5	7 100	2.0	40	**2KJ4303 - ■ DE32 - ■ ■ V1**	
	33	215	43.18	6 900	2.2	40	**2KJ4303 - ■ DE32 - ■ ■ U1**	
	37	192	38.53	6 800	2.5	40	**2KJ4303 - ■ DE32 - ■ ■ T1**	
	FD.69-LEN80MH4E							
	11	670	135.37	10 600	0.89	45	**2KJ4404 - ■ DE32 - ■ ■ J1**	
	12	620	124.96	10 800	0.97	45	**2KJ4404 - ■ DE32 - ■ ■ H1**	
	13	550	110.63	10 900	1.1	45	**2KJ4404 - ■ DE32 - ■ ■ G1**	
	16	455	92.08	11 200	1.3	45	**2KJ4404 - ■ DE32 - ■ ■ F1**	
	17	430	86.67	11 200	1.4	45	**2KJ4404 - ■ DE32 - ■ ■ E1**	
	19	385	77.65	11 300	1.6	45	**2KJ4404 - ■ DE32 - ■ ■ D1**	
	22	325	66.11	11 400	1.8	45	**2KJ4404 - ■ DE32 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**FD.69-LEN80MH4E**							
	25	280	56.67	11 000	2.1	45	**2KJ4404 - ■ DE32 - ■ ■ B1**	
	30	240	48.8	10 600	2.5	45	**2KJ4404 - ■ DE32 - ■ ■ A1**	
	FZ.69-LEN80MH4E							
	22	320	64.67	11 400	1.9	44	**2KJ4304 - ■ DE32 - ■ ■ X1**	
	24	290	58.79	11 100	2.1	44	**2KJ4304 - ■ DE32 - ■ ■ W1**	
	29	245	50	10 700	2.4	44	**2KJ4304 - ■ DE32 - ■ ■ V1**	
	FD.79-LEN80MH4E							
	5.7	1 240	250.99	13 100	0.8	52	**2KJ4405 - ■ DE32 - ■ ■ P1**	
	6.4	1 110	223.94	13 400	0.9	52	**2KJ4405 - ■ DE32 - ■ ■ N1**	
	7.2	995	200.8	13 600	1.0	52	**2KJ4405 - ■ DE32 - ■ ■ M1**	
	8.0	900	180.99	13 800	1.1	52	**2KJ4405 - ■ DE32 - ■ ■ L1**	
	8.6	830	167.07	13 900	1.2	52	**2KJ4405 - ■ DE32 - ■ ■ K1**	
	9.4	755	152.51	14 100	1.3	52	**2KJ4405 - ■ DE32 - ■ ■ J1**	
	11	625	126.54	14 300	1.6	52	**2KJ4405 - ■ DE32 - ■ ■ H1**	
	12	590	119.1	14 400	1.7	52	**2KJ4405 - ■ DE32 - ■ ■ G1**	
	13	555	112.48	14 500	1.8	52	**2KJ4405 - ■ DE32 - ■ ■ F1**	
	15	475	95.71	14 500	2.1	52	**2KJ4405 - ■ DE32 - ■ ■ E1**	
	FD.89-LEN80MH4E							
	4.3	1 660	335.3	17 400	1.1	83	**2KJ4406 - ■ DE32 - ■ ■ S1**	
	4.7	1 510	304.82	17 400	1.2	83	**2KJ4406 - ■ DE32 - ■ ■ R1**	
	5.3	1 360	273.41	17 400	1.4	83	**2KJ4406 - ■ DE32 - ■ ■ Q1**	
	5.9	1 220	245.82	17 400	1.5	83	**2KJ4406 - ■ DE32 - ■ ■ P1**	
	6.5	1 100	222.33	17 400	1.7	83	**2KJ4406 - ■ DE32 - ■ ■ N1**	
	7.0	1 020	205.23	17 400	1.8	83	**2KJ4406 - ■ DE32 - ■ ■ M1**	
	7.7	935	188	17 400	2.0	83	**2KJ4406 - ■ DE32 - ■ ■ L1**	
	FZ.29-LEN80ZMQ4P							
	42	169	34.04	4 300	0.89	16	**2KJ4301 - ■ DE33 - ■ ■ W1**	
	47	153	30.95	4 200	0.98	16	**2KJ4301 - ■ DE33 - ■ ■ V1**	
	53	134	27.13	4 200	1.1	16	**2KJ4301 - ■ DE33 - ■ ■ U1**	
	60	120	24.22	4 100	1.2	16	**2KJ4301 - ■ DE33 - ■ ■ T1**	
	67	107	21.58	4 000	1.4	16	**2KJ4301 - ■ DE33 - ■ ■ S1**	
	73	99	19.92	3 900	1.5	16	**2KJ4301 - ■ DE33 - ■ ■ R1**	
	83	86	17.44	3 800	1.7	16	**2KJ4301 - ■ DE33 - ■ ■ Q1**	
	95	76	15.29	3 700	2.0	16	**2KJ4301 - ■ DE33 - ■ ■ P1**	
	104	69	13.88	3 600	2.2	16	**2KJ4301 - ■ DE33 - ■ ■ N1**	
	111	65	13.06	3 600	2.3	16	**2KJ4301 - ■ DE33 - ■ ■ M1**	
	126	57	11.51	3 500	2.5	16	**2KJ4301 - ■ DE33 - ■ ■ L1**	
	145	50	9.99	3 300	2.7	16	**2KJ4301 - ■ DE33 - ■ ■ K1**	
	149	48	9.69	3 300	3.0	16	**2KJ4301 - ■ DE33 - ■ ■ J1**	
	167	43	8.63	3 200	3.0	16	**2KJ4301 - ■ DE33 - ■ ■ H1**	
	181	40	7.97	3 100	3.0	16	**2KJ4301 - ■ DE33 - ■ ■ G1**	
	207	35	6.98	3 000	3.6	16	**2KJ4301 - ■ DE33 - ■ ■ F1**	
	236	30	6.12	2 900	3.8	16	**2KJ4301 - ■ DE33 - ■ ■ E1**	
	260	28	5.55	2 800	3.9	16	**2KJ4301 - ■ DE33 - ■ ■ D1**	
	FZ.29-LEN80ZMQ4P							
	277	26	5.22	2 800	4.1	16	**2KJ4301 - ■ DE33 - ■ ■ C1**	
	314	23	4.60	2 700	4.3	16	**2KJ4301 - ■ DE33 - ■ ■ B1**	
	361	20	4.00	2 600	4.6	16	**2KJ4301 - ■ DE33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**FD.39-LEN80ZMQ4P**							
	22	330	67.07	5 600	0.87	22	**2KJ4402 - ■ DE33 - ■ ■ D1**	
	23	310	63.13	5 700	0.93	22	**2KJ4402 - ■ DE33 - ■ ■ C1**	
	26	275	55.65	5 800	1.1	22	**2KJ4402 - ■ DE33 - ■ ■ B1**	
	30	235	48.29	6 000	1.2	22	**2KJ4402 - ■ DE33 - ■ ■ A1**	
	FZ.39-LEN80ZMQ4P							
	25	285	57.99	5 800	0.8	22	**2KJ4302 - ■ DE33 - ■ ■ A2**	
	28	250	50.91	5 900	0.95	22	**2KJ4302 - ■ DE33 - ■ ■ X1**	
	31	225	46.29	6 000	1.1	22	**2KJ4302 - ■ DE33 - ■ ■ W1**	
	36	196	39.6	6 100	1.5	22	**2KJ4302 - ■ DE33 - ■ ■ V1**	
	40	178	36	6 000	1.4	22	**2KJ4302 - ■ DE33 - ■ ■ U1**	
	45	158	31.82	5 900	1.8	22	**2KJ4302 - ■ DE33 - ■ ■ T1**	
	50	143	28.93	5 700	1.9	22	**2KJ4302 - ■ DE33 - ■ ■ S1**	
	57	126	25.34	5 600	2.1	22	**2KJ4302 - ■ DE33 - ■ ■ R1**	
	62	116	23.39	5 500	2.2	22	**2KJ4302 - ■ DE33 - ■ ■ Q1**	
	70	103	20.71	5 300	2.4	22	**2KJ4302 - ■ DE33 - ■ ■ P1**	
	84	86	17.24	5 100	2.8	22	**2KJ4302 - ■ DE33 - ■ ■ N1**	
	89	80	16.22	5 000	2.9	22	**2KJ4302 - ■ DE33 - ■ ■ M1**	
	99	72	14.54	4 900	3.1	22	**2KJ4302 - ■ DE33 - ■ ■ L1**	
	117	61	12.38	4 700	3.4	22	**2KJ4302 - ■ DE33 - ■ ■ K1**	
	136	53	10.61	4 500	3.8	22	**2KJ4302 - ■ DE33 - ■ ■ J1**	
	178	40	8.10	4 100	4.2	22	**2KJ4302 - ■ DE33 - ■ ■ G1**	
	214	33	6.74	3 900	4.5	22	**2KJ4302 - ■ DE33 - ■ ■ F1**	
	FD.49-LEN80ZMQ4P							
	12	585	118.71	7 200	0.82	32	**2KJ4403 - ■ DE33 - ■ ■ H1**	
	14	520	105.1	7 700	0.92	32	**2KJ4403 - ■ DE33 - ■ ■ G1**	
	17	430	87.48	7 700	1.1	32	**2KJ4403 - ■ DE33 - ■ ■ F1**	
	18	405	82.33	7 700	1.2	32	**2KJ4403 - ■ DE33 - ■ ■ E1**	
	20	365	73.77	7 600	1.3	32	**2KJ4403 - ■ DE33 - ■ ■ D1**	
	23	310	62.81	7 400	1.5	32	**2KJ4403 - ■ DE33 - ■ ■ C1**	
	27	265	53.83	7 200	1.8	32	**2KJ4403 - ■ DE33 - ■ ■ B1**	
	31	230	46.36	7 000	2.1	32	**2KJ4403 - ■ DE33 - ■ ■ A1**	
	FZ.49-LEN80ZMQ4P							
	24	300	61.43	7 400	1.6	31	**2KJ4303 - ■ DE33 - ■ ■ X1**	
	26	275	55.85	7 300	1.7	31	**2KJ4303 - ■ DE33 - ■ ■ W1**	
	30	235	47.5	7 100	2.0	31	**2KJ4303 - ■ DE33 - ■ ■ V1**	
	33	210	43.18	7 000	2.2	31	**2KJ4303 - ■ DE33 - ■ ■ U1**	
	38	191	38.53	6 800	2.5	31	**2KJ4303 - ■ DE33 - ■ ■ T1**	
	FD.69-LEN80ZMQ4P							
	11	670	135.37	10 600	0.89	37	**2KJ4404 - ■ DE33 - ■ ■ J1**	
	12	615	124.96	10 800	0.97	37	**2KJ4404 - ■ DE33 - ■ ■ H1**	
	13	545	110.63	10 900	1.1	37	**2KJ4404 - ■ DE33 - ■ ■ G1**	
	16	455	92.08	11 200	1.3	37	**2KJ4404 - ■ DE33 - ■ ■ F1**	
	17	430	86.67	11 200	1.4	37	**2KJ4404 - ■ DE33 - ■ ■ E1**	
	19	385	77.65	11 300	1.6	37	**2KJ4404 - ■ DE33 - ■ ■ D1**	
	22	325	66.11	11 400	1.8	37	**2KJ4404 - ■ DE33 - ■ ■ C1**	
	25	280	56.67	11 000	2.1	37	**2KJ4404 - ■ DE33 - ■ ■ B1**	
	30	240	48.8	10 600	2.5	37	**2KJ4404 - ■ DE33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**FZ.69-LEN80ZMQ4P**							
	22	320	64.67	11 300	1.9	36	**2KJ4304 - ■ DE33 - ■ ■ X1**	
	25	290	58.79	11 100	2.1	36	**2KJ4304 - ■ DE33 - ■ ■ W1**	
	29	245	50	10 700	2.4	36	**2KJ4304 - ■ DE33 - ■ ■ V1**	
	FD.79-LEN80ZMQ4P							
	5.8	1 240	250.99	13 100	0.8	44	**2KJ4405 - ■ DE33 - ■ ■ P1**	
	6.5	1 110	223.94	13 400	0.9	44	**2KJ4405 - ■ DE33 - ■ ■ N1**	
	7.2	995	200.8	13 600	1.0	44	**2KJ4405 - ■ DE33 - ■ ■ M1**	
	8.0	895	180.99	13 800	1.1	44	**2KJ4405 - ■ DE33 - ■ ■ L1**	
	8.6	825	167.07	13 900	1.2	44	**2KJ4405 - ■ DE33 - ■ ■ K1**	
	9.5	755	152.51	14 100	1.3	44	**2KJ4405 - ■ DE33 - ■ ■ J1**	
	11	625	126.54	14 300	1.6	44	**2KJ4405 - ■ DE33 - ■ ■ H1**	
	12	590	119.1	14 400	1.7	44	**2KJ4405 - ■ DE33 - ■ ■ G1**	
	13	555	112.48	14 500	1.8	44	**2KJ4405 - ■ DE33 - ■ ■ F1**	
	15	470	95.71	14 500	2.1	44	**2KJ4405 - ■ DE33 - ■ ■ E1**	
	FD.89-LEN80ZMQ4P							
	4.3	1 660	335.3	17 400	1.1	75	**2KJ4406 - ■ DE33 - ■ ■ S1**	
	4.7	1 510	304.82	17 400	1.2	75	**2KJ4406 - ■ DE33 - ■ ■ R1**	
	5.3	1 350	273.41	17 400	1.4	75	**2KJ4406 - ■ DE33 - ■ ■ Q1**	
	5.9	1 210	245.82	17 400	1.5	75	**2KJ4406 - ■ DE33 - ■ ■ P1**	
	6.5	1 100	222.33	17 400	1.7	75	**2KJ4406 - ■ DE33 - ■ ■ N1**	
	7.0	1 010	205.23	17 400	1.8	75	**2KJ4406 - ■ DE33 - ■ ■ M1**	
	7.7	930	188	17 400	2.0	75	**2KJ4406 - ■ DE33 - ■ ■ L1**	
	FD.89-Z39-LEN80MH4E							
	2.9	2 250	494	17 400	0.82	90	**2KJ4431 - ■ DE32 - ■ ■ C1**	
	3.4	1 930	424	17 400	0.95	90	**2KJ4431 - ■ DE32 - ■ ■ B1**	
	3.9	1 660	365	17 400	1.1	90	**2KJ4431 - ■ DE32 - ■ ■ A1**	
	FD.89-Z39-LEN80ZMQ4P							
	2.9	2 250	494	17 400	0.82	81	**2KJ4431 - ■ DE33 - ■ ■ C1**	
	3.4	1 930	424	17 400	0.96	81	**2KJ4431 - ■ DE33 - ■ ■ B1**	
	4.0	1 660	365	17 400	1.1	81	**2KJ4431 - ■ DE33 - ■ ■ A1**	
	FD.109-Z39-LEN80MH4E							
	1.8	3 700	810	25 000	0.84	122	**2KJ4433 - ■ DE32 - ■ ■ F1**	
	1.9	3 480	763	25 000	0.89	122	**2KJ4433 - ■ DE32 - ■ ■ E1**	
	2.1	3 120	683	25 000	0.99	122	**2KJ4433 - ■ DE32 - ■ ■ D1**	
	2.5	2 660	582	25 000	1.2	122	**2KJ4433 - ■ DE32 - ■ ■ C1**	
	2.9	2 280	499	25 000	1.4	122	**2KJ4433 - ■ DE32 - ■ ■ B1**	
	3.4	1 960	429	25 000	1.6	122	**2KJ4433 - ■ DE32 - ■ ■ A1**	
	FD.129-Z49-LEN80MH4E							
	1.1	6 090	1 333	35 900	0.8	197	**2KJ4435 - ■ DE32 - ■ ■ K1**	
	1.3	5 140	1 125	36 900	0.94	197	**2KJ4435 - ■ DE32 - ■ ■ J1**	
	1.5	4 420	967	37 500	1.1	197	**2KJ4435 - ■ DE32 - ■ ■ G1**	
	1.5	4 480	980	37 500	1.1	197	**2KJ4435 - ■ DE32 - ■ ■ H1**	
	1.6	4 170	913	37 500	1.2	197	**2KJ4435 - ■ DE32 - ■ ■ F1**	
	1.9	3 550	777	37 500	1.4	197	**2KJ4435 - ■ DE32 - ■ ■ E1**	
	2.2	3 040	666	37 500	1.6	197	**2KJ4435 - ■ DE32 - ■ ■ D1**	
	2.5	2 670	585	37 500	1.8	197	**2KJ4435 - ■ DE32 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**FD.149-Z49-LEN80MH4E**							
	0.69	9 510	2 081	65 000	0.84	285	**2KJ4437 - ■ DE32 - ■ ■ N1**	
	0.81	8 090	1 771	65 000	0.99	285	**2KJ4437 - ■ DE32 - ■ ■ M1**	
	0.95	6 930	1 517	65 000	1.2	285	**2KJ4437 - ■ DE32 - ■ ■ L1**	
	1.1	6 100	1 334	65 000	1.3	285	**2KJ4437 - ■ DE32 - ■ ■ K1**	
	1.3	5 140	1 125	65 000	1.6	285	**2KJ4437 - ■ DE32 - ■ ■ J1**	
	1.5	4 420	968	65 000	1.8	285	**2KJ4437 - ■ DE32 - ■ ■ G1**	
	1.5	4 480	981	65 000	1.8	285	**2KJ4437 - ■ DE32 - ■ ■ H1**	
	1.6	4 170	914	65 000	1.9	285	**2KJ4437 - ■ DE32 - ■ ■ F1**	
	FD.169-Z69-LEN80MH4E							
	0.41	16 000	3 503	73 500	0.85	442	**2KJ4440 - ■ DE32 - ■ ■ T1**	
	0.46	14 400	3 158	73 500	0.94	442	**2KJ4440 - ■ DE32 - ■ ■ S1**	
	0.49	13 300	2 915	73 500	1.0	442	**2KJ4440 - ■ DE32 - ■ ■ R1**	
	0.54	12 100	2 661	73 500	1.1	442	**2KJ4440 - ■ DE32 - ■ ■ Q1**	
	0.65	10 000	2 208	73 500	1.3	442	**2KJ4440 - ■ DE32 - ■ ■ P1**	
	0.69	9 500	2 078	73 500	1.4	442	**2KJ4440 - ■ DE32 - ■ ■ N1**	
	0.73	8 970	1 963	73 500	1.5	442	**2KJ4440 - ■ DE32 - ■ ■ M1**	
	0.86	7 630	1 670	73 500	1.8	442	**2KJ4440 - ■ DE32 - ■ ■ L1**	
	FD.189-Z69-LEN80MH4E							
	0.29	22 900	5 026	110 300	0.83	654	**2KJ4442 - ■ DE32 - ■ ■ X1**	
	0.32	20 500	4 484	110 900	0.93	654	**2KJ4442 - ■ DE32 - ■ ■ W1**	
	0.36	18 300	4 021	110 900	1.0	654	**2KJ4442 - ■ DE32 - ■ ■ V1**	
	0.4	16 500	3 624	110 900	1.1	654	**2KJ4442 - ■ DE32 - ■ ■ U1**	
	0.43	15 200	3 345	110 900	1.2	654	**2KJ4442 - ■ DE32 - ■ ■ T1**	
	0.47	13 900	3 054	110 900	1.4	654	**2KJ4442 - ■ DE32 - ■ ■ S1**	
	0.57	11 500	2 534	110 900	1.6	654	**2KJ4442 - ■ DE32 - ■ ■ R1**	
	0.6	10 900	2 385	110 900	1.7	654	**2KJ4442 - ■ DE32 - ■ ■ Q1**	
	0.64	10 200	2 252	110 900	1.8	654	**2KJ4442 - ■ DE32 - ■ ■ P1**	
	FD.109-Z39-LEN80ZMQ4P							
	1.8	3 690	810	25 000	0.84	114	**2KJ4433 - ■ DE33 - ■ ■ F1**	
	1.9	3 470	763	25 000	0.89	114	**2KJ4433 - ■ DE33 - ■ ■ E1**	
	2.1	3 110	683	25 000	1.0	114	**2KJ4433 - ■ DE33 - ■ ■ D1**	
	2.5	2 650	582	25 000	1.2	114	**2KJ4433 - ■ DE33 - ■ ■ C1**	
	2.9	2 270	499	25 000	1.4	114	**2KJ4433 - ■ DE33 - ■ ■ B1**	
	3.4	1 950	429	25 000	1.6	114	**2KJ4433 - ■ DE33 - ■ ■ A1**	
	FD.129-Z49-LEN80ZMQ4P							
	1.1	6 070	1 333	36 000	0.8	189	**2KJ4435 - ■ DE33 - ■ ■ K1**	
	1.3	5 120	1 125	36 900	0.95	189	**2KJ4435 - ■ DE33 - ■ ■ J1**	
	1.5	4 400	967	37 500	1.1	189	**2KJ4435 - ■ DE33 - ■ ■ G1**	
	1.5	4 460	980	37 500	1.1	189	**2KJ4435 - ■ DE33 - ■ ■ H1**	
	1.6	4 160	913	37 500	1.2	189	**2KJ4435 - ■ DE33 - ■ ■ F1**	
	1.9	3 540	777	37 500	1.4	189	**2KJ4435 - ■ DE33 - ■ ■ E1**	
	2.2	3 030	666	37 500	1.6	189	**2KJ4435 - ■ DE33 - ■ ■ D1**	
	2.5	2 660	585	37 500	1.8	189	**2KJ4435 - ■ DE33 - ■ ■ C1**	
	FD.149-Z49-LEN80ZMQ4P							
	0.66	10 000	2 204	64 900	0.8	276	**2KJ4437 - ■ DE33 - ■ ■ P1**	
	0.69	9 480	2 081	65 000	0.84	276	**2KJ4437 - ■ DE33 - ■ ■ N1**	
	0.82	8 070	1 771	65 000	0.99	276	**2KJ4437 - ■ DE33 - ■ ■ M1**	
	0.95	6 910	1 517	65 000	1.2	276	**2KJ4437 - ■ DE33 - ■ ■ L1**	
	1.1	6 070	1 334	65 000	1.3	276	**2KJ4437 - ■ DE33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**FD.149-Z49-LEN80ZMQ4P**							
	1.3	5 120	1 125	65 000	1.6	276	**2KJ4437 - ■ DE33 - ■ ■ J1**	
	1.5	4 410	968	65 000	1.8	276	**2KJ4437 - ■ DE33 - ■ ■ G1**	
	1.5	4 470	981	65 000	1.8	276	**2KJ4437 - ■ DE33 - ■ ■ H1**	
	1.6	4 160	914	65 000	1.9	276	**2KJ4437 - ■ DE33 - ■ ■ F1**	
	FD.169-Z69-LEN80ZMQ4P							
	0.41	15 900	3 503	73 500	0.85	434	**2KJ4440 - ■ DE33 - ■ ■ T1**	
	0.46	14 300	3 158	73 500	0.95	434	**2KJ4440 - ■ DE33 - ■ ■ S1**	
	0.5	13 200	2 915	73 500	1.0	434	**2KJ4440 - ■ DE33 - ■ ■ R1**	
	0.54	12 100	2 661	73 500	1.1	434	**2KJ4440 - ■ DE33 - ■ ■ Q1**	
	0.65	10 000	2 208	73 500	1.4	434	**2KJ4440 - ■ DE33 - ■ ■ P1**	
	0.7	9 460	2 078	73 500	1.4	434	**2KJ4440 - ■ DE33 - ■ ■ N1**	
	0.74	8 940	1 963	73 500	1.5	434	**2KJ4440 - ■ DE33 - ■ ■ M1**	
	0.87	7 610	1 670	73 500	1.8	434	**2KJ4440 - ■ DE33 - ■ ■ L1**	
	FD.189-Z69-LEN80ZMQ4P							
	0.29	22 900	5 026	110 300	0.83	646	**2KJ4442 - ■ DE33 - ■ ■ X1**	
	0.32	20 400	4 484	110 900	0.93	646	**2KJ4442 - ■ DE33 - ■ ■ W1**	
	0.36	18 300	4 021	110 900	1.0	646	**2KJ4442 - ■ DE33 - ■ ■ V1**	
	0.4	16 500	3 624	110 900	1.2	646	**2KJ4442 - ■ DE33 - ■ ■ U1**	
	0.43	15 200	3 345	110 900	1.2	646	**2KJ4442 - ■ DE33 - ■ ■ T1**	
	0.47	13 900	3 054	110 900	1.4	646	**2KJ4442 - ■ DE33 - ■ ■ S1**	
	0.57	11 500	2 534	110 900	1.6	646	**2KJ4442 - ■ DE33 - ■ ■ R1**	
	0.61	10 800	2 385	110 900	1.7	646	**2KJ4442 - ■ DE33 - ■ ■ Q1**	
	0.64	10 200	2 252	110 900	1.9	646	**2KJ4442 - ■ DE33 - ■ ■ P1**	
1.1	**FZ.29-LEN90SH4E**							
	59	177	24.22	3 600	0.85	31	**2KJ4301 - ■ EL32 - ■ ■ T1**	
	67	157	21.58	3 600	0.95	31	**2KJ4301 - ■ EL32 - ■ ■ S1**	
	72	145	19.92	3 500	1.0	31	**2KJ4301 - ■ EL32 - ■ ■ R1**	
	83	127	17.44	3 500	1.2	31	**2KJ4301 - ■ EL32 - ■ ■ Q1**	
	94	112	15.29	3 400	1.3	31	**2KJ4301 - ■ EL32 - ■ ■ P1**	
	104	101	13.88	3 400	1.5	31	**2KJ4301 - ■ EL32 - ■ ■ N1**	
	110	95	13.06	3 300	1.6	31	**2KJ4301 - ■ EL32 - ■ ■ M1**	
	125	84	11.51	3 300	1.7	31	**2KJ4301 - ■ EL32 - ■ ■ L1**	
	144	73	9.99	3 200	1.9	31	**2KJ4301 - ■ EL32 - ■ ■ K1**	
	149	71	9.69	3 000	2.0	31	**2KJ4301 - ■ EL32 - ■ ■ J1**	
	167	63	8.63	3 000	2.1	31	**2KJ4301 - ■ EL32 - ■ ■ H1**	
	181	58	7.97	2 900	2.1	31	**2KJ4301 - ■ EL32 - ■ ■ G1**	
	206	51	6.98	2 800	2.4	31	**2KJ4301 - ■ EL32 - ■ ■ F1**	
	235	45	6.12	2 800	2.6	31	**2KJ4301 - ■ EL32 - ■ ■ E1**	
	259	40	5.55	2 700	2.7	31	**2KJ4301 - ■ EL32 - ■ ■ D1**	
	276	38	5.22	2 700	2.8	31	**2KJ4301 - ■ EL32 - ■ ■ C1**	
	313	34	4.60	2 600	2.9	31	**2KJ4301 - ■ EL32 - ■ ■ B1**	
	360	29	4.00	2 500	3.1	31	**2KJ4301 - ■ EL32 - ■ ■ A1**	
	FZ.29-LEN90SN4P							
	59	178	24.22	3 600	0.84	18	**2KJ4301 - ■ EL33 - ■ ■ T1**	
	66	159	21.58	3 600	0.95	18	**2KJ4301 - ■ EL33 - ■ ■ S1**	
	72	146	19.92	3 600	1.0	18	**2KJ4301 - ■ EL33 - ■ ■ R1**	
	82	128	17.44	3 500	1.2	18	**2KJ4301 - ■ EL33 - ■ ■ Q1**	
	94	112	15.29	3 400	1.3	18	**2KJ4301 - ■ EL33 - ■ ■ P1**	
	103	102	13.88	3 400	1.5	18	**2KJ4301 - ■ EL33 - ■ ■ N1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**FZ.29-LEN90SN4P**							
	109	96	13.06	3 300	1.6	18	**2KJ4301 - ■ EL33 - ■ ■ M1**	
	124	85	11.51	3 300	1.7	18	**2KJ4301 - ■ EL33 - ■ ■ L1**	
	143	73	9.99	3 200	1.9	18	**2KJ4301 - ■ EL33 - ■ ■ K1**	
	148	71	9.69	3 000	2.0	18	**2KJ4301 - ■ EL33 - ■ ■ J1**	
	166	63	8.63	3 000	2.1	18	**2KJ4301 - ■ EL33 - ■ ■ H1**	
	179	58	7.97	2 900	2.0	18	**2KJ4301 - ■ EL33 - ■ ■ G1**	
	205	51	6.98	2 800	2.4	18	**2KJ4301 - ■ EL33 - ■ ■ F1**	
	234	45	6.12	2 800	2.5	18	**2KJ4301 - ■ EL33 - ■ ■ E1**	
	258	41	5.55	2 700	2.6	18	**2KJ4301 - ■ EL33 - ■ ■ D1**	
	274	38	5.22	2 700	2.8	18	**2KJ4301 - ■ EL33 - ■ ■ C1**	
	311	34	4.60	2 600	2.9	18	**2KJ4301 - ■ EL33 - ■ ■ B1**	
	358	29	4.00	2 500	3.1	18	**2KJ4301 - ■ EL33 - ■ ■ A1**	
	FD.39-LEN90SH4E							
	30	350	48.29	5 500	0.82	38	**2KJ4402 - ■ EL32 - ■ ■ A1**	
	FD.39-LEN90SN4P							
	30	355	48.29	5 500	0.82	25	**2KJ4402 - ■ EL33 - ■ ■ A1**	
	FZ.39-LEN90SH4E							
	36	285	39.6	5 500	1.0	37	**2KJ4302 - ■ EL32 - ■ ■ V1**	
	40	260	36	5 400	0.97	37	**2KJ4302 - ■ EL32 - ■ ■ U1**	
	45	230	31.82	5 300	1.2	37	**2KJ4302 - ■ EL32 - ■ ■ T1**	
	50	210	28.93	5 300	1.3	37	**2KJ4302 - ■ EL32 - ■ ■ S1**	
	57	185	25.34	5 100	1.4	37	**2KJ4302 - ■ EL32 - ■ ■ R1**	
	62	171	23.39	5 100	1.5	37	**2KJ4302 - ■ EL32 - ■ ■ Q1**	
	70	151	20.71	5 000	1.7	37	**2KJ4302 - ■ EL32 - ■ ■ P1**	
	84	126	17.24	4 800	1.9	37	**2KJ4302 - ■ EL32 - ■ ■ N1**	
	89	118	16.22	4 700	1.9	37	**2KJ4302 - ■ EL32 - ■ ■ M1**	
	99	106	14.54	4 600	2.1	37	**2KJ4302 - ■ EL32 - ■ ■ L1**	
	116	90	12.38	4 500	2.3	37	**2KJ4302 - ■ EL32 - ■ ■ K1**	
	136	77	10.61	4 300	2.6	37	**2KJ4302 - ■ EL32 - ■ ■ J1**	
	158	67	9.13	4 100	2.8	37	**2KJ4302 - ■ EL32 - ■ ■ H1**	
	178	59	8.10	4 000	2.8	37	**2KJ4302 - ■ EL32 - ■ ■ G1**	
	214	49	6.74	3 800	3.1	37	**2KJ4302 - ■ EL32 - ■ ■ F1**	
	227	46	6.35	3 700	3.2	37	**2KJ4302 - ■ EL32 - ■ ■ E1**	
	253	42	5.69	3 600	3.4	37	**2KJ4302 - ■ EL32 - ■ ■ D1**	
	298	35	4.84	3 400	3.6	37	**2KJ4302 - ■ EL32 - ■ ■ C1**	
	347	30	4.15	3 300	3.9	37	**2KJ4302 - ■ EL32 - ■ ■ B1**	
	403	26	3.57	3 200	4.1	37	**2KJ4302 - ■ EL32 - ■ ■ A1**	
	FZ.39-LEN90SN4P							
	36	290	39.6	5 400	1.0	24	**2KJ4302 - ■ EL33 - ■ ■ V1**	
	40	260	36	5 400	0.96	24	**2KJ4302 - ■ EL33 - ■ ■ U1**	
	45	230	31.82	5 300	1.2	24	**2KJ4302 - ■ EL33 - ■ ■ T1**	
	49	210	28.93	5 300	1.3	24	**2KJ4302 - ■ EL33 - ■ ■ S1**	
	56	186	25.34	5 200	1.4	24	**2KJ4302 - ■ EL33 - ■ ■ R1**	
	61	172	23.39	5 100	1.5	24	**2KJ4302 - ■ EL33 - ■ ■ Q1**	
	69	152	20.71	5 000	1.6	24	**2KJ4302 - ■ EL33 - ■ ■ P1**	
	83	127	17.24	4 800	1.9	24	**2KJ4302 - ■ EL33 - ■ ■ N1**	
	88	119	16.22	4 700	1.9	24	**2KJ4302 - ■ EL33 - ■ ■ M1**	
	98	107	14.54	4 600	2.1	24	**2KJ4302 - ■ EL33 - ■ ■ L1**	
	116	91	12.38	4 500	2.3	24	**2KJ4302 - ■ EL33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**FZ.39-LEN90SN4P**							
	135	78	10.61	4 300	2.6	24	**2KJ4302 - ■ EL33 - ■ ■ J1**	
	157	67	9.13	4 100	2.8	24	**2KJ4302 - ■ EL33 - ■ ■ H1**	
	177	60	8.10	4 000	2.8	24	**2KJ4302 - ■ EL33 - ■ ■ G1**	
	212	50	6.74	3 800	3.1	24	**2KJ4302 - ■ EL33 - ■ ■ F1**	
	225	47	6.35	3 700	3.2	24	**2KJ4302 - ■ EL33 - ■ ■ E1**	
	251	42	5.69	3 600	3.3	24	**2KJ4302 - ■ EL33 - ■ ■ D1**	
	295	36	4.84	3 400	3.6	24	**2KJ4302 - ■ EL33 - ■ ■ C1**	
	345	30	4.15	3 300	3.9	24	**2KJ4302 - ■ EL33 - ■ ■ B1**	
	401	26	3.57	3 200	4.1	24	**2KJ4302 - ■ EL33 - ■ ■ A1**	
	FD.49-LEN90SH4E							
	17	600	82.33	6 400	0.8	45	**2KJ4403 - ■ EL32 - ■ ■ E1**	
	20	535	73.77	6 500	0.89	45	**2KJ4403 - ■ EL32 - ■ ■ D1**	
	23	455	62.81	6 500	1.0	45	**2KJ4403 - ■ EL32 - ■ ■ C1**	
	27	390	53.83	6 400	1.2	45	**2KJ4403 - ■ EL32 - ■ ■ B1**	
	31	335	46.36	6 400	1.4	45	**2KJ4403 - ■ EL32 - ■ ■ A1**	
	FD.49-LEN90SN4P							
	19	540	73.77	6 500	0.89	32	**2KJ4403 - ■ EL33 - ■ ■ D1**	
	23	460	62.81	6 500	1.0	32	**2KJ4403 - ■ EL33 - ■ ■ C1**	
	27	395	53.83	6 400	1.2	32	**2KJ4403 - ■ EL33 - ■ ■ B1**	
	31	340	46.36	6 300	1.4	32	**2KJ4403 - ■ EL33 - ■ ■ A1**	
	FZ.49-LEN90SH4E							
	23	445	61.43	6 500	1.1	45	**2KJ4303 - ■ EL32 - ■ ■ X1**	
	26	405	55.85	6 400	1.2	45	**2KJ4303 - ■ EL32 - ■ ■ W1**	
	30	345	47.5	6 400	1.4	45	**2KJ4303 - ■ EL32 - ■ ■ V1**	
	33	315	43.18	6 300	1.5	45	**2KJ4303 - ■ EL32 - ■ ■ U1**	
	37	280	38.53	6 200	1.7	45	**2KJ4303 - ■ EL32 - ■ ■ T1**	
	42	250	34.55	6 100	1.9	45	**2KJ4303 - ■ EL32 - ■ ■ S1**	
	46	225	31.14	6 000	2.1	45	**2KJ4303 - ■ EL32 - ■ ■ R1**	
	50	210	28.74	5 900	2.3	45	**2KJ4303 - ■ EL32 - ■ ■ Q1**	
	55	191	26.24	5 800	2.5	45	**2KJ4303 - ■ EL32 - ■ ■ P1**	
	66	159	21.77	5 600	3.0	45	**2KJ4303 - ■ EL32 - ■ ■ N1**	
	FZ.49-LEN90SN4P							
	23	450	61.43	6 500	1.1	32	**2KJ4303 - ■ EL33 - ■ ■ X1**	
	26	410	55.85	6 400	1.2	32	**2KJ4303 - ■ EL33 - ■ ■ W1**	
	30	345	47.5	6 400	1.4	32	**2KJ4303 - ■ EL33 - ■ ■ V1**	
	33	315	43.18	6 300	1.5	32	**2KJ4303 - ■ EL33 - ■ ■ U1**	
	37	280	38.53	6 200	1.7	32	**2KJ4303 - ■ EL33 - ■ ■ T1**	
	41	250	34.55	6 100	1.9	32	**2KJ4303 - ■ EL33 - ■ ■ S1**	
	46	225	31.14	6 000	2.1	32	**2KJ4303 - ■ EL33 - ■ ■ R1**	
	50	210	28.74	5 900	2.3	32	**2KJ4303 - ■ EL33 - ■ ■ Q1**	
	54	193	26.24	5 800	2.5	32	**2KJ4303 - ■ EL33 - ■ ■ P1**	
	66	160	21.77	5 600	3.0	32	**2KJ4303 - ■ EL33 - ■ ■ N1**	
	FD.69-LEN90SH4E							
	16	670	92.08	10 600	0.89	50	**2KJ4404 - ■ EL32 - ■ ■ F1**	
	17	630	86.67	10 700	0.95	50	**2KJ4404 - ■ EL32 - ■ ■ E1**	
	19	565	77.65	10 700	1.1	50	**2KJ4404 - ■ EL32 - ■ ■ D1**	
	22	480	66.11	10 500	1.2	50	**2KJ4404 - ■ EL32 - ■ ■ C1**	
	25	410	56.67	10 200	1.5	50	**2KJ4404 - ■ EL32 - ■ ■ B1**	
	30	355	48.8	9 900	1.7	50	**2KJ4404 - ■ EL32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**FD.69-LEN90SN4P**							
	16	635	86.67	10 700	0.94	37	**2KJ4404 - ■ EL33 - ■ ■ E1**	
	16	675	92.08	10 600	0.89	37	**2KJ4404 - ■ EL33 - ■ ■ F1**	
	18	570	77.65	10 700	1.1	37	**2KJ4404 - ■ EL33 - ■ ■ D1**	
	22	485	66.11	10 500	1.2	37	**2KJ4404 - ■ EL33 - ■ ■ C1**	
	25	415	56.67	10 200	1.4	37	**2KJ4404 - ■ EL33 - ■ ■ B1**	
	29	355	48.8	10 000	1.7	37	**2KJ4404 - ■ EL33 - ■ ■ A1**	
	FZ.69-LEN90SH4E							
	22	470	64.67	10 400	1.3	50	**2KJ4304 - ■ EL32 - ■ ■ X1**	
	24	425	58.79	10 300	1.4	50	**2KJ4304 - ■ EL32 - ■ ■ W1**	
	29	365	50	10 000	1.6	50	**2KJ4304 - ■ EL32 - ■ ■ V1**	
	32	330	45.45	9 800	1.8	50	**2KJ4304 - ■ EL32 - ■ ■ U1**	
	36	295	40.56	9 600	2.0	50	**2KJ4304 - ■ EL32 - ■ ■ T1**	
	40	265	36.36	9 400	2.3	50	**2KJ4304 - ■ EL32 - ■ ■ S1**	
	44	235	32.78	9 200	2.5	50	**2KJ4304 - ■ EL32 - ■ ■ R1**	
	48	220	30.26	9 000	2.7	50	**2KJ4304 - ■ EL32 - ■ ■ Q1**	
	FZ.69-LEN90SN4P							
	22	475	64.67	10 400	1.3	37	**2KJ4304 - ■ EL33 - ■ ■ X1**	
	24	430	58.79	10 300	1.4	37	**2KJ4304 - ■ EL33 - ■ ■ W1**	
	29	365	50	10 000	1.6	37	**2KJ4304 - ■ EL33 - ■ ■ V1**	
	31	330	45.45	9 800	1.8	37	**2KJ4304 - ■ EL33 - ■ ■ U1**	
	35	295	40.56	9 600	2.0	37	**2KJ4304 - ■ EL33 - ■ ■ T1**	
	39	265	36.36	9 400	2.2	37	**2KJ4304 - ■ EL33 - ■ ■ S1**	
	44	240	32.78	9 200	2.5	37	**2KJ4304 - ■ EL33 - ■ ■ R1**	
	47	220	30.26	9 000	2.7	37	**2KJ4304 - ■ EL33 - ■ ■ Q1**	
	FD.79-LEN90SH4E							
	8.6	1 210	167.07	13 200	0.82	59	**2KJ4405 - ■ EL32 - ■ ■ K1**	
	9.4	1 110	152.51	13 400	0.9	59	**2KJ4405 - ■ EL32 - ■ ■ J1**	
	11	920	126.54	13 700	1.1	59	**2KJ4405 - ■ EL32 - ■ ■ H1**	
	12	865	119.1	13 800	1.2	59	**2KJ4405 - ■ EL32 - ■ ■ G1**	
	13	820	112.48	13 900	1.2	59	**2KJ4405 - ■ EL32 - ■ ■ F1**	
	15	695	95.71	14 200	1.4	59	**2KJ4405 - ■ EL32 - ■ ■ E1**	
	18	595	81.99	14 400	1.7	59	**2KJ4405 - ■ EL32 - ■ ■ D1**	
	20	525	72.09	14 500	1.9	59	**2KJ4405 - ■ EL32 - ■ ■ C1**	
	24	440	60.82	14 500	2.3	59	**2KJ4405 - ■ EL32 - ■ ■ B1**	
	FD.79-LEN90SN4P							
	8.6	1 220	167.07	13 100	0.81	46	**2KJ4405 - ■ EL33 - ■ ■ K1**	
	9.4	1 120	152.51	13 300	0.89	46	**2KJ4405 - ■ EL33 - ■ ■ J1**	
	11	930	126.54	13 700	1.1	46	**2KJ4405 - ■ EL33 - ■ ■ H1**	
	12	875	119.1	13 800	1.1	46	**2KJ4405 - ■ EL33 - ■ ■ G1**	
	13	825	112.48	13 900	1.2	46	**2KJ4405 - ■ EL33 - ■ ■ F1**	
	15	700	95.71	14 200	1.4	46	**2KJ4405 - ■ EL33 - ■ ■ E1**	
	17	600	81.99	14 400	1.7	46	**2KJ4405 - ■ EL33 - ■ ■ D1**	
	20	530	72.09	14 500	1.9	46	**2KJ4405 - ■ EL33 - ■ ■ C1**	
	24	445	60.82	14 500	2.2	46	**2KJ4405 - ■ EL33 - ■ ■ B1**	
	FZ.79-LEN90SN4P							
	27	390	53.55	14 500	2.5	45	**2KJ4305 - ■ EL33 - ■ ■ X1**	
	FD.89-LEN90SH4E							
	4.7	2 220	304.82	17 400	0.83	91	**2KJ4406 - ■ EL32 - ■ ■ R1**	
	5.3	1 990	273.41	17 400	0.93	91	**2KJ4406 - ■ EL32 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**FD.89-LEN90SH4E**							
	5.9	1 790	245.82	17 400	1.0	91	**2KJ4406 - ■ EL32 - ■ ■ P1**	
	6.5	1 620	222.33	17 400	1.1	91	**2KJ4406 - ■ EL32 - ■ ■ N1**	
	7.0	1 490	205.23	17 400	1.2	91	**2KJ4406 - ■ EL32 - ■ ■ M1**	
	7.7	1 370	188	17 400	1.3	91	**2KJ4406 - ■ EL32 - ■ ■ L1**	
	9.1	1 150	157.74	17 400	1.6	91	**2KJ4406 - ■ EL32 - ■ ■ K1**	
	9.7	1 080	148.46	17 400	1.7	91	**2KJ4406 - ■ EL32 - ■ ■ J1**	
	11	990	136.21	17 400	1.9	91	**2KJ4406 - ■ EL32 - ■ ■ H1**	
	12	865	118.98	17 400	2.1	91	**2KJ4406 - ■ EL32 - ■ ■ G1**	
	FD.89-LEN90SN4P							
	4.7	2 230	304.82	17 400	0.83	78	**2KJ4406 - ■ EL33 - ■ ■ R1**	
	5.2	2 000	273.41	17 400	0.92	78	**2KJ4406 - ■ EL33 - ■ ■ Q1**	
	5.8	1 800	245.82	17 400	1.0	78	**2KJ4406 - ■ EL33 - ■ ■ P1**	
	6.4	1 630	222.33	17 400	1.1	78	**2KJ4406 - ■ EL33 - ■ ■ N1**	
	7.0	1 500	205.23	17 400	1.2	78	**2KJ4406 - ■ EL33 - ■ ■ M1**	
	7.6	1 380	188	17 400	1.3	78	**2KJ4406 - ■ EL33 - ■ ■ L1**	
	9.1	1 150	157.74	17 400	1.6	78	**2KJ4406 - ■ EL33 - ■ ■ K1**	
	9.6	1 090	148.46	17 400	1.7	78	**2KJ4406 - ■ EL33 - ■ ■ J1**	
	10	1 000	136.21	17 400	1.8	78	**2KJ4406 - ■ EL33 - ■ ■ H1**	
	12	870	118.98	17 400	2.1	78	**2KJ4406 - ■ EL33 - ■ ■ G1**	
	FD.109-LEN90SH4E							
	3.5	2 990	410	25 000	1.0	131	**2KJ4407 - ■ EL32 - ■ ■ T1**	
	3.9	2 690	370	25 000	1.1	131	**2KJ4407 - ■ EL32 - ■ ■ S1**	
	4.3	2 440	335.7	25 000	1.3	131	**2KJ4407 - ■ EL32 - ■ ■ R1**	
	4.6	2 260	309.87	25 000	1.4	131	**2KJ4407 - ■ EL32 - ■ ■ Q1**	
	5.1	2 050	281.68	25 000	1.5	131	**2KJ4407 - ■ EL32 - ■ ■ P1**	
	6.0	1 740	238.52	25 000	1.8	131	**2KJ4407 - ■ EL32 - ■ ■ N1**	
	6.4	1 630	224.49	25 000	1.9	131	**2KJ4407 - ■ EL32 - ■ ■ M1**	
	6.9	1 510	207.31	25 000	2.0	131	**2KJ4407 - ■ EL32 - ■ ■ L1**	
	FD.109-LEN90SN4P							
	3.5	3 010	410	25 000	1.0	118	**2KJ4407 - ■ EL33 - ■ ■ T1**	
	3.9	2 710	370	25 000	1.1	118	**2KJ4407 - ■ EL33 - ■ ■ S1**	
	4.3	2 460	335.7	25 000	1.3	118	**2KJ4407 - ■ EL33 - ■ ■ R1**	
	4.6	2 270	309.87	25 000	1.4	118	**2KJ4407 - ■ EL33 - ■ ■ Q1**	
	5.1	2 060	281.68	25 000	1.5	118	**2KJ4407 - ■ EL33 - ■ ■ P1**	
	6.0	1 750	238.52	25 000	1.8	118	**2KJ4407 - ■ EL33 - ■ ■ N1**	
	6.4	1 640	224.49	25 000	1.9	118	**2KJ4407 - ■ EL33 - ■ ■ M1**	
	6.9	1 520	207.31	25 000	2.0	118	**2KJ4407 - ■ EL33 - ■ ■ L1**	
	FD.129-LEN90SH4E							
	3.5	3 010	413	37 500	1.6	184	**2KJ4408 - ■ EL32 - ■ ■ T1**	
	3.8	2 770	381	37 500	1.7	184	**2KJ4408 - ■ EL32 - ■ ■ S1**	
	4.1	2 560	351	37 500	1.9	184	**2KJ4408 - ■ EL32 - ■ ■ R1**	
	FD.129-LEN90SN4P							
	3.5	3 030	413	37 500	1.6	171	**2KJ4408 - ■ EL33 - ■ ■ T1**	
	3.8	2 790	381	37 500	1.7	171	**2KJ4408 - ■ EL33 - ■ ■ S1**	
	4.1	2 570	351	37 500	1.9	171	**2KJ4408 - ■ EL33 - ■ ■ R1**	
	FD.109-Z39-LEN90SH4E							
	2.9	3 380	499	25 000	0.92	129	**2KJ4433 - ■ EL32 - ■ ■ B1**	
	3.4	2 900	429	25 000	1.1	129	**2KJ4433 - ■ EL32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**FD.109-Z39-LEN90SN4P**							
	2.9	3 400	499	25 000	0.91	116	**2KJ4433 - ■ EL33 - ■ ■ B1**	
	3.3	2 920	429	25 000	1.1	116	**2KJ4433 - ■ EL33 - ■ ■ A1**	
	FD.129-Z49-LEN90SH4E							
	1.9	5 260	777	36 800	0.92	203	**2KJ4435 - ■ EL32 - ■ ■ E1**	
	2.2	4 510	666	37 500	1.1	203	**2KJ4435 - ■ EL32 - ■ ■ D1**	
	2.5	3 960	585	37 500	1.2	203	**2KJ4435 - ■ EL32 - ■ ■ C1**	
	2.9	3 340	494	37 500	1.4	203	**2KJ4435 - ■ EL32 - ■ ■ B1**	
	3.3	2 910	430	37 500	1.7	203	**2KJ4435 - ■ EL32 - ■ ■ A1**	
	FD.129-Z49-LEN90SN4P							
	1.8	5 300	777	36 700	0.91	190	**2KJ4435 - ■ EL33 - ■ ■ E1**	
	2.1	4 540	666	37 500	1.1	190	**2KJ4435 - ■ EL33 - ■ ■ D1**	
	2.4	3 990	585	37 500	1.2	190	**2KJ4435 - ■ EL33 - ■ ■ C1**	
	2.9	3 370	494	37 500	1.4	190	**2KJ4435 - ■ EL33 - ■ ■ B1**	
	3.3	2 930	430	37 500	1.7	190	**2KJ4435 - ■ EL33 - ■ ■ A1**	
	FD.149-Z49-LEN90SH4E							
	1.1	9 040	1 334	65 000	0.88	290	**2KJ4437 - ■ EL32 - ■ ■ K1**	
	1.3	7 620	1 125	65 000	1.0	290	**2KJ4437 - ■ EL32 - ■ ■ J1**	
	1.5	6 560	968	65 000	1.2	290	**2KJ4437 - ■ EL32 - ■ ■ G1**	
	1.5	6 650	981	65 000	1.2	290	**2KJ4437 - ■ EL32 - ■ ■ H1**	
	1.6	6 190	914	65 000	1.3	290	**2KJ4437 - ■ EL32 - ■ ■ F1**	
	1.9	5 270	778	65 000	1.5	290	**2KJ4437 - ■ EL32 - ■ ■ E1**	
	2.2	4 510	666	65 000	1.8	290	**2KJ4437 - ■ EL32 - ■ ■ D1**	
	2.5	3 970	586	65 000	2.0	290	**2KJ4437 - ■ EL32 - ■ ■ C1**	
	FD.149-Z49-LEN90SN4P							
	1.1	9 100	1 334	65 000	0.88	277	**2KJ4437 - ■ EL33 - ■ ■ K1**	
	1.3	7 680	1 125	65 000	1.0	277	**2KJ4437 - ■ EL33 - ■ ■ J1**	
	1.5	6 600	968	65 000	1.2	277	**2KJ4437 - ■ EL33 - ■ ■ G1**	
	1.5	6 690	981	65 000	1.2	277	**2KJ4437 - ■ EL33 - ■ ■ H1**	
	1.6	6 240	914	65 000	1.3	277	**2KJ4437 - ■ EL33 - ■ ■ F1**	
	1.8	5 310	778	65 000	1.5	277	**2KJ4437 - ■ EL33 - ■ ■ E1**	
	2.1	4 540	666	65 000	1.8	277	**2KJ4437 - ■ EL33 - ■ ■ D1**	
	2.4	4 000	586	65 000	2.0	277	**2KJ4437 - ■ EL33 - ■ ■ C1**	
	FD.169-Z69-LEN90SH4E							
	0.65	14 900	2 208	73 500	0.91	447	**2KJ4440 - ■ EL32 - ■ ■ P1**	
	0.69	14 000	2 078	73 500	0.97	447	**2KJ4440 - ■ EL32 - ■ ■ N1**	
	0.73	13 300	1 963	73 500	1.0	447	**2KJ4440 - ■ EL32 - ■ ■ M1**	
	0.86	11 300	1 670	73 500	1.2	447	**2KJ4440 - ■ EL32 - ■ ■ L1**	
	1.0	9 700	1 431	73 500	1.4	447	**2KJ4440 - ■ EL32 - ■ ■ K1**	
	1.1	8 520	1 258	73 500	1.6	447	**2KJ4440 - ■ EL32 - ■ ■ J1**	
	1.4	7 190	1 061	73 500	1.9	447	**2KJ4440 - ■ EL32 - ■ ■ H1**	
	FD.169-Z69-LEN90SN4P							
	0.65	15 000	2 208	73 500	0.9	434	**2KJ4440 - ■ EL33 - ■ ■ P1**	
	0.69	14 100	2 078	73 500	0.96	434	**2KJ4440 - ■ EL33 - ■ ■ N1**	
	0.73	13 400	1 963	73 500	1.0	434	**2KJ4440 - ■ EL33 - ■ ■ M1**	
	0.86	11 400	1 670	73 500	1.2	434	**2KJ4440 - ■ EL33 - ■ ■ L1**	
	1.0	9 770	1 431	73 500	1.4	434	**2KJ4440 - ■ EL33 - ■ ■ K1**	
	1.1	8 580	1 258	73 500	1.6	434	**2KJ4440 - ■ EL33 - ■ ■ J1**	
	1.3	7 240	1 061	73 500	1.9	434	**2KJ4440 - ■ EL33 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**FD.189-Z69-LEN90SH4E**							
	0.43	22 600	3 345	110 500	0.84	659	**2KJ4442 - ■ EL32 - ■ ■ T1**	
	0.47	20 700	3 054	110 900	0.92	659	**2KJ4442 - ■ EL32 - ■ ■ S1**	
	0.57	17 100	2 534	110 900	1.1	659	**2KJ4442 - ■ EL32 - ■ ■ R1**	
	0.6	16 100	2 385	110 900	1.2	659	**2KJ4442 - ■ EL32 - ■ ■ Q1**	
	0.64	15 200	2 252	110 900	1.2	659	**2KJ4442 - ■ EL32 - ■ ■ P1**	
	0.75	12 900	1 917	110 900	1.5	659	**2KJ4442 - ■ EL32 - ■ ■ N1**	
	0.88	11 100	1 642	110 900	1.7	659	**2KJ4442 - ■ EL32 - ■ ■ M1**	
	1.0	9 790	1 444	110 900	1.9	659	**2KJ4442 - ■ EL32 - ■ ■ L1**	
	FD.189-Z69-LEN90SN4P							
	0.43	22 800	3 345	110 400	0.83	646	**2KJ4442 - ■ EL33 - ■ ■ T1**	
	0.47	20 800	3 054	110 900	0.91	646	**2KJ4442 - ■ EL33 - ■ ■ S1**	
	0.56	17 300	2 534	110 900	1.1	646	**2KJ4442 - ■ EL33 - ■ ■ R1**	
	0.6	16 200	2 385	110 900	1.2	646	**2KJ4442 - ■ EL33 - ■ ■ Q1**	
	0.63	15 300	2 252	110 900	1.2	646	**2KJ4442 - ■ EL33 - ■ ■ P1**	
	0.75	13 000	1 917	110 900	1.5	646	**2KJ4442 - ■ EL33 - ■ ■ N1**	
	0.87	11 200	1 642	110 900	1.7	646	**2KJ4442 - ■ EL33 - ■ ■ M1**	
	0.99	9 850	1 444	110 900	1.9	646	**2KJ4442 - ■ EL33 - ■ ■ L1**	
1.5	**FZ.29-LEN90LJ4E**							
	83	173	17.44	3 100	0.86	32	**2KJ4301 - ■ EN32 - ■ ■ Q1**	
	94	152	15.29	3 100	0.99	32	**2KJ4301 - ■ EN32 - ■ ■ P1**	
	104	138	13.88	3 100	1.1	32	**2KJ4301 - ■ EN32 - ■ ■ N1**	
	110	130	13.06	3 000	1.2	32	**2KJ4301 - ■ EN32 - ■ ■ M1**	
	125	115	11.51	3 000	1.2	32	**2KJ4301 - ■ EN32 - ■ ■ L1**	
	144	99	9.99	2 900	1.4	32	**2KJ4301 - ■ EN32 - ■ ■ K1**	
	149	96	9.69	2 800	1.5	32	**2KJ4301 - ■ EN32 - ■ ■ J1**	
	167	86	8.63	2 800	1.5	32	**2KJ4301 - ■ EN32 - ■ ■ H1**	
	181	79	7.97	2 700	1.5	32	**2KJ4301 - ■ EN32 - ■ ■ G1**	
	206	69	6.98	2 700	1.8	32	**2KJ4301 - ■ EN32 - ■ ■ F1**	
	235	61	6.12	2 600	1.9	32	**2KJ4301 - ■ EN32 - ■ ■ E1**	
	259	55	5.55	2 600	2.0	32	**2KJ4301 - ■ EN32 - ■ ■ D1**	
	276	52	5.22	2 500	2.0	32	**2KJ4301 - ■ EN32 - ■ ■ C1**	
	313	46	4.60	2 500	2.1	32	**2KJ4301 - ■ EN32 - ■ ■ B1**	
	360	40	4.00	2 400	2.3	32	**2KJ4301 - ■ EN32 - ■ ■ A1**	
	FZ.29-LEN90LR4P							
	83	173	17.44	3 100	0.86	21	**2KJ4301 - ■ EN33 - ■ ■ Q1**	
	94	152	15.29	3 100	0.99	21	**2KJ4301 - ■ EN33 - ■ ■ P1**	
	104	138	13.88	3 100	1.1	21	**2KJ4301 - ■ EN33 - ■ ■ N1**	
	110	130	13.06	3 000	1.2	21	**2KJ4301 - ■ EN33 - ■ ■ M1**	
	125	115	11.51	3 000	1.2	21	**2KJ4301 - ■ EN33 - ■ ■ L1**	
	144	99	9.99	2 900	1.4	21	**2KJ4301 - ■ EN33 - ■ ■ K1**	
	149	96	9.69	2 800	1.5	21	**2KJ4301 - ■ EN33 - ■ ■ J1**	
	167	86	8.63	2 800	1.5	21	**2KJ4301 - ■ EN33 - ■ ■ H1**	
	181	79	7.97	2 700	1.5	21	**2KJ4301 - ■ EN33 - ■ ■ G1**	
	206	69	6.98	2 700	1.8	21	**2KJ4301 - ■ EN33 - ■ ■ F1**	
	235	61	6.12	2 600	1.9	21	**2KJ4301 - ■ EN33 - ■ ■ E1**	
	259	55	5.55	2 600	2.0	21	**2KJ4301 - ■ EN33 - ■ ■ D1**	
	276	52	5.22	2 500	2.0	21	**2KJ4301 - ■ EN33 - ■ ■ C1**	
	313	46	4.60	2 500	2.1	21	**2KJ4301 - ■ EN33 - ■ ■ B1**	
	360	40	4.00	2 400	2.3	21	**2KJ4301 - ■ EN33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**FZ.39-LEN90LJ4E**							
	45	315	31.82	4 700	0.9	38	**2KJ4302 - ■ EN32 - ■ ■ T1**	
	50	285	28.93	4 700	0.96	38	**2KJ4302 - ■ EN32 - ■ ■ S1**	
	57	250	25.34	4 700	1.1	38	**2KJ4302 - ■ EN32 - ■ ■ R1**	
	62	230	23.39	4 600	1.1	38	**2KJ4302 - ■ EN32 - ■ ■ Q1**	
	70	205	20.71	4 600	1.2	38	**2KJ4302 - ■ EN32 - ■ ■ P1**	
	84	172	17.24	4 400	1.4	38	**2KJ4302 - ■ EN32 - ■ ■ N1**	
	89	161	16.22	4 400	1.4	38	**2KJ4302 - ■ EN32 - ■ ■ M1**	
	99	145	14.54	4 300	1.5	38	**2KJ4302 - ■ EN32 - ■ ■ L1**	
	116	123	12.38	4 200	1.7	38	**2KJ4302 - ■ EN32 - ■ ■ K1**	
	136	106	10.61	4 100	1.9	38	**2KJ4302 - ■ EN32 - ■ ■ J1**	
	158	91	9.13	3 900	2.1	38	**2KJ4302 - ■ EN32 - ■ ■ H1**	
	178	81	8.10	3 800	2.1	38	**2KJ4302 - ■ EN32 - ■ ■ G1**	
	214	67	6.74	3 600	2.3	38	**2KJ4302 - ■ EN32 - ■ ■ F1**	
	227	63	6.35	3 600	2.4	38	**2KJ4302 - ■ EN32 - ■ ■ E1**	
	253	57	5.69	3 500	2.5	38	**2KJ4302 - ■ EN32 - ■ ■ D1**	
	298	48	4.84	3 300	2.7	38	**2KJ4302 - ■ EN32 - ■ ■ C1**	
	347	41	4.15	3 200	2.9	38	**2KJ4302 - ■ EN32 - ■ ■ B1**	
	403	36	3.57	3 100	3.0	38	**2KJ4302 - ■ EN32 - ■ ■ A1**	
	FZ.39-LEN90LR4P							
	45	315	31.82	4 700	0.9	27	**2KJ4302 - ■ EN33 - ■ ■ T1**	
	50	285	28.93	4 700	0.96	27	**2KJ4302 - ■ EN33 - ■ ■ S1**	
	57	250	25.34	4 700	1.1	27	**2KJ4302 - ■ EN33 - ■ ■ R1**	
	62	230	23.39	4 600	1.1	27	**2KJ4302 - ■ EN33 - ■ ■ Q1**	
	70	205	20.71	4 600	1.2	27	**2KJ4302 - ■ EN33 - ■ ■ P1**	
	84	172	17.24	4 400	1.4	27	**2KJ4302 - ■ EN33 - ■ ■ N1**	
	89	161	16.22	4 400	1.4	27	**2KJ4302 - ■ EN33 - ■ ■ M1**	
	99	145	14.54	4 300	1.5	27	**2KJ4302 - ■ EN33 - ■ ■ L1**	
	116	123	12.38	4 200	1.7	27	**2KJ4302 - ■ EN33 - ■ ■ K1**	
	136	106	10.61	4 100	1.9	27	**2KJ4302 - ■ EN33 - ■ ■ J1**	
	158	91	9.13	3 900	2.1	27	**2KJ4302 - ■ EN33 - ■ ■ H1**	
	178	81	8.10	3 800	2.1	27	**2KJ4302 - ■ EN33 - ■ ■ G1**	
	214	67	6.74	3 600	2.3	27	**2KJ4302 - ■ EN33 - ■ ■ F1**	
	227	63	6.35	3 600	2.4	27	**2KJ4302 - ■ EN33 - ■ ■ E1**	
	253	57	5.69	3 500	2.5	27	**2KJ4302 - ■ EN33 - ■ ■ D1**	
	298	48	4.84	3 300	2.7	27	**2KJ4302 - ■ EN33 - ■ ■ C1**	
	347	41	4.15	3 200	2.9	27	**2KJ4302 - ■ EN33 - ■ ■ B1**	
	403	36	3.57	3 100	3.0	27	**2KJ4302 - ■ EN33 - ■ ■ A1**	
	FD.49-LEN90LJ4E							
	27	535	53.83	5 500	0.9	46	**2KJ4403 - ■ EN32 - ■ ■ B1**	
	31	460	46.36	5 500	1.0	46	**2KJ4403 - ■ EN32 - ■ ■ A1**	
	FD.49-LEN90LR4P							
	27	535	53.83	5 500	0.9	35	**2KJ4403 - ■ EN33 - ■ ■ B1**	
	31	460	46.36	5 500	1.0	35	**2KJ4403 - ■ EN33 - ■ ■ A1**	
	FZ.49-LEN90LJ4E							
	26	555	55.85	5 500	0.86	46	**2KJ4303 - ■ EN32 - ■ ■ W1**	
	30	470	47.5	5 500	1.0	46	**2KJ4303 - ■ EN32 - ■ ■ V1**	
	33	430	43.18	5 500	1.1	46	**2KJ4303 - ■ EN32 - ■ ■ U1**	
	37	380	38.53	5 500	1.3	46	**2KJ4303 - ■ EN32 - ■ ■ T1**	
	42	340	34.55	5 500	1.4	46	**2KJ4303 - ■ EN32 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**FZ.49-LEN90LJ4E**							
	46	310	31.14	5 500	1.5	46	**2KJ4303 - ■ EN32 - ■ ■ R1**	
	50	285	28.74	5 400	1.7	46	**2KJ4303 - ■ EN32 - ■ ■ Q1**	
	55	260	26.24	5 400	1.8	46	**2KJ4303 - ■ EN32 - ■ ■ P1**	
	66	215	21.77	5 200	2.2	46	**2KJ4303 - ■ EN32 - ■ ■ N1**	
	70	200	20.49	5 200	2.4	46	**2KJ4303 - ■ EN32 - ■ ■ M1**	
	74	192	19.35	5 100	2.5	46	**2KJ4303 - ■ EN32 - ■ ■ L1**	
	87	164	16.47	5 000	2.9	46	**2KJ4303 - ■ EN32 - ■ ■ K1**	
	102	140	14.11	4 800	3.4	46	**2KJ4303 - ■ EN32 - ■ ■ J1**	
	FZ.49-LEN90LR4P							
	26	555	55.85	5 500	0.86	35	**2KJ4303 - ■ EN33 - ■ ■ W1**	
	30	470	47.5	5 500	1.0	35	**2KJ4303 - ■ EN33 - ■ ■ V1**	
	33	430	43.18	5 500	1.1	35	**2KJ4303 - ■ EN33 - ■ ■ U1**	
	37	380	38.53	5 500	1.3	35	**2KJ4303 - ■ EN33 - ■ ■ T1**	
	42	340	34.55	5 500	1.4	35	**2KJ4303 - ■ EN33 - ■ ■ S1**	
	46	310	31.14	5 500	1.5	35	**2KJ4303 - ■ EN33 - ■ ■ R1**	
	50	285	28.74	5 400	1.7	35	**2KJ4303 - ■ EN33 - ■ ■ Q1**	
	55	260	26.24	5 400	1.8	35	**2KJ4303 - ■ EN33 - ■ ■ P1**	
	66	215	21.77	5 200	2.2	35	**2KJ4303 - ■ EN33 - ■ ■ N1**	
	70	200	20.49	5 200	2.4	35	**2KJ4303 - ■ EN33 - ■ ■ M1**	
	74	192	19.35	5 100	2.5	35	**2KJ4303 - ■ EN33 - ■ ■ L1**	
	87	164	16.47	5 000	2.9	35	**2KJ4303 - ■ EN33 - ■ ■ K1**	
	102	140	14.11	4 800	3.4	35	**2KJ4303 - ■ EN33 - ■ ■ J1**	
	FD.69-LEN90LJ4E							
	22	655	66.11	9 400	0.91	51	**2KJ4404 - ■ EN32 - ■ ■ C1**	
	25	560	56.67	9 300	1.1	51	**2KJ4404 - ■ EN32 - ■ ■ B1**	
	30	485	48.8	9 100	1.2	51	**2KJ4404 - ■ EN32 - ■ ■ A1**	
	FD.69-LEN90LR4P							
	22	655	66.11	9 400	0.91	40	**2KJ4404 - ■ EN33 - ■ ■ C1**	
	25	560	56.67	9 300	1.1	40	**2KJ4404 - ■ EN33 - ■ ■ B1**	
	30	485	48.8	9 100	1.2	40	**2KJ4404 - ■ EN33 - ■ ■ A1**	
	FZ.69-LEN90LJ4E							
	22	640	64.67	9 400	0.93	51	**2KJ4304 - ■ EN32 - ■ ■ X1**	
	24	585	58.79	9 300	1.0	51	**2KJ4304 - ■ EN32 - ■ ■ W1**	
	29	495	50	9 200	1.2	51	**2KJ4304 - ■ EN32 - ■ ■ V1**	
	32	450	45.45	9 100	1.3	51	**2KJ4304 - ■ EN32 - ■ ■ U1**	
	36	400	40.56	8 900	1.5	51	**2KJ4304 - ■ EN32 - ■ ■ T1**	
	40	360	36.36	8 800	1.7	51	**2KJ4304 - ■ EN32 - ■ ■ S1**	
	44	325	32.78	8 600	1.8	51	**2KJ4304 - ■ EN32 - ■ ■ R1**	
	48	300	30.26	8 500	2.0	51	**2KJ4304 - ■ EN32 - ■ ■ Q1**	
	52	275	27.62	8 300	2.2	51	**2KJ4304 - ■ EN32 - ■ ■ P1**	
	63	225	22.92	8 000	2.6	51	**2KJ4304 - ■ EN32 - ■ ■ N1**	
	67	215	21.57	7 900	2.8	51	**2KJ4304 - ■ EN32 - ■ ■ M1**	
	71	200	20.37	7 800	3.0	51	**2KJ4304 - ■ EN32 - ■ ■ L1**	
	FZ.69-LEN90LR4P							
	22	640	64.67	9 400	0.93	40	**2KJ4304 - ■ EN33 - ■ ■ X1**	
	24	585	58.79	9 300	1.0	40	**2KJ4304 - ■ EN33 - ■ ■ W1**	
	29	495	50	9 200	1.2	40	**2KJ4304 - ■ EN33 - ■ ■ V1**	
	32	450	45.45	9 100	1.3	40	**2KJ4304 - ■ EN33 - ■ ■ U1**	
	36	400	40.56	8 900	1.5	40	**2KJ4304 - ■ EN33 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**FZ.69-LEN90LR4P**							
	40	360	36.36	8 800	1.7	40	**2KJ4304 - ■ EN33 - ■ ■ S1**	
	44	325	32.78	8 600	1.8	40	**2KJ4304 - ■ EN33 - ■ ■ R1**	
	48	300	30.26	8 500	2.0	40	**2KJ4304 - ■ EN33 - ■ ■ Q1**	
	52	275	27.62	8 300	2.2	40	**2KJ4304 - ■ EN33 - ■ ■ P1**	
	63	225	22.92	8 000	2.6	40	**2KJ4304 - ■ EN33 - ■ ■ N1**	
	67	215	21.57	7 900	2.8	40	**2KJ4304 - ■ EN33 - ■ ■ M1**	
	71	200	20.37	7 800	3.0	40	**2KJ4304 - ■ EN33 - ■ ■ L1**	
	FD.79-LEN90LJ4E							
	12	1 180	119.1	13 200	0.84	60	**2KJ4405 - ■ EN32 - ■ ■ G1**	
	13	1 110	112.48	13 400	0.89	60	**2KJ4405 - ■ EN32 - ■ ■ F1**	
	15	950	95.71	13 700	1.1	60	**2KJ4405 - ■ EN32 - ■ ■ E1**	
	18	815	81.99	13 900	1.2	60	**2KJ4405 - ■ EN32 - ■ ■ D1**	
	20	715	72.09	14 100	1.4	60	**2KJ4405 - ■ EN32 - ■ ■ C1**	
	24	605	60.82	14 400	1.7	60	**2KJ4405 - ■ EN32 - ■ ■ B1**	
	27	525	53.01	14 500	1.9	60	**2KJ4405 - ■ EN32 - ■ ■ A1**	
	FD.79-LEN90LR4P							
	12	1 180	119.1	13 200	0.84	49	**2KJ4405 - ■ EN33 - ■ ■ G1**	
	13	1 110	112.48	13 400	0.89	49	**2KJ4405 - ■ EN33 - ■ ■ F1**	
	15	950	95.71	13 700	1.1	49	**2KJ4405 - ■ EN33 - ■ ■ E1**	
	18	815	81.99	13 900	1.2	49	**2KJ4405 - ■ EN33 - ■ ■ D1**	
	20	715	72.09	14 100	1.4	49	**2KJ4405 - ■ EN33 - ■ ■ C1**	
	24	605	60.82	14 400	1.7	49	**2KJ4405 - ■ EN33 - ■ ■ B1**	
	27	525	53.01	14 500	1.9	49	**2KJ4405 - ■ EN33 - ■ ■ A1**	
	FZ.79-LEN90LJ4E							
	27	530	53.55	14 500	1.9	59	**2KJ4305 - ■ EN32 - ■ ■ X1**	
	30	475	48.03	14 500	2.1	59	**2KJ4305 - ■ EN32 - ■ ■ W1**	
	33	430	43.18	14 500	2.3	59	**2KJ4305 - ■ EN32 - ■ ■ V1**	
	37	385	39.06	14 500	2.6	59	**2KJ4305 - ■ EN32 - ■ ■ U1**	
	FZ.79-LEN90LR4P							
	27	530	53.55	14 500	1.9	48	**2KJ4305 - ■ EN33 - ■ ■ X1**	
	30	475	48.03	14 500	2.1	48	**2KJ4305 - ■ EN33 - ■ ■ W1**	
	33	430	43.18	14 500	2.3	48	**2KJ4305 - ■ EN33 - ■ ■ V1**	
	37	385	39.06	14 500	2.6	48	**2KJ4305 - ■ EN33 - ■ ■ U1**	
	FD.89-LEN90LJ4E							
	6.5	2 210	222.33	17 400	0.84	92	**2KJ4406 - ■ EN32 - ■ ■ N1**	
	7.0	2 040	205.23	17 400	0.91	92	**2KJ4406 - ■ EN32 - ■ ■ M1**	
	7.7	1 870	188	17 400	0.99	92	**2KJ4406 - ■ EN32 - ■ ■ L1**	
	9.1	1 560	157.74	17 400	1.2	92	**2KJ4406 - ■ EN32 - ■ ■ K1**	
	9.7	1 470	148.46	17 400	1.3	92	**2KJ4406 - ■ EN32 - ■ ■ J1**	
	11	1 350	136.21	17 400	1.4	92	**2KJ4406 - ■ EN32 - ■ ■ H1**	
	12	1 180	118.98	17 400	1.6	92	**2KJ4406 - ■ EN32 - ■ ■ G1**	
	14	1 060	106.52	17 400	1.7	92	**2KJ4406 - ■ EN32 - ■ ■ F1**	
	15	925	93.14	17 400	2.0	92	**2KJ4406 - ■ EN32 - ■ ■ E1**	
	18	795	79.95	17 400	2.3	92	**2KJ4406 - ■ EN32 - ■ ■ D1**	
	FD.89-LEN90LR4P							
	6.5	2 210	222.33	17 400	0.84	81	**2KJ4406 - ■ EN33 - ■ ■ N1**	
	7.0	2 040	205.23	17 400	0.91	81	**2KJ4406 - ■ EN33 - ■ ■ M1**	
	7.7	1 870	188	17 400	0.99	81	**2KJ4406 - ■ EN33 - ■ ■ L1**	
	9.1	1 560	157.74	17 400	1.2	81	**2KJ4406 - ■ EN33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**FD.89-LEN90LR4P**							
	9.7	1 470	148.46	17 400	1.3	81	**2KJ4406 - ■ EN33 - ■ ■ J1**	
	11	1 350	136.21	17 400	1.4	81	**2KJ4406 - ■ EN33 - ■ ■ H1**	
	12	1 180	118.98	17 400	1.6	81	**2KJ4406 - ■ EN33 - ■ ■ G1**	
	14	1 060	106.52	17 400	1.7	81	**2KJ4406 - ■ EN33 - ■ ■ F1**	
	15	925	93.14	17 400	2.0	81	**2KJ4406 - ■ EN33 - ■ ■ E1**	
	18	795	79.95	17 400	2.3	81	**2KJ4406 - ■ EN33 - ■ ■ D1**	
	FD.109-LEN90LJ4E							
	3.9	3 680	370	25 000	0.84	132	**2KJ4407 - ■ EN32 - ■ ■ S1**	
	4.3	3 340	335.7	25 000	0.93	132	**2KJ4407 - ■ EN32 - ■ ■ R1**	
	4.6	3 080	309.87	25 000	1.0	132	**2KJ4407 - ■ EN32 - ■ ■ Q1**	
	5.1	2 800	281.68	25 000	1.1	132	**2KJ4407 - ■ EN32 - ■ ■ P1**	
	6.0	2 370	238.52	25 000	1.3	132	**2KJ4407 - ■ EN32 - ■ ■ N1**	
	6.4	2 230	224.49	25 000	1.4	132	**2KJ4407 - ■ EN32 - ■ ■ M1**	
	6.9	2 060	207.31	25 000	1.5	132	**2KJ4407 - ■ EN32 - ■ ■ L1**	
	7.8	1 830	184.46	25 000	1.7	132	**2KJ4407 - ■ EN32 - ■ ■ K1**	
	8.8	1 630	163.83	25 000	1.9	132	**2KJ4407 - ■ EN32 - ■ ■ J1**	
	9.8	1 450	146.65	25 000	2.1	132	**2KJ4407 - ■ EN32 - ■ ■ H1**	
	FD.109-LEN90LR4P							
	3.9	3 680	370	25 000	0.84	121	**2KJ4407 - ■ EN33 - ■ ■ S1**	
	4.3	3 340	335.7	25 000	0.93	121	**2KJ4407 - ■ EN33 - ■ ■ R1**	
	4.6	3 080	309.87	25 000	1.0	121	**2KJ4407 - ■ EN33 - ■ ■ Q1**	
	5.1	2 800	281.68	25 000	1.1	121	**2KJ4407 - ■ EN33 - ■ ■ P1**	
	6.0	2 370	238.52	25 000	1.3	121	**2KJ4407 - ■ EN33 - ■ ■ N1**	
	6.4	2 230	224.49	25 000	1.4	121	**2KJ4407 - ■ EN33 - ■ ■ M1**	
	6.9	2 060	207.31	25 000	1.5	121	**2KJ4407 - ■ EN33 - ■ ■ L1**	
	7.8	1 830	184.46	25 000	1.7	121	**2KJ4407 - ■ EN33 - ■ ■ K1**	
	8.8	1 630	163.83	25 000	1.9	121	**2KJ4407 - ■ EN33 - ■ ■ J1**	
	9.8	1 450	146.65	25 000	2.1	121	**2KJ4407 - ■ EN33 - ■ ■ H1**	
	FD.129-LEN90LJ4E							
	3.5	4 100	413	37 500	1.2	185	**2KJ4408 - ■ EN32 - ■ ■ T1**	
	3.8	3 790	381	37 500	1.3	185	**2KJ4408 - ■ EN32 - ■ ■ S1**	
	4.1	3 490	351	37 500	1.4	185	**2KJ4408 - ■ EN32 - ■ ■ R1**	
	4.8	2 970	299.31	37 500	1.6	185	**2KJ4408 - ■ EN32 - ■ ■ Q1**	
	5.1	2 800	281.7	37 500	1.7	185	**2KJ4408 - ■ EN32 - ■ ■ P1**	
	5.5	2 600	261.42	37 500	1.9	185	**2KJ4408 - ■ EN32 - ■ ■ N1**	
	6.2	2 290	231.12	37 500	2.1	185	**2KJ4408 - ■ EN32 - ■ ■ M1**	
	FD.129-LEN90LR4P							
	3.5	4 100	413	37 500	1.2	174	**2KJ4408 - ■ EN33 - ■ ■ T1**	
	3.8	3 790	381	37 500	1.3	174	**2KJ4408 - ■ EN33 - ■ ■ S1**	
	4.1	3 490	351	37 500	1.4	174	**2KJ4408 - ■ EN33 - ■ ■ R1**	
	4.8	2 970	299.31	37 500	1.6	174	**2KJ4408 - ■ EN33 - ■ ■ Q1**	
	5.1	2 800	281.7	37 500	1.7	174	**2KJ4408 - ■ EN33 - ■ ■ P1**	
	5.5	2 600	261.42	37 500	1.9	174	**2KJ4408 - ■ EN33 - ■ ■ N1**	
	6.2	2 290	231.12	37 500	2.1	174	**2KJ4408 - ■ EN33 - ■ ■ M1**	
	FD.129-Z49-LEN90LJ4E							
	2.5	5 440	585	36 600	0.89	204	**2KJ4435 - ■ EN32 - ■ ■ C1**	
	2.9	4 590	494	37 400	1.1	204	**2KJ4435 - ■ EN32 - ■ ■ B1**	
	3.3	4 000	430	37 500	1.2	204	**2KJ4435 - ■ EN32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**FD.129-Z49-LEN90LR4P**							
	2.5	5 440	585	36 600	0.89	193	**2KJ4435 - ■ EN33 - ■ ■ C1**	
	2.9	4 590	494	37 400	1.1	193	**2KJ4435 - ■ EN33 - ■ ■ B1**	
	3.3	4 000	430	37 500	1.2	193	**2KJ4435 - ■ EN33 - ■ ■ A1**	
	FD.149-Z49-LEN90LJ4E							
	1.5	9 000	968	65 000	0.89	291	**2KJ4437 - ■ EN32 - ■ ■ G1**	
	1.5	9 120	981	65 000	0.88	291	**2KJ4437 - ■ EN32 - ■ ■ H1**	
	1.6	8 500	914	65 000	0.94	291	**2KJ4437 - ■ EN32 - ■ ■ F1**	
	1.9	7 230	778	65 000	1.1	291	**2KJ4437 - ■ EN32 - ■ ■ E1**	
	2.2	6 190	666	65 000	1.3	291	**2KJ4437 - ■ EN32 - ■ ■ D1**	
	2.5	5 450	586	65 000	1.5	291	**2KJ4437 - ■ EN32 - ■ ■ C1**	
	2.9	4 590	494	65 000	1.7	291	**2KJ4437 - ■ EN32 - ■ ■ B1**	
	3.3	4 000	431	65 000	2.0	291	**2KJ4437 - ■ EN32 - ■ ■ A1**	
	FD.149-Z49-LEN90LR4P							
	1.5	9 000	968	65 000	0.89	280	**2KJ4437 - ■ EN33 - ■ ■ G1**	
	1.5	9 120	981	65 000	0.88	280	**2KJ4437 - ■ EN33 - ■ ■ H1**	
	1.6	8 500	914	65 000	0.94	280	**2KJ4437 - ■ EN33 - ■ ■ F1**	
	1.9	7 230	778	65 000	1.1	280	**2KJ4437 - ■ EN33 - ■ ■ E1**	
	2.2	6 190	666	65 000	1.3	280	**2KJ4437 - ■ EN33 - ■ ■ D1**	
	2.5	5 450	586	65 000	1.5	280	**2KJ4437 - ■ EN33 - ■ ■ C1**	
	2.9	4 590	494	65 000	1.7	280	**2KJ4437 - ■ EN33 - ■ ■ B1**	
	3.3	4 000	431	65 000	2.0	280	**2KJ4437 - ■ EN33 - ■ ■ A1**	
	FD.169-Z69-LEN90LJ4E							
	0.86	15 500	1 670	73 500	0.88	448	**2KJ4440 - ■ EN32 - ■ ■ L1**	
	1.0	13 300	1 431	73 500	1.0	448	**2KJ4440 - ■ EN32 - ■ ■ K1**	
	1.1	11 700	1 258	73 500	1.2	448	**2KJ4440 - ■ EN32 - ■ ■ J1**	
	1.4	9 870	1 061	73 500	1.4	448	**2KJ4440 - ■ EN32 - ■ ■ H1**	
	1.6	8 600	925	73 500	1.6	448	**2KJ4440 - ■ EN32 - ■ ■ G1**	
	1.7	8 080	869	73 500	1.7	448	**2KJ4440 - ■ EN32 - ■ ■ F1**	
	1.9	6 870	739	73 500	2.0	448	**2KJ4440 - ■ EN32 - ■ ■ E1**	
	FD.169-Z69-LEN90LR4P							
	0.86	15 500	1 670	73 500	0.88	437	**2KJ4440 - ■ EN33 - ■ ■ L1**	
	1.0	13 300	1 431	73 500	1.0	437	**2KJ4440 - ■ EN33 - ■ ■ K1**	
	1.1	11 700	1 258	73 500	1.2	437	**2KJ4440 - ■ EN33 - ■ ■ J1**	
	1.4	9 870	1 061	73 500	1.4	437	**2KJ4440 - ■ EN33 - ■ ■ H1**	
	1.6	8 600	925	73 500	1.6	437	**2KJ4440 - ■ EN33 - ■ ■ G1**	
	1.7	8 080	869	73 500	1.7	437	**2KJ4440 - ■ EN33 - ■ ■ F1**	
	1.9	6 870	739	73 500	2.0	437	**2KJ4440 - ■ EN33 - ■ ■ E1**	
	FD.189-Z69-LEN90LJ4E							
	0.57	23 500	2 534	110 000	0.81	660	**2KJ4442 - ■ EN32 - ■ ■ R1**	
	0.6	22 100	2 385	110 800	0.86	660	**2KJ4442 - ■ EN32 - ■ ■ Q1**	
	0.64	20 900	2 252	110 900	0.91	660	**2KJ4442 - ■ EN32 - ■ ■ P1**	
	0.75	17 800	1 917	110 900	1.1	660	**2KJ4442 - ■ EN32 - ■ ■ N1**	
	0.88	15 200	1 642	110 900	1.2	660	**2KJ4442 - ■ EN32 - ■ ■ M1**	
	1.0	13 400	1 444	110 900	1.4	660	**2KJ4442 - ■ EN32 - ■ ■ L1**	
	1.2	11 300	1 218	110 900	1.7	660	**2KJ4442 - ■ EN32 - ■ ■ K1**	
	1.4	9 270	997	110 900	2.0	660	**2KJ4442 - ■ EN32 - ■ ■ H1**	
	1.4	9 870	1 061	110 900	1.9	660	**2KJ4442 - ■ EN32 - ■ ■ J1**	
	FD.189-Z69-LEN90LR4P							
	0.57	23 500	2 534	110 000	0.81	649	**2KJ4442 - ■ EN33 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**FD.189-Z69-LEN90LR4P**							
	0.6	22 100	2 385	110 800	0.86	649	**2KJ4442 - ■ EN33 - ■ ■ Q1**	
	0.64	20 900	2 252	110 900	0.91	649	**2KJ4442 - ■ EN33 - ■ ■ P1**	
	0.75	17 800	1 917	110 900	1.1	649	**2KJ4442 - ■ EN33 - ■ ■ N1**	
	0.88	15 200	1 642	110 900	1.2	649	**2KJ4442 - ■ EN33 - ■ ■ M1**	
	1.0	13 400	1 444	110 900	1.4	649	**2KJ4442 - ■ EN33 - ■ ■ L1**	
	1.2	11 300	1 218	110 900	1.7	649	**2KJ4442 - ■ EN33 - ■ ■ K1**	
	1.4	9 270	997	110 900	2.0	649	**2KJ4442 - ■ EN33 - ■ ■ H1**	
	1.4	9 870	1 061	110 900	1.9	649	**2KJ4442 - ■ EN33 - ■ ■ J1**	
2.2	**FZ.29-LEN100LH4E**							
	125	169	11.51	2 600	0.85	38	**2KJ4301 - ■ FM32 - ■ ■ L1**	
	144	146	9.99	2 600	0.93	38	**2KJ4301 - ■ FM32 - ■ ■ K1**	
	148	142	9.69	2 400	1.0	38	**2KJ4301 - ■ FM32 - ■ ■ J1**	
	166	126	8.63	2 400	1.0	38	**2KJ4301 - ■ FM32 - ■ ■ H1**	
	180	117	7.97	2 400	1.0	38	**2KJ4301 - ■ FM32 - ■ ■ G1**	
	206	102	6.98	2 400	1.2	38	**2KJ4301 - ■ FM32 - ■ ■ F1**	
	234	90	6.12	2 300	1.3	38	**2KJ4301 - ■ FM32 - ■ ■ E1**	
	259	81	5.55	2 300	1.3	38	**2KJ4301 - ■ FM32 - ■ ■ D1**	
	275	76	5.22	2 300	1.4	38	**2KJ4301 - ■ FM32 - ■ ■ C1**	
	312	67	4.60	2 300	1.4	38	**2KJ4301 - ■ FM32 - ■ ■ B1**	
	359	59	4.00	2 200	1.6	38	**2KJ4301 - ■ FM32 - ■ ■ A1**	
	FZ.29-LEN100LU4P							
	126	167	11.51	2 600	0.85	35	**2KJ4301 - ■ FL33 - ■ ■ L1**	
	145	145	9.99	2 600	0.94	35	**2KJ4301 - ■ FL33 - ■ ■ K1**	
	149	141	9.69	2 400	1.0	35	**2KJ4301 - ■ FL33 - ■ ■ J1**	
	167	125	8.63	2 400	1.0	35	**2KJ4301 - ■ FL33 - ■ ■ H1**	
	181	116	7.97	2 400	1.0	35	**2KJ4301 - ■ FL33 - ■ ■ G1**	
	207	101	6.98	2 400	1.2	35	**2KJ4301 - ■ FL33 - ■ ■ F1**	
	236	89	6.12	2 300	1.3	35	**2KJ4301 - ■ FL33 - ■ ■ E1**	
	260	81	5.55	2 300	1.3	35	**2KJ4301 - ■ FL33 - ■ ■ D1**	
	277	76	5.22	2 300	1.4	35	**2KJ4301 - ■ FL33 - ■ ■ C1**	
	314	67	4.60	2 200	1.5	35	**2KJ4301 - ■ FL33 - ■ ■ B1**	
	361	58	4.00	2 200	1.6	35	**2KJ4301 - ■ FL33 - ■ ■ A1**	
	FZ.39-LEN100LH4E							
	69	300	20.71	3 900	0.82	45	**2KJ4302 - ■ FM32 - ■ ■ P1**	
	83	250	17.24	3 900	0.93	45	**2KJ4302 - ■ FM32 - ■ ■ N1**	
	88	235	16.22	3 900	0.97	45	**2KJ4302 - ■ FM32 - ■ ■ M1**	
	99	210	14.54	3 900	1.0	45	**2KJ4302 - ■ FM32 - ■ ■ L1**	
	116	181	12.38	3 800	1.2	45	**2KJ4302 - ■ FM32 - ■ ■ K1**	
	135	155	10.61	3 700	1.3	45	**2KJ4302 - ■ FM32 - ■ ■ J1**	
	157	134	9.13	3 600	1.4	45	**2KJ4302 - ■ FM32 - ■ ■ H1**	
	177	119	8.10	3 500	1.4	45	**2KJ4302 - ■ FM32 - ■ ■ G1**	
	213	99	6.74	3 400	1.5	45	**2KJ4302 - ■ FM32 - ■ ■ F1**	
	226	93	6.35	3 300	1.6	45	**2KJ4302 - ■ FM32 - ■ ■ E1**	
	252	83	5.69	3 300	1.7	45	**2KJ4302 - ■ FM32 - ■ ■ D1**	
	296	71	4.84	3 100	1.8	45	**2KJ4302 - ■ FM32 - ■ ■ C1**	
	346	61	4.15	3 000	1.9	45	**2KJ4302 - ■ FM32 - ■ ■ B1**	
	402	52	3.57	2 900	2.1	45	**2KJ4302 - ■ FM32 - ■ ■ A1**	
	FZ.39-LEN100LU4P							
	70	300	20.71	3 900	0.83	42	**2KJ4302 - ■ FL33 - ■ ■ P1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**FZ.39-LEN100LU4P**							
	84	250	17.24	3 900	0.94	42	**2KJ4302 - ■ FL33 - ■ ■ N1**	
	89	235	16.22	3 900	0.98	42	**2KJ4302 - ■ FL33 - ■ ■ M1**	
	99	210	14.54	3 800	1.0	42	**2KJ4302 - ■ FL33 - ■ ■ L1**	
	117	180	12.38	3 800	1.2	42	**2KJ4302 - ■ FL33 - ■ ■ K1**	
	136	154	10.61	3 700	1.3	42	**2KJ4302 - ■ FL33 - ■ ■ J1**	
	158	133	9.13	3 600	1.4	42	**2KJ4302 - ■ FL33 - ■ ■ H1**	
	178	118	8.10	3 500	1.4	42	**2KJ4302 - ■ FL33 - ■ ■ G1**	
	214	98	6.74	3 400	1.6	42	**2KJ4302 - ■ FL33 - ■ ■ F1**	
	228	92	6.35	3 300	1.6	42	**2KJ4302 - ■ FL33 - ■ ■ E1**	
	254	83	5.69	3 200	1.7	42	**2KJ4302 - ■ FL33 - ■ ■ D1**	
	299	70	4.84	3 100	1.8	42	**2KJ4302 - ■ FL33 - ■ ■ C1**	
	348	60	4.15	3 000	2.0	42	**2KJ4302 - ■ FL33 - ■ ■ B1**	
	405	52	3.57	2 900	2.1	42	**2KJ4302 - ■ FL33 - ■ ■ A1**	
	FZ.49-LEN100LH4E							
	37	560	38.53	4 400	0.85	56	**2KJ4303 - ■ FM32 - ■ ■ T1**	
	42	505	34.55	4 500	0.95	56	**2KJ4303 - ■ FM32 - ■ ■ S1**	
	46	455	31.14	4 500	1.1	56	**2KJ4303 - ■ FM32 - ■ ■ R1**	
	50	420	28.74	4 500	1.1	56	**2KJ4303 - ■ FM32 - ■ ■ Q1**	
	55	380	26.24	4 600	1.2	56	**2KJ4303 - ■ FM32 - ■ ■ P1**	
	66	315	21.77	4 600	1.5	56	**2KJ4303 - ■ FM32 - ■ ■ N1**	
	70	300	20.49	4 500	1.6	56	**2KJ4303 - ■ FM32 - ■ ■ M1**	
	74	280	19.35	4 600	1.7	56	**2KJ4303 - ■ FM32 - ■ ■ L1**	
	87	240	16.47	4 500	2.0	56	**2KJ4303 - ■ FM32 - ■ ■ K1**	
	102	205	14.11	4 400	2.3	56	**2KJ4303 - ■ FM32 - ■ ■ J1**	
	116	182	12.4	4 300	2.6	56	**2KJ4303 - ■ FM32 - ■ ■ H1**	
	137	153	10.46	4 200	3.1	56	**2KJ4303 - ■ FM32 - ■ ■ G1**	
	157	134	9.12	4 100	3.6	56	**2KJ4303 - ■ FM32 - ■ ■ F1**	
	171	123	8.40	3 900	3.7	56	**2KJ4303 - ■ FM32 - ■ ■ E1**	
	199	105	7.20	3 800	4.3	56	**2KJ4303 - ■ FM32 - ■ ■ D1**	
	227	93	6.33	3 700	4.6	56	**2KJ4303 - ■ FM32 - ■ ■ C1**	
	FZ.49-LEN100LU4P							
	38	560	38.53	4 400	0.86	53	**2KJ4303 - ■ FL33 - ■ ■ T1**	
	42	500	34.55	4 500	0.96	53	**2KJ4303 - ■ FL33 - ■ ■ S1**	
	46	450	31.14	4 500	1.1	53	**2KJ4303 - ■ FL33 - ■ ■ R1**	
	50	415	28.74	4 600	1.1	53	**2KJ4303 - ■ FL33 - ■ ■ Q1**	
	55	380	26.24	4 600	1.3	53	**2KJ4303 - ■ FL33 - ■ ■ P1**	
	66	315	21.77	4 600	1.5	53	**2KJ4303 - ■ FL33 - ■ ■ N1**	
	71	295	20.49	4 600	1.6	53	**2KJ4303 - ■ FL33 - ■ ■ M1**	
	75	280	19.35	4 500	1.7	53	**2KJ4303 - ■ FL33 - ■ ■ L1**	
	88	235	16.47	4 500	2.0	53	**2KJ4303 - ■ FL33 - ■ ■ K1**	
	102	205	14.11	4 400	2.3	53	**2KJ4303 - ■ FL33 - ■ ■ J1**	
	117	180	12.4	4 300	2.7	53	**2KJ4303 - ■ FL33 - ■ ■ H1**	
	138	152	10.46	4 200	3.2	53	**2KJ4303 - ■ FL33 - ■ ■ G1**	
	158	133	9.12	4 100	3.6	53	**2KJ4303 - ■ FL33 - ■ ■ F1**	
	172	122	8.40	3 900	3.7	53	**2KJ4303 - ■ FL33 - ■ ■ E1**	
	201	105	7.20	3 800	4.3	53	**2KJ4303 - ■ FL33 - ■ ■ D1**	
	FD.69-LEN100LH4E							
	29	710	48.8	7 800	0.84	61	**2KJ4404 - ■ FM32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**FD.69-LEN100LU4P**							
	30	710	48.8	7 700	0.85	58	**2KJ4404 - ■ FL33 - ■ ■ A1**	
	FZ.69-LEN100LH4E							
	35	590	40.56	7 800	1.0	60	**2KJ4304 - ■ FM32 - ■ ■ T1**	
	39	530	36.36	7 700	1.1	60	**2KJ4304 - ■ FM32 - ■ ■ S1**	
	44	480	32.78	7 700	1.3	60	**2KJ4304 - ■ FM32 - ■ ■ R1**	
	47	440	30.26	7 600	1.4	60	**2KJ4304 - ■ FM32 - ■ ■ Q1**	
	52	400	27.62	7 600	1.5	60	**2KJ4304 - ■ FM32 - ■ ■ P1**	
	63	335	22.92	7 400	1.8	60	**2KJ4304 - ■ FM32 - ■ ■ N1**	
	67	315	21.57	7 300	1.9	60	**2KJ4304 - ■ FM32 - ■ ■ M1**	
	70	295	20.37	7 200	2.0	60	**2KJ4304 - ■ FM32 - ■ ■ L1**	
	83	250	17.33	7 000	2.4	60	**2KJ4304 - ■ FM32 - ■ ■ K1**	
	97	215	14.85	6 800	2.8	60	**2KJ4304 - ■ FM32 - ■ ■ J1**	
	110	191	13.06	6 600	3.1	60	**2KJ4304 - ■ FM32 - ■ ■ H1**	
	130	161	11.01	6 400	3.7	60	**2KJ4304 - ■ FM32 - ■ ■ G1**	
	161	130	8.90	6 000	3.6	60	**2KJ4304 - ■ FM32 - ■ ■ E1**	
	188	112	7.62	5 800	4.2	60	**2KJ4304 - ■ FM32 - ■ ■ D1**	
	214	98	6.70	5 600	4.5	60	**2KJ4304 - ■ FM32 - ■ ■ C1**	
	FZ.69-LEN100LU4P							
	36	590	40.56	7 700	1.0	57	**2KJ4304 - ■ FL33 - ■ ■ T1**	
	40	525	36.36	7 700	1.1	57	**2KJ4304 - ■ FL33 - ■ ■ S1**	
	44	475	32.78	7 700	1.3	57	**2KJ4304 - ■ FL33 - ■ ■ R1**	
	48	440	30.26	7 600	1.4	57	**2KJ4304 - ■ FL33 - ■ ■ Q1**	
	52	400	27.62	7 500	1.5	57	**2KJ4304 - ■ FL33 - ■ ■ P1**	
	63	330	22.92	7 400	1.8	57	**2KJ4304 - ■ FL33 - ■ ■ N1**	
	67	310	21.57	7 300	1.9	57	**2KJ4304 - ■ FL33 - ■ ■ M1**	
	71	295	20.37	7 200	2.0	57	**2KJ4304 - ■ FL33 - ■ ■ L1**	
	83	250	17.33	7 000	2.4	57	**2KJ4304 - ■ FL33 - ■ ■ K1**	
	97	215	14.85	6 800	2.8	57	**2KJ4304 - ■ FL33 - ■ ■ J1**	
	111	190	13.06	6 600	3.2	57	**2KJ4304 - ■ FL33 - ■ ■ H1**	
	131	160	11.01	6 400	3.7	57	**2KJ4304 - ■ FL33 - ■ ■ G1**	
	162	129	8.90	6 000	3.7	57	**2KJ4304 - ■ FL33 - ■ ■ E1**	
	190	111	7.62	5 800	4.2	57	**2KJ4304 - ■ FL33 - ■ ■ D1**	
	216	97	6.70	5 600	4.5	57	**2KJ4304 - ■ FL33 - ■ ■ C1**	
	FD.79-LEN100LH4E							
	18	1 200	81.99	13 200	0.83	68	**2KJ4405 - ■ FM32 - ■ ■ D1**	
	20	1 050	72.09	13 500	0.95	68	**2KJ4405 - ■ FM32 - ■ ■ C1**	
	24	890	60.82	13 800	1.1	68	**2KJ4405 - ■ FM32 - ■ ■ B1**	
	27	775	53.01	14 000	1.3	68	**2KJ4405 - ■ FM32 - ■ ■ A1**	
	FD.79-LEN100LU4P							
	18	1 190	81.99	13 200	0.84	65	**2KJ4405 - ■ FL33 - ■ ■ D1**	
	20	1 040	72.09	13 500	0.95	65	**2KJ4405 - ■ FL33 - ■ ■ C1**	
	24	880	60.82	13 800	1.1	65	**2KJ4405 - ■ FL33 - ■ ■ B1**	
	27	770	53.01	14 000	1.3	65	**2KJ4405 - ■ FL33 - ■ ■ A1**	
	FZ.79-LEN100LH4E							
	30	700	48.03	14 200	1.4	67	**2KJ4305 - ■ FM32 - ■ ■ W1**	
	33	630	43.18	14 300	1.6	67	**2KJ4305 - ■ FM32 - ■ ■ V1**	
	37	570	39.06	14 400	1.7	67	**2KJ4305 - ■ FM32 - ■ ■ U1**	
	40	525	36.05	14 500	1.9	67	**2KJ4305 - ■ FM32 - ■ ■ T1**	
	43	480	33.02	14 500	2.1	67	**2KJ4305 - ■ FM32 - ■ ■ S1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**FZ.79-LEN100LH4E**							
	52	405	27.71	14 500	2.5	67	**2KJ4305 - ■ FM32 - ■ ■ R1**	
	55	380	26.08	14 500	2.6	67	**2KJ4305 - ■ FM32 - ■ ■ Q1**	
	60	350	23.93	14 500	2.9	67	**2KJ4305 - ■ FM32 - ■ ■ P1**	
	FZ.79-LEN100LU4P							
	30	695	48.03	14 200	1.4	64	**2KJ4305 - ■ FL33 - ■ ■ W1**	
	33	625	43.18	14 300	1.6	64	**2KJ4305 - ■ FL33 - ■ ■ V1**	
	37	565	39.06	14 400	1.8	64	**2KJ4305 - ■ FL33 - ■ ■ U1**	
	40	520	36.05	14 500	1.9	64	**2KJ4305 - ■ FL33 - ■ ■ T1**	
	44	480	33.02	14 500	2.1	64	**2KJ4305 - ■ FL33 - ■ ■ S1**	
	52	400	27.71	14 500	2.5	64	**2KJ4305 - ■ FL33 - ■ ■ R1**	
	55	375	26.08	14 500	2.6	64	**2KJ4305 - ■ FL33 - ■ ■ Q1**	
	60	345	23.93	14 500	2.9	64	**2KJ4305 - ■ FL33 - ■ ■ P1**	
	FD.89-LEN100LH4E							
	9.1	2 300	157.74	17 400	0.8	99	**2KJ4406 - ■ FM32 - ■ ■ K1**	
	9.7	2 170	148.46	17 400	0.85	99	**2KJ4406 - ■ FM32 - ■ ■ J1**	
	11	1 990	136.21	17 400	0.93	99	**2KJ4406 - ■ FM32 - ■ ■ H1**	
	12	1 740	118.98	17 400	1.1	99	**2KJ4406 - ■ FM32 - ■ ■ G1**	
	13	1 560	106.52	17 400	1.2	99	**2KJ4406 - ■ FM32 - ■ ■ F1**	
	15	1 360	93.14	17 400	1.4	99	**2KJ4406 - ■ FM32 - ■ ■ E1**	
	18	1 170	79.95	17 400	1.6	99	**2KJ4406 - ■ FM32 - ■ ■ D1**	
	20	1 030	70.67	17 400	1.8	99	**2KJ4406 - ■ FM32 - ■ ■ C1**	
	24	880	60.09	17 400	2.1	99	**2KJ4406 - ■ FM32 - ■ ■ B1**	
	28	750	51.51	17 400	2.5	99	**2KJ4406 - ■ FM32 - ■ ■ A1**	
	FD.89-LEN100LU4P							
	9.2	2 290	157.74	17 400	0.81	96	**2KJ4406 - ■ FL33 - ■ ■ K1**	
	9.7	2 150	148.46	17 400	0.86	96	**2KJ4406 - ■ FL33 - ■ ■ J1**	
	11	1 980	136.21	17 400	0.93	96	**2KJ4406 - ■ FL33 - ■ ■ H1**	
	12	1 730	118.98	17 400	1.1	96	**2KJ4406 - ■ FL33 - ■ ■ G1**	
	14	1 540	106.52	17 400	1.2	96	**2KJ4406 - ■ FL33 - ■ ■ F1**	
	16	1 350	93.14	17 400	1.4	96	**2KJ4406 - ■ FL33 - ■ ■ E1**	
	18	1 160	79.95	17 400	1.6	96	**2KJ4406 - ■ FL33 - ■ ■ D1**	
	20	1 020	70.67	17 400	1.8	96	**2KJ4406 - ■ FL33 - ■ ■ C1**	
	24	870	60.09	17 400	2.1	96	**2KJ4406 - ■ FL33 - ■ ■ B1**	
	28	745	51.51	17 400	2.5	96	**2KJ4406 - ■ FL33 - ■ ■ A1**	
	FZ.89-LEN100LH4E							
	23	900	61.72	17 400	2.0	98	**2KJ4306 - ■ FM32 - ■ ■ B2**	
	26	815	55.72	17 400	2.3	98	**2KJ4306 - ■ FM32 - ■ ■ A2**	
	28	740	50.54	17 400	2.5	98	**2KJ4306 - ■ FM32 - ■ ■ X1**	
	FZ.89-LEN100LU4P							
	23	895	61.72	17 400	2.1	95	**2KJ4306 - ■ FL33 - ■ ■ B2**	
	26	810	55.72	17 400	2.3	95	**2KJ4306 - ■ FL33 - ■ ■ A2**	
	29	735	50.54	17 400	2.5	95	**2KJ4306 - ■ FL33 - ■ ■ X1**	
	FD.109-LEN100LH4E							
	6.0	3 490	238.52	25 000	0.89	140	**2KJ4407 - ■ FM32 - ■ ■ N1**	
	6.4	3 280	224.49	25 000	0.94	140	**2KJ4407 - ■ FM32 - ■ ■ M1**	
	6.9	3 030	207.31	25 000	1.0	140	**2KJ4407 - ■ FM32 - ■ ■ L1**	
	7.8	2 700	184.46	25 000	1.1	140	**2KJ4407 - ■ FM32 - ■ ■ K1**	
	8.8	2 390	163.83	25 000	1.3	140	**2KJ4407 - ■ FM32 - ■ ■ J1**	
	9.8	2 140	146.65	25 000	1.4	140	**2KJ4407 - ■ FM32 - ■ ■ H1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**FD.109-LEN100LH4E**							
	11	1 830	125.37	25 000	1.7	140	**2KJ4407 - ■ FM32 - ■ ■ G1**	
	13	1 630	111.95	25 000	1.9	140	**2KJ4407 - ■ FM32 - ■ ■ F1**	
	15	1 440	98.94	25 000	2.1	140	**2KJ4407 - ■ FM32 - ■ ■ E1**	
	FD.109-LEN100LU4P							
	6.1	3 460	238.52	25 000	0.89	137	**2KJ4407 - ■ FL33 - ■ ■ N1**	
	6.4	3 260	224.49	25 000	0.95	137	**2KJ4407 - ■ FL33 - ■ ■ M1**	
	7.0	3 010	207.31	25 000	1.0	137	**2KJ4407 - ■ FL33 - ■ ■ L1**	
	7.8	2 680	184.46	25 000	1.2	137	**2KJ4407 - ■ FL33 - ■ ■ K1**	
	8.8	2 380	163.83	25 000	1.3	137	**2KJ4407 - ■ FL33 - ■ ■ J1**	
	9.9	2 130	146.65	25 000	1.5	137	**2KJ4407 - ■ FL33 - ■ ■ H1**	
	12	1 820	125.37	25 000	1.7	137	**2KJ4407 - ■ FL33 - ■ ■ G1**	
	13	1 620	111.95	25 000	1.9	137	**2KJ4407 - ■ FL33 - ■ ■ F1**	
	15	1 430	98.94	25 000	2.2	137	**2KJ4407 - ■ FL33 - ■ ■ E1**	
	FD.129-LEN100LH4E							
	3.5	6 040	413	36 000	0.8	194	**2KJ4408 - ■ FM32 - ■ ■ T1**	
	3.8	5 570	381	36 400	0.87	194	**2KJ4408 - ■ FM32 - ■ ■ S1**	
	4.1	5 130	351	36 900	0.94	194	**2KJ4408 - ■ FM32 - ■ ■ R1**	
	4.8	4 380	299.31	37 500	1.1	194	**2KJ4408 - ■ FM32 - ■ ■ Q1**	
	5.1	4 120	281.7	37 500	1.2	194	**2KJ4408 - ■ FM32 - ■ ■ P1**	
	5.5	3 820	261.42	37 500	1.3	194	**2KJ4408 - ■ FM32 - ■ ■ N1**	
	6.2	3 380	231.12	37 500	1.4	194	**2KJ4408 - ■ FM32 - ■ ■ M1**	
	7.0	3 020	206.32	37 500	1.6	194	**2KJ4408 - ■ FM32 - ■ ■ L1**	
	7.7	2 710	185.66	37 500	1.8	194	**2KJ4408 - ■ FM32 - ■ ■ K1**	
	8.9	2 350	161.14	37 500	2.1	194	**2KJ4408 - ■ FM32 - ■ ■ J1**	
	FD.129-LEN100LU4P							
	3.5	6 000	413	36 000	0.81	191	**2KJ4408 - ■ FL33 - ■ ■ T1**	
	3.8	5 540	381	36 500	0.88	191	**2KJ4408 - ■ FL33 - ■ ■ S1**	
	4.1	5 100	351	36 900	0.95	191	**2KJ4408 - ■ FL33 - ■ ■ R1**	
	4.8	4 350	299.31	37 500	1.1	191	**2KJ4408 - ■ FL33 - ■ ■ Q1**	
	5.1	4 090	281.7	37 500	1.2	191	**2KJ4408 - ■ FL33 - ■ ■ P1**	
	5.5	3 800	261.42	37 500	1.3	191	**2KJ4408 - ■ FL33 - ■ ■ N1**	
	6.3	3 360	231.12	37 500	1.4	191	**2KJ4408 - ■ FL33 - ■ ■ M1**	
	7.0	3 000	206.32	37 500	1.6	191	**2KJ4408 - ■ FL33 - ■ ■ L1**	
	7.8	2 690	185.66	37 500	1.8	191	**2KJ4408 - ■ FL33 - ■ ■ K1**	
	9.0	2 340	161.14	37 500	2.1	191	**2KJ4408 - ■ FL33 - ■ ■ J1**	
	FD.149-LEN100LH4E							
	3.8	5 520	377	65 000	1.4	281	**2KJ4410 - ■ FM32 - ■ ■ W1**	
	4.4	4 730	323.04	65 000	1.7	281	**2KJ4410 - ■ FM32 - ■ ■ V1**	
	4.7	4 450	304.03	65 000	1.8	281	**2KJ4410 - ■ FM32 - ■ ■ U1**	
	5.0	4 170	285	65 000	1.9	281	**2KJ4410 - ■ FM32 - ■ ■ T1**	
	FD.149-LEN100LU4P							
	3.8	5 480	377	65 000	1.5	278	**2KJ4410 - ■ FL33 - ■ ■ W1**	
	4.5	4 690	323.04	65 000	1.7	278	**2KJ4410 - ■ FL33 - ■ ■ V1**	
	4.8	4 420	304.03	65 000	1.8	278	**2KJ4410 - ■ FL33 - ■ ■ U1**	
	5.1	4 140	285	65 000	1.9	278	**2KJ4410 - ■ FL33 - ■ ■ T1**	
	FD.129-Z49-LEN100LH4E							
	3.3	5 910	430	36 100	0.82	213	**2KJ4435 - ■ FM32 - ■ ■ A1**	
	FD.129-Z49-LEN100LU4P							
	3.4	5 870	430	36 200	0.83	210	**2KJ4435 - ■ FL33 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**FD.149-Z49-LEN100LH4E**							
	2.2	9 160	666	65 000	0.87	300	**2KJ4437 - ■ FM32 - ■ ■ D1**	
	2.4	8 060	586	65 000	0.99	300	**2KJ4437 - ■ FM32 - ■ ■ C1**	
	2.9	6 800	494	65 000	1.2	300	**2KJ4437 - ■ FM32 - ■ ■ B1**	
	3.3	5 930	431	65 000	1.3	300	**2KJ4437 - ■ FM32 - ■ ■ A1**	
	FD.149-Z49-LEN100LU4P							
	2.2	9 100	666	65 000	0.88	297	**2KJ4437 - ■ FL33 - ■ ■ D1**	
	2.5	8 010	586	65 000	1.0	297	**2KJ4437 - ■ FL33 - ■ ■ C1**	
	2.9	6 750	494	65 000	1.2	297	**2KJ4437 - ■ FL33 - ■ ■ B1**	
	3.4	5 890	431	65 000	1.4	297	**2KJ4437 - ■ FL33 - ■ ■ A1**	
	FD.169-Z69-LEN100LH4E							
	1.4	14 600	1 061	73 500	0.93	458	**2KJ4440 - ■ FM32 - ■ ■ H1**	
	1.6	12 700	925	73 500	1.1	458	**2KJ4440 - ■ FM32 - ■ ■ G1**	
	1.7	11 900	869	73 500	1.1	458	**2KJ4440 - ■ FM32 - ■ ■ F1**	
	1.9	10 100	739	73 500	1.3	458	**2KJ4440 - ■ FM32 - ■ ■ E1**	
	2.3	8 710	633	73 500	1.6	458	**2KJ4440 - ■ FM32 - ■ ■ D1**	
	2.6	7 660	557	73 500	1.8	458	**2KJ4440 - ■ FM32 - ■ ■ C1**	
	FD.169-Z69-LEN100LU4P							
	1.4	14 500	1 061	73 500	0.94	455	**2KJ4440 - ■ FL33 - ■ ■ H1**	
	1.6	12 600	925	73 500	1.1	455	**2KJ4440 - ■ FL33 - ■ ■ G1**	
	1.7	11 800	869	73 500	1.1	455	**2KJ4440 - ■ FL33 - ■ ■ F1**	
	2.0	10 100	739	73 500	1.3	455	**2KJ4440 - ■ FL33 - ■ ■ E1**	
	2.3	8 650	633	73 500	1.6	455	**2KJ4440 - ■ FL33 - ■ ■ D1**	
	2.6	7 610	557	73 500	1.8	455	**2KJ4440 - ■ FL33 - ■ ■ C1**	
	FD.189-Z69-LEN100LH4E							
	0.87	22 600	1 642	110 500	0.84	670	**2KJ4442 - ■ FM32 - ■ ■ M1**	
	0.99	19 800	1 444	110 900	0.96	670	**2KJ4442 - ■ FM32 - ■ ■ L1**	
	1.2	16 700	1 218	110 900	1.1	670	**2KJ4442 - ■ FM32 - ■ ■ K1**	
	1.4	13 700	997	110 900	1.4	670	**2KJ4442 - ■ FM32 - ■ ■ H1**	
	1.4	14 600	1 061	110 900	1.3	670	**2KJ4442 - ■ FM32 - ■ ■ J1**	
	1.7	11 600	848	110 900	1.6	670	**2KJ4442 - ■ FM32 - ■ ■ G1**	
	2.0	10 000	727	110 900	1.9	670	**2KJ4442 - ■ FM32 - ■ ■ F1**	
	FD.189-Z69-LEN100LU4P							
	0.88	22 400	1 642	110 600	0.85	667	**2KJ4442 - ■ FL33 - ■ ■ M1**	
	1.0	19 700	1 444	110 900	0.96	667	**2KJ4442 - ■ FL33 - ■ ■ L1**	
	1.2	16 600	1 218	110 900	1.1	667	**2KJ4442 - ■ FL33 - ■ ■ K1**	
	1.4	13 600	997	110 900	1.4	667	**2KJ4442 - ■ FL33 - ■ ■ H1**	
	1.4	14 500	1 061	110 900	1.3	667	**2KJ4442 - ■ FL33 - ■ ■ J1**	
	1.7	11 500	848	110 900	1.6	667	**2KJ4442 - ■ FL33 - ■ ■ G1**	
	2.0	9 930	727	110 900	1.9	667	**2KJ4442 - ■ FL33 - ■ ■ F1**	
3	**FZ.29-LEN100LN4E**							
	206	139	6.98	2 000	0.88	42	**2KJ4301 - ■ FP32 - ■ ■ F1**	
	234	122	6.12	2 000	0.93	42	**2KJ4301 - ■ FP32 - ■ ■ E1**	
	259	111	5.55	2 000	0.97	42	**2KJ4301 - ■ FP32 - ■ ■ D1**	
	275	104	5.22	2 000	1.0	42	**2KJ4301 - ■ FP32 - ■ ■ C1**	
	312	92	4.60	2 000	1.1	42	**2KJ4301 - ■ FP32 - ■ ■ B1**	
	359	80	4.00	2 000	1.1	42	**2KJ4301 - ■ FP32 - ■ ■ A1**	
	FZ.29-LEN100LZ4P							
	208	138	6.98	2 000	0.89	32	**2KJ4301 - ■ FM33 - ■ ■ F1**	
	237	121	6.12	2 000	0.94	32	**2KJ4301 - ■ FM33 - ■ ■ E1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FZ.29-LEN100LZ4P**							
	261	110	5.55	2 000	0.98	32	**2KJ4301 - ■ FM33 - ■ ■ D1**	
	278	103	5.22	2 000	1.0	32	**2KJ4301 - ■ FM33 - ■ ■ C1**	
	315	91	4.60	2 000	1.1	32	**2KJ4301 - ■ FM33 - ■ ■ B1**	
	362	79	4.00	2 000	1.2	32	**2KJ4301 - ■ FM33 - ■ ■ A1**	
	FZ.39-LEN100LN4E							
	116	245	12.38	3 300	0.85	49	**2KJ4302 - ■ FP32 - ■ ■ K1**	
	135	210	10.61	3 300	0.94	49	**2KJ4302 - ■ FP32 - ■ ■ J1**	
	157	182	9.13	3 300	1.0	49	**2KJ4302 - ■ FP32 - ■ ■ H1**	
	177	162	8.10	3 100	1.0	49	**2KJ4302 - ■ FP32 - ■ ■ G1**	
	213	135	6.74	3 100	1.1	49	**2KJ4302 - ■ FP32 - ■ ■ F1**	
	226	127	6.35	3 000	1.2	49	**2KJ4302 - ■ FP32 - ■ ■ E1**	
	252	114	5.69	3 000	1.2	49	**2KJ4302 - ■ FP32 - ■ ■ D1**	
	296	97	4.84	2 900	1.3	49	**2KJ4302 - ■ FP32 - ■ ■ C1**	
	346	83	4.15	2 900	1.4	49	**2KJ4302 - ■ FP32 - ■ ■ B1**	
	402	71	3.57	2 800	1.5	49	**2KJ4302 - ■ FP32 - ■ ■ A1**	
	FZ.39-LEN100LZ4P							
	117	245	12.38	3 300	0.86	39	**2KJ4302 - ■ FM33 - ■ ■ K1**	
	137	210	10.61	3 300	0.95	39	**2KJ4302 - ■ FM33 - ■ ■ J1**	
	159	180	9.13	3 300	1.0	39	**2KJ4302 - ■ FM33 - ■ ■ H1**	
	179	160	8.10	3 100	1.0	39	**2KJ4302 - ■ FM33 - ■ ■ G1**	
	215	133	6.74	3 100	1.1	39	**2KJ4302 - ■ FM33 - ■ ■ F1**	
	228	125	6.35	3 000	1.2	39	**2KJ4302 - ■ FM33 - ■ ■ E1**	
	255	112	5.69	3 000	1.2	39	**2KJ4302 - ■ FM33 - ■ ■ D1**	
	300	96	4.84	2 900	1.3	39	**2KJ4302 - ■ FM33 - ■ ■ C1**	
	349	82	4.15	2 900	1.4	39	**2KJ4302 - ■ FM33 - ■ ■ B1**	
	406	70	3.57	2 800	1.5	39	**2KJ4302 - ■ FM33 - ■ ■ A1**	
	FZ.49-LEN100LN4E							
	50	570	28.74	3 600	0.84	60	**2KJ4303 - ■ FP32 - ■ ■ Q1**	
	55	520	26.24	3 700	0.92	60	**2KJ4303 - ■ FP32 - ■ ■ P1**	
	66	435	21.77	3 800	1.1	60	**2KJ4303 - ■ FP32 - ■ ■ N1**	
	70	405	20.49	3 900	1.2	60	**2KJ4303 - ■ FP32 - ■ ■ M1**	
	74	385	19.35	3 900	1.2	60	**2KJ4303 - ■ FP32 - ■ ■ L1**	
	87	325	16.47	3 900	1.5	60	**2KJ4303 - ■ FP32 - ■ ■ K1**	
	102	280	14.11	3 900	1.7	60	**2KJ4303 - ■ FP32 - ■ ■ J1**	
	116	245	12.4	3 900	1.9	60	**2KJ4303 - ■ FP32 - ■ ■ H1**	
	137	205	10.46	3 800	2.3	60	**2KJ4303 - ■ FP32 - ■ ■ G1**	
	157	182	9.12	3 800	2.6	60	**2KJ4303 - ■ FP32 - ■ ■ F1**	
	171	168	8.40	3 600	2.7	60	**2KJ4303 - ■ FP32 - ■ ■ E1**	
	199	144	7.20	3 500	3.1	60	**2KJ4303 - ■ FP32 - ■ ■ D1**	
	227	126	6.33	3 500	3.4	60	**2KJ4303 - ■ FP32 - ■ ■ C1**	
	269	107	5.34	3 400	3.8	60	**2KJ4303 - ■ FP32 - ■ ■ B1**	
	309	93	4.65	3 300	4.0	60	**2KJ4303 - ■ FP32 - ■ ■ A1**	
	FZ.49-LEN100LZ4P							
	50	565	28.74	3 600	0.85	50	**2KJ4303 - ■ FM33 - ■ ■ Q1**	
	55	515	26.24	3 700	0.93	50	**2KJ4303 - ■ FM33 - ■ ■ P1**	
	67	430	21.77	3 800	1.1	50	**2KJ4303 - ■ FM33 - ■ ■ N1**	
	71	405	20.49	3 800	1.2	50	**2KJ4303 - ■ FM33 - ■ ■ M1**	
	75	380	19.35	3 900	1.3	50	**2KJ4303 - ■ FM33 - ■ ■ L1**	
	88	325	16.47	3 900	1.5	50	**2KJ4303 - ■ FM33 - ■ ■ K1**	

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Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FZ.49-LEN100LZ4P**							
	103	275	14.11	3 900	1.7	50	**2KJ4303 - ■ FM33 - ■ ■ J1**	
	117	245	12.4	3 900	2.0	50	**2KJ4303 - ■ FM33 - ■ ■ H1**	
	139	205	10.46	3 800	2.3	50	**2KJ4303 - ■ FM33 - ■ ■ G1**	
	159	180	9.12	3 800	2.7	50	**2KJ4303 - ■ FM33 - ■ ■ F1**	
	173	166	8.40	3 600	2.7	50	**2KJ4303 - ■ FM33 - ■ ■ E1**	
	201	142	7.20	3 500	3.2	50	**2KJ4303 - ■ FM33 - ■ ■ D1**	
	229	125	6.33	3 500	3.4	50	**2KJ4303 - ■ FM33 - ■ ■ C1**	
	272	106	5.34	3 400	3.8	50	**2KJ4303 - ■ FM33 - ■ ■ B1**	
	312	92	4.65	3 300	4.1	50	**2KJ4303 - ■ FM33 - ■ ■ A1**	
	FZ.69-LEN100LN4E							
	39	725	36.36	6 500	0.83	64	**2KJ4304 - ■ FP32 - ■ ■ S1**	
	44	650	32.78	6 600	0.92	64	**2KJ4304 - ■ FP32 - ■ ■ R1**	
	47	600	30.26	6 600	0.99	64	**2KJ4304 - ■ FP32 - ■ ■ Q1**	
	52	550	27.62	6 600	1.1	64	**2KJ4304 - ■ FP32 - ■ ■ P1**	
	63	455	22.92	6 600	1.3	64	**2KJ4304 - ■ FP32 - ■ ■ N1**	
	67	430	21.57	6 600	1.4	64	**2KJ4304 - ■ FP32 - ■ ■ M1**	
	70	405	20.37	6 600	1.5	64	**2KJ4304 - ■ FP32 - ■ ■ L1**	
	83	345	17.33	6 500	1.7	64	**2KJ4304 - ■ FP32 - ■ ■ K1**	
	97	295	14.85	6 300	2.0	64	**2KJ4304 - ■ FP32 - ■ ■ J1**	
	110	260	13.06	6 200	2.3	64	**2KJ4304 - ■ FP32 - ■ ■ H1**	
	130	220	11.01	6 000	2.7	64	**2KJ4304 - ■ FP32 - ■ ■ G1**	
	149	192	9.60	5 900	3.1	64	**2KJ4304 - ■ FP32 - ■ ■ F1**	
	161	178	8.90	5 700	2.7	64	**2KJ4304 - ■ FP32 - ■ ■ E1**	
	188	152	7.62	5 500	3.1	64	**2KJ4304 - ■ FP32 - ■ ■ D1**	
	214	134	6.70	5 400	3.3	64	**2KJ4304 - ■ FP32 - ■ ■ C1**	
	254	113	5.66	5 200	3.6	64	**2KJ4304 - ■ FP32 - ■ ■ B1**	
	291	98	4.93	5 000	3.9	64	**2KJ4304 - ■ FP32 - ■ ■ A1**	
	FZ.69-LEN100LZ4P							
	40	715	36.36	6 600	0.84	54	**2KJ4304 - ■ FM33 - ■ ■ S1**	
	44	645	32.78	6 600	0.93	54	**2KJ4304 - ■ FM33 - ■ ■ R1**	
	48	595	30.26	6 600	1.0	54	**2KJ4304 - ■ FM33 - ■ ■ Q1**	
	52	545	27.62	6 600	1.1	54	**2KJ4304 - ■ FM33 - ■ ■ P1**	
	63	450	22.92	6 600	1.3	54	**2KJ4304 - ■ FM33 - ■ ■ N1**	
	67	425	21.57	6 600	1.4	54	**2KJ4304 - ■ FM33 - ■ ■ M1**	
	71	400	20.37	6 600	1.5	54	**2KJ4304 - ■ FM33 - ■ ■ L1**	
	84	340	17.33	6 500	1.8	54	**2KJ4304 - ■ FM33 - ■ ■ K1**	
	98	290	14.85	6 300	2.0	54	**2KJ4304 - ■ FM33 - ■ ■ J1**	
	111	255	13.06	6 200	2.3	54	**2KJ4304 - ■ FM33 - ■ ■ H1**	
	132	215	11.01	6 000	2.8	54	**2KJ4304 - ■ FM33 - ■ ■ G1**	
	151	190	9.60	5 800	3.2	54	**2KJ4304 - ■ FM33 - ■ ■ F1**	
	163	176	8.90	5 700	2.7	54	**2KJ4304 - ■ FM33 - ■ ■ E1**	
	190	151	7.62	5 500	3.1	54	**2KJ4304 - ■ FM33 - ■ ■ D1**	
	216	132	6.70	5 400	3.3	54	**2KJ4304 - ■ FM33 - ■ ■ C1**	
	256	112	5.66	5 100	3.7	54	**2KJ4304 - ■ FM33 - ■ ■ B1**	
	294	97	4.93	5 000	4.0	54	**2KJ4304 - ■ FM33 - ■ ■ A1**	
	FD.79-LEN100LN4E							
	24	1 210	60.82	13 200	0.82	72	**2KJ4405 - ■ FP32 - ■ ■ B1**	
	27	1 050	53.01	13 500	0.94	72	**2KJ4405 - ■ FP32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FD.79-LEN100LZ4P**							
	24	1 200	60.82	13 200	0.83	62	**2KJ4405 - ■ FM33 - ■ ■ B1**	
	27	1 040	53.01	13 500	0.95	62	**2KJ4405 - ■ FM33 - ■ ■ A1**	
	FZ.79-LEN100LN4E							
	30	955	48.03	13 700	1.0	71	**2KJ4305 - ■ FP32 - ■ ■ W1**	
	33	860	43.18	13 800	1.2	71	**2KJ4305 - ■ FP32 - ■ ■ V1**	
	37	780	39.06	14 000	1.3	71	**2KJ4305 - ■ FP32 - ■ ■ U1**	
	40	720	36.05	14 100	1.4	71	**2KJ4305 - ■ FP32 - ■ ■ T1**	
	43	655	33.02	14 300	1.5	71	**2KJ4305 - ■ FP32 - ■ ■ S1**	
	52	550	27.71	14 500	1.8	71	**2KJ4305 - ■ FP32 - ■ ■ R1**	
	55	520	26.08	14 500	1.9	71	**2KJ4305 - ■ FP32 - ■ ■ Q1**	
	60	475	23.93	14 500	2.1	71	**2KJ4305 - ■ FP32 - ■ ■ P1**	
	69	415	20.9	14 500	2.4	71	**2KJ4305 - ■ FP32 - ■ ■ N1**	
	77	370	18.71	14 500	2.7	71	**2KJ4305 - ■ FP32 - ■ ■ M1**	
	88	325	16.36	14 500	3.1	71	**2KJ4305 - ■ FP32 - ■ ■ L1**	
	169	170	8.51	13 500	4.2	71	**2KJ4305 - ■ FP32 - ■ ■ F1**	
	FZ.79-LEN100LZ4P							
	30	945	48.03	13 700	1.1	61	**2KJ4305 - ■ FM33 - ■ ■ W1**	
	34	850	43.18	13 900	1.2	61	**2KJ4305 - ■ FM33 - ■ ■ V1**	
	37	770	39.06	14 000	1.3	61	**2KJ4305 - ■ FM33 - ■ ■ U1**	
	40	710	36.05	14 100	1.4	61	**2KJ4305 - ■ FM33 - ■ ■ T1**	
	44	650	33.02	14 300	1.5	61	**2KJ4305 - ■ FM33 - ■ ■ S1**	
	52	545	27.71	14 500	1.8	61	**2KJ4305 - ■ FM33 - ■ ■ R1**	
	56	515	26.08	14 500	1.9	61	**2KJ4305 - ■ FM33 - ■ ■ Q1**	
	61	470	23.93	14 500	2.1	61	**2KJ4305 - ■ FM33 - ■ ■ P1**	
	69	410	20.9	14 500	2.4	61	**2KJ4305 - ■ FM33 - ■ ■ N1**	
	77	370	18.71	14 500	2.7	61	**2KJ4305 - ■ FM33 - ■ ■ M1**	
	89	320	16.36	14 500	3.1	61	**2KJ4305 - ■ FM33 - ■ ■ L1**	
	FD.89-LEN100LN4E							
	13	2 120	106.52	17 400	0.87	103	**2KJ4406 - ■ FP32 - ■ ■ F1**	
	15	1 860	93.14	17 400	0.99	103	**2KJ4406 - ■ FP32 - ■ ■ E1**	
	18	1 590	79.95	17 400	1.2	103	**2KJ4406 - ■ FP32 - ■ ■ D1**	
	20	1 410	70.67	17 400	1.3	103	**2KJ4406 - ■ FP32 - ■ ■ C1**	
	24	1 200	60.09	17 400	1.5	103	**2KJ4406 - ■ FP32 - ■ ■ B1**	
	28	1 020	51.51	17 400	1.8	103	**2KJ4406 - ■ FP32 - ■ ■ A1**	
	FD.89-LEN100LZ4P							
	14	2 100	106.52	17 400	0.88	93	**2KJ4406 - ■ FM33 - ■ ■ F1**	
	16	1 840	93.14	17 400	1.0	93	**2KJ4406 - ■ FM33 - ■ ■ E1**	
	18	1 580	79.95	17 400	1.2	93	**2KJ4406 - ■ FM33 - ■ ■ D1**	
	21	1 390	70.67	17 400	1.3	93	**2KJ4406 - ■ FM33 - ■ ■ C1**	
	24	1 180	60.09	17 400	1.6	93	**2KJ4406 - ■ FM33 - ■ ■ B1**	
	28	1 010	51.51	17 400	1.8	93	**2KJ4406 - ■ FM33 - ■ ■ A1**	
	FZ.89-LEN100LN4E							
	23	1 230	61.72	17 400	1.5	102	**2KJ4306 - ■ FP32 - ■ ■ B2**	
	26	1 110	55.72	17 400	1.7	102	**2KJ4306 - ■ FP32 - ■ ■ A2**	
	28	1 000	50.54	17 400	1.8	102	**2KJ4306 - ■ FP32 - ■ ■ X1**	
	31	930	46.66	17 400	2.0	102	**2KJ4306 - ■ FP32 - ■ ■ W1**	
	34	845	42.41	17 400	2.2	102	**2KJ4306 - ■ FP32 - ■ ■ V1**	
	40	715	35.91	17 400	2.6	102	**2KJ4306 - ■ FP32 - ■ ■ U1**	
	42	675	33.8	17 400	2.7	102	**2KJ4306 - ■ FP32 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FZ.89-LEN100LZ4P**							
	23	1 220	61.72	17 400	1.5	92	**2KJ4306 - ■ FM33 - ■ ■ B2**	
	26	1 100	55.72	17 400	1.7	92	**2KJ4306 - ■ FM33 - ■ ■ A2**	
	29	995	50.54	17 400	1.9	92	**2KJ4306 - ■ FM33 - ■ ■ X1**	
	31	920	46.66	17 400	2.0	92	**2KJ4306 - ■ FM33 - ■ ■ W1**	
	34	835	42.41	17 400	2.2	92	**2KJ4306 - ■ FM33 - ■ ■ V1**	
	40	710	35.91	17 400	2.6	92	**2KJ4306 - ■ FM33 - ■ ■ U1**	
	FD.109-LEN100LN4E							
	7.8	3 680	184.46	25 000	0.84	144	**2KJ4407 - ■ FP32 - ■ ■ K1**	
	8.8	3 270	163.83	25 000	0.95	144	**2KJ4407 - ■ FP32 - ■ ■ J1**	
	9.8	2 920	146.65	25 000	1.1	144	**2KJ4407 - ■ FP32 - ■ ■ H1**	
	11	2 500	125.37	25 000	1.2	144	**2KJ4407 - ■ FP32 - ■ ■ G1**	
	13	2 230	111.95	25 000	1.4	144	**2KJ4407 - ■ FP32 - ■ ■ F1**	
	15	1 970	98.94	25 000	1.6	144	**2KJ4407 - ■ FP32 - ■ ■ E1**	
	17	1 730	86.83	25 000	1.8	144	**2KJ4407 - ■ FP32 - ■ ■ D1**	
	19	1 500	75.59	25 000	2.1	144	**2KJ4407 - ■ FP32 - ■ ■ C1**	
	22	1 290	64.62	25 000	2.4	144	**2KJ4407 - ■ FP32 - ■ ■ B1**	
	FD.109-LEN100LZ4P							
	7.9	3 640	184.46	25 000	0.85	134	**2KJ4407 - ■ FM33 - ■ ■ K1**	
	8.9	3 230	163.83	25 000	0.96	134	**2KJ4407 - ■ FM33 - ■ ■ J1**	
	9.9	2 890	146.65	25 000	1.1	134	**2KJ4407 - ■ FM33 - ■ ■ H1**	
	12	2 470	125.37	25 000	1.3	134	**2KJ4407 - ■ FM33 - ■ ■ G1**	
	13	2 210	111.95	25 000	1.4	134	**2KJ4407 - ■ FM33 - ■ ■ F1**	
	15	1 950	98.94	25 000	1.6	134	**2KJ4407 - ■ FM33 - ■ ■ E1**	
	17	1 710	86.83	25 000	1.8	134	**2KJ4407 - ■ FM33 - ■ ■ D1**	
	19	1 490	75.59	25 000	2.1	134	**2KJ4407 - ■ FM33 - ■ ■ C1**	
	22	1 270	64.62	25 000	2.4	134	**2KJ4407 - ■ FM33 - ■ ■ B1**	
	FZ.109-LEN100LN4E							
	20	1 410	70.74	25 000	2.2	141	**2KJ4307 - ■ FP32 - ■ ■ B2**	
	22	1 300	65.3	25 000	2.4	141	**2KJ4307 - ■ FP32 - ■ ■ A2**	
	FZ.109-LEN100LZ4P							
	20	1 390	70.74	25 000	2.2	131	**2KJ4307 - ■ FM33 - ■ ■ B2**	
	22	1 290	65.3	25 000	2.4	131	**2KJ4307 - ■ FM33 - ■ ■ A2**	
	FD.129-LEN100LN4E							
	4.8	5 970	299.31	36 100	0.81	198	**2KJ4408 - ■ FP32 - ■ ■ Q1**	
	5.1	5 620	281.7	36 400	0.86	198	**2KJ4408 - ■ FP32 - ■ ■ P1**	
	5.5	5 210	261.42	36 800	0.93	198	**2KJ4408 - ■ FP32 - ■ ■ N1**	
	6.2	4 610	231.12	37 400	1.1	198	**2KJ4408 - ■ FP32 - ■ ■ M1**	
	7.0	4 110	206.32	37 500	1.2	198	**2KJ4408 - ■ FP32 - ■ ■ L1**	
	7.7	3 700	185.66	37 500	1.3	198	**2KJ4408 - ■ FP32 - ■ ■ K1**	
	8.9	3 210	161.14	37 500	1.5	198	**2KJ4408 - ■ FP32 - ■ ■ J1**	
	9.9	2 890	144.92	37 500	1.7	198	**2KJ4408 - ■ FP32 - ■ ■ H1**	
	11	2 520	126.66	37 500	1.9	198	**2KJ4408 - ■ FP32 - ■ ■ G1**	
	13	2 250	113.03	37 500	2.1	198	**2KJ4408 - ■ FP32 - ■ ■ F1**	
	FD.129-LEN100LZ4P							
	4.8	5 910	299.31	36 100	0.82	188	**2KJ4408 - ■ FM33 - ■ ■ Q1**	
	5.1	5 560	281.7	36 500	0.87	188	**2KJ4408 - ■ FM33 - ■ ■ P1**	
	5.5	5 160	261.42	36 900	0.94	188	**2KJ4408 - ■ FM33 - ■ ■ N1**	
	6.3	4 560	231.12	37 400	1.1	188	**2KJ4408 - ■ FM33 - ■ ■ M1**	
	7.0	4 070	206.32	37 500	1.2	188	**2KJ4408 - ■ FM33 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FD.129-LEN100LZ4P**							
	7.8	3 660	185.66	37 500	1.3	188	**2KJ4408 - ■ FM33 - ■ ■ K1**	
	9.0	3 180	161.14	37 500	1.5	188	**2KJ4408 - ■ FM33 - ■ ■ J1**	
	10	2 860	144.92	37 500	1.7	188	**2KJ4408 - ■ FM33 - ■ ■ H1**	
	11	2 500	126.66	37 500	1.9	188	**2KJ4408 - ■ FM33 - ■ ■ G1**	
	13	2 230	113.03	37 500	2.2	188	**2KJ4408 - ■ FM33 - ■ ■ F1**	
	FD.149-LEN100LN4E							
	3.8	7 520	377	65 000	1.1	285	**2KJ4410 - ■ FP32 - ■ ■ W1**	
	4.4	6 450	323.04	65 000	1.2	285	**2KJ4410 - ■ FP32 - ■ ■ V1**	
	4.7	6 070	304.03	65 000	1.3	285	**2KJ4410 - ■ FP32 - ■ ■ U1**	
	5.0	5 690	285	65 000	1.4	285	**2KJ4410 - ■ FP32 - ■ ■ T1**	
	5.7	5 040	252.64	65 000	1.6	285	**2KJ4410 - ■ FP32 - ■ ■ S1**	
	6.4	4 480	224.42	65 000	1.8	285	**2KJ4410 - ■ FP32 - ■ ■ R1**	
	7.1	4 040	202.5	65 000	2.0	285	**2KJ4410 - ■ FP32 - ■ ■ Q1**	
	FD.149-LEN100LZ4P							
	3.8	7 440	377	65 000	1.1	275	**2KJ4410 - ■ FM33 - ■ ■ W1**	
	4.5	6 380	323.04	65 000	1.3	275	**2KJ4410 - ■ FM33 - ■ ■ V1**	
	4.8	6 000	304.03	65 000	1.3	275	**2KJ4410 - ■ FM33 - ■ ■ U1**	
	5.1	5 630	285	65 000	1.4	275	**2KJ4410 - ■ FM33 - ■ ■ T1**	
	5.7	4 990	252.64	65 000	1.6	275	**2KJ4410 - ■ FM33 - ■ ■ S1**	
	6.5	4 430	224.42	65 000	1.8	275	**2KJ4410 - ■ FM33 - ■ ■ R1**	
	7.2	4 000	202.5	65 000	2.0	275	**2KJ4410 - ■ FM33 - ■ ■ Q1**	
	FD.149-Z49-LEN100LN4E							
	2.9	9 300	494	65 000	0.86	304	**2KJ4437 - ■ FP32 - ■ ■ B1**	
	3.3	8 110	431	65 000	0.99	304	**2KJ4437 - ■ FP32 - ■ ■ A1**	
	FD.149-Z49-LEN100LZ4P							
	2.9	9 200	494	65 000	0.87	294	**2KJ4437 - ■ FM33 - ■ ■ B1**	
	3.4	8 030	431	65 000	1.0	294	**2KJ4437 - ■ FM33 - ■ ■ A1**	
	FD.169-Z69-LEN100LN4E							
	1.7	16 300	869	73 500	0.83	462	**2KJ4440 - ■ FP32 - ■ ■ F1**	
	1.9	13 900	739	73 500	0.98	462	**2KJ4440 - ■ FP32 - ■ ■ E1**	
	2.3	11 900	633	73 500	1.1	462	**2KJ4440 - ■ FP32 - ■ ■ D1**	
	2.6	10 400	557	73 500	1.3	462	**2KJ4440 - ■ FP32 - ■ ■ C1**	
	3.1	8 840	470	73 500	1.5	462	**2KJ4440 - ■ FP32 - ■ ■ B1**	
	3.5	7 700	409	73 500	1.8	462	**2KJ4440 - ■ FP32 - ■ ■ A1**	
	FD.169-Z69-LEN100LZ4P							
	1.7	16 100	869	73 500	0.84	452	**2KJ4440 - ■ FM33 - ■ ■ F1**	
	2.0	13 700	739	73 500	0.99	452	**2KJ4440 - ■ FM33 - ■ ■ E1**	
	2.3	11 700	633	73 500	1.2	452	**2KJ4440 - ■ FM33 - ■ ■ D1**	
	2.6	10 300	557	73 500	1.3	452	**2KJ4440 - ■ FM33 - ■ ■ C1**	
	3.1	8 750	470	73 500	1.6	452	**2KJ4440 - ■ FM33 - ■ ■ B1**	
	3.5	7 620	409	73 500	1.8	452	**2KJ4440 - ■ FM33 - ■ ■ A1**	
	FD.189-Z69-LEN100LN4E							
	1.2	22 900	1 218	110 300	0.83	674	**2KJ4442 - ■ FP32 - ■ ■ K1**	
	1.4	18 700	997	110 900	1.0	674	**2KJ4442 - ■ FP32 - ■ ■ H1**	
	1.4	19 900	1 061	110 900	0.95	674	**2KJ4442 - ■ FP32 - ■ ■ J1**	
	1.7	15 900	848	110 900	1.2	674	**2KJ4442 - ■ FP32 - ■ ■ G1**	
	2.0	13 600	727	110 900	1.4	674	**2KJ4442 - ■ FP32 - ■ ■ F1**	
	2.2	12 000	639	110 900	1.6	674	**2KJ4442 - ■ FP32 - ■ ■ E1**	
	2.7	10 100	539	110 900	1.9	674	**2KJ4442 - ■ FP32 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FD.189-Z69-LEN100LZ4P**							
	1.2	22 600	1 218	110 500	0.84	664	**2KJ4442 - ■ FM33 - ■ ■ K1**	
	1.4	19 700	1 061	110 900	0.96	664	**2KJ4442 - ■ FM33 - ■ ■ J1**	
	1.5	18 500	997	110 900	1.0	664	**2KJ4442 - ■ FM33 - ■ ■ H1**	
	1.7	15 800	848	110 900	1.2	664	**2KJ4442 - ■ FM33 - ■ ■ G1**	
	2.0	13 500	727	110 900	1.4	664	**2KJ4442 - ■ FM33 - ■ ■ F1**	
	2.3	11 900	639	110 900	1.6	664	**2KJ4442 - ■ FM33 - ■ ■ E1**	
	2.7	10 000	539	110 900	1.9	664	**2KJ4442 - ■ FM33 - ■ ■ D1**	
4	**FZ.39-LEN112MH4E**							
	214	178	6.74	2 700	0.85	56	**2KJ4302 - ■ GJ32 - ■ ■ F1**	
	228	168	6.35	2 700	0.89	56	**2KJ4302 - ■ GJ32 - ■ ■ E1**	
	254	150	5.69	2 700	0.93	56	**2KJ4302 - ■ GJ32 - ■ ■ D1**	
	299	128	4.84	2 700	1.0	56	**2KJ4302 - ■ GJ32 - ■ ■ C1**	
	348	110	4.15	2 600	1.1	56	**2KJ4302 - ■ GJ32 - ■ ■ B1**	
	405	94	3.57	2 600	1.1	56	**2KJ4302 - ■ GJ32 - ■ ■ A1**	
	FZ.39-LEN112MR4P							
	215	178	6.74	2 700	0.86	45	**2KJ4302 - ■ GJ33 - ■ ■ F1**	
	228	167	6.35	2 700	0.89	45	**2KJ4302 - ■ GJ33 - ■ ■ E1**	
	255	150	5.69	2 700	0.93	45	**2KJ4302 - ■ GJ33 - ■ ■ D1**	
	300	128	4.84	2 700	1.0	45	**2KJ4302 - ■ GJ33 - ■ ■ C1**	
	349	109	4.15	2 600	1.1	45	**2KJ4302 - ■ GJ33 - ■ ■ B1**	
	406	94	3.57	2 600	1.1	45	**2KJ4302 - ■ GJ33 - ■ ■ A1**	
	FZ.49-LEN112MH4E							
	66	575	21.77	2 900	0.83	64	**2KJ4303 - ■ GJ32 - ■ ■ N1**	
	71	540	20.49	3 000	0.89	64	**2KJ4303 - ■ GJ32 - ■ ■ M1**	
	75	510	19.35	3 000	0.94	64	**2KJ4303 - ■ GJ32 - ■ ■ L1**	
	88	435	16.47	3 200	1.1	64	**2KJ4303 - ■ GJ32 - ■ ■ K1**	
	102	370	14.11	3 300	1.3	64	**2KJ4303 - ■ GJ32 - ■ ■ J1**	
	117	325	12.4	3 400	1.5	64	**2KJ4303 - ■ GJ32 - ■ ■ H1**	
	138	275	10.46	3 400	1.7	64	**2KJ4303 - ■ GJ32 - ■ ■ G1**	
	158	240	9.12	3 400	2.0	64	**2KJ4303 - ■ GJ32 - ■ ■ F1**	
	172	220	8.40	3 200	2.0	64	**2KJ4303 - ■ GJ32 - ■ ■ E1**	
	201	190	7.20	3 200	2.4	64	**2KJ4303 - ■ GJ32 - ■ ■ D1**	
	228	167	6.33	3 200	2.6	64	**2KJ4303 - ■ GJ32 - ■ ■ C1**	
	271	141	5.34	3 100	2.8	64	**2KJ4303 - ■ GJ32 - ■ ■ B1**	
	311	123	4.65	3 000	3.1	64	**2KJ4303 - ■ GJ32 - ■ ■ A1**	
	FZ.49-LEN112MR4P							
	67	570	21.77	2 900	0.84	53	**2KJ4303 - ■ GJ33 - ■ ■ N1**	
	71	540	20.49	3 000	0.89	53	**2KJ4303 - ■ GJ33 - ■ ■ M1**	
	75	510	19.35	3 000	0.94	53	**2KJ4303 - ■ GJ33 - ■ ■ L1**	
	88	430	16.47	3 200	1.1	53	**2KJ4303 - ■ GJ33 - ■ ■ K1**	
	103	370	14.11	3 300	1.3	53	**2KJ4303 - ■ GJ33 - ■ ■ J1**	
	117	325	12.4	3 400	1.5	53	**2KJ4303 - ■ GJ33 - ■ ■ H1**	
	139	275	10.46	3 400	1.7	53	**2KJ4303 - ■ GJ33 - ■ ■ G1**	
	159	240	9.12	3 400	2.0	53	**2KJ4303 - ■ GJ33 - ■ ■ F1**	
	173	220	8.40	3 200	2.0	53	**2KJ4303 - ■ GJ33 - ■ ■ E1**	
	201	190	7.20	3 200	2.4	53	**2KJ4303 - ■ GJ33 - ■ ■ D1**	
	229	167	6.33	3 200	2.6	53	**2KJ4303 - ■ GJ33 - ■ ■ C1**	
	272	141	5.34	3 100	2.8	53	**2KJ4303 - ■ GJ33 - ■ ■ B1**	
	312	123	4.65	3 000	3.1	53	**2KJ4303 - ■ GJ33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**FZ.69-LEN112MH4E**							
	52	730	27.62	5 500	0.82	69	**2KJ4304 - ■ GJ32 - ■ ■ P1**	
	63	605	22.92	5 700	0.99	69	**2KJ4304 - ■ GJ32 - ■ ■ N1**	
	67	570	21.57	5 700	1.1	69	**2KJ4304 - ■ GJ32 - ■ ■ M1**	
	71	535	20.37	5 700	1.1	69	**2KJ4304 - ■ GJ32 - ■ ■ L1**	
	83	455	17.33	5 800	1.3	69	**2KJ4304 - ■ GJ32 - ■ ■ K1**	
	97	390	14.85	5 700	1.5	69	**2KJ4304 - ■ GJ32 - ■ ■ J1**	
	111	345	13.06	5 700	1.7	69	**2KJ4304 - ■ GJ32 - ■ ■ H1**	
	131	290	11.01	5 600	2.1	69	**2KJ4304 - ■ GJ32 - ■ ■ G1**	
	151	250	9.60	5 500	2.4	69	**2KJ4304 - ■ GJ32 - ■ ■ F1**	
	162	235	8.90	5 300	2.0	69	**2KJ4304 - ■ GJ32 - ■ ■ E1**	
	190	200	7.62	5 200	2.3	69	**2KJ4304 - ■ GJ32 - ■ ■ D1**	
	216	177	6.70	5 100	2.5	69	**2KJ4304 - ■ GJ32 - ■ ■ C1**	
	255	150	5.66	4 900	2.7	69	**2KJ4304 - ■ GJ32 - ■ ■ B1**	
	293	130	4.93	4 800	3.0	69	**2KJ4304 - ■ GJ32 - ■ ■ A1**	
	FZ.69-LEN112MR4P							
	52	725	27.62	5 500	0.82	58	**2KJ4304 - ■ GJ33 - ■ ■ P1**	
	63	600	22.92	5 700	0.99	58	**2KJ4304 - ■ GJ33 - ■ ■ N1**	
	67	565	21.57	5 700	1.1	58	**2KJ4304 - ■ GJ33 - ■ ■ M1**	
	71	535	20.37	5 700	1.1	58	**2KJ4304 - ■ GJ33 - ■ ■ L1**	
	84	455	17.33	5 700	1.3	58	**2KJ4304 - ■ GJ33 - ■ ■ K1**	
	98	390	14.85	5 700	1.5	58	**2KJ4304 - ■ GJ33 - ■ ■ J1**	
	111	340	13.06	5 700	1.7	58	**2KJ4304 - ■ GJ33 - ■ ■ H1**	
	132	290	11.01	5 600	2.1	58	**2KJ4304 - ■ GJ33 - ■ ■ G1**	
	151	250	9.60	5 500	2.4	58	**2KJ4304 - ■ GJ33 - ■ ■ F1**	
	163	230	8.90	5 300	2.0	58	**2KJ4304 - ■ GJ33 - ■ ■ E1**	
	190	200	7.62	5 200	2.3	58	**2KJ4304 - ■ GJ33 - ■ ■ D1**	
	216	177	6.70	5 100	2.5	58	**2KJ4304 - ■ GJ33 - ■ ■ C1**	
	256	149	5.66	4 900	2.7	58	**2KJ4304 - ■ GJ33 - ■ ■ B1**	
	294	130	4.93	4 800	3.0	58	**2KJ4304 - ■ GJ33 - ■ ■ A1**	
	FZ.79-LEN112MH4E							
	33	1 140	43.18	13 300	0.88	76	**2KJ4305 - ■ GJ32 - ■ ■ V1**	
	37	1 030	39.06	13 500	0.97	76	**2KJ4305 - ■ GJ32 - ■ ■ U1**	
	40	950	36.05	13 700	1.0	76	**2KJ4305 - ■ GJ32 - ■ ■ T1**	
	44	870	33.02	13 800	1.1	76	**2KJ4305 - ■ GJ32 - ■ ■ S1**	
	52	730	27.71	14 100	1.4	76	**2KJ4305 - ■ GJ32 - ■ ■ R1**	
	55	685	26.08	14 200	1.5	76	**2KJ4305 - ■ GJ32 - ■ ■ Q1**	
	60	630	23.93	14 300	1.6	76	**2KJ4305 - ■ GJ32 - ■ ■ P1**	
	69	550	20.9	14 500	1.8	76	**2KJ4305 - ■ GJ32 - ■ ■ N1**	
	77	495	18.71	14 500	2.0	76	**2KJ4305 - ■ GJ32 - ■ ■ M1**	
	88	430	16.36	14 500	2.3	76	**2KJ4305 - ■ GJ32 - ■ ■ L1**	
	103	370	14.04	14 500	2.7	76	**2KJ4305 - ■ GJ32 - ■ ■ K1**	
	116	325	12.41	14 400	3.0	76	**2KJ4305 - ■ GJ32 - ■ ■ J1**	
	137	275	10.56	13 900	3.6	76	**2KJ4305 - ■ GJ32 - ■ ■ H1**	
	170	225	8.51	13 100	3.2	76	**2KJ4305 - ■ GJ32 - ■ ■ F1**	
	194	197	7.44	12 700	3.7	76	**2KJ4305 - ■ GJ32 - ■ ■ E1**	
	226	169	6.39	12 200	4.3	76	**2KJ4305 - ■ GJ32 - ■ ■ D1**	
	256	149	5.64	11 900	4.7	76	**2KJ4305 - ■ GJ32 - ■ ■ C1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**FZ.79-LEN112MR4P**							
	34	1 130	43.18	13 300	0.88	65	**2KJ4305 - ■ GJ33 - ■ ■ V1**	
	37	1 020	39.06	13 500	0.97	65	**2KJ4305 - ■ GJ33 - ■ ■ U1**	
	40	950	36.05	13 700	1.1	65	**2KJ4305 - ■ GJ33 - ■ ■ T1**	
	44	870	33.02	13 800	1.1	65	**2KJ4305 - ■ GJ33 - ■ ■ S1**	
	52	730	27.71	14 100	1.4	65	**2KJ4305 - ■ GJ33 - ■ ■ R1**	
	56	685	26.08	14 200	1.5	65	**2KJ4305 - ■ GJ33 - ■ ■ Q1**	
	61	630	23.93	14 300	1.6	65	**2KJ4305 - ■ GJ33 - ■ ■ P1**	
	69	550	20.9	14 500	1.8	65	**2KJ4305 - ■ GJ33 - ■ ■ N1**	
	77	490	18.71	14 500	2.0	65	**2KJ4305 - ■ GJ33 - ■ ■ M1**	
	89	430	16.36	14 500	2.3	65	**2KJ4305 - ■ GJ33 - ■ ■ L1**	
	103	370	14.04	14 500	2.7	65	**2KJ4305 - ■ GJ33 - ■ ■ K1**	
	117	325	12.41	14 400	3.1	65	**2KJ4305 - ■ GJ33 - ■ ■ J1**	
	137	275	10.56	13 900	3.6	65	**2KJ4305 - ■ GJ33 - ■ ■ H1**	
	170	220	8.51	13 100	3.2	65	**2KJ4305 - ■ GJ33 - ■ ■ F1**	
	195	196	7.44	12 700	3.7	65	**2KJ4305 - ■ GJ33 - ■ ■ E1**	
	227	168	6.39	12 200	4.3	65	**2KJ4305 - ■ GJ33 - ■ ■ D1**	
	257	149	5.64	11 900	4.7	65	**2KJ4305 - ■ GJ33 - ■ ■ C1**	
	FD.89-LEN112MH4E							
	18	2 110	79.95	17 400	0.88	107	**2KJ4406 - ■ GJ32 - ■ ■ D1**	
	20	1 860	70.67	17 400	0.99	107	**2KJ4406 - ■ GJ32 - ■ ■ C1**	
	24	1 580	60.09	17 400	1.2	107	**2KJ4406 - ■ GJ32 - ■ ■ B1**	
	28	1 360	51.51	17 400	1.4	107	**2KJ4406 - ■ GJ32 - ■ ■ A1**	
	FD.89-LEN112MR4P							
	18	2 100	79.95	17 400	0.88	96	**2KJ4406 - ■ GJ33 - ■ ■ D1**	
	21	1 860	70.67	17 400	0.99	96	**2KJ4406 - ■ GJ33 - ■ ■ C1**	
	24	1 580	60.09	17 400	1.2	96	**2KJ4406 - ■ GJ33 - ■ ■ B1**	
	28	1 350	51.51	17 400	1.4	96	**2KJ4406 - ■ GJ33 - ■ ■ A1**	
	FZ.89-LEN112MH4E							
	23	1 630	61.72	17 400	1.1	106	**2KJ4306 - ■ GJ32 - ■ ■ B2**	
	26	1 470	55.72	17 400	1.3	106	**2KJ4306 - ■ GJ32 - ■ ■ A2**	
	29	1 330	50.54	17 400	1.4	106	**2KJ4306 - ■ GJ32 - ■ ■ X1**	
	31	1 230	46.66	17 400	1.5	106	**2KJ4306 - ■ GJ32 - ■ ■ W1**	
	34	1 120	42.41	17 400	1.7	106	**2KJ4306 - ■ GJ32 - ■ ■ V1**	
	40	945	35.91	17 400	1.9	106	**2KJ4306 - ■ GJ32 - ■ ■ U1**	
	43	890	33.8	17 400	2.1	106	**2KJ4306 - ■ GJ32 - ■ ■ T1**	
	46	825	31.21	17 400	2.2	106	**2KJ4306 - ■ GJ32 - ■ ■ S1**	
	52	730	27.77	17 400	2.5	106	**2KJ4306 - ■ GJ32 - ■ ■ R1**	
	59	650	24.67	17 400	2.8	106	**2KJ4306 - ■ GJ32 - ■ ■ Q1**	
	FZ.89-LEN112MR4P							
	23	1 620	61.72	17 400	1.1	95	**2KJ4306 - ■ GJ33 - ■ ■ B2**	
	26	1 460	55.72	17 400	1.3	95	**2KJ4306 - ■ GJ33 - ■ ■ A2**	
	29	1 330	50.54	17 400	1.4	95	**2KJ4306 - ■ GJ33 - ■ ■ X1**	
	31	1 220	46.66	17 400	1.5	95	**2KJ4306 - ■ GJ33 - ■ ■ W1**	
	34	1 110	42.41	17 400	1.7	95	**2KJ4306 - ■ GJ33 - ■ ■ V1**	
	40	945	35.91	17 400	2.0	95	**2KJ4306 - ■ GJ33 - ■ ■ U1**	
	43	890	33.8	17 400	2.1	95	**2KJ4306 - ■ GJ33 - ■ ■ T1**	
	46	820	31.21	17 400	2.3	95	**2KJ4306 - ■ GJ33 - ■ ■ S1**	
	52	730	27.77	17 400	2.5	95	**2KJ4306 - ■ GJ33 - ■ ■ R1**	
	59	650	24.67	17 400	2.8	95	**2KJ4306 - ■ GJ33 - ■ ■ Q1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**FD.109-LEN112MH4E**							
	9.9	3 870	146.65	25 000	0.8	148	**2KJ4407 - ■ GJ32 - ■ ■ H1**	
	12	3 310	125.37	25 000	0.94	148	**2KJ4407 - ■ GJ32 - ■ ■ G1**	
	13	2 960	111.95	25 000	1.0	148	**2KJ4407 - ■ GJ32 - ■ ■ F1**	
	15	2 610	98.94	25 000	1.2	148	**2KJ4407 - ■ GJ32 - ■ ■ E1**	
	17	2 290	86.83	25 000	1.4	148	**2KJ4407 - ■ GJ32 - ■ ■ D1**	
	19	1 990	75.59	25 000	1.6	148	**2KJ4407 - ■ GJ32 - ■ ■ C1**	
	22	1 700	64.62	25 000	1.8	148	**2KJ4407 - ■ GJ32 - ■ ■ B1**	
	26	1 460	55.31	25 000	2.1	148	**2KJ4407 - ■ GJ32 - ■ ■ A1**	
	FD.109-LEN112MR4P							
	9.9	3 860	146.65	25 000	0.8	137	**2KJ4407 - ■ GJ33 - ■ ■ H1**	
	12	3 300	125.37	25 000	0.94	137	**2KJ4407 - ■ GJ33 - ■ ■ G1**	
	13	2 940	111.95	25 000	1.1	137	**2KJ4407 - ■ GJ33 - ■ ■ F1**	
	15	2 600	98.94	25 000	1.2	137	**2KJ4407 - ■ GJ33 - ■ ■ E1**	
	17	2 280	86.83	25 000	1.4	137	**2KJ4407 - ■ GJ33 - ■ ■ D1**	
	19	1 990	75.59	25 000	1.6	137	**2KJ4407 - ■ GJ33 - ■ ■ C1**	
	22	1 700	64.62	25 000	1.8	137	**2KJ4407 - ■ GJ33 - ■ ■ B1**	
	26	1 450	55.31	25 000	2.1	137	**2KJ4407 - ■ GJ33 - ■ ■ A1**	
	FZ.109-LEN112MH4E							
	20	1 870	70.74	25 000	1.7	145	**2KJ4307 - ■ GJ32 - ■ ■ B2**	
	22	1 720	65.3	25 000	1.8	145	**2KJ4307 - ■ GJ32 - ■ ■ A2**	
	24	1 580	60.12	25 000	2.0	145	**2KJ4307 - ■ GJ32 - ■ ■ X1**	
	28	1 350	51.27	25 000	2.3	145	**2KJ4307 - ■ GJ32 - ■ ■ W1**	
	30	1 270	48.25	25 000	2.4	145	**2KJ4307 - ■ GJ32 - ■ ■ V1**	
	FZ.109-LEN112MR4P							
	20	1 860	70.74	25 000	1.7	134	**2KJ4307 - ■ GJ33 - ■ ■ B2**	
	22	1 720	65.3	25 000	1.8	134	**2KJ4307 - ■ GJ33 - ■ ■ A2**	
	24	1 580	60.12	25 000	2.0	134	**2KJ4307 - ■ GJ33 - ■ ■ X1**	
	28	1 350	51.27	25 000	2.3	134	**2KJ4307 - ■ GJ33 - ■ ■ W1**	
	30	1 270	48.25	25 000	2.4	134	**2KJ4307 - ■ GJ33 - ■ ■ V1**	
	FD.129-LEN112MH4E							
	7.0	5 450	206.32	36 600	0.89	203	**2KJ4408 - ■ GJ32 - ■ ■ L1**	
	7.8	4 900	185.66	37 100	0.99	203	**2KJ4408 - ■ GJ32 - ■ ■ K1**	
	9.0	4 260	161.14	37 500	1.1	203	**2KJ4408 - ■ GJ32 - ■ ■ J1**	
	10	3 830	144.92	37 500	1.3	203	**2KJ4408 - ■ GJ32 - ■ ■ H1**	
	11	3 340	126.66	37 500	1.4	203	**2KJ4408 - ■ GJ32 - ■ ■ G1**	
	13	2 980	113.03	37 500	1.6	203	**2KJ4408 - ■ GJ32 - ■ ■ F1**	
	15	2 630	99.58	37 500	1.8	203	**2KJ4408 - ■ GJ32 - ■ ■ E1**	
	17	2 300	87.25	37 500	2.1	203	**2KJ4408 - ■ GJ32 - ■ ■ D1**	
	FD.129-LEN112MR4P							
	6.3	6 080	231.12	36 000	0.8	192	**2KJ4408 - ■ GJ33 - ■ ■ M1**	
	7.0	5 430	206.32	36 600	0.89	192	**2KJ4408 - ■ GJ33 - ■ ■ L1**	
	7.8	4 890	185.66	37 100	0.99	192	**2KJ4408 - ■ GJ33 - ■ ■ K1**	
	9.0	4 240	161.14	37 500	1.1	192	**2KJ4408 - ■ GJ33 - ■ ■ J1**	
	10	3 810	144.92	37 500	1.3	192	**2KJ4408 - ■ GJ33 - ■ ■ H1**	
	11	3 330	126.66	37 500	1.5	192	**2KJ4408 - ■ GJ33 - ■ ■ G1**	
	13	2 970	113.03	37 500	1.6	192	**2KJ4408 - ■ GJ33 - ■ ■ F1**	
	15	2 620	99.58	37 500	1.8	192	**2KJ4408 - ■ GJ33 - ■ ■ E1**	
	17	2 290	87.25	37 500	2.1	192	**2KJ4408 - ■ GJ33 - ■ ■ D1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**FD.149-LEN112MH4E**							
	3.8	9 960	377	65 000	0.8	291	**2KJ4410 - ■ GJ32 - ■ ■ W1**	
	4.5	8 540	323.04	65 000	0.94	291	**2KJ4410 - ■ GJ32 - ■ ■ V1**	
	4.8	8 030	304.03	65 000	1.0	291	**2KJ4410 - ■ GJ32 - ■ ■ U1**	
	5.1	7 530	285	65 000	1.1	291	**2KJ4410 - ■ GJ32 - ■ ■ T1**	
	5.7	6 670	252.64	65 000	1.2	291	**2KJ4410 - ■ GJ32 - ■ ■ S1**	
	6.4	5 930	224.42	65 000	1.3	291	**2KJ4410 - ■ GJ32 - ■ ■ R1**	
	7.1	5 350	202.5	65 000	1.5	291	**2KJ4410 - ■ GJ32 - ■ ■ Q1**	
	8.1	4 740	179.44	65 000	1.7	291	**2KJ4410 - ■ GJ32 - ■ ■ P1**	
	9.1	4 200	158.91	65 000	1.9	291	**2KJ4410 - ■ GJ32 - ■ ■ N1**	
	10	3 730	141.43	65 000	2.1	291	**2KJ4410 - ■ GJ32 - ■ ■ M1**	
	FD.149-LEN112MR4P							
	3.8	9 930	377	65 000	0.81	280	**2KJ4410 - ■ GJ33 - ■ ■ W1**	
	4.5	8 510	323.04	65 000	0.94	280	**2KJ4410 - ■ GJ33 - ■ ■ V1**	
	4.8	8 010	304.03	65 000	1.0	280	**2KJ4410 - ■ GJ33 - ■ ■ U1**	
	5.1	7 500	285	65 000	1.1	280	**2KJ4410 - ■ GJ33 - ■ ■ T1**	
	5.7	6 650	252.64	65 000	1.2	280	**2KJ4410 - ■ GJ33 - ■ ■ S1**	
	6.5	5 910	224.42	65 000	1.4	280	**2KJ4410 - ■ GJ33 - ■ ■ R1**	
	7.2	5 330	202.5	65 000	1.5	280	**2KJ4410 - ■ GJ33 - ■ ■ Q1**	
	8.1	4 720	179.44	65 000	1.7	280	**2KJ4410 - ■ GJ33 - ■ ■ P1**	
	9.1	4 180	158.91	65 000	1.9	280	**2KJ4410 - ■ GJ33 - ■ ■ N1**	
	10	3 720	141.43	65 000	2.1	280	**2KJ4410 - ■ GJ33 - ■ ■ M1**	
	FD.169-LEN112MH4E							
	3.9	9 720	368	73 500	1.4	437	**2KJ4411 - ■ GJ32 - ■ ■ V1**	
	4.2	9 060	343.01	73 500	1.5	437	**2KJ4411 - ■ GJ32 - ■ ■ U1**	
	4.7	8 060	304.94	73 500	1.7	437	**2KJ4411 - ■ GJ32 - ■ ■ T1**	
	5.3	7 230	273.8	73 500	1.9	437	**2KJ4411 - ■ GJ32 - ■ ■ S1**	
	5.8	6 550	247.84	73 500	2.1	437	**2KJ4411 - ■ GJ32 - ■ ■ R1**	
	FD.169-LEN112MR4P							
	3.9	9 690	368	73 500	1.4	426	**2KJ4411 - ■ GJ33 - ■ ■ V1**	
	4.2	9 030	343.01	73 500	1.5	426	**2KJ4411 - ■ GJ33 - ■ ■ U1**	
	4.8	8 030	304.94	73 500	1.7	426	**2KJ4411 - ■ GJ33 - ■ ■ T1**	
	5.3	7 210	273.8	73 500	1.9	426	**2KJ4411 - ■ GJ33 - ■ ■ S1**	
	5.9	6 520	247.84	73 500	2.1	426	**2KJ4411 - ■ GJ33 - ■ ■ R1**	
	FD.169-Z69-LEN112MH4E							
	2.3	15 800	633	73 500	0.86	467	**2KJ4440 - ■ GJ32 - ■ ■ D1**	
	2.6	13 900	557	73 500	0.98	467	**2KJ4440 - ■ GJ32 - ■ ■ C1**	
	3.1	11 700	470	73 500	1.2	467	**2KJ4440 - ■ GJ32 - ■ ■ B1**	
	3.5	10 200	409	73 500	1.3	467	**2KJ4440 - ■ GJ32 - ■ ■ A1**	
	FD.169-Z69-LEN112MR4P							
	2.3	15 700	633	73 500	0.86	456	**2KJ4440 - ■ GJ33 - ■ ■ D1**	
	2.6	13 800	557	73 500	0.98	456	**2KJ4440 - ■ GJ33 - ■ ■ C1**	
	3.1	11 700	470	73 500	1.2	456	**2KJ4440 - ■ GJ33 - ■ ■ B1**	
	3.5	10 100	409	73 500	1.3	456	**2KJ4440 - ■ GJ33 - ■ ■ A1**	
	FD.189-Z69-LEN112MH4E							
	1.7	21 100	848	110 900	0.9	679	**2KJ4442 - ■ GJ32 - ■ ■ G1**	
	2.0	18 100	727	110 900	1.0	679	**2KJ4442 - ■ GJ32 - ■ ■ F1**	
	2.3	15 900	639	110 900	1.2	679	**2KJ4442 - ■ GJ32 - ■ ■ E1**	
	2.7	13 400	539	110 900	1.4	679	**2KJ4442 - ■ GJ32 - ■ ■ D1**	
	3.0	11 900	478	110 900	1.6	679	**2KJ4442 - ■ GJ32 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**FD.189-Z69-LEN112MH4E**							
	3.6	10 000	403	110 900	1.9	679	**2KJ4442 - ■ GJ32 - ■ ■ B1**	
	FD.189-Z69-LEN112MR4P							
	1.7	21 100	848	110 900	0.9	668	**2KJ4442 - ■ GJ33 - ■ ■ G1**	
	2.0	18 100	727	110 900	1.0	668	**2KJ4442 - ■ GJ33 - ■ ■ F1**	
	2.3	15 900	639	110 900	1.2	668	**2KJ4442 - ■ GJ33 - ■ ■ E1**	
	2.7	13 400	539	110 900	1.4	668	**2KJ4442 - ■ GJ33 - ■ ■ D1**	
	3.0	11 900	478	110 900	1.6	668	**2KJ4442 - ■ GJ33 - ■ ■ C1**	
	3.6	10 000	403	110 900	1.9	668	**2KJ4442 - ■ GJ33 - ■ ■ B1**	
5.5	**FZ.49-LEN132SJ4E**							
	89	590	16.47	2 200	0.81	81	**2KJ4303 - ■ HG32 - ■ ■ K1**	
	103	505	14.11	2 400	0.95	81	**2KJ4303 - ■ HG32 - ■ ■ J1**	
	118	445	12.4	2 600	1.1	81	**2KJ4303 - ■ HG32 - ■ ■ H1**	
	140	375	10.46	2 700	1.3	81	**2KJ4303 - ■ HG32 - ■ ■ G1**	
	160	325	9.12	2 800	1.5	81	**2KJ4303 - ■ HG32 - ■ ■ F1**	
	174	300	8.40	2 600	1.5	81	**2KJ4303 - ■ HG32 - ■ ■ E1**	
	203	255	7.20	2 700	1.7	81	**2KJ4303 - ■ HG32 - ■ ■ D1**	
	231	225	6.33	2 700	1.9	81	**2KJ4303 - ■ HG32 - ■ ■ C1**	
	273	192	5.34	2 700	2.1	81	**2KJ4303 - ■ HG32 - ■ ■ B1**	
	314	167	4.65	2 700	2.2	81	**2KJ4303 - ■ HG32 - ■ ■ A1**	
	FZ.49-LEN132SR4P							
	88	595	16.47	2 100	0.81	84	**2KJ4303 - ■ HG33 - ■ ■ K1**	
	103	505	14.11	2 400	0.94	84	**2KJ4303 - ■ HG33 - ■ ■ J1**	
	117	445	12.4	2 600	1.1	84	**2KJ4303 - ■ HG33 - ■ ■ H1**	
	139	375	10.46	2 700	1.3	84	**2KJ4303 - ■ HG33 - ■ ■ G1**	
	160	325	9.12	2 800	1.5	84	**2KJ4303 - ■ HG33 - ■ ■ F1**	
	173	300	8.40	2 600	1.5	84	**2KJ4303 - ■ HG33 - ■ ■ E1**	
	202	260	7.20	2 700	1.7	84	**2KJ4303 - ■ HG33 - ■ ■ D1**	
	230	225	6.33	2 700	1.9	84	**2KJ4303 - ■ HG33 - ■ ■ C1**	
	272	193	5.34	2 700	2.1	84	**2KJ4303 - ■ HG33 - ■ ■ B1**	
	313	168	4.65	2 700	2.2	84	**2KJ4303 - ■ HG33 - ■ ■ A1**	
	FZ.69-LEN132SJ4E							
	72	730	20.37	4 500	0.82	85	**2KJ4304 - ■ HG32 - ■ ■ L1**	
	84	620	17.33	4 700	0.96	85	**2KJ4304 - ■ HG32 - ■ ■ K1**	
	98	530	14.85	4 800	1.1	85	**2KJ4304 - ■ HG32 - ■ ■ J1**	
	112	470	13.06	4 900	1.3	85	**2KJ4304 - ■ HG32 - ■ ■ H1**	
	133	395	11.01	4 900	1.5	85	**2KJ4304 - ■ HG32 - ■ ■ G1**	
	152	345	9.60	4 900	1.7	85	**2KJ4304 - ■ HG32 - ■ ■ F1**	
	164	320	8.90	4 700	1.5	85	**2KJ4304 - ■ HG32 - ■ ■ E1**	
	192	270	7.62	4 700	1.7	85	**2KJ4304 - ■ HG32 - ■ ■ D1**	
	218	240	6.70	4 600	1.8	85	**2KJ4304 - ■ HG32 - ■ ■ C1**	
	258	200	5.66	4 600	2.0	85	**2KJ4304 - ■ HG32 - ■ ■ B1**	
	296	177	4.93	4 400	2.2	85	**2KJ4304 - ■ HG32 - ■ ■ A1**	
	FZ.69-LEN132SR4P							
	71	735	20.37	4 500	0.82	88	**2KJ4304 - ■ HG33 - ■ ■ L1**	
	84	625	17.33	4 700	0.96	88	**2KJ4304 - ■ HG33 - ■ ■ K1**	
	98	535	14.85	4 800	1.1	88	**2KJ4304 - ■ HG33 - ■ ■ J1**	
	111	470	13.06	4 900	1.3	88	**2KJ4304 - ■ HG33 - ■ ■ H1**	
	132	395	11.01	4 900	1.5	88	**2KJ4304 - ■ HG33 - ■ ■ G1**	
	152	345	9.60	4 900	1.7	88	**2KJ4304 - ■ HG33 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**FZ.69-LEN132SR4P**							
	163	320	8.90	4 800	1.5	88	**2KJ4304 - ■ HG33 - ■ ■ E1**	
	191	275	7.62	4 700	1.7	88	**2KJ4304 - ■ HG33 - ■ ■ D1**	
	217	240	6.70	4 700	1.8	88	**2KJ4304 - ■ HG33 - ■ ■ C1**	
	257	200	5.66	4 600	2.0	88	**2KJ4304 - ■ HG33 - ■ ■ B1**	
	295	178	4.93	4 400	2.2	88	**2KJ4304 - ■ HG33 - ■ ■ A1**	
	FZ.79-LEN132SJ4E							
	44	1 180	33.02	13 200	0.84	93	**2KJ4305 - ■ HG32 - ■ ■ S1**	
	53	995	27.71	13 600	1.0	93	**2KJ4305 - ■ HG32 - ■ ■ R1**	
	56	935	26.08	13 700	1.1	93	**2KJ4305 - ■ HG32 - ■ ■ Q1**	
	61	860	23.93	13 800	1.2	93	**2KJ4305 - ■ HG32 - ■ ■ P1**	
	70	750	20.9	14 100	1.3	93	**2KJ4305 - ■ HG32 - ■ ■ N1**	
	78	670	18.71	14 200	1.5	93	**2KJ4305 - ■ HG32 - ■ ■ M1**	
	89	585	16.36	14 400	1.7	93	**2KJ4305 - ■ HG32 - ■ ■ L1**	
	104	505	14.04	14 000	2.0	93	**2KJ4305 - ■ HG32 - ■ ■ K1**	
	118	445	12.41	13 700	2.2	93	**2KJ4305 - ■ HG32 - ■ ■ J1**	
	138	380	10.56	13 300	2.6	93	**2KJ4305 - ■ HG32 - ■ ■ H1**	
	161	325	9.05	12 900	3.1	93	**2KJ4305 - ■ HG32 - ■ ■ G1**	
	172	305	8.51	12 600	2.4	93	**2KJ4305 - ■ HG32 - ■ ■ F1**	
	196	265	7.44	12 300	2.7	93	**2KJ4305 - ■ HG32 - ■ ■ E1**	
	228	230	6.39	11 900	3.1	93	**2KJ4305 - ■ HG32 - ■ ■ D1**	
	259	200	5.64	11 600	3.4	93	**2KJ4305 - ■ HG32 - ■ ■ C1**	
	304	173	4.80	11 100	3.8	93	**2KJ4305 - ■ HG32 - ■ ■ B1**	
	355	148	4.11	10 700	4.1	93	**2KJ4305 - ■ HG32 - ■ ■ A1**	
	FZ.79-LEN132SR4P							
	44	1 190	33.02	13 200	0.84	96	**2KJ4305 - ■ HG33 - ■ ■ S1**	
	53	1 000	27.71	13 600	1.0	96	**2KJ4305 - ■ HG33 - ■ ■ R1**	
	56	940	26.08	13 700	1.1	96	**2KJ4305 - ■ HG33 - ■ ■ Q1**	
	61	860	23.93	13 800	1.2	96	**2KJ4305 - ■ HG33 - ■ ■ P1**	
	70	750	20.9	14 100	1.3	96	**2KJ4305 - ■ HG33 - ■ ■ N1**	
	78	675	18.71	14 200	1.5	96	**2KJ4305 - ■ HG33 - ■ ■ M1**	
	89	590	16.36	14 400	1.7	96	**2KJ4305 - ■ HG33 - ■ ■ L1**	
	104	505	14.04	14 000	2.0	96	**2KJ4305 - ■ HG33 - ■ ■ K1**	
	117	445	12.41	13 700	2.2	96	**2KJ4305 - ■ HG33 - ■ ■ J1**	
	138	380	10.56	13 300	2.6	96	**2KJ4305 - ■ HG33 - ■ ■ H1**	
	161	325	9.05	12 900	3.1	96	**2KJ4305 - ■ HG33 - ■ ■ G1**	
	171	305	8.51	12 600	2.3	96	**2KJ4305 - ■ HG33 - ■ ■ F1**	
	196	265	7.44	12 300	2.7	96	**2KJ4305 - ■ HG33 - ■ ■ E1**	
	228	230	6.39	11 900	3.1	96	**2KJ4305 - ■ HG33 - ■ ■ D1**	
	258	200	5.64	11 600	3.4	96	**2KJ4305 - ■ HG33 - ■ ■ C1**	
	303	173	4.80	11 100	3.8	96	**2KJ4305 - ■ HG33 - ■ ■ B1**	
	354	148	4.11	10 700	4.1	96	**2KJ4305 - ■ HG33 - ■ ■ A1**	
	FD.89-LEN132SJ4E							
	24	2 160	60.09	17 400	0.86	124	**2KJ4406 - ■ HG32 - ■ ■ B1**	
	28	1 850	51.51	17 400	1.0	124	**2KJ4406 - ■ HG32 - ■ ■ A1**	
	FD.89-LEN132SR4P							
	24	2 160	60.09	17 400	0.85	127	**2KJ4406 - ■ HG33 - ■ ■ B1**	
	28	1 850	51.51	17 400	0.99	127	**2KJ4406 - ■ HG33 - ■ ■ A1**	
	FZ.89-LEN132SJ4E							
	34	1 520	42.41	17 400	1.2	123	**2KJ4306 - ■ HG32 - ■ ■ V1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**FZ.89-LEN132SJ4E**							
	41	1 290	35.91	17 400	1.4	123	**2KJ4306 - ■ HG32 - ■ ■ U1**	
	43	1 210	33.8	17 400	1.5	123	**2KJ4306 - ■ HG32 - ■ ■ T1**	
	47	1 120	31.21	17 400	1.6	123	**2KJ4306 - ■ HG32 - ■ ■ S1**	
	53	995	27.77	17 400	1.9	123	**2KJ4306 - ■ HG32 - ■ ■ R1**	
	59	885	24.67	17 400	2.1	123	**2KJ4306 - ■ HG32 - ■ ■ Q1**	
	66	790	22.08	17 400	2.3	123	**2KJ4306 - ■ HG32 - ■ ■ P1**	
	77	675	18.88	17 400	2.7	123	**2KJ4306 - ■ HG32 - ■ ■ N1**	
	87	605	16.86	17 400	3.1	123	**2KJ4306 - ■ HG32 - ■ ■ M1**	
	98	535	14.9	17 400	3.5	123	**2KJ4306 - ■ HG32 - ■ ■ L1**	
	192	270	7.60	17 400	4.0	123	**2KJ4306 - ■ HG32 - ■ ■ F1**	
	FZ.89-LEN132SR4P							
	34	1 530	42.41	17 400	1.2	126	**2KJ4306 - ■ HG33 - ■ ■ V1**	
	41	1 290	35.91	17 400	1.4	126	**2KJ4306 - ■ HG33 - ■ ■ U1**	
	43	1 220	33.8	17 400	1.5	126	**2KJ4306 - ■ HG33 - ■ ■ T1**	
	47	1 120	31.21	17 400	1.6	126	**2KJ4306 - ■ HG33 - ■ ■ S1**	
	52	1 000	27.77	17 400	1.8	126	**2KJ4306 - ■ HG33 - ■ ■ R1**	
	59	890	24.67	17 400	2.1	126	**2KJ4306 - ■ HG33 - ■ ■ Q1**	
	66	795	22.08	17 400	2.3	126	**2KJ4306 - ■ HG33 - ■ ■ P1**	
	77	680	18.88	17 400	2.7	126	**2KJ4306 - ■ HG33 - ■ ■ N1**	
	86	605	16.86	17 400	3.0	126	**2KJ4306 - ■ HG33 - ■ ■ M1**	
	98	535	14.9	17 400	3.4	126	**2KJ4306 - ■ HG33 - ■ ■ L1**	
	191	270	7.60	17 400	4.0	126	**2KJ4306 - ■ HG33 - ■ ■ F1**	
	FD.109-LEN132SJ4E							
	15	3 550	98.94	25 000	0.87	165	**2KJ4407 - ■ HG32 - ■ ■ E1**	
	17	3 120	86.83	25 000	0.99	165	**2KJ4407 - ■ HG32 - ■ ■ D1**	
	19	2 710	75.59	25 000	1.1	165	**2KJ4407 - ■ HG32 - ■ ■ C1**	
	23	2 320	64.62	25 000	1.3	165	**2KJ4407 - ■ HG32 - ■ ■ B1**	
	26	1 990	55.31	25 000	1.6	165	**2KJ4407 - ■ HG32 - ■ ■ A1**	
	FD.109-LEN132SR4P							
	15	3 570	98.94	25 000	0.87	168	**2KJ4407 - ■ HG33 - ■ ■ E1**	
	17	3 130	86.83	25 000	0.99	168	**2KJ4407 - ■ HG33 - ■ ■ D1**	
	19	2 720	75.59	25 000	1.1	168	**2KJ4407 - ■ HG33 - ■ ■ C1**	
	23	2 330	64.62	25 000	1.3	168	**2KJ4407 - ■ HG33 - ■ ■ B1**	
	26	1 990	55.31	25 000	1.6	168	**2KJ4407 - ■ HG33 - ■ ■ A1**	
	FZ.109-LEN132SJ4E							
	24	2 160	60.12	25 000	1.4	161	**2KJ4307 - ■ HG32 - ■ ■ X1**	
	28	1 840	51.27	25 000	1.7	161	**2KJ4307 - ■ HG32 - ■ ■ W1**	
	30	1 730	48.25	25 000	1.8	161	**2KJ4307 - ■ HG32 - ■ ■ V1**	
	33	1 610	44.78	25 000	1.9	161	**2KJ4307 - ■ HG32 - ■ ■ U1**	
	37	1 420	39.59	25 000	2.2	161	**2KJ4307 - ■ HG32 - ■ ■ T1**	
	41	1 270	35.34	25 000	2.4	161	**2KJ4307 - ■ HG32 - ■ ■ S1**	
	46	1 140	31.8	25 000	2.7	161	**2KJ4307 - ■ HG32 - ■ ■ R1**	
	FZ.109-LEN132SR4P							
	24	2 170	60.12	25 000	1.4	164	**2KJ4307 - ■ HG33 - ■ ■ X1**	
	28	1 850	51.27	25 000	1.7	164	**2KJ4307 - ■ HG33 - ■ ■ W1**	
	30	1 740	48.25	25 000	1.8	164	**2KJ4307 - ■ HG33 - ■ ■ V1**	
	32	1 610	44.78	25 000	1.9	164	**2KJ4307 - ■ HG33 - ■ ■ U1**	
	37	1 420	39.59	25 000	2.2	164	**2KJ4307 - ■ HG33 - ■ ■ T1**	
	41	1 270	35.34	25 000	2.4	164	**2KJ4307 - ■ HG33 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**FZ.109-LEN132SR4P**							
	46	1 140	31.8	25 000	2.7	164	**2KJ4307 - ■ HG33 - ■ ■ R1**	
	FD.129-LEN132SJ4E							
	9.1	5 790	161.14	36 200	0.84	219	**2KJ4408 - ■ HG32 - ■ ■ J1**	
	10	5 210	144.92	36 800	0.93	219	**2KJ4408 - ■ HG32 - ■ ■ H1**	
	12	4 550	126.66	37 400	1.1	219	**2KJ4408 - ■ HG32 - ■ ■ G1**	
	13	4 060	113.03	37 500	1.2	219	**2KJ4408 - ■ HG32 - ■ ■ F1**	
	15	3 580	99.58	37 500	1.4	219	**2KJ4408 - ■ HG32 - ■ ■ E1**	
	17	3 130	87.25	37 500	1.5	219	**2KJ4408 - ■ HG32 - ■ ■ D1**	
	19	2 730	76.04	37 500	1.8	219	**2KJ4408 - ■ HG32 - ■ ■ C1**	
	21	2 490	69.4	37 500	1.9	219	**2KJ4408 - ■ HG32 - ■ ■ B1**	
	24	2 150	59.75	37 500	2.3	219	**2KJ4408 - ■ HG32 - ■ ■ A1**	
	FD.129-LEN132SR4P							
	9.0	5 810	161.14	36 200	0.83	222	**2KJ4408 - ■ HG33 - ■ ■ J1**	
	10	5 230	144.92	36 800	0.93	222	**2KJ4408 - ■ HG33 - ■ ■ H1**	
	11	4 570	126.66	37 400	1.1	222	**2KJ4408 - ■ HG33 - ■ ■ G1**	
	13	4 080	113.03	37 500	1.2	222	**2KJ4408 - ■ HG33 - ■ ■ F1**	
	15	3 590	99.58	37 500	1.3	222	**2KJ4408 - ■ HG33 - ■ ■ E1**	
	17	3 150	87.25	37 500	1.5	222	**2KJ4408 - ■ HG33 - ■ ■ D1**	
	19	2 740	76.04	37 500	1.8	222	**2KJ4408 - ■ HG33 - ■ ■ C1**	
	21	2 500	69.4	37 500	1.9	222	**2KJ4408 - ■ HG33 - ■ ■ B1**	
	24	2 150	59.75	37 500	2.2	222	**2KJ4408 - ■ HG33 - ■ ■ A1**	
	FZ.129-LEN132SJ4E							
	21	2 490	69.2	37 500	1.9	214	**2KJ4308 - ■ HG32 - ■ ■ A2**	
	25	2 130	59.22	37 500	2.3	214	**2KJ4308 - ■ HG32 - ■ ■ X1**	
	26	2 000	55.74	37 500	2.4	214	**2KJ4308 - ■ HG32 - ■ ■ W1**	
	FZ.129-LEN132SR4P							
	21	2 490	69.2	37 500	1.9	217	**2KJ4308 - ■ HG33 - ■ ■ A2**	
	25	2 130	59.22	37 500	2.3	217	**2KJ4308 - ■ HG33 - ■ ■ X1**	
	26	2 010	55.74	37 500	2.4	217	**2KJ4308 - ■ HG33 - ■ ■ W1**	
	FD.149-LEN132SJ4E							
	5.8	9 080	252.64	65 000	0.88	305	**2KJ4410 - ■ HG32 - ■ ■ S1**	
	6.5	8 070	224.42	65 000	0.99	305	**2KJ4410 - ■ HG32 - ■ ■ R1**	
	7.2	7 280	202.5	65 000	1.1	305	**2KJ4410 - ■ HG32 - ■ ■ Q1**	
	8.1	6 450	179.44	65 000	1.2	305	**2KJ4410 - ■ HG32 - ■ ■ P1**	
	9.2	5 710	158.91	65 000	1.4	305	**2KJ4410 - ■ HG32 - ■ ■ N1**	
	10	5 080	141.43	65 000	1.6	305	**2KJ4410 - ■ HG32 - ■ ■ M1**	
	12	4 550	126.73	65 000	1.8	305	**2KJ4410 - ■ HG32 - ■ ■ L1**	
	13	4 040	112.36	65 000	2.0	305	**2KJ4410 - ■ HG32 - ■ ■ K1**	
	15	3 560	99.18	65 000	2.2	305	**2KJ4410 - ■ HG32 - ■ ■ J1**	
	FD.149-LEN132SR4P							
	5.8	9 120	252.64	65 000	0.88	308	**2KJ4410 - ■ HG33 - ■ ■ S1**	
	6.5	8 100	224.42	65 000	0.99	308	**2KJ4410 - ■ HG33 - ■ ■ R1**	
	7.2	7 310	202.5	65 000	1.1	308	**2KJ4410 - ■ HG33 - ■ ■ Q1**	
	8.1	6 470	179.44	65 000	1.2	308	**2KJ4410 - ■ HG33 - ■ ■ P1**	
	9.2	5 730	158.91	65 000	1.4	308	**2KJ4410 - ■ HG33 - ■ ■ N1**	
	10	5 100	141.43	65 000	1.6	308	**2KJ4410 - ■ HG33 - ■ ■ M1**	
	11	4 570	126.73	65 000	1.7	308	**2KJ4410 - ■ HG33 - ■ ■ L1**	
	13	4 050	112.36	65 000	2.0	308	**2KJ4410 - ■ HG33 - ■ ■ K1**	
	15	3 580	99.18	65 000	2.2	308	**2KJ4410 - ■ HG33 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**FD.169-LEN132SJ4E**							
	4.0	13 200	368	73 500	1.0	452	**2KJ4411 - ■ HG32 - ■ ■ V1**	
	4.3	12 300	343.01	73 500	1.1	452	**2KJ4411 - ■ HG32 - ■ ■ U1**	
	4.8	10 900	304.94	73 500	1.2	452	**2KJ4411 - ■ HG32 - ■ ■ T1**	
	5.3	9 850	273.8	73 500	1.4	452	**2KJ4411 - ■ HG32 - ■ ■ S1**	
	5.9	8 910	247.84	73 500	1.5	452	**2KJ4411 - ■ HG32 - ■ ■ R1**	
	6.7	7 830	217.7	73 500	1.7	452	**2KJ4411 - ■ HG32 - ■ ■ Q1**	
	7.4	7 090	197.27	73 500	1.9	452	**2KJ4411 - ■ HG32 - ■ ■ P1**	
	FD.169-LEN132SR4P							
	4.0	13 200	368	73 500	1.0	455	**2KJ4411 - ■ HG33 - ■ ■ V1**	
	4.2	12 300	343.01	73 500	1.1	455	**2KJ4411 - ■ HG33 - ■ ■ U1**	
	4.8	11 000	304.94	73 500	1.2	455	**2KJ4411 - ■ HG33 - ■ ■ T1**	
	5.3	9 880	273.8	73 500	1.4	455	**2KJ4411 - ■ HG33 - ■ ■ S1**	
	5.9	8 940	247.84	73 500	1.5	455	**2KJ4411 - ■ HG33 - ■ ■ R1**	
	6.7	7 850	217.7	73 500	1.7	455	**2KJ4411 - ■ HG33 - ■ ■ Q1**	
	7.4	7 120	197.27	73 500	1.9	455	**2KJ4411 - ■ HG33 - ■ ■ P1**	
	8.3	6 340	175.69	73 500	2.1	455	**2KJ4411 - ■ HG33 - ■ ■ N1**	
	FD.189-LEN132SJ4E							
	4.2	12 400	347.35	110 900	1.5	664	**2KJ4412 - ■ HG32 - ■ ■ T1**	
	4.7	11 100	310.76	110 900	1.7	664	**2KJ4412 - ■ HG32 - ■ ■ S1**	
	5.2	10 000	280.27	110 900	1.9	664	**2KJ4412 - ■ HG32 - ■ ■ R1**	
	5.9	8 910	247.71	110 900	2.1	664	**2KJ4412 - ■ HG32 - ■ ■ Q1**	
	FD.189-LEN132SR4P							
	4.2	12 500	347.35	110 900	1.5	667	**2KJ4412 - ■ HG33 - ■ ■ T1**	
	4.7	11 200	310.76	110 900	1.7	667	**2KJ4412 - ■ HG33 - ■ ■ S1**	
	5.2	10 100	280.27	110 900	1.9	667	**2KJ4412 - ■ HG33 - ■ ■ R1**	
	5.9	8 940	247.71	110 900	2.1	667	**2KJ4412 - ■ HG33 - ■ ■ Q1**	
	FD.169-Z69-LEN132SJ4E							
	3.1	16 000	470	73 500	0.85	483	**2KJ4440 - ■ HG32 - ■ ■ B1**	
	3.6	13 900	409	73 500	0.98	483	**2KJ4440 - ■ HG32 - ■ ■ A1**	
	FD.169-Z69-LEN132SR4P							
	3.1	16 000	470	73 500	0.85	486	**2KJ4440 - ■ HG33 - ■ ■ B1**	
	3.6	13 900	409	73 500	0.97	486	**2KJ4440 - ■ HG33 - ■ ■ A1**	
	FD.189-Z69-LEN132SJ4E							
	2.3	21 700	639	110 900	0.87	695	**2KJ4442 - ■ HG32 - ■ ■ E1**	
	2.7	18 300	539	110 900	1.0	695	**2KJ4442 - ■ HG32 - ■ ■ D1**	
	3.1	16 200	478	110 900	1.2	695	**2KJ4442 - ■ HG32 - ■ ■ C1**	
	3.6	13 700	403	110 900	1.4	695	**2KJ4442 - ■ HG32 - ■ ■ B1**	
	4.2	11 900	351	110 900	1.6	695	**2KJ4442 - ■ HG32 - ■ ■ A1**	
	FD.189-Z69-LEN132SR4P							
	2.3	21 800	639	110 900	0.87	698	**2KJ4442 - ■ HG33 - ■ ■ E1**	
	2.7	18 400	539	110 900	1.0	698	**2KJ4442 - ■ HG33 - ■ ■ D1**	
	3.0	16 300	478	110 900	1.2	698	**2KJ4442 - ■ HG33 - ■ ■ C1**	
	3.6	13 700	403	110 900	1.4	698	**2KJ4442 - ■ HG33 - ■ ■ B1**	
	4.1	11 900	351	110 900	1.6	698	**2KJ4442 - ■ HG33 - ■ ■ A1**	
7.5	**FZ.49-LEN132ML4E**							
	140	510	10.46	1 800	0.94	94	**2KJ4303 - ■ HK32 - ■ ■ G1**	
	160	445	9.12	2 000	1.1	94	**2KJ4303 - ■ HK32 - ■ ■ F1**	
	174	410	8.40	1 800	1.1	94	**2KJ4303 - ■ HK32 - ■ ■ E1**	
	203	350	7.20	2 000	1.3	94	**2KJ4303 - ■ HK32 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**FZ.49-LEN132ML4E**							
	231	310	6.33	2 100	1.4	94	**2KJ4303 - ■ HK32 - ■ ■ C1**	
	273	260	5.34	2 200	1.5	94	**2KJ4303 - ■ HK32 - ■ ■ B1**	
	314	225	4.65	2 300	1.6	94	**2KJ4303 - ■ HK32 - ■ ■ A1**	
	FZ.49-LEN132MT4P							
	139	515	10.46	1 800	0.93	84	**2KJ4303 - ■ HJ33 - ■ ■ G1**	
	160	445	9.12	2 000	1.1	84	**2KJ4303 - ■ HJ33 - ■ ■ F1**	
	173	410	8.40	1 800	1.1	84	**2KJ4303 - ■ HJ33 - ■ ■ E1**	
	202	350	7.20	2 000	1.3	84	**2KJ4303 - ■ HJ33 - ■ ■ D1**	
	230	310	6.33	2 100	1.4	84	**2KJ4303 - ■ HJ33 - ■ ■ C1**	
	272	260	5.34	2 200	1.5	84	**2KJ4303 - ■ HJ33 - ■ ■ B1**	
	313	225	4.65	2 300	1.6	84	**2KJ4303 - ■ HJ33 - ■ ■ A1**	
	FZ.69-LEN132ML4E							
	98	725	14.85	3 600	0.82	98	**2KJ4304 - ■ HK32 - ■ ■ J1**	
	112	640	13.06	3 800	0.94	98	**2KJ4304 - ■ HK32 - ■ ■ H1**	
	133	540	11.01	4 000	1.1	98	**2KJ4304 - ■ HK32 - ■ ■ G1**	
	152	470	9.60	4 100	1.3	98	**2KJ4304 - ■ HK32 - ■ ■ F1**	
	164	435	8.90	4 000	1.1	98	**2KJ4304 - ■ HK32 - ■ ■ E1**	
	192	370	7.62	4 100	1.2	98	**2KJ4304 - ■ HK32 - ■ ■ D1**	
	218	325	6.70	4 100	1.3	98	**2KJ4304 - ■ HK32 - ■ ■ C1**	
	258	275	5.66	4 100	1.5	98	**2KJ4304 - ■ HK32 - ■ ■ B1**	
	296	240	4.93	4 000	1.6	98	**2KJ4304 - ■ HK32 - ■ ■ A1**	
	FZ.69-LEN132MT4P							
	98	730	14.85	3 600	0.82	88	**2KJ4304 - ■ HJ33 - ■ ■ J1**	
	111	640	13.06	3 800	0.93	88	**2KJ4304 - ■ HJ33 - ■ ■ H1**	
	132	540	11.01	4 000	1.1	88	**2KJ4304 - ■ HJ33 - ■ ■ G1**	
	152	470	9.60	4 100	1.3	88	**2KJ4304 - ■ HJ33 - ■ ■ F1**	
	163	435	8.90	4 000	1.1	88	**2KJ4304 - ■ HJ33 - ■ ■ E1**	
	191	375	7.62	4 100	1.2	88	**2KJ4304 - ■ HJ33 - ■ ■ D1**	
	217	330	6.70	4 100	1.3	88	**2KJ4304 - ■ HJ33 - ■ ■ C1**	
	257	275	5.66	4 100	1.5	88	**2KJ4304 - ■ HJ33 - ■ ■ B1**	
	295	240	4.93	4 000	1.6	88	**2KJ4304 - ■ HJ33 - ■ ■ A1**	
	FZ.79-LEN132ML4E							
	61	1 170	23.93	13 200	0.85	106	**2KJ4305 - ■ HK32 - ■ ■ P1**	
	70	1 020	20.9	13 400	0.98	106	**2KJ4305 - ■ HK32 - ■ ■ N1**	
	78	915	18.71	13 400	1.1	106	**2KJ4305 - ■ HK32 - ■ ■ M1**	
	89	800	16.36	13 200	1.2	106	**2KJ4305 - ■ HK32 - ■ ■ L1**	
	104	685	14.04	13 100	1.5	106	**2KJ4305 - ■ HK32 - ■ ■ K1**	
	118	605	12.41	12 900	1.6	106	**2KJ4305 - ■ HK32 - ■ ■ J1**	
	138	515	10.56	12 600	1.9	106	**2KJ4305 - ■ HK32 - ■ ■ H1**	
	161	440	9.05	12 300	2.3	106	**2KJ4305 - ■ HK32 - ■ ■ G1**	
	172	415	8.51	12 000	1.7	106	**2KJ4305 - ■ HK32 - ■ ■ F1**	
	196	365	7.44	11 700	2.0	106	**2KJ4305 - ■ HK32 - ■ ■ E1**	
	228	310	6.39	11 400	2.3	106	**2KJ4305 - ■ HK32 - ■ ■ D1**	
	259	275	5.64	11 100	2.5	106	**2KJ4305 - ■ HK32 - ■ ■ C1**	
	304	235	4.80	10 800	2.8	106	**2KJ4305 - ■ HK32 - ■ ■ B1**	
	355	200	4.11	10 400	3.0	106	**2KJ4305 - ■ HK32 - ■ ■ A1**	
	FZ.79-LEN132MT4P							
	61	1 170	23.93	13 200	0.85	96	**2KJ4305 - ■ HJ33 - ■ ■ P1**	
	70	1 020	20.9	13 400	0.97	96	**2KJ4305 - ■ HJ33 - ■ ■ N1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**FZ.79-LEN132MT4P**							
	78	920	18.71	13 400	1.1	96	**2KJ4305 - ■ HJ33 - ■ ■ M1**	
	89	805	16.36	13 200	1.2	96	**2KJ4305 - ■ HJ33 - ■ ■ L1**	
	104	690	14.04	13 100	1.4	96	**2KJ4305 - ■ HJ33 - ■ ■ K1**	
	117	610	12.41	12 900	1.6	96	**2KJ4305 - ■ HJ33 - ■ ■ J1**	
	138	520	10.56	12 600	1.9	96	**2KJ4305 - ■ HJ33 - ■ ■ H1**	
	161	445	9.05	12 300	2.2	96	**2KJ4305 - ■ HJ33 - ■ ■ G1**	
	171	415	8.51	12 000	1.7	96	**2KJ4305 - ■ HJ33 - ■ ■ F1**	
	196	365	7.44	11 700	2.0	96	**2KJ4305 - ■ HJ33 - ■ ■ E1**	
	228	315	6.39	11 400	2.3	96	**2KJ4305 - ■ HJ33 - ■ ■ D1**	
	258	275	5.64	11 100	2.5	96	**2KJ4305 - ■ HJ33 - ■ ■ C1**	
	303	235	4.80	10 800	2.8	96	**2KJ4305 - ■ HJ33 - ■ ■ B1**	
	354	200	4.11	10 400	3.0	96	**2KJ4305 - ■ HJ33 - ■ ■ A1**	
	FZ.89-LEN132ML4E							
	34	2 080	42.41	17 400	0.89	136	**2KJ4306 - ■ HK32 - ■ ■ V1**	
	41	1 760	35.91	17 400	1.1	136	**2KJ4306 - ■ HK32 - ■ ■ U1**	
	43	1 650	33.8	17 400	1.1	136	**2KJ4306 - ■ HK32 - ■ ■ T1**	
	47	1 530	31.21	17 400	1.2	136	**2KJ4306 - ■ HK32 - ■ ■ S1**	
	53	1 360	27.77	17 400	1.4	136	**2KJ4306 - ■ HK32 - ■ ■ R1**	
	59	1 210	24.67	17 400	1.5	136	**2KJ4306 - ■ HK32 - ■ ■ Q1**	
	66	1 080	22.08	17 400	1.7	136	**2KJ4306 - ■ HK32 - ■ ■ P1**	
	77	925	18.88	17 400	2.0	136	**2KJ4306 - ■ HK32 - ■ ■ N1**	
	87	825	16.86	17 400	2.2	136	**2KJ4306 - ■ HK32 - ■ ■ M1**	
	98	730	14.9	17 400	2.5	136	**2KJ4306 - ■ HK32 - ■ ■ L1**	
	112	640	13.07	17 400	2.9	136	**2KJ4306 - ■ HK32 - ■ ■ K1**	
	128	555	11.38	17 400	3.3	136	**2KJ4306 - ■ HK32 - ■ ■ J1**	
	150	475	9.73	17 400	3.9	136	**2KJ4306 - ■ HK32 - ■ ■ H1**	
	192	370	7.60	17 300	3.0	136	**2KJ4306 - ■ HK32 - ■ ■ F1**	
	217	330	6.72	16 800	3.4	136	**2KJ4306 - ■ HK32 - ■ ■ E1**	
	247	285	5.90	16 300	3.8	136	**2KJ4306 - ■ HK32 - ■ ■ D1**	
	285	250	5.13	15 700	4.4	136	**2KJ4306 - ■ HK32 - ■ ■ C1**	
	333	215	4.39	15 100	4.9	136	**2KJ4306 - ■ HK32 - ■ ■ B1**	
	388	184	3.76	14 500	5.3	136	**2KJ4306 - ■ HK32 - ■ ■ A1**	
	FZ.89-LEN132MT4P							
	34	2 080	42.41	17 400	0.89	126	**2KJ4306 - ■ HJ33 - ■ ■ V1**	
	41	1 760	35.91	17 400	1.0	126	**2KJ4306 - ■ HJ33 - ■ ■ U1**	
	43	1 660	33.8	17 400	1.1	126	**2KJ4306 - ■ HJ33 - ■ ■ T1**	
	47	1 530	31.21	17 400	1.2	126	**2KJ4306 - ■ HJ33 - ■ ■ S1**	
	52	1 360	27.77	17 400	1.4	126	**2KJ4306 - ■ HJ33 - ■ ■ R1**	
	59	1 210	24.67	17 400	1.5	126	**2KJ4306 - ■ HJ33 - ■ ■ Q1**	
	66	1 080	22.08	17 400	1.7	126	**2KJ4306 - ■ HJ33 - ■ ■ P1**	
	77	925	18.88	17 400	2.0	126	**2KJ4306 - ■ HJ33 - ■ ■ N1**	
	86	830	16.86	17 400	2.2	126	**2KJ4306 - ■ HJ33 - ■ ■ M1**	
	98	730	14.9	17 400	2.5	126	**2KJ4306 - ■ HJ33 - ■ ■ L1**	
	111	640	13.07	17 400	2.9	126	**2KJ4306 - ■ HJ33 - ■ ■ K1**	
	128	560	11.38	17 400	3.3	126	**2KJ4306 - ■ HJ33 - ■ ■ J1**	
	150	475	9.73	17 400	3.9	126	**2KJ4306 - ■ HJ33 - ■ ■ H1**	
	175	410	8.33	17 400	4.2	126	**2KJ4306 - ■ HJ33 - ■ ■ G1**	
	191	370	7.60	17 300	2.9	126	**2KJ4306 - ■ HJ33 - ■ ■ F1**	
	217	330	6.72	16 800	3.4	126	**2KJ4306 - ■ HJ33 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**FZ.89-LEN132MT4P**							
	247	290	5.90	16 300	3.8	126	**2KJ4306 - ■ HJ33 - ■ ■ D1**	
	284	250	5.13	15 700	4.4	126	**2KJ4306 - ■ HJ33 - ■ ■ C1**	
	331	215	4.39	15 100	4.9	126	**2KJ4306 - ■ HJ33 - ■ ■ B1**	
	387	185	3.76	14 500	5.3	126	**2KJ4306 - ■ HJ33 - ■ ■ A1**	
	FD.109-LEN132ML4E							
	19	3 700	75.59	25 000	0.84	178	**2KJ4407 - ■ HK32 - ■ ■ C1**	
	23	3 170	64.62	25 000	0.98	178	**2KJ4407 - ■ HK32 - ■ ■ B1**	
	26	2 710	55.31	25 000	1.1	178	**2KJ4407 - ■ HK32 - ■ ■ A1**	
	FD.109-LEN132MT4P							
	19	3 720	75.59	25 000	0.83	168	**2KJ4407 - ■ HJ33 - ■ ■ C1**	
	23	3 180	64.62	25 000	0.97	168	**2KJ4407 - ■ HJ33 - ■ ■ B1**	
	26	2 720	55.31	25 000	1.1	168	**2KJ4407 - ■ HJ33 - ■ ■ A1**	
	FZ.109-LEN132ML4E							
	24	2 940	60.12	25 000	1.1	174	**2KJ4307 - ■ HK32 - ■ ■ X1**	
	28	2 510	51.27	25 000	1.2	174	**2KJ4307 - ■ HK32 - ■ ■ W1**	
	30	2 360	48.25	25 000	1.3	174	**2KJ4307 - ■ HK32 - ■ ■ V1**	
	33	2 190	44.78	25 000	1.4	174	**2KJ4307 - ■ HK32 - ■ ■ U1**	
	37	1 940	39.59	25 000	1.6	174	**2KJ4307 - ■ HK32 - ■ ■ T1**	
	41	1 730	35.34	25 000	1.8	174	**2KJ4307 - ■ HK32 - ■ ■ S1**	
	46	1 560	31.8	25 000	2.0	174	**2KJ4307 - ■ HK32 - ■ ■ R1**	
	53	1 350	27.6	25 000	2.3	174	**2KJ4307 - ■ HK32 - ■ ■ Q1**	
	59	1 210	24.82	25 000	2.5	174	**2KJ4307 - ■ HK32 - ■ ■ P1**	
	67	1 060	21.7	25 000	2.9	174	**2KJ4307 - ■ HK32 - ■ ■ N1**	
	FZ.109-LEN132MT4P							
	24	2 960	60.12	25 000	1.0	164	**2KJ4307 - ■ HJ33 - ■ ■ X1**	
	28	2 520	51.27	25 000	1.2	164	**2KJ4307 - ■ HJ33 - ■ ■ W1**	
	30	2 370	48.25	25 000	1.3	164	**2KJ4307 - ■ HJ33 - ■ ■ V1**	
	32	2 200	44.78	25 000	1.4	164	**2KJ4307 - ■ HJ33 - ■ ■ U1**	
	37	1 940	39.59	25 000	1.6	164	**2KJ4307 - ■ HJ33 - ■ ■ T1**	
	41	1 740	35.34	25 000	1.8	164	**2KJ4307 - ■ HJ33 - ■ ■ S1**	
	46	1 560	31.8	25 000	2.0	164	**2KJ4307 - ■ HJ33 - ■ ■ R1**	
	53	1 350	27.6	25 000	2.3	164	**2KJ4307 - ■ HJ33 - ■ ■ Q1**	
	59	1 220	24.82	25 000	2.5	164	**2KJ4307 - ■ HJ33 - ■ ■ P1**	
	67	1 060	21.7	25 000	2.9	164	**2KJ4307 - ■ HJ33 - ■ ■ N1**	
	FD.129-LEN132ML4E							
	13	5 540	113.03	36 500	0.87	232	**2KJ4408 - ■ HK32 - ■ ■ F1**	
	15	4 880	99.58	37 100	0.99	232	**2KJ4408 - ■ HK32 - ■ ■ E1**	
	17	4 280	87.25	37 500	1.1	232	**2KJ4408 - ■ HK32 - ■ ■ D1**	
	19	3 730	76.04	37 500	1.3	232	**2KJ4408 - ■ HK32 - ■ ■ C1**	
	21	3 400	69.4	37 500	1.4	232	**2KJ4408 - ■ HK32 - ■ ■ B1**	
	24	2 930	59.75	37 500	1.7	232	**2KJ4408 - ■ HK32 - ■ ■ A1**	
	FD.129-LEN132MT4P							
	13	5 560	113.03	36 500	0.87	222	**2KJ4408 - ■ HJ33 - ■ ■ F1**	
	15	4 900	99.58	37 100	0.99	222	**2KJ4408 - ■ HJ33 - ■ ■ E1**	
	17	4 290	87.25	37 500	1.1	222	**2KJ4408 - ■ HJ33 - ■ ■ D1**	
	19	3 740	76.04	37 500	1.3	222	**2KJ4408 - ■ HJ33 - ■ ■ C1**	
	21	3 410	69.4	37 500	1.4	222	**2KJ4408 - ■ HJ33 - ■ ■ B1**	
	24	2 940	59.75	37 500	1.6	222	**2KJ4408 - ■ HJ33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**FZ.129-LEN132ML4E**							
	21	3 390	69.2	37 500	1.4	227	**2KJ4308 - ■ HK32 - ■ ■ A2**	
	25	2 900	59.22	37 500	1.7	227	**2KJ4308 - ■ HK32 - ■ ■ X1**	
	26	2 730	55.74	37 500	1.8	227	**2KJ4308 - ■ HK32 - ■ ■ W1**	
	28	2 560	52.25	37 500	1.9	227	**2KJ4308 - ■ HK32 - ■ ■ V1**	
	32	2 270	46.32	37 500	2.1	227	**2KJ4308 - ■ HK32 - ■ ■ U1**	
	35	2 010	41.14	37 500	2.4	227	**2KJ4308 - ■ HK32 - ■ ■ T1**	
	39	1 820	37.12	37 500	2.7	227	**2KJ4308 - ■ HK32 - ■ ■ S1**	
	FZ.129-LEN132MT4P							
	21	3 400	69.2	37 500	1.4	217	**2KJ4308 - ■ HJ33 - ■ ■ A2**	
	25	2 910	59.22	37 500	1.7	217	**2KJ4308 - ■ HJ33 - ■ ■ X1**	
	26	2 740	55.74	37 500	1.8	217	**2KJ4308 - ■ HJ33 - ■ ■ W1**	
	28	2 570	52.25	37 500	1.9	217	**2KJ4308 - ■ HJ33 - ■ ■ V1**	
	31	2 280	46.32	37 500	2.1	217	**2KJ4308 - ■ HJ33 - ■ ■ U1**	
	35	2 020	41.14	37 500	2.4	217	**2KJ4308 - ■ HJ33 - ■ ■ T1**	
	39	1 820	37.12	37 500	2.7	217	**2KJ4308 - ■ HJ33 - ■ ■ S1**	
	FD.149-LEN132ML4E							
	7.2	9 930	202.5	65 000	0.81	318	**2KJ4410 - ■ HK32 - ■ ■ Q1**	
	8.1	8 800	179.44	65 000	0.91	318	**2KJ4410 - ■ HK32 - ■ ■ P1**	
	9.2	7 790	158.91	65 000	1.0	318	**2KJ4410 - ■ HK32 - ■ ■ N1**	
	10	6 930	141.43	65 000	1.2	318	**2KJ4410 - ■ HK32 - ■ ■ M1**	
	12	6 210	126.73	65 000	1.3	318	**2KJ4410 - ■ HK32 - ■ ■ L1**	
	13	5 510	112.36	65 000	1.5	318	**2KJ4410 - ■ HK32 - ■ ■ K1**	
	15	4 860	99.18	65 000	1.6	318	**2KJ4410 - ■ HK32 - ■ ■ J1**	
	17	4 270	87.2	64 000	1.9	318	**2KJ4410 - ■ HK32 - ■ ■ H1**	
	18	3 870	78.98	62 800	2.1	318	**2KJ4410 - ■ HK32 - ■ ■ G1**	
	21	3 370	68.76	61 100	2.4	318	**2KJ4410 - ■ HK32 - ■ ■ F1**	
	FD.149-LEN132MT4P							
	7.2	9 960	202.5	65 000	0.8	308	**2KJ4410 - ■ HJ33 - ■ ■ Q1**	
	8.1	8 830	179.44	65 000	0.91	308	**2KJ4410 - ■ HJ33 - ■ ■ P1**	
	9.2	7 820	158.91	65 000	1.0	308	**2KJ4410 - ■ HJ33 - ■ ■ N1**	
	10	6 960	141.43	65 000	1.1	308	**2KJ4410 - ■ HJ33 - ■ ■ M1**	
	11	6 230	126.73	65 000	1.3	308	**2KJ4410 - ■ HJ33 - ■ ■ L1**	
	13	5 530	112.36	65 000	1.4	308	**2KJ4410 - ■ HJ33 - ■ ■ K1**	
	15	4 880	99.18	65 000	1.6	308	**2KJ4410 - ■ HJ33 - ■ ■ J1**	
	17	4 290	87.2	64 000	1.9	308	**2KJ4410 - ■ HJ33 - ■ ■ H1**	
	18	3 880	78.98	62 900	2.1	308	**2KJ4410 - ■ HJ33 - ■ ■ G1**	
	21	3 380	68.76	61 200	2.4	308	**2KJ4410 - ■ HJ33 - ■ ■ F1**	
	FD.169-LEN132ML4E							
	4.3	16 800	343.01	73 500	0.81	465	**2KJ4411 - ■ HK32 - ■ ■ U1**	
	4.8	14 900	304.94	73 500	0.91	465	**2KJ4411 - ■ HK32 - ■ ■ T1**	
	5.3	13 400	273.8	73 500	1.0	465	**2KJ4411 - ■ HK32 - ■ ■ S1**	
	5.9	12 100	247.84	73 500	1.1	465	**2KJ4411 - ■ HK32 - ■ ■ R1**	
	6.7	10 600	217.7	73 500	1.3	465	**2KJ4411 - ■ HK32 - ■ ■ Q1**	
	7.4	9 670	197.27	73 500	1.4	465	**2KJ4411 - ■ HK32 - ■ ■ P1**	
	8.3	8 610	175.69	73 500	1.6	465	**2KJ4411 - ■ HK32 - ■ ■ N1**	
	9.3	7 730	157.76	73 500	1.8	465	**2KJ4411 - ■ HK32 - ■ ■ M1**	
	10	6 900	140.77	73 500	2.0	465	**2KJ4411 - ■ HK32 - ■ ■ L1**	
	12	6 150	125.49	73 500	2.2	465	**2KJ4411 - ■ HK32 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**FD.169-LEN132MT4P**							
	4.2	16 800	343.01	73 500	0.81	455	**2KJ4411 - ■ HJ33 - ■ ■ U1**	
	4.8	15 000	304.94	73 500	0.91	455	**2KJ4411 - ■ HJ33 - ■ ■ T1**	
	5.3	13 400	273.8	73 500	1.0	455	**2KJ4411 - ■ HJ33 - ■ ■ S1**	
	5.9	12 200	247.84	73 500	1.1	455	**2KJ4411 - ■ HJ33 - ■ ■ R1**	
	6.7	10 700	217.7	73 500	1.3	455	**2KJ4411 - ■ HJ33 - ■ ■ Q1**	
	7.4	9 710	197.27	73 500	1.4	455	**2KJ4411 - ■ HJ33 - ■ ■ P1**	
	8.3	8 640	175.69	73 500	1.6	455	**2KJ4411 - ■ HJ33 - ■ ■ N1**	
	9.2	7 760	157.76	73 500	1.8	455	**2KJ4411 - ■ HJ33 - ■ ■ M1**	
	10	6 930	140.77	73 500	2.0	455	**2KJ4411 - ■ HJ33 - ■ ■ L1**	
	12	6 170	125.49	73 500	2.2	455	**2KJ4411 - ■ HJ33 - ■ ■ K1**	
	FD.189-LEN132ML4E							
	4.2	17 000	347.35	110 900	1.1	677	**2KJ4412 - ■ HK32 - ■ ■ T1**	
	4.7	15 200	310.76	110 900	1.2	677	**2KJ4412 - ■ HK32 - ■ ■ S1**	
	5.2	13 700	280.27	110 900	1.4	677	**2KJ4412 - ■ HK32 - ■ ■ R1**	
	5.9	12 100	247.71	110 900	1.6	677	**2KJ4412 - ■ HK32 - ■ ■ Q1**	
	6.4	11 100	226.42	110 900	1.7	677	**2KJ4412 - ■ HK32 - ■ ■ P1**	
	7.2	9 990	203.69	110 900	1.9	677	**2KJ4412 - ■ HK32 - ■ ■ N1**	
	8.0	8 930	182.03	110 900	2.1	677	**2KJ4412 - ■ HK32 - ■ ■ M1**	
	FD.189-LEN132MT4P							
	4.2	17 000	347.35	110 900	1.1	667	**2KJ4412 - ■ HJ33 - ■ ■ T1**	
	4.7	15 200	310.76	110 900	1.2	667	**2KJ4412 - ■ HJ33 - ■ ■ S1**	
	5.2	13 700	280.27	110 900	1.4	667	**2KJ4412 - ■ HJ33 - ■ ■ R1**	
	5.9	12 100	247.71	110 900	1.6	667	**2KJ4412 - ■ HJ33 - ■ ■ Q1**	
	6.4	11 100	226.42	110 900	1.7	667	**2KJ4412 - ■ HJ33 - ■ ■ P1**	
	7.1	10 000	203.69	110 900	1.9	667	**2KJ4412 - ■ HJ33 - ■ ■ N1**	
	8.0	8 960	182.03	110 900	2.1	667	**2KJ4412 - ■ HJ33 - ■ ■ M1**	
	FD.189-Z69-LEN132ML4E							
	3.1	22 200	478	110 700	0.85	708	**2KJ4442 - ■ HK32 - ■ ■ C1**	
	3.6	18 700	403	110 900	1.0	708	**2KJ4442 - ■ HK32 - ■ ■ B1**	
	4.2	16 300	351	110 900	1.2	708	**2KJ4442 - ■ HK32 - ■ ■ A1**	
	FD.189-Z69-LEN132MT4P							
	3.0	22 300	478	110 700	0.85	698	**2KJ4442 - ■ HJ33 - ■ ■ C1**	
	3.6	18 800	403	110 900	1.0	698	**2KJ4442 - ■ HJ33 - ■ ■ B1**	
	4.1	16 300	351	110 900	1.2	698	**2KJ4442 - ■ HJ33 - ■ ■ A1**	
9.2	**FZ.49-LEN132MS4E**							
	160	550	9.12	1 300	0.87	103	**2KJ4303 - ■ HV32 - ■ ■ F1**	
	173	505	8.40	1 100	0.89	103	**2KJ4303 - ■ HV32 - ■ ■ E1**	
	202	435	7.20	1 400	1.0	103	**2KJ4303 - ■ HV32 - ■ ■ D1**	
	230	380	6.33	1 600	1.1	103	**2KJ4303 - ■ HV32 - ■ ■ C1**	
	272	320	5.34	1 800	1.2	103	**2KJ4303 - ■ HV32 - ■ ■ B1**	
	313	280	4.65	1 900	1.3	103	**2KJ4303 - ■ HV32 - ■ ■ A1**	
	FZ.69-LEN132MS4E							
	132	665	11.01	3 200	0.9	107	**2KJ4304 - ■ HV32 - ■ ■ G1**	
	152	580	9.60	3 400	1.0	107	**2KJ4304 - ■ HV32 - ■ ■ F1**	
	163	535	8.90	3 400	0.88	107	**2KJ4304 - ■ HV32 - ■ ■ E1**	
	191	460	7.62	3 500	1.0	107	**2KJ4304 - ■ HV32 - ■ ■ D1**	
	217	405	6.70	3 600	1.1	107	**2KJ4304 - ■ HV32 - ■ ■ C1**	
	257	340	5.66	3 700	1.2	107	**2KJ4304 - ■ HV32 - ■ ■ B1**	
	295	295	4.93	3 700	1.3	107	**2KJ4304 - ■ HV32 - ■ ■ A1**	

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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**FZ.79-LEN132MS4E**							
	78	1 130	18.71	12 300	0.89	115	**2KJ4305 - ■ HV32 - ■ ■ M1**	
	89	985	16.36	12 300	1.0	115	**2KJ4305 - ■ HV32 - ■ ■ L1**	
	104	845	14.04	12 200	1.2	115	**2KJ4305 - ■ HV32 - ■ ■ K1**	
	117	745	12.41	12 200	1.3	115	**2KJ4305 - ■ HV32 - ■ ■ J1**	
	138	635	10.56	12 000	1.6	115	**2KJ4305 - ■ HV32 - ■ ■ H1**	
	161	545	9.05	11 800	1.8	115	**2KJ4305 - ■ HV32 - ■ ■ G1**	
	171	510	8.51	11 500	1.4	115	**2KJ4305 - ■ HV32 - ■ ■ F1**	
	196	445	7.44	11 300	1.6	115	**2KJ4305 - ■ HV32 - ■ ■ E1**	
	228	385	6.39	11 000	1.9	115	**2KJ4305 - ■ HV32 - ■ ■ D1**	
	258	340	5.64	10 800	2.1	115	**2KJ4305 - ■ HV32 - ■ ■ C1**	
	303	290	4.80	10 500	2.2	115	**2KJ4305 - ■ HV32 - ■ ■ B1**	
	354	245	4.11	10 200	2.4	115	**2KJ4305 - ■ HV32 - ■ ■ A1**	
	FZ.89-LEN132MS4E							
	41	2 160	35.91	17 400	0.85	145	**2KJ4306 - ■ HV32 - ■ ■ U1**	
	43	2 040	33.8	17 400	0.91	145	**2KJ4306 - ■ HV32 - ■ ■ T1**	
	47	1 880	31.21	17 400	0.98	145	**2KJ4306 - ■ HV32 - ■ ■ S1**	
	52	1 670	27.77	17 400	1.1	145	**2KJ4306 - ■ HV32 - ■ ■ R1**	
	59	1 490	24.67	17 400	1.2	145	**2KJ4306 - ■ HV32 - ■ ■ Q1**	
	66	1 330	22.08	17 400	1.4	145	**2KJ4306 - ■ HV32 - ■ ■ P1**	
	77	1 140	18.88	17 400	1.6	145	**2KJ4306 - ■ HV32 - ■ ■ N1**	
	86	1 010	16.86	17 400	1.8	145	**2KJ4306 - ■ HV32 - ■ ■ M1**	
	98	900	14.9	17 400	2.1	145	**2KJ4306 - ■ HV32 - ■ ■ L1**	
	111	785	13.07	17 400	2.3	145	**2KJ4306 - ■ HV32 - ■ ■ K1**	
	128	685	11.38	17 400	2.7	145	**2KJ4306 - ■ HV32 - ■ ■ J1**	
	150	585	9.73	17 400	3.1	145	**2KJ4306 - ■ HV32 - ■ ■ H1**	
	175	500	8.33	17 400	3.5	145	**2KJ4306 - ■ HV32 - ■ ■ G1**	
	191	455	7.60	16 900	2.4	145	**2KJ4306 - ■ HV32 - ■ ■ F1**	
	217	405	6.72	16 500	2.7	145	**2KJ4306 - ■ HV32 - ■ ■ E1**	
	247	355	5.90	16 000	3.1	145	**2KJ4306 - ■ HV32 - ■ ■ D1**	
	284	310	5.13	15 500	3.6	145	**2KJ4306 - ■ HV32 - ■ ■ C1**	
	331	265	4.39	14 900	4.0	145	**2KJ4306 - ■ HV32 - ■ ■ B1**	
	387	225	3.76	14 300	4.3	145	**2KJ4306 - ■ HV32 - ■ ■ A1**	
	FZ.79-LEN160MRA4P							
	78	1 130	18.71	12 300	0.89	114	**2KJ4305 - ■ JQ33 - ■ ■ M1**	
	89	985	16.36	12 300	1.0	114	**2KJ4305 - ■ JQ33 - ■ ■ L1**	
	104	845	14.04	12 200	1.2	114	**2KJ4305 - ■ JQ33 - ■ ■ K1**	
	117	745	12.41	12 200	1.3	114	**2KJ4305 - ■ JQ33 - ■ ■ J1**	
	138	635	10.56	12 000	1.6	114	**2KJ4305 - ■ JQ33 - ■ ■ H1**	
	161	545	9.05	11 800	1.8	114	**2KJ4305 - ■ JQ33 - ■ ■ G1**	
	171	510	8.51	11 500	1.4	114	**2KJ4305 - ■ JQ33 - ■ ■ F1**	
	196	445	7.44	11 300	1.6	114	**2KJ4305 - ■ JQ33 - ■ ■ E1**	
	228	385	6.39	11 000	1.9	114	**2KJ4305 - ■ JQ33 - ■ ■ D1**	
	258	340	5.64	10 800	2.1	114	**2KJ4305 - ■ JQ33 - ■ ■ C1**	
	303	290	4.80	10 500	2.2	114	**2KJ4305 - ■ JQ33 - ■ ■ B1**	
	354	245	4.11	10 200	2.4	114	**2KJ4305 - ■ JQ33 - ■ ■ A1**	
	FZ.89-LEN160MRA4P							
	41	2 160	35.91	17 400	0.85	145	**2KJ4306 - ■ JQ33 - ■ ■ U1**	
	43	2 040	33.8	17 400	0.91	145	**2KJ4306 - ■ JQ33 - ■ ■ T1**	
	47	1 880	31.21	17 400	0.98	145	**2KJ4306 - ■ JQ33 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**FZ.89-LEN160MRA4P**							
	52	1 670	27.77	17 400	1.1	145	**2KJ4306 - ■ JQ33 - ■ ■ R1**	
	59	1 490	24.67	17 400	1.2	145	**2KJ4306 - ■ JQ33 - ■ ■ Q1**	
	66	1 330	22.08	17 400	1.4	145	**2KJ4306 - ■ JQ33 - ■ ■ P1**	
	77	1 140	18.88	17 400	1.6	145	**2KJ4306 - ■ JQ33 - ■ ■ N1**	
	86	1 010	16.86	17 400	1.8	145	**2KJ4306 - ■ JQ33 - ■ ■ M1**	
	98	900	14.9	17 400	2.1	145	**2KJ4306 - ■ JQ33 - ■ ■ L1**	
	111	785	13.07	17 400	2.3	145	**2KJ4306 - ■ JQ33 - ■ ■ K1**	
	128	685	11.38	17 400	2.7	145	**2KJ4306 - ■ JQ33 - ■ ■ J1**	
	150	585	9.73	17 400	3.1	145	**2KJ4306 - ■ JQ33 - ■ ■ H1**	
	175	500	8.33	17 400	3.5	145	**2KJ4306 - ■ JQ33 - ■ ■ G1**	
	191	455	7.60	16 900	2.4	145	**2KJ4306 - ■ JQ33 - ■ ■ F1**	
	217	405	6.72	16 500	2.7	145	**2KJ4306 - ■ JQ33 - ■ ■ E1**	
	247	355	5.90	16 000	3.1	145	**2KJ4306 - ■ JQ33 - ■ ■ D1**	
	284	310	5.13	15 500	3.6	145	**2KJ4306 - ■ JQ33 - ■ ■ C1**	
	331	265	4.39	14 900	4.0	145	**2KJ4306 - ■ JQ33 - ■ ■ B1**	
	387	225	3.76	14 300	4.3	145	**2KJ4306 - ■ JQ33 - ■ ■ A1**	
	FD.109-LEN132MS4E							
	26	3 340	55.31	25 000	0.93	187	**2KJ4407 - ■ HV32 - ■ ■ A1**	
	FZ.109-LEN132MS4E							
	24	3 630	60.12	25 000	0.85	183	**2KJ4307 - ■ HV32 - ■ ■ X1**	
	28	3 090	51.27	25 000	1.0	183	**2KJ4307 - ■ HV32 - ■ ■ W1**	
	30	2 910	48.25	25 000	1.1	183	**2KJ4307 - ■ HV32 - ■ ■ V1**	
	32	2 700	44.78	25 000	1.1	183	**2KJ4307 - ■ HV32 - ■ ■ U1**	
	37	2 390	39.59	25 000	1.3	183	**2KJ4307 - ■ HV32 - ■ ■ T1**	
	41	2 130	35.34	25 000	1.5	183	**2KJ4307 - ■ HV32 - ■ ■ S1**	
	46	1 920	31.8	25 000	1.6	183	**2KJ4307 - ■ HV32 - ■ ■ R1**	
	53	1 660	27.6	25 000	1.9	183	**2KJ4307 - ■ HV32 - ■ ■ Q1**	
	59	1 490	24.82	25 000	2.1	183	**2KJ4307 - ■ HV32 - ■ ■ P1**	
	67	1 310	21.7	25 000	2.4	183	**2KJ4307 - ■ HV32 - ■ ■ N1**	
	75	1 160	19.36	25 000	2.7	183	**2KJ4307 - ■ HV32 - ■ ■ M1**	
	85	1 030	17.06	24 600	3.0	183	**2KJ4307 - ■ HV32 - ■ ■ L1**	
	97	900	14.95	23 900	3.4	183	**2KJ4307 - ■ HV32 - ■ ■ K1**	
	161	545	9.02	21 300	3.8	183	**2KJ4307 - ■ HV32 - ■ ■ F1**	
	183	475	7.94	20 600	4.2	183	**2KJ4307 - ■ HV32 - ■ ■ E1**	
	209	420	6.96	20 000	4.5	183	**2KJ4307 - ■ HV32 - ■ ■ D1**	
	FD.129-LEN132MS4E							
	15	6 010	99.58	36 000	0.81	241	**2KJ4408 - ■ HV32 - ■ ■ E1**	
	17	5 260	87.25	36 800	0.92	241	**2KJ4408 - ■ HV32 - ■ ■ D1**	
	19	4 590	76.04	37 400	1.1	241	**2KJ4408 - ■ HV32 - ■ ■ C1**	
	21	4 190	69.4	37 500	1.2	241	**2KJ4408 - ■ HV32 - ■ ■ B1**	
	24	3 600	59.75	37 500	1.3	241	**2KJ4408 - ■ HV32 - ■ ■ A1**	
	FZ.129-LEN132MS4E							
	21	4 170	69.2	37 500	1.2	236	**2KJ4308 - ■ HV32 - ■ ■ A2**	
	25	3 570	59.22	37 500	1.4	236	**2KJ4308 - ■ HV32 - ■ ■ X1**	
	26	3 360	55.74	37 500	1.4	236	**2KJ4308 - ■ HV32 - ■ ■ W1**	
	28	3 150	52.25	37 500	1.5	236	**2KJ4308 - ■ HV32 - ■ ■ V1**	
	31	2 790	46.32	37 500	1.7	236	**2KJ4308 - ■ HV32 - ■ ■ U1**	
	35	2 480	41.14	37 500	2.0	236	**2KJ4308 - ■ HV32 - ■ ■ T1**	
	39	2 240	37.12	37 500	2.2	236	**2KJ4308 - ■ HV32 - ■ ■ S1**	

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Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**FZ.129-LEN132MS4E**							
	44	1 980	32.9	37 500	2.4	236	**2KJ4308 - ■ HV32 - ■ ■ R1**	
	50	1 750	29.13	37 200	2.8	236	**2KJ4308 - ■ HV32 - ■ ■ Q1**	
	FD.149-LEN132MS4E							
	9.2	9 590	158.91	65 000	0.83	327	**2KJ4410 - ■ HV32 - ■ ■ N1**	
	10	8 540	141.43	65 000	0.94	327	**2KJ4410 - ■ HV32 - ■ ■ M1**	
	11	7 650	126.73	64 500	1.0	327	**2KJ4410 - ■ HV32 - ■ ■ L1**	
	13	6 780	112.36	63 700	1.2	327	**2KJ4410 - ■ HV32 - ■ ■ K1**	
	15	5 980	99.18	62 800	1.3	327	**2KJ4410 - ■ HV32 - ■ ■ J1**	
	17	5 260	87.2	61 600	1.5	327	**2KJ4410 - ■ HV32 - ■ ■ H1**	
	18	4 760	78.98	60 700	1.7	327	**2KJ4410 - ■ HV32 - ■ ■ G1**	
	21	4 150	68.76	59 200	1.9	327	**2KJ4410 - ■ HV32 - ■ ■ F1**	
	26	3 400	56.37	57 100	2.4	327	**2KJ4410 - ■ HV32 - ■ ■ E1**	
	FD.169-LEN132MS4E							
	5.3	16 500	273.8	73 500	0.82	474	**2KJ4411 - ■ HV32 - ■ ■ S1**	
	5.9	14 900	247.84	73 500	0.91	474	**2KJ4411 - ■ HV32 - ■ ■ R1**	
	6.7	13 100	217.7	73 500	1.0	474	**2KJ4411 - ■ HV32 - ■ ■ Q1**	
	7.4	11 900	197.27	73 500	1.1	474	**2KJ4411 - ■ HV32 - ■ ■ P1**	
	8.3	10 600	175.69	73 500	1.3	474	**2KJ4411 - ■ HV32 - ■ ■ N1**	
	9.2	9 520	157.76	73 500	1.4	474	**2KJ4411 - ■ HV32 - ■ ■ M1**	
	10	8 500	140.77	73 500	1.6	474	**2KJ4411 - ■ HV32 - ■ ■ L1**	
	12	7 570	125.49	73 500	1.8	474	**2KJ4411 - ■ HV32 - ■ ■ K1**	
	13	6 720	111.3	73 500	2.0	474	**2KJ4411 - ■ HV32 - ■ ■ J1**	
	14	6 170	102.18	73 500	2.2	474	**2KJ4411 - ■ HV32 - ■ ■ H1**	
	FD.189-LEN132MS4E							
	4.2	20 900	347.35	110 900	0.91	686	**2KJ4412 - ■ HV32 - ■ ■ T1**	
	4.7	18 700	310.76	110 900	1.0	686	**2KJ4412 - ■ HV32 - ■ ■ S1**	
	5.2	16 900	280.27	110 900	1.1	686	**2KJ4412 - ■ HV32 - ■ ■ R1**	
	5.9	14 900	247.71	110 900	1.3	686	**2KJ4412 - ■ HV32 - ■ ■ Q1**	
	6.4	13 600	226.42	110 900	1.4	686	**2KJ4412 - ■ HV32 - ■ ■ P1**	
	7.1	12 300	203.69	110 900	1.5	686	**2KJ4412 - ■ HV32 - ■ ■ N1**	
	8.0	10 900	182.03	110 900	1.7	686	**2KJ4412 - ■ HV32 - ■ ■ M1**	
	8.8	9 940	164.61	110 900	1.9	686	**2KJ4412 - ■ HV32 - ■ ■ L1**	
	10	8 770	145.28	110 900	2.2	686	**2KJ4412 - ■ HV32 - ■ ■ K1**	
	FD.109-LEN160MRA4P							
	26	3 340	55.31	25 000	0.93	185	**2KJ4407 - ■ JQ33 - ■ ■ A1**	
	FZ.109-LEN160MRA4P							
	24	3 630	60.12	25 000	0.85	182	**2KJ4307 - ■ JQ33 - ■ ■ X1**	
	28	3 090	51.27	25 000	1.0	182	**2KJ4307 - ■ JQ33 - ■ ■ W1**	
	30	2 910	48.25	25 000	1.1	182	**2KJ4307 - ■ JQ33 - ■ ■ V1**	
	32	2 700	44.78	25 000	1.1	182	**2KJ4307 - ■ JQ33 - ■ ■ U1**	
	37	2 390	39.59	25 000	1.3	182	**2KJ4307 - ■ JQ33 - ■ ■ T1**	
	41	2 130	35.34	25 000	1.5	182	**2KJ4307 - ■ JQ33 - ■ ■ S1**	
	46	1 920	31.8	25 000	1.6	182	**2KJ4307 - ■ JQ33 - ■ ■ R1**	
	53	1 660	27.6	25 000	1.9	182	**2KJ4307 - ■ JQ33 - ■ ■ Q1**	
	59	1 490	24.82	25 000	2.1	182	**2KJ4307 - ■ JQ33 - ■ ■ P1**	
	67	1 310	21.7	25 000	2.4	182	**2KJ4307 - ■ JQ33 - ■ ■ N1**	
	75	1 160	19.36	25 000	2.7	182	**2KJ4307 - ■ JQ33 - ■ ■ M1**	
	85	1 030	17.06	24 600	3.0	182	**2KJ4307 - ■ JQ33 - ■ ■ L1**	
	97	900	14.95	23 900	3.4	182	**2KJ4307 - ■ JQ33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**FZ.109-LEN160MRA4P**							
	161	545	9.02	21 300	3.8	182	**2KJ4307 - ■ JQ33 - ■ ■ F1**	
	183	475	7.94	20 600	4.2	182	**2KJ4307 - ■ JQ33 - ■ ■ E1**	
	209	420	6.96	20 000	4.5	182	**2KJ4307 - ■ JQ33 - ■ ■ D1**	
	FD.129-LEN160MRA4P							
	15	6 010	99.58	36 000	0.81	239	**2KJ4408 - ■ JQ33 - ■ ■ E1**	
	17	5 260	87.25	36 800	0.92	239	**2KJ4408 - ■ JQ33 - ■ ■ D1**	
	19	4 590	76.04	37 400	1.1	239	**2KJ4408 - ■ JQ33 - ■ ■ C1**	
	21	4 190	69.4	37 500	1.2	239	**2KJ4408 - ■ JQ33 - ■ ■ B1**	
	24	3 600	59.75	37 500	1.3	239	**2KJ4408 - ■ JQ33 - ■ ■ A1**	
	FZ.129-LEN160MRA4P							
	21	4 170	69.2	37 500	1.2	234	**2KJ4308 - ■ JQ33 - ■ ■ A2**	
	25	3 570	59.22	37 500	1.4	234	**2KJ4308 - ■ JQ33 - ■ ■ X1**	
	26	3 360	55.74	37 500	1.4	234	**2KJ4308 - ■ JQ33 - ■ ■ W1**	
	28	3 150	52.25	37 500	1.5	234	**2KJ4308 - ■ JQ33 - ■ ■ V1**	
	31	2 790	46.32	37 500	1.7	234	**2KJ4308 - ■ JQ33 - ■ ■ U1**	
	35	2 480	41.14	37 500	2.0	234	**2KJ4308 - ■ JQ33 - ■ ■ T1**	
	39	2 240	37.12	37 500	2.2	234	**2KJ4308 - ■ JQ33 - ■ ■ S1**	
	44	1 980	32.9	37 500	2.4	234	**2KJ4308 - ■ JQ33 - ■ ■ R1**	
	50	1 750	29.13	37 200	2.8	234	**2KJ4308 - ■ JQ33 - ■ ■ Q1**	
	FD.149-LEN160MRA4P							
	9.2	9 590	158.91	65 000	0.83	325	**2KJ4410 - ■ JQ33 - ■ ■ N1**	
	10	8 540	141.43	65 000	0.94	325	**2KJ4410 - ■ JQ33 - ■ ■ M1**	
	11	7 650	126.73	64 500	1.0	325	**2KJ4410 - ■ JQ33 - ■ ■ L1**	
	13	6 780	112.36	63 700	1.2	325	**2KJ4410 - ■ JQ33 - ■ ■ K1**	
	15	5 980	99.18	62 800	1.3	325	**2KJ4410 - ■ JQ33 - ■ ■ J1**	
	17	5 260	87.2	61 600	1.5	325	**2KJ4410 - ■ JQ33 - ■ ■ H1**	
	18	4 760	78.98	60 700	1.7	325	**2KJ4410 - ■ JQ33 - ■ ■ G1**	
	21	4 150	68.76	59 200	1.9	325	**2KJ4410 - ■ JQ33 - ■ ■ F1**	
	26	3 400	56.37	57 100	2.4	325	**2KJ4410 - ■ JQ33 - ■ ■ E1**	
	FD.169-LEN160MRA4P							
	5.3	16 500	273.8	73 500	0.82	472	**2KJ4411 - ■ JQ33 - ■ ■ S1**	
	5.9	14 900	247.84	73 500	0.91	472	**2KJ4411 - ■ JQ33 - ■ ■ R1**	
	6.7	13 100	217.7	73 500	1.0	472	**2KJ4411 - ■ JQ33 - ■ ■ Q1**	
	7.4	11 900	197.27	73 500	1.1	472	**2KJ4411 - ■ JQ33 - ■ ■ P1**	
	8.3	10 600	175.69	73 500	1.3	472	**2KJ4411 - ■ JQ33 - ■ ■ N1**	
	9.2	9 520	157.76	73 500	1.4	472	**2KJ4411 - ■ JQ33 - ■ ■ M1**	
	10	8 500	140.77	73 500	1.6	472	**2KJ4411 - ■ JQ33 - ■ ■ L1**	
	12	7 570	125.49	73 500	1.8	472	**2KJ4411 - ■ JQ33 - ■ ■ K1**	
	13	6 720	111.3	73 500	2.0	472	**2KJ4411 - ■ JQ33 - ■ ■ J1**	
	14	6 170	102.18	73 500	2.2	472	**2KJ4411 - ■ JQ33 - ■ ■ H1**	
	FD.189-LEN160MRA4P							
	4.2	20 900	347.35	110 900	0.91	684	**2KJ4412 - ■ JQ33 - ■ ■ T1**	
	4.7	18 700	310.76	110 900	1.0	684	**2KJ4412 - ■ JQ33 - ■ ■ S1**	
	5.2	16 900	280.27	110 900	1.1	684	**2KJ4412 - ■ JQ33 - ■ ■ R1**	
	5.9	14 900	247.71	110 900	1.3	684	**2KJ4412 - ■ JQ33 - ■ ■ Q1**	
	6.4	13 600	226.42	110 900	1.4	684	**2KJ4412 - ■ JQ33 - ■ ■ P1**	
	7.1	12 300	203.69	110 900	1.5	684	**2KJ4412 - ■ JQ33 - ■ ■ N1**	
	8.0	10 900	182.03	110 900	1.7	684	**2KJ4412 - ■ JQ33 - ■ ■ M1**	
	8.8	9 940	164.61	110 900	1.9	684	**2KJ4412 - ■ JQ33 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**FD.189-LEN160MRA4P**							
	10	8 770	145.28	110 900	2.2	684	**2KJ4412 - ■ JQ33 - ■ ■ K1**	
	FD.189-Z69-LEN132MS4E							
	3.6	23 000	403	110 300	0.82	717	**2KJ4442 - ■ HV32 - ■ ■ B1**	
	4.1	20 100	351	110 900	0.95	717	**2KJ4442 - ■ HV32 - ■ ■ A1**	
11	**FZ.79-LEN160MJ4E**							
	90	1 170	16.36	11 300	0.85	137	**2KJ4305 - ■ JP32 - ■ ■ L1**	
	104	1 000	14.04	11 400	0.99	137	**2KJ4305 - ■ JP32 - ■ ■ K1**	
	118	890	12.41	11 400	1.1	137	**2KJ4305 - ■ JP32 - ■ ■ J1**	
	139	755	10.56	11 300	1.3	137	**2KJ4305 - ■ JP32 - ■ ■ H1**	
	162	645	9.05	11 200	1.5	137	**2KJ4305 - ■ JP32 - ■ ■ G1**	
	172	610	8.51	10 900	1.2	137	**2KJ4305 - ■ JP32 - ■ ■ F1**	
	197	530	7.44	10 800	1.4	137	**2KJ4305 - ■ JP32 - ■ ■ E1**	
	229	455	6.39	10 600	1.6	137	**2KJ4305 - ■ JP32 - ■ ■ D1**	
	260	400	5.64	10 400	1.7	137	**2KJ4305 - ■ JP32 - ■ ■ C1**	
	305	340	4.80	10 200	1.9	137	**2KJ4305 - ■ JP32 - ■ ■ B1**	
	356	295	4.11	9 900	2.1	137	**2KJ4305 - ■ JP32 - ■ ■ A1**	
	FZ.89-LEN160MJ4E							
	47	2 230	31.21	17 400	0.83	168	**2KJ4306 - ■ JP32 - ■ ■ S1**	
	53	1 990	27.77	17 400	0.93	168	**2KJ4306 - ■ JP32 - ■ ■ R1**	
	59	1 760	24.67	17 400	1.0	168	**2KJ4306 - ■ JP32 - ■ ■ Q1**	
	66	1 580	22.08	17 400	1.2	168	**2KJ4306 - ■ JP32 - ■ ■ P1**	
	78	1 350	18.88	17 400	1.4	168	**2KJ4306 - ■ JP32 - ■ ■ N1**	
	87	1 200	16.86	17 400	1.5	168	**2KJ4306 - ■ JP32 - ■ ■ M1**	
	98	1 060	14.9	17 400	1.7	168	**2KJ4306 - ■ JP32 - ■ ■ L1**	
	112	935	13.07	17 400	2.0	168	**2KJ4306 - ■ JP32 - ■ ■ K1**	
	129	815	11.38	17 400	2.3	168	**2KJ4306 - ■ JP32 - ■ ■ J1**	
	151	695	9.73	17 400	2.7	168	**2KJ4306 - ■ JP32 - ■ ■ H1**	
	176	595	8.33	16 900	2.9	168	**2KJ4306 - ■ JP32 - ■ ■ G1**	
	193	545	7.60	16 500	2.0	168	**2KJ4306 - ■ JP32 - ■ ■ F1**	
	218	480	6.72	16 100	2.3	168	**2KJ4306 - ■ JP32 - ■ ■ E1**	
	248	420	5.90	15 700	2.6	168	**2KJ4306 - ■ JP32 - ■ ■ D1**	
	286	365	5.13	15 200	3.0	168	**2KJ4306 - ■ JP32 - ■ ■ C1**	
	334	315	4.39	14 600	3.4	168	**2KJ4306 - ■ JP32 - ■ ■ B1**	
	390	270	3.76	14 100	3.7	168	**2KJ4306 - ■ JP32 - ■ ■ A1**	
	FZ.79-LEN160MRB4P							
	89	1 170	16.36	11 300	0.85	106	**2KJ4305 - ■ JR33 - ■ ■ L1**	
	104	1 010	14.04	11 400	0.99	106	**2KJ4305 - ■ JR33 - ■ ■ K1**	
	118	890	12.41	11 400	1.1	106	**2KJ4305 - ■ JR33 - ■ ■ J1**	
	138	760	10.56	11 300	1.3	106	**2KJ4305 - ■ JR33 - ■ ■ H1**	
	161	650	9.05	11 200	1.5	106	**2KJ4305 - ■ JR33 - ■ ■ G1**	
	172	610	8.51	10 900	1.2	106	**2KJ4305 - ■ JR33 - ■ ■ F1**	
	196	535	7.44	10 800	1.4	106	**2KJ4305 - ■ JR33 - ■ ■ E1**	
	228	460	6.39	10 600	1.6	106	**2KJ4305 - ■ JR33 - ■ ■ D1**	
	259	405	5.64	10 400	1.7	106	**2KJ4305 - ■ JR33 - ■ ■ C1**	
	304	345	4.80	10 100	1.9	106	**2KJ4305 - ■ JR33 - ■ ■ B1**	
	355	295	4.11	9 900	2.0	106	**2KJ4305 - ■ JR33 - ■ ■ A1**	
	FZ.89-LEN160MRB4P							
	47	2 240	31.21	17 400	0.82	137	**2KJ4306 - ■ JR33 - ■ ■ S1**	
	53	1 990	27.77	17 400	0.93	137	**2KJ4306 - ■ JR33 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**FZ.89-LEN160MRB4P**							
	59	1 770	24.67	17 400	1.0	137	**2KJ4306 - ■ JR33 - ■ ■ Q1**	
	66	1 580	22.08	17 400	1.2	137	**2KJ4306 - ■ JR33 - ■ ■ P1**	
	77	1 350	18.88	17 400	1.4	137	**2KJ4306 - ■ JR33 - ■ ■ N1**	
	87	1 210	16.86	17 400	1.5	137	**2KJ4306 - ■ JR33 - ■ ■ M1**	
	98	1 070	14.9	17 400	1.7	137	**2KJ4306 - ■ JR33 - ■ ■ L1**	
	112	940	13.07	17 400	2.0	137	**2KJ4306 - ■ JR33 - ■ ■ K1**	
	128	815	11.38	17 400	2.3	137	**2KJ4306 - ■ JR33 - ■ ■ J1**	
	150	700	9.73	17 400	2.6	137	**2KJ4306 - ■ JR33 - ■ ■ H1**	
	175	595	8.33	17 000	2.9	137	**2KJ4306 - ■ JR33 - ■ ■ G1**	
	192	545	7.60	16 500	2.0	137	**2KJ4306 - ■ JR33 - ■ ■ F1**	
	217	480	6.72	16 100	2.3	137	**2KJ4306 - ■ JR33 - ■ ■ E1**	
	247	425	5.90	15 600	2.6	137	**2KJ4306 - ■ JR33 - ■ ■ D1**	
	285	365	5.13	15 200	3.0	137	**2KJ4306 - ■ JR33 - ■ ■ C1**	
	333	315	4.39	14 600	3.4	137	**2KJ4306 - ■ JR33 - ■ ■ B1**	
	388	270	3.76	14 100	3.6	137	**2KJ4306 - ■ JR33 - ■ ■ A1**	
	FZ.109-LEN160MJ4E							
	29	3 670	51.27	25 000	0.84	205	**2KJ4307 - ■ JP32 - ■ ■ W1**	
	30	3 460	48.25	25 000	0.9	205	**2KJ4307 - ■ JP32 - ■ ■ V1**	
	33	3 210	44.78	25 000	0.97	205	**2KJ4307 - ■ JP32 - ■ ■ U1**	
	37	2 830	39.59	25 000	1.1	205	**2KJ4307 - ■ JP32 - ■ ■ T1**	
	41	2 530	35.34	25 000	1.2	205	**2KJ4307 - ■ JP32 - ■ ■ S1**	
	46	2 280	31.8	25 000	1.4	205	**2KJ4307 - ■ JP32 - ■ ■ R1**	
	53	1 970	27.6	25 000	1.6	205	**2KJ4307 - ■ JP32 - ■ ■ Q1**	
	59	1 780	24.82	25 000	1.7	205	**2KJ4307 - ■ JP32 - ■ ■ P1**	
	68	1 550	21.7	24 900	2.0	205	**2KJ4307 - ■ JP32 - ■ ■ N1**	
	76	1 380	19.36	24 500	2.2	205	**2KJ4307 - ■ JP32 - ■ ■ M1**	
	86	1 220	17.06	23 900	2.5	205	**2KJ4307 - ■ JP32 - ■ ■ L1**	
	98	1 070	14.95	23 300	2.9	205	**2KJ4307 - ■ JP32 - ■ ■ K1**	
	112	930	13.03	22 700	3.3	205	**2KJ4307 - ■ JP32 - ■ ■ J1**	
	123	850	11.89	22 300	3.6	205	**2KJ4307 - ■ JP32 - ■ ■ H1**	
	143	730	10.23	21 600	3.9	205	**2KJ4307 - ■ JP32 - ■ ■ G1**	
	162	645	9.02	20 900	3.2	205	**2KJ4307 - ■ JP32 - ■ ■ F1**	
	185	565	7.94	20 300	3.5	205	**2KJ4307 - ■ JP32 - ■ ■ E1**	
	210	495	6.96	19 700	3.8	205	**2KJ4307 - ■ JP32 - ■ ■ D1**	
	241	435	6.07	19 000	4.1	205	**2KJ4307 - ■ JP32 - ■ ■ C1**	
	264	395	5.54	18 600	4.4	205	**2KJ4307 - ■ JP32 - ■ ■ B1**	
	307	340	4.77	17 900	4.7	205	**2KJ4307 - ■ JP32 - ■ ■ A1**	
	FD.129-LEN160MJ4E							
	19	5 450	76.04	36 600	0.89	262	**2KJ4408 - ■ JP32 - ■ ■ C1**	
	21	4 970	69.4	37 000	0.97	262	**2KJ4408 - ■ JP32 - ■ ■ B1**	
	25	4 280	59.75	37 500	1.1	262	**2KJ4408 - ■ JP32 - ■ ■ A1**	
	FZ.129-LEN160MJ4E							
	21	4 960	69.2	37 000	0.98	257	**2KJ4308 - ■ JP32 - ■ ■ A2**	
	25	4 240	59.22	37 500	1.1	257	**2KJ4308 - ■ JP32 - ■ ■ X1**	
	26	3 990	55.74	37 500	1.2	257	**2KJ4308 - ■ JP32 - ■ ■ W1**	
	28	3 740	52.25	37 500	1.3	257	**2KJ4308 - ■ JP32 - ■ ■ V1**	
	32	3 320	46.32	37 500	1.5	257	**2KJ4308 - ■ JP32 - ■ ■ U1**	
	36	2 950	41.14	37 500	1.6	257	**2KJ4308 - ■ JP32 - ■ ■ T1**	
	39	2 660	37.12	37 500	1.8	257	**2KJ4308 - ■ JP32 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**FZ.129-LEN160MJ4E**							
	45	2 350	32.9	37 000	2.1	257	**2KJ4308 - ■ JP32 - ■ ■ R1**	
	50	2 080	29.13	36 200	2.3	257	**2KJ4308 - ■ JP32 - ■ ■ Q1**	
	56	1 850	25.93	35 400	2.6	257	**2KJ4308 - ■ JP32 - ■ ■ P1**	
	63	1 660	23.23	34 600	2.9	257	**2KJ4308 - ■ JP32 - ■ ■ N1**	
	FD.149-LEN160MJ4E							
	12	9 080	126.73	60 800	0.88	348	**2KJ4410 - ■ JP32 - ■ ■ L1**	
	13	8 050	112.36	60 400	0.99	348	**2KJ4410 - ■ JP32 - ■ ■ K1**	
	15	7 110	99.18	59 800	1.1	348	**2KJ4410 - ■ JP32 - ■ ■ J1**	
	17	6 250	87.2	59 000	1.3	348	**2KJ4410 - ■ JP32 - ■ ■ H1**	
	19	5 660	78.98	58 300	1.4	348	**2KJ4410 - ■ JP32 - ■ ■ G1**	
	21	4 930	68.76	57 100	1.6	348	**2KJ4410 - ■ JP32 - ■ ■ F1**	
	26	4 040	56.37	55 400	2.0	348	**2KJ4410 - ■ JP32 - ■ ■ E1**	
	29	3 580	50.01	54 200	2.2	348	**2KJ4410 - ■ JP32 - ■ ■ D1**	
	32	3 240	45.3	53 200	2.5	348	**2KJ4410 - ■ JP32 - ■ ■ C1**	
	FZ.149-LEN160MJ4E							
	30	3 470	48.48	53 900	2.3	342	**2KJ4310 - ■ JP32 - ■ ■ T1**	
	33	3 140	43.89	52 900	2.5	342	**2KJ4310 - ■ JP32 - ■ ■ S1**	
	FD.169-LEN160MJ4E							
	6.7	15 600	217.7	73 500	0.87	495	**2KJ4411 - ■ JP32 - ■ ■ Q1**	
	7.4	14 100	197.27	73 500	0.96	495	**2KJ4411 - ■ JP32 - ■ ■ P1**	
	8.3	12 500	175.69	73 500	1.1	495	**2KJ4411 - ■ JP32 - ■ ■ N1**	
	9.3	11 300	157.76	73 500	1.2	495	**2KJ4411 - ■ JP32 - ■ ■ M1**	
	10	10 000	140.77	73 500	1.3	495	**2KJ4411 - ■ JP32 - ■ ■ L1**	
	12	8 990	125.49	73 500	1.5	495	**2KJ4411 - ■ JP32 - ■ ■ K1**	
	13	7 980	111.3	73 500	1.7	495	**2KJ4411 - ■ JP32 - ■ ■ J1**	
	14	7 320	102.18	73 500	1.9	495	**2KJ4411 - ■ JP32 - ■ ■ H1**	
	16	6 450	90.03	73 500	2.1	495	**2KJ4411 - ■ JP32 - ■ ■ G1**	
	FD.189-LEN160MJ4E							
	4.7	22 200	310.76	110 700	0.85	707	**2KJ4412 - ■ JP32 - ■ ■ S1**	
	5.2	20 000	280.27	110 900	0.95	707	**2KJ4412 - ■ JP32 - ■ ■ R1**	
	5.9	17 700	247.71	110 900	1.1	707	**2KJ4412 - ■ JP32 - ■ ■ Q1**	
	6.5	16 200	226.42	110 900	1.2	707	**2KJ4412 - ■ JP32 - ■ ■ P1**	
	7.2	14 600	203.69	110 900	1.3	707	**2KJ4412 - ■ JP32 - ■ ■ N1**	
	8.0	13 000	182.03	110 900	1.5	707	**2KJ4412 - ■ JP32 - ■ ■ M1**	
	8.9	11 800	164.61	110 900	1.6	707	**2KJ4412 - ■ JP32 - ■ ■ L1**	
	10	10 400	145.28	110 900	1.8	707	**2KJ4412 - ■ JP32 - ■ ■ K1**	
	11	9 280	129.45	110 900	2.0	707	**2KJ4412 - ■ JP32 - ■ ■ J1**	
	FZ.109-LEN160MRB4P							
	28	3 680	51.27	25 000	0.84	174	**2KJ4307 - ■ JR33 - ■ ■ W1**	
	30	3 470	48.25	25 000	0.89	174	**2KJ4307 - ■ JR33 - ■ ■ V1**	
	33	3 220	44.78	25 000	0.96	174	**2KJ4307 - ■ JR33 - ■ ■ U1**	
	37	2 840	39.59	25 000	1.1	174	**2KJ4307 - ■ JR33 - ■ ■ T1**	
	41	2 540	35.34	25 000	1.2	174	**2KJ4307 - ■ JR33 - ■ ■ S1**	
	46	2 280	31.8	25 000	1.4	174	**2KJ4307 - ■ JR33 - ■ ■ R1**	
	53	1 980	27.6	25 000	1.6	174	**2KJ4307 - ■ JR33 - ■ ■ Q1**	
	59	1 780	24.82	25 000	1.7	174	**2KJ4307 - ■ JR33 - ■ ■ P1**	
	67	1 560	21.7	24 900	2.0	174	**2KJ4307 - ■ JR33 - ■ ■ N1**	
	75	1 390	19.36	24 500	2.2	174	**2KJ4307 - ■ JR33 - ■ ■ M1**	
	86	1 220	17.06	24 000	2.5	174	**2KJ4307 - ■ JR33 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**FZ.109-LEN160MRB4P**							
	98	1 070	14.95	23 400	2.9	174	**2KJ4307 - ■ JR33 - ■ ■ K1**	
	112	935	13.03	22 700	3.3	174	**2KJ4307 - ■ JR33 - ■ ■ J1**	
	123	855	11.89	22 300	3.6	174	**2KJ4307 - ■ JR33 - ■ ■ H1**	
	143	735	10.23	21 600	3.9	174	**2KJ4307 - ■ JR33 - ■ ■ G1**	
	162	645	9.02	20 900	3.2	174	**2KJ4307 - ■ JR33 - ■ ■ F1**	
	184	570	7.94	20 300	3.5	174	**2KJ4307 - ■ JR33 - ■ ■ E1**	
	210	500	6.96	19 700	3.8	174	**2KJ4307 - ■ JR33 - ■ ■ D1**	
	241	435	6.07	19 000	4.1	174	**2KJ4307 - ■ JR33 - ■ ■ C1**	
	264	395	5.54	18 600	4.3	174	**2KJ4307 - ■ JR33 - ■ ■ B1**	
	306	340	4.77	17 900	4.7	174	**2KJ4307 - ■ JR33 - ■ ■ A1**	
	FD.129-LEN160MRB4P							
	19	5 470	76.04	36 500	0.89	231	**2KJ4408 - ■ JR33 - ■ ■ C1**	
	21	4 990	69.4	37 000	0.97	231	**2KJ4408 - ■ JR33 - ■ ■ B1**	
	24	4 290	59.75	37 500	1.1	231	**2KJ4408 - ■ JR33 - ■ ■ A1**	
	FZ.129-LEN160MRB4P							
	21	4 970	69.2	37 000	0.97	226	**2KJ4308 - ■ JR33 - ■ ■ A2**	
	25	4 260	59.22	37 500	1.1	226	**2KJ4308 - ■ JR33 - ■ ■ X1**	
	26	4 010	55.74	37 500	1.2	226	**2KJ4308 - ■ JR33 - ■ ■ W1**	
	28	3 750	52.25	37 500	1.3	226	**2KJ4308 - ■ JR33 - ■ ■ V1**	
	32	3 330	46.32	37 500	1.5	226	**2KJ4308 - ■ JR33 - ■ ■ U1**	
	35	2 960	41.14	37 500	1.6	226	**2KJ4308 - ■ JR33 - ■ ■ T1**	
	39	2 670	37.12	37 500	1.8	226	**2KJ4308 - ■ JR33 - ■ ■ S1**	
	44	2 360	32.9	37 000	2.0	226	**2KJ4308 - ■ JR33 - ■ ■ R1**	
	50	2 090	29.13	36 200	2.3	226	**2KJ4308 - ■ JR33 - ■ ■ Q1**	
	56	1 860	25.93	35 400	2.6	226	**2KJ4308 - ■ JR33 - ■ ■ P1**	
	63	1 670	23.23	34 600	2.9	226	**2KJ4308 - ■ JR33 - ■ ■ N1**	
	FD.149-LEN160MRB4P							
	12	9 110	126.73	60 800	0.88	317	**2KJ4410 - ■ JR33 - ■ ■ L1**	
	13	8 080	112.36	60 400	0.99	317	**2KJ4410 - ■ JR33 - ■ ■ K1**	
	15	7 130	99.18	59 800	1.1	317	**2KJ4410 - ■ JR33 - ■ ■ J1**	
	17	6 270	87.2	59 000	1.3	317	**2KJ4410 - ■ JR33 - ■ ■ H1**	
	18	5 680	78.98	58 300	1.4	317	**2KJ4410 - ■ JR33 - ■ ■ G1**	
	21	4 940	68.76	57 200	1.6	317	**2KJ4410 - ■ JR33 - ■ ■ F1**	
	26	4 050	56.37	55 400	2.0	317	**2KJ4410 - ■ JR33 - ■ ■ E1**	
	29	3 590	50.01	54 200	2.2	317	**2KJ4410 - ■ JR33 - ■ ■ D1**	
	32	3 250	45.3	53 200	2.5	317	**2KJ4410 - ■ JR33 - ■ ■ C1**	
	FZ.149-LEN160MRB4P							
	30	3 480	48.48	53 900	2.3	311	**2KJ4310 - ■ JR33 - ■ ■ T1**	
	33	3 150	43.89	52 900	2.5	311	**2KJ4310 - ■ JR33 - ■ ■ S1**	
	FD.169-LEN160MRB4P							
	6.7	15 600	217.7	73 500	0.87	464	**2KJ4411 - ■ JR33 - ■ ■ Q1**	
	7.4	14 100	197.27	73 500	0.96	464	**2KJ4411 - ■ JR33 - ■ ■ P1**	
	8.3	12 600	175.69	73 500	1.1	464	**2KJ4411 - ■ JR33 - ■ ■ N1**	
	9.3	11 300	157.76	73 500	1.2	464	**2KJ4411 - ■ JR33 - ■ ■ M1**	
	10	10 100	140.77	73 500	1.3	464	**2KJ4411 - ■ JR33 - ■ ■ L1**	
	12	9 020	125.49	73 500	1.5	464	**2KJ4411 - ■ JR33 - ■ ■ K1**	
	13	8 000	111.3	73 500	1.7	464	**2KJ4411 - ■ JR33 - ■ ■ J1**	
	14	7 350	102.18	73 500	1.8	464	**2KJ4411 - ■ JR33 - ■ ■ H1**	
	16	6 470	90.03	73 500	2.1	464	**2KJ4411 - ■ JR33 - ■ ■ G1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**FD.189-LEN160MRB4P**							
	4.7	22 300	310.76	110 700	0.85	676	**2KJ4412 - ■ JR33 - ■ ■ S1**	
	5.2	20 100	280.27	110 900	0.94	676	**2KJ4412 - ■ JR33 - ■ ■ R1**	
	5.9	17 800	247.71	110 900	1.1	676	**2KJ4412 - ■ JR33 - ■ ■ Q1**	
	6.4	16 200	226.42	110 900	1.2	676	**2KJ4412 - ■ JR33 - ■ ■ P1**	
	7.2	14 600	203.69	110 900	1.3	676	**2KJ4412 - ■ JR33 - ■ ■ N1**	
	8.0	13 000	182.03	110 900	1.5	676	**2KJ4412 - ■ JR33 - ■ ■ M1**	
	8.9	11 800	164.61	110 900	1.6	676	**2KJ4412 - ■ JR33 - ■ ■ L1**	
	10	10 400	145.28	110 900	1.8	676	**2KJ4412 - ■ JR33 - ■ ■ K1**	
	11	9 310	129.45	110 900	2.0	676	**2KJ4412 - ■ JR33 - ■ ■ J1**	
15	**FZ.79-LEN160LH4E**							
	118	1 210	12.41	9 700	0.82	161	**2KJ4305 - ■ JS32 - ■ ■ J1**	
	139	1 030	10.56	9 900	0.97	161	**2KJ4305 - ■ JS32 - ■ ■ H1**	
	162	885	9.05	9 900	1.1	161	**2KJ4305 - ■ JS32 - ■ ■ G1**	
	172	830	8.51	9 700	0.87	161	**2KJ4305 - ■ JS32 - ■ ■ F1**	
	197	725	7.44	9 700	1.0	161	**2KJ4305 - ■ JS32 - ■ ■ E1**	
	229	625	6.39	9 600	1.2	161	**2KJ4305 - ■ JS32 - ■ ■ D1**	
	260	550	5.64	9 600	1.3	161	**2KJ4305 - ■ JS32 - ■ ■ C1**	
	305	465	4.80	9 500	1.4	161	**2KJ4305 - ■ JS32 - ■ ■ B1**	
	356	400	4.11	9 300	1.5	161	**2KJ4305 - ■ JS32 - ■ ■ A1**	
	FZ.79-LEN160LQ4P							
	118	1 210	12.41	9 700	0.82	131	**2KJ4305 - ■ JU33 - ■ ■ J1**	
	138	1 030	10.56	9 900	0.97	131	**2KJ4305 - ■ JU33 - ■ ■ H1**	
	161	885	9.05	10 000	1.1	131	**2KJ4305 - ■ JU33 - ■ ■ G1**	
	172	835	8.51	9 700	0.86	131	**2KJ4305 - ■ JU33 - ■ ■ F1**	
	196	730	7.44	9 700	0.99	131	**2KJ4305 - ■ JU33 - ■ ■ E1**	
	228	625	6.39	9 700	1.1	131	**2KJ4305 - ■ JU33 - ■ ■ D1**	
	259	550	5.64	9 600	1.3	131	**2KJ4305 - ■ JU33 - ■ ■ C1**	
	304	470	4.80	9 400	1.4	131	**2KJ4305 - ■ JU33 - ■ ■ B1**	
	355	400	4.11	9 300	1.5	131	**2KJ4305 - ■ JU33 - ■ ■ A1**	
	FZ.89-LEN160LH4E							
	66	2 150	22.08	17 100	0.86	192	**2KJ4306 - ■ JS32 - ■ ■ P1**	
	78	1 840	18.88	17 200	1.0	192	**2KJ4306 - ■ JS32 - ■ ■ N1**	
	87	1 640	16.86	17 200	1.1	192	**2KJ4306 - ■ JS32 - ■ ■ M1**	
	98	1 450	14.9	17 100	1.3	192	**2KJ4306 - ■ JS32 - ■ ■ L1**	
	112	1 270	13.07	17 000	1.4	192	**2KJ4306 - ■ JS32 - ■ ■ K1**	
	129	1 110	11.38	16 700	1.7	192	**2KJ4306 - ■ JS32 - ■ ■ J1**	
	151	950	9.73	16 400	1.9	192	**2KJ4306 - ■ JS32 - ■ ■ H1**	
	176	815	8.33	16 000	2.1	192	**2KJ4306 - ■ JS32 - ■ ■ G1**	
	193	740	7.60	15 600	1.5	192	**2KJ4306 - ■ JS32 - ■ ■ F1**	
	218	655	6.72	15 300	1.7	192	**2KJ4306 - ■ JS32 - ■ ■ E1**	
	248	575	5.90	15 000	1.9	192	**2KJ4306 - ■ JS32 - ■ ■ D1**	
	286	500	5.13	14 600	2.2	192	**2KJ4306 - ■ JS32 - ■ ■ C1**	
	334	425	4.39	14 100	2.5	192	**2KJ4306 - ■ JS32 - ■ ■ B1**	
	390	365	3.76	13 700	2.7	192	**2KJ4306 - ■ JS32 - ■ ■ A1**	
	FZ.89-LEN160LQ4P							
	66	2 160	22.08	17 100	0.85	162	**2KJ4306 - ■ JU33 - ■ ■ P1**	
	77	1 850	18.88	17 200	1.0	162	**2KJ4306 - ■ JU33 - ■ ■ N1**	
	87	1 650	16.86	17 200	1.1	162	**2KJ4306 - ■ JU33 - ■ ■ M1**	
	98	1 460	14.9	17 100	1.3	162	**2KJ4306 - ■ JU33 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**FZ.89-LEN160LQ4P**							
	112	1 280	13.07	16 900	1.4	162	**2KJ4306 - ■ JU33 - ■ ■ K1**	
	128	1 110	11.38	16 700	1.7	162	**2KJ4306 - ■ JU33 - ■ ■ J1**	
	150	955	9.73	16 400	1.9	162	**2KJ4306 - ■ JU33 - ■ ■ H1**	
	175	815	8.33	16 100	2.1	162	**2KJ4306 - ■ JU33 - ■ ■ G1**	
	192	745	7.60	15 600	1.5	162	**2KJ4306 - ■ JU33 - ■ ■ F1**	
	217	655	6.72	15 300	1.7	162	**2KJ4306 - ■ JU33 - ■ ■ E1**	
	247	575	5.90	15 000	1.9	162	**2KJ4306 - ■ JU33 - ■ ■ D1**	
	285	500	5.13	14 600	2.2	162	**2KJ4306 - ■ JU33 - ■ ■ C1**	
	333	430	4.39	14 100	2.5	162	**2KJ4306 - ■ JU33 - ■ ■ B1**	
	388	365	3.76	13 700	2.7	162	**2KJ4306 - ■ JU33 - ■ ■ A1**	
	FZ.109-LEN160LH4E							
	37	3 870	39.59	23 300	0.8	229	**2KJ4307 - ■ JS32 - ■ ■ T1**	
	41	3 450	35.34	23 500	0.9	229	**2KJ4307 - ■ JS32 - ■ ■ S1**	
	46	3 100	31.8	23 500	1.0	229	**2KJ4307 - ■ JS32 - ■ ■ R1**	
	53	2 690	27.6	23 500	1.1	229	**2KJ4307 - ■ JS32 - ■ ■ Q1**	
	59	2 420	24.82	23 300	1.3	229	**2KJ4307 - ■ JS32 - ■ ■ P1**	
	68	2 120	21.7	23 100	1.5	229	**2KJ4307 - ■ JS32 - ■ ■ N1**	
	76	1 890	19.36	22 800	1.6	229	**2KJ4307 - ■ JS32 - ■ ■ M1**	
	86	1 660	17.06	22 500	1.9	229	**2KJ4307 - ■ JS32 - ■ ■ L1**	
	98	1 460	14.95	22 100	2.1	229	**2KJ4307 - ■ JS32 - ■ ■ K1**	
	112	1 270	13.03	21 600	2.4	229	**2KJ4307 - ■ JS32 - ■ ■ J1**	
	123	1 160	11.89	21 300	2.6	229	**2KJ4307 - ■ JS32 - ■ ■ H1**	
	143	1 000	10.23	20 700	2.9	229	**2KJ4307 - ■ JS32 - ■ ■ G1**	
	162	880	9.02	20 100	2.4	229	**2KJ4307 - ■ JS32 - ■ ■ F1**	
	185	775	7.94	19 600	2.6	229	**2KJ4307 - ■ JS32 - ■ ■ E1**	
	210	680	6.96	19 000	2.8	229	**2KJ4307 - ■ JS32 - ■ ■ D1**	
	241	590	6.07	18 500	3.0	229	**2KJ4307 - ■ JS32 - ■ ■ C1**	
	264	540	5.54	18 100	3.2	229	**2KJ4307 - ■ JS32 - ■ ■ B1**	
	307	465	4.77	17 500	3.5	229	**2KJ4307 - ■ JS32 - ■ ■ A1**	
	FZ.109-LEN160LQ4P							
	37	3 880	39.59	23 300	0.8	199	**2KJ4307 - ■ JU33 - ■ ■ T1**	
	41	3 460	35.34	23 500	0.89	199	**2KJ4307 - ■ JU33 - ■ ■ S1**	
	46	3 120	31.8	23 500	0.99	199	**2KJ4307 - ■ JU33 - ■ ■ R1**	
	53	2 700	27.6	23 500	1.1	199	**2KJ4307 - ■ JU33 - ■ ■ Q1**	
	59	2 430	24.82	23 300	1.3	199	**2KJ4307 - ■ JU33 - ■ ■ P1**	
	67	2 120	21.7	23 100	1.5	199	**2KJ4307 - ■ JU33 - ■ ■ N1**	
	75	1 900	19.36	22 800	1.6	199	**2KJ4307 - ■ JU33 - ■ ■ M1**	
	86	1 670	17.06	22 500	1.9	199	**2KJ4307 - ■ JU33 - ■ ■ L1**	
	98	1 460	14.95	22 100	2.1	199	**2KJ4307 - ■ JU33 - ■ ■ K1**	
	112	1 270	13.03	21 600	2.4	199	**2KJ4307 - ■ JU33 - ■ ■ J1**	
	123	1 160	11.89	21 300	2.6	199	**2KJ4307 - ■ JU33 - ■ ■ H1**	
	143	1 000	10.23	20 700	2.9	199	**2KJ4307 - ■ JU33 - ■ ■ G1**	
	162	885	9.02	20 100	2.4	199	**2KJ4307 - ■ JU33 - ■ ■ F1**	
	184	775	7.94	19 600	2.6	199	**2KJ4307 - ■ JU33 - ■ ■ E1**	
	210	680	6.96	19 100	2.8	199	**2KJ4307 - ■ JU33 - ■ ■ D1**	
	241	595	6.07	18 500	3.0	199	**2KJ4307 - ■ JU33 - ■ ■ C1**	
	264	540	5.54	18 100	3.2	199	**2KJ4307 - ■ JU33 - ■ ■ B1**	
	306	465	4.77	17 500	3.5	199	**2KJ4307 - ■ JU33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**FD.129-LEN160LH4E**							
	25	5 840	59.75	35 800	0.83	286	**2KJ4408 - ■ JS32 - ■ ■ A1**	
	FD.129-LEN160LQ4P							
	24	5 860	59.75	35 800	0.83	256	**2KJ4408 - ■ JU33 - ■ ■ A1**	
	FZ.129-LEN160LH4E							
	25	5 790	59.22	35 800	0.84	281	**2KJ4308 - ■ JS32 - ■ ■ X1**	
	26	5 450	55.74	35 800	0.89	281	**2KJ4308 - ■ JS32 - ■ ■ W1**	
	28	5 100	52.25	35 800	0.95	281	**2KJ4308 - ■ JS32 - ■ ■ V1**	
	32	4 520	46.32	35 600	1.1	281	**2KJ4308 - ■ JS32 - ■ ■ U1**	
	36	4 020	41.14	35 300	1.2	281	**2KJ4308 - ■ JS32 - ■ ■ T1**	
	39	3 630	37.12	35 000	1.3	281	**2KJ4308 - ■ JS32 - ■ ■ S1**	
	45	3 210	32.9	34 600	1.5	281	**2KJ4308 - ■ JS32 - ■ ■ R1**	
	50	2 840	29.13	34 100	1.7	281	**2KJ4308 - ■ JS32 - ■ ■ Q1**	
	56	2 530	25.93	33 500	1.9	281	**2KJ4308 - ■ JS32 - ■ ■ P1**	
	63	2 270	23.23	32 900	2.1	281	**2KJ4308 - ■ JS32 - ■ ■ N1**	
	71	2 010	20.6	32 200	2.4	281	**2KJ4308 - ■ JS32 - ■ ■ M1**	
	81	1 770	18.18	31 500	2.7	281	**2KJ4308 - ■ JS32 - ■ ■ L1**	
	92	1 560	15.99	30 700	3.1	281	**2KJ4308 - ■ JS32 - ■ ■ K1**	
	101	1 410	14.48	30 100	3.3	281	**2KJ4308 - ■ JS32 - ■ ■ J1**	
	116	1 230	12.61	29 200	3.7	281	**2KJ4308 - ■ JS32 - ■ ■ H1**	
	149	955	9.80	27 400	3.8	281	**2KJ4308 - ■ JS32 - ■ ■ F1**	
	FZ.129-LEN160LQ4P							
	25	5 810	59.22	35 800	0.83	251	**2KJ4308 - ■ JU33 - ■ ■ X1**	
	26	5 460	55.74	35 800	0.89	251	**2KJ4308 - ■ JU33 - ■ ■ W1**	
	28	5 120	52.25	35 800	0.95	251	**2KJ4308 - ■ JU33 - ■ ■ V1**	
	32	4 540	46.32	35 600	1.1	251	**2KJ4308 - ■ JU33 - ■ ■ U1**	
	35	4 030	41.14	35 400	1.2	251	**2KJ4308 - ■ JU33 - ■ ■ T1**	
	39	3 640	37.12	35 000	1.3	251	**2KJ4308 - ■ JU33 - ■ ■ S1**	
	44	3 220	32.9	34 600	1.5	251	**2KJ4308 - ■ JU33 - ■ ■ R1**	
	50	2 850	29.13	34 100	1.7	251	**2KJ4308 - ■ JU33 - ■ ■ Q1**	
	56	2 540	25.93	33 500	1.9	251	**2KJ4308 - ■ JU33 - ■ ■ P1**	
	63	2 270	23.23	32 900	2.1	251	**2KJ4308 - ■ JU33 - ■ ■ N1**	
	71	2 020	20.6	32 200	2.4	251	**2KJ4308 - ■ JU33 - ■ ■ M1**	
	80	1 780	18.18	31 500	2.7	251	**2KJ4308 - ■ JU33 - ■ ■ L1**	
	91	1 560	15.99	30 700	3.1	251	**2KJ4308 - ■ JU33 - ■ ■ K1**	
	101	1 420	14.48	30 100	3.3	251	**2KJ4308 - ■ JU33 - ■ ■ J1**	
	116	1 230	12.61	29 200	3.7	251	**2KJ4308 - ■ JU33 - ■ ■ H1**	
	149	960	9.80	27 400	3.8	251	**2KJ4308 - ■ JU33 - ■ ■ F1**	
	FD.149-LEN160LH4E							
	15	9 690	99.18	53 300	0.82	372	**2KJ4410 - ■ JS32 - ■ ■ J1**	
	17	8 520	87.2	53 300	0.94	372	**2KJ4410 - ■ JS32 - ■ ■ H1**	
	19	7 720	78.98	53 100	1.0	372	**2KJ4410 - ■ JS32 - ■ ■ G1**	
	21	6 720	68.76	52 700	1.2	372	**2KJ4410 - ■ JS32 - ■ ■ F1**	
	26	5 510	56.37	51 700	1.5	372	**2KJ4410 - ■ JS32 - ■ ■ E1**	
	29	4 890	50.01	50 900	1.6	372	**2KJ4410 - ■ JS32 - ■ ■ D1**	
	32	4 430	45.3	50 200	1.8	372	**2KJ4410 - ■ JS32 - ■ ■ C1**	
	37	3 850	39.43	49 200	2.1	372	**2KJ4410 - ■ JS32 - ■ ■ B1**	
	45	3 160	32.33	47 500	2.4	372	**2KJ4410 - ■ JS32 - ■ ■ A1**	
	FD.149-LEN160LQ4P							
	15	9 730	99.18	53 300	0.82	342	**2KJ4410 - ■ JU33 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**FD.149-LEN160LQ4P**							
	17	8 550	87.2	53 300	0.94	342	**2KJ4410 - ■ JU33 - ■ ■ H1**	
	18	7 740	78.98	53 100	1.0	342	**2KJ4410 - ■ JU33 - ■ ■ G1**	
	21	6 740	68.76	52 700	1.2	342	**2KJ4410 - ■ JU33 - ■ ■ F1**	
	26	5 530	56.37	51 700	1.4	342	**2KJ4410 - ■ JU33 - ■ ■ E1**	
	29	4 900	50.01	51 000	1.6	342	**2KJ4410 - ■ JU33 - ■ ■ D1**	
	32	4 440	45.3	50 300	1.8	342	**2KJ4410 - ■ JU33 - ■ ■ C1**	
	37	3 860	39.43	49 200	2.1	342	**2KJ4410 - ■ JU33 - ■ ■ B1**	
	45	3 170	32.33	47 500	2.4	342	**2KJ4410 - ■ JU33 - ■ ■ A1**	
	FZ.149-LEN160LH4E							
	30	4 740	48.48	50 700	1.7	366	**2KJ4310 - ■ JS32 - ■ ■ T1**	
	33	4 290	43.89	50 000	1.9	366	**2KJ4310 - ■ JS32 - ■ ■ S1**	
	38	3 760	38.55	49 000	2.1	366	**2KJ4310 - ■ JS32 - ■ ■ R1**	
	42	3 410	34.93	48 200	2.3	366	**2KJ4310 - ■ JS32 - ■ ■ Q1**	
	47	3 040	31.11	47 200	2.6	366	**2KJ4310 - ■ JS32 - ■ ■ P1**	
	52	2 730	27.94	46 200	2.9	366	**2KJ4310 - ■ JS32 - ■ ■ N1**	
	FZ.149-LEN160LQ4P							
	30	4 750	48.48	50 700	1.7	336	**2KJ4310 - ■ JU33 - ■ ■ T1**	
	33	4 300	43.89	50 000	1.9	336	**2KJ4310 - ■ JU33 - ■ ■ S1**	
	38	3 780	38.55	49 000	2.1	336	**2KJ4310 - ■ JU33 - ■ ■ R1**	
	42	3 420	34.93	48 200	2.3	336	**2KJ4310 - ■ JU33 - ■ ■ Q1**	
	47	3 050	31.11	47 200	2.6	336	**2KJ4310 - ■ JU33 - ■ ■ P1**	
	52	2 740	27.94	46 200	2.9	336	**2KJ4310 - ■ JU33 - ■ ■ N1**	
	FD.169-LEN160LH4E							
	9.3	15 400	157.76	73 500	0.88	519	**2KJ4411 - ■ JS32 - ■ ■ M1**	
	10	13 700	140.77	73 500	0.99	519	**2KJ4411 - ■ JS32 - ■ ■ L1**	
	12	12 200	125.49	73 500	1.1	519	**2KJ4411 - ■ JS32 - ■ ■ K1**	
	13	10 800	111.3	73 500	1.2	519	**2KJ4411 - ■ JS32 - ■ ■ J1**	
	14	9 990	102.18	73 500	1.4	519	**2KJ4411 - ■ JS32 - ■ ■ H1**	
	16	8 800	90.03	73 500	1.5	519	**2KJ4411 - ■ JS32 - ■ ■ G1**	
	20	7 220	73.85	73 500	1.9	519	**2KJ4411 - ■ JS32 - ■ ■ F1**	
	23	6 330	64.75	73 500	2.1	519	**2KJ4411 - ■ JS32 - ■ ■ E1**	
	FD.169-LEN160LQ4P							
	9.3	15 400	157.76	73 500	0.88	489	**2KJ4411 - ■ JU33 - ■ ■ M1**	
	10	13 800	140.77	73 500	0.98	489	**2KJ4411 - ■ JU33 - ■ ■ L1**	
	12	12 300	125.49	73 500	1.1	489	**2KJ4411 - ■ JU33 - ■ ■ K1**	
	13	10 900	111.3	73 500	1.2	489	**2KJ4411 - ■ JU33 - ■ ■ J1**	
	14	10 000	102.18	73 500	1.4	489	**2KJ4411 - ■ JU33 - ■ ■ H1**	
	16	8 830	90.03	73 500	1.5	489	**2KJ4411 - ■ JU33 - ■ ■ G1**	
	20	7 240	73.85	73 500	1.9	489	**2KJ4411 - ■ JU33 - ■ ■ F1**	
	23	6 350	64.75	73 500	2.1	489	**2KJ4411 - ■ JU33 - ■ ■ E1**	
	FD.189-LEN160LH4E							
	6.5	22 100	226.42	110 800	0.86	731	**2KJ4412 - ■ JS32 - ■ ■ P1**	
	7.2	19 900	203.69	110 900	0.95	731	**2KJ4412 - ■ JS32 - ■ ■ N1**	
	8.0	17 700	182.03	110 900	1.1	731	**2KJ4412 - ■ JS32 - ■ ■ M1**	
	8.9	16 000	164.61	110 900	1.2	731	**2KJ4412 - ■ JS32 - ■ ■ L1**	
	10	14 200	145.28	110 900	1.3	731	**2KJ4412 - ■ JS32 - ■ ■ K1**	
	11	12 600	129.45	110 900	1.5	731	**2KJ4412 - ■ JS32 - ■ ■ J1**	
	12	11 400	117.27	110 900	1.7	731	**2KJ4412 - ■ JS32 - ■ ■ H1**	
	14	10 300	105.48	110 900	1.8	731	**2KJ4412 - ■ JS32 - ■ ■ G1**	

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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
15	**FD.189-LEN160LH4E**							
	17	8 570	87.65	110 900	2.2	731	**2KJ4412 - ■ JS32 - ■ ■ F1**	
	FD.189-LEN160LQ4P							
	6.4	22 200	226.42	110 700	0.86	701	**2KJ4412 - ■ JU33 - ■ ■ P1**	
	7.2	19 900	203.69	110 900	0.95	701	**2KJ4412 - ■ JU33 - ■ ■ N1**	
	8.0	17 800	182.03	110 900	1.1	701	**2KJ4412 - ■ JU33 - ■ ■ M1**	
	8.9	16 100	164.61	110 900	1.2	701	**2KJ4412 - ■ JU33 - ■ ■ L1**	
	10	14 200	145.28	110 900	1.3	701	**2KJ4412 - ■ JU33 - ■ ■ K1**	
	11	12 700	129.45	110 900	1.5	701	**2KJ4412 - ■ JU33 - ■ ■ J1**	
	12	11 500	117.27	110 900	1.7	701	**2KJ4412 - ■ JU33 - ■ ■ H1**	
	14	10 300	105.48	110 900	1.8	701	**2KJ4412 - ■ JU33 - ■ ■ G1**	
	17	8 600	87.65	110 900	2.2	701	**2KJ4412 - ■ JU33 - ■ ■ F1**	
18.5	**FZ.89-LEN180MM4E**							
	87	2 030	16.86	15 600	0.91	238	**2KJ4306 - ■ KL32 - ■ ■ M1**	
	98	1 790	14.9	15 700	1.0	238	**2KJ4306 - ■ KL32 - ■ ■ L1**	
	112	1 570	13.07	15 700	1.2	238	**2KJ4306 - ■ KL32 - ■ ■ K1**	
	129	1 370	11.38	15 600	1.3	238	**2KJ4306 - ■ KL32 - ■ ■ J1**	
	151	1 170	9.73	15 500	1.6	238	**2KJ4306 - ■ KL32 - ■ ■ H1**	
	176	1 000	8.33	15 300	1.7	238	**2KJ4306 - ■ KL32 - ■ ■ G1**	
	193	915	7.60	14 900	1.2	238	**2KJ4306 - ■ KL32 - ■ ■ F1**	
	218	810	6.72	14 600	1.4	238	**2KJ4306 - ■ KL32 - ■ ■ E1**	
	248	710	5.90	14 400	1.6	238	**2KJ4306 - ■ KL32 - ■ ■ D1**	
	286	615	5.13	14 100	1.8	238	**2KJ4306 - ■ KL32 - ■ ■ C1**	
	334	525	4.39	13 700	2.0	238	**2KJ4306 - ■ KL32 - ■ ■ B1**	
	390	450	3.76	13 300	2.2	238	**2KJ4306 - ■ KL32 - ■ ■ A1**	
	FZ.89-LEN180MQ4P							
	87	2 030	16.86	15 600	0.91	243	**2KJ4306 - ■ KL33 - ■ ■ M1**	
	98	1 790	14.9	15 700	1.0	243	**2KJ4306 - ■ KL33 - ■ ■ L1**	
	112	1 570	13.07	15 700	1.2	243	**2KJ4306 - ■ KL33 - ■ ■ K1**	
	129	1 370	11.38	15 600	1.3	243	**2KJ4306 - ■ KL33 - ■ ■ J1**	
	151	1 170	9.73	15 500	1.6	243	**2KJ4306 - ■ KL33 - ■ ■ H1**	
	176	1 000	8.33	15 200	1.7	243	**2KJ4306 - ■ KL33 - ■ ■ G1**	
	193	915	7.60	14 800	1.2	243	**2KJ4306 - ■ KL33 - ■ ■ F1**	
	218	810	6.72	14 600	1.4	243	**2KJ4306 - ■ KL33 - ■ ■ E1**	
	248	710	5.90	14 400	1.6	243	**2KJ4306 - ■ KL33 - ■ ■ D1**	
	286	615	5.13	14 100	1.8	243	**2KJ4306 - ■ KL33 - ■ ■ C1**	
	334	525	4.39	13 700	2.0	243	**2KJ4306 - ■ KL33 - ■ ■ B1**	
	390	450	3.76	13 300	2.2	243	**2KJ4306 - ■ KL33 - ■ ■ A1**	
	FZ.109-LEN180MM4E							
	59	2 990	24.82	21 500	1.0	277	**2KJ4307 - ■ KL32 - ■ ■ P1**	
	68	2 610	21.7	21 500	1.2	277	**2KJ4307 - ■ KL32 - ■ ■ N1**	
	76	2 330	19.36	21 400	1.3	277	**2KJ4307 - ■ KL32 - ■ ■ M1**	
	86	2 050	17.06	21 200	1.5	277	**2KJ4307 - ■ KL32 - ■ ■ L1**	
	98	1 800	14.95	20 900	1.7	277	**2KJ4307 - ■ KL32 - ■ ■ K1**	
	112	1 570	13.03	20 600	2.0	277	**2KJ4307 - ■ KL32 - ■ ■ J1**	
	123	1 430	11.89	20 400	2.1	277	**2KJ4307 - ■ KL32 - ■ ■ H1**	
	143	1 230	10.23	19 900	2.3	277	**2KJ4307 - ■ KL32 - ■ ■ G1**	
	162	1 080	9.02	19 400	1.9	277	**2KJ4307 - ■ KL32 - ■ ■ F1**	
	185	955	7.94	19 000	2.1	277	**2KJ4307 - ■ KL32 - ■ ■ E1**	
	210	835	6.96	18 500	2.3	277	**2KJ4307 - ■ KL32 - ■ ■ D1**	

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Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**FZ.109-LEN180MM4E**							
	241	730	6.07	18 000	2.5	277	**2KJ4307 - ■ KL32 - ■ ■ C1**	
	264	665	5.54	17 700	2.6	277	**2KJ4307 - ■ KL32 - ■ ■ B1**	
	307	575	4.77	17 100	2.8	277	**2KJ4307 - ■ KL32 - ■ ■ A1**	
	FZ.109-LEN180MQ4P							
	59	2 990	24.82	21 400	1.0	282	**2KJ4307 - ■ KL33 - ■ ■ P1**	
	68	2 610	21.7	21 400	1.2	282	**2KJ4307 - ■ KL33 - ■ ■ N1**	
	76	2 330	19.36	21 300	1.3	282	**2KJ4307 - ■ KL33 - ■ ■ M1**	
	86	2 050	17.06	21 200	1.5	282	**2KJ4307 - ■ KL33 - ■ ■ L1**	
	98	1 800	14.95	20 900	1.7	282	**2KJ4307 - ■ KL33 - ■ ■ K1**	
	112	1 570	13.03	20 600	2.0	282	**2KJ4307 - ■ KL33 - ■ ■ J1**	
	123	1 430	11.89	20 300	2.1	282	**2KJ4307 - ■ KL33 - ■ ■ H1**	
	143	1 230	10.23	19 900	2.3	282	**2KJ4307 - ■ KL33 - ■ ■ G1**	
	162	1 080	9.02	19 400	1.9	282	**2KJ4307 - ■ KL33 - ■ ■ F1**	
	185	955	7.94	19 000	2.1	282	**2KJ4307 - ■ KL33 - ■ ■ E1**	
	210	835	6.96	18 500	2.3	282	**2KJ4307 - ■ KL33 - ■ ■ D1**	
	241	730	6.07	18 000	2.5	282	**2KJ4307 - ■ KL33 - ■ ■ C1**	
	264	665	5.54	17 700	2.6	282	**2KJ4307 - ■ KL33 - ■ ■ B1**	
	307	575	4.77	17 100	2.8	282	**2KJ4307 - ■ KL33 - ■ ■ A1**	
	FZ.129-LEN180MM4E							
	50	3 510	29.13	32 200	1.4	328	**2KJ4308 - ■ KL32 - ■ ■ Q1**	
	56	3 120	25.93	31 800	1.6	328	**2KJ4308 - ■ KL32 - ■ ■ P1**	
	63	2 800	23.23	31 400	1.7	328	**2KJ4308 - ■ KL32 - ■ ■ N1**	
	71	2 480	20.6	30 900	2.0	328	**2KJ4308 - ■ KL32 - ■ ■ M1**	
	81	2 190	18.18	30 300	2.2	328	**2KJ4308 - ■ KL32 - ■ ■ L1**	
	92	1 920	15.99	29 700	2.5	328	**2KJ4308 - ■ KL32 - ■ ■ K1**	
	101	1 740	14.48	29 200	2.7	328	**2KJ4308 - ■ KL32 - ■ ■ J1**	
	116	1 520	12.61	28 400	3.0	328	**2KJ4308 - ■ KL32 - ■ ■ H1**	
	142	1 240	10.34	27 300	3.5	328	**2KJ4308 - ■ KL32 - ■ ■ G1**	
	149	1 180	9.80	26 700	3.1	328	**2KJ4308 - ■ KL32 - ■ ■ F1**	
	169	1 040	8.65	26 000	3.5	328	**2KJ4308 - ■ KL32 - ■ ■ E1**	
	193	915	7.60	25 300	3.9	328	**2KJ4308 - ■ KL32 - ■ ■ D1**	
	213	830	6.89	24 700	4.4	328	**2KJ4308 - ■ KL32 - ■ ■ C1**	
	FZ.129-LEN180MQ4P							
	50	3 510	29.13	32 100	1.4	333	**2KJ4308 - ■ KL33 - ■ ■ Q1**	
	56	3 120	25.93	31 800	1.6	333	**2KJ4308 - ■ KL33 - ■ ■ P1**	
	63	2 800	23.23	31 400	1.7	333	**2KJ4308 - ■ KL33 - ■ ■ N1**	
	71	2 480	20.6	30 900	2.0	333	**2KJ4308 - ■ KL33 - ■ ■ M1**	
	81	2 190	18.18	30 300	2.2	333	**2KJ4308 - ■ KL33 - ■ ■ L1**	
	92	1 920	15.99	29 700	2.5	333	**2KJ4308 - ■ KL33 - ■ ■ K1**	
	101	1 740	14.48	29 100	2.7	333	**2KJ4308 - ■ KL33 - ■ ■ J1**	
	116	1 520	12.61	28 400	3.0	333	**2KJ4308 - ■ KL33 - ■ ■ H1**	
	142	1 240	10.34	27 300	3.5	333	**2KJ4308 - ■ KL33 - ■ ■ G1**	
	149	1 180	9.80	26 600	3.1	333	**2KJ4308 - ■ KL33 - ■ ■ F1**	
	169	1 040	8.65	26 000	3.5	333	**2KJ4308 - ■ KL33 - ■ ■ E1**	
	193	915	7.60	25 200	3.9	333	**2KJ4308 - ■ KL33 - ■ ■ D1**	
	213	830	6.89	24 700	4.4	333	**2KJ4308 - ■ KL33 - ■ ■ C1**	
	FD.149-LEN180MM4E							
	19	9 520	78.98	48 600	0.84	421	**2KJ4410 - ■ KL32 - ■ ■ G1**	
	21	8 290	68.76	48 700	0.96	421	**2KJ4410 - ■ KL32 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**FD.149-LEN180MM4E**							
	26	6 790	56.37	48 500	1.2	421	**2KJ4410 - ■ KL32 - ■ ■ E1**	
	29	6 030	50.01	48 100	1.3	421	**2KJ4410 - ■ KL32 - ■ ■ D1**	
	32	5 460	45.3	47 600	1.5	421	**2KJ4410 - ■ KL32 - ■ ■ C1**	
	37	4 750	39.43	46 900	1.7	421	**2KJ4410 - ■ KL32 - ■ ■ B1**	
	45	3 890	32.33	45 700	1.9	421	**2KJ4410 - ■ KL32 - ■ ■ A1**	
	FD.149-LEN180MQ4P							
	19	9 520	78.98	48 500	0.84	426	**2KJ4410 - ■ KL33 - ■ ■ G1**	
	21	8 290	68.76	48 700	0.96	426	**2KJ4410 - ■ KL33 - ■ ■ F1**	
	26	6 790	56.37	48 400	1.2	426	**2KJ4410 - ■ KL33 - ■ ■ E1**	
	29	6 030	50.01	48 000	1.3	426	**2KJ4410 - ■ KL33 - ■ ■ D1**	
	32	5 460	45.3	47 600	1.5	426	**2KJ4410 - ■ KL33 - ■ ■ C1**	
	37	4 750	39.43	46 900	1.7	426	**2KJ4410 - ■ KL33 - ■ ■ B1**	
	45	3 890	32.33	45 600	1.9	426	**2KJ4410 - ■ KL33 - ■ ■ A1**	
	FZ.149-LEN180MM4E							
	42	4 210	34.93	46 200	1.9	416	**2KJ4310 - ■ KL32 - ■ ■ Q1**	
	47	3 750	31.11	45 400	2.1	416	**2KJ4310 - ■ KL32 - ■ ■ P1**	
	52	3 360	27.94	44 600	2.4	416	**2KJ4310 - ■ KL32 - ■ ■ N1**	
	59	3 000	24.93	43 700	2.7	416	**2KJ4310 - ■ KL32 - ■ ■ M1**	
	66	2 680	22.22	42 800	3.0	416	**2KJ4310 - ■ KL32 - ■ ■ L1**	
	FZ.149-LEN180MQ4P							
	42	4 210	34.93	46 100	1.9	421	**2KJ4310 - ■ KL33 - ■ ■ Q1**	
	47	3 750	31.11	45 300	2.1	421	**2KJ4310 - ■ KL33 - ■ ■ P1**	
	52	3 360	27.94	44 600	2.4	421	**2KJ4310 - ■ KL33 - ■ ■ N1**	
	59	3 000	24.93	43 700	2.7	421	**2KJ4310 - ■ KL33 - ■ ■ M1**	
	66	2 680	22.22	42 700	3.0	421	**2KJ4310 - ■ KL33 - ■ ■ L1**	
	FD.169-LEN180MM4E							
	10	16 900	140.77	73 500	0.8	565	**2KJ4411 - ■ KL32 - ■ ■ L1**	
	12	15 100	125.49	73 500	0.9	565	**2KJ4411 - ■ KL32 - ■ ■ K1**	
	13	13 400	111.3	73 500	1.0	565	**2KJ4411 - ■ KL32 - ■ ■ J1**	
	14	12 300	102.18	73 500	1.1	565	**2KJ4411 - ■ KL32 - ■ ■ H1**	
	16	10 800	90.03	73 500	1.3	565	**2KJ4411 - ■ KL32 - ■ ■ G1**	
	20	8 900	73.85	73 500	1.5	565	**2KJ4411 - ■ KL32 - ■ ■ F1**	
	23	7 800	64.75	73 500	1.7	565	**2KJ4411 - ■ KL32 - ■ ■ E1**	
	29	6 100	50.63	73 500	2.2	565	**2KJ4411 - ■ KL32 - ■ ■ D1**	
	31	5 610	46.55	73 500	2.4	565	**2KJ4411 - ■ KL32 - ■ ■ C1**	
	FD.169-LEN180MQ4P							
	10	16 900	140.77	73 500	0.8	570	**2KJ4411 - ■ KL33 - ■ ■ L1**	
	12	15 100	125.49	73 500	0.9	570	**2KJ4411 - ■ KL33 - ■ ■ K1**	
	13	13 400	111.3	73 500	1.0	570	**2KJ4411 - ■ KL33 - ■ ■ J1**	
	14	12 300	102.18	73 500	1.1	570	**2KJ4411 - ■ KL33 - ■ ■ H1**	
	16	10 800	90.03	73 500	1.3	570	**2KJ4411 - ■ KL33 - ■ ■ G1**	
	20	8 900	73.85	73 500	1.5	570	**2KJ4411 - ■ KL33 - ■ ■ F1**	
	23	7 800	64.75	73 500	1.7	570	**2KJ4411 - ■ KL33 - ■ ■ E1**	
	29	6 100	50.63	73 500	2.2	570	**2KJ4411 - ■ KL33 - ■ ■ D1**	
	31	5 610	46.55	73 500	2.4	570	**2KJ4411 - ■ KL33 - ■ ■ C1**	
	FD.189-LEN180MM4E							
	8.0	21 900	182.03	110 900	0.87	777	**2KJ4412 - ■ KL32 - ■ ■ M1**	
	8.9	19 800	164.61	110 900	0.96	777	**2KJ4412 - ■ KL32 - ■ ■ L1**	
	10	17 500	145.28	110 900	1.1	777	**2KJ4412 - ■ KL32 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
18.5	**FD.189-LEN180MM4E**							
	11	15 600	129.45	110 900	1.2	777	**2KJ4412 - ■ KL32 - ■ ■ J1**	
	12	14 100	117.27	110 900	1.3	777	**2KJ4412 - ■ KL32 - ■ ■ H1**	
	14	12 700	105.48	110 900	1.5	777	**2KJ4412 - ■ KL32 - ■ ■ G1**	
	17	10 500	87.65	110 900	1.8	777	**2KJ4412 - ■ KL32 - ■ ■ F1**	
	19	9 390	77.92	110 900	2.0	777	**2KJ4412 - ■ KL32 - ■ ■ E1**	
	FD.189-LEN180MQ4P							
	8.0	21 900	182.03	110 900	0.87	782	**2KJ4412 - ■ KL33 - ■ ■ M1**	
	8.9	19 800	164.61	110 900	0.96	782	**2KJ4412 - ■ KL33 - ■ ■ L1**	
	10	17 500	145.28	110 900	1.1	782	**2KJ4412 - ■ KL33 - ■ ■ K1**	
	11	15 600	129.45	110 900	1.2	782	**2KJ4412 - ■ KL33 - ■ ■ J1**	
	12	14 100	117.27	110 900	1.3	782	**2KJ4412 - ■ KL33 - ■ ■ H1**	
	14	12 700	105.48	110 900	1.5	782	**2KJ4412 - ■ KL33 - ■ ■ G1**	
	17	10 500	87.65	110 900	1.8	782	**2KJ4412 - ■ KL33 - ■ ■ F1**	
	19	9 390	77.92	110 900	2.0	782	**2KJ4412 - ■ KL33 - ■ ■ E1**	
22	**FZ.89-LEN180LL4E**							
	98	2 130	14.9	14 300	0.87	253	**2KJ4306 - ■ KN32 - ■ ■ L1**	
	112	1 870	13.07	14 500	0.99	253	**2KJ4306 - ■ KN32 - ■ ■ K1**	
	129	1 630	11.38	14 600	1.1	253	**2KJ4306 - ■ KN32 - ■ ■ J1**	
	151	1 390	9.73	14 600	1.3	253	**2KJ4306 - ■ KN32 - ■ ■ H1**	
	176	1 190	8.33	14 500	1.5	253	**2KJ4306 - ■ KN32 - ■ ■ G1**	
	193	1 090	7.60	14 100	1.0	253	**2KJ4306 - ■ KN32 - ■ ■ F1**	
	218	960	6.72	14 000	1.2	253	**2KJ4306 - ■ KN32 - ■ ■ E1**	
	248	845	5.90	13 800	1.3	253	**2KJ4306 - ■ KN32 - ■ ■ D1**	
	286	735	5.13	13 500	1.5	253	**2KJ4306 - ■ KN32 - ■ ■ C1**	
	334	630	4.39	13 200	1.7	253	**2KJ4306 - ■ KN32 - ■ ■ B1**	
	390	535	3.76	12 900	1.8	253	**2KJ4306 - ■ KN32 - ■ ■ A1**	
	FZ.89-LEN180LQ4P							
	98	2 130	14.9	14 300	0.87	265	**2KJ4306 - ■ KP33 - ■ ■ L1**	
	112	1 870	13.07	14 500	0.99	265	**2KJ4306 - ■ KP33 - ■ ■ K1**	
	129	1 630	11.38	14 500	1.1	265	**2KJ4306 - ■ KP33 - ■ ■ J1**	
	151	1 390	9.73	14 600	1.3	265	**2KJ4306 - ■ KP33 - ■ ■ H1**	
	176	1 190	8.33	14 500	1.5	265	**2KJ4306 - ■ KP33 - ■ ■ G1**	
	193	1 090	7.60	14 100	1.0	265	**2KJ4306 - ■ KP33 - ■ ■ F1**	
	218	960	6.72	14 000	1.2	265	**2KJ4306 - ■ KP33 - ■ ■ E1**	
	248	845	5.90	13 800	1.3	265	**2KJ4306 - ■ KP33 - ■ ■ D1**	
	286	735	5.13	13 500	1.5	265	**2KJ4306 - ■ KP33 - ■ ■ C1**	
	334	630	4.39	13 200	1.7	265	**2KJ4306 - ■ KP33 - ■ ■ B1**	
	390	535	3.76	12 900	1.8	265	**2KJ4306 - ■ KP33 - ■ ■ A1**	
	FZ.109-LEN180LL4E							
	59	3 560	24.82	19 600	0.87	292	**2KJ4307 - ■ KN32 - ■ ■ P1**	
	68	3 110	21.7	19 800	1.0	292	**2KJ4307 - ■ KN32 - ■ ■ N1**	
	76	2 770	19.36	19 900	1.1	292	**2KJ4307 - ■ KN32 - ■ ■ M1**	
	86	2 440	17.06	19 900	1.3	292	**2KJ4307 - ■ KN32 - ■ ■ L1**	
	98	2 140	14.95	19 800	1.4	292	**2KJ4307 - ■ KN32 - ■ ■ K1**	
	112	1 860	13.03	19 700	1.7	292	**2KJ4307 - ■ KN32 - ■ ■ J1**	
	123	1 700	11.89	19 500	1.8	292	**2KJ4307 - ■ KN32 - ■ ■ H1**	
	143	1 460	10.23	19 200	2.0	292	**2KJ4307 - ■ KN32 - ■ ■ G1**	
	162	1 290	9.02	18 700	1.6	292	**2KJ4307 - ■ KN32 - ■ ■ F1**	
	185	1 130	7.94	18 400	1.8	292	**2KJ4307 - ■ KN32 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**FZ.109-LEN180LL4E**							
	210	995	6.96	18 000	1.9	292	**2KJ4307 - ■ KN32 - ■ ■ D1**	
	241	870	6.07	17 500	2.1	292	**2KJ4307 - ■ KN32 - ■ ■ C1**	
	264	795	5.54	17 200	2.2	292	**2KJ4307 - ■ KN32 - ■ ■ B1**	
	307	680	4.77	16 800	2.4	292	**2KJ4307 - ■ KN32 - ■ ■ A1**	
	FZ.109-LEN180LQ4P							
	59	3 560	24.82	19 600	0.87	304	**2KJ4307 - ■ KP33 - ■ ■ P1**	
	68	3 110	21.7	19 800	1.0	304	**2KJ4307 - ■ KP33 - ■ ■ N1**	
	76	2 770	19.36	19 900	1.1	304	**2KJ4307 - ■ KP33 - ■ ■ M1**	
	86	2 440	17.06	19 900	1.3	304	**2KJ4307 - ■ KP33 - ■ ■ L1**	
	98	2 140	14.95	19 800	1.4	304	**2KJ4307 - ■ KP33 - ■ ■ K1**	
	112	1 860	13.03	19 600	1.7	304	**2KJ4307 - ■ KP33 - ■ ■ J1**	
	123	1 700	11.89	19 500	1.8	304	**2KJ4307 - ■ KP33 - ■ ■ H1**	
	143	1 460	10.23	19 100	2.0	304	**2KJ4307 - ■ KP33 - ■ ■ G1**	
	162	1 290	9.02	18 700	1.6	304	**2KJ4307 - ■ KP33 - ■ ■ F1**	
	185	1 130	7.94	18 400	1.8	304	**2KJ4307 - ■ KP33 - ■ ■ E1**	
	210	995	6.96	18 000	1.9	304	**2KJ4307 - ■ KP33 - ■ ■ D1**	
	241	870	6.07	17 500	2.1	304	**2KJ4307 - ■ KP33 - ■ ■ C1**	
	264	795	5.54	17 200	2.2	304	**2KJ4307 - ■ KP33 - ■ ■ B1**	
	307	680	4.77	16 700	2.4	304	**2KJ4307 - ■ KP33 - ■ ■ A1**	
	FZ.129-LEN180LL4E							
	50	4 170	29.13	30 300	1.2	343	**2KJ4308 - ■ KN32 - ■ ■ Q1**	
	56	3 710	25.93	30 200	1.3	343	**2KJ4308 - ■ KN32 - ■ ■ P1**	
	63	3 330	23.23	29 900	1.5	343	**2KJ4308 - ■ KN32 - ■ ■ N1**	
	71	2 950	20.6	29 600	1.6	343	**2KJ4308 - ■ KN32 - ■ ■ M1**	
	81	2 600	18.18	29 200	1.9	343	**2KJ4308 - ■ KN32 - ■ ■ L1**	
	92	2 290	15.99	28 700	2.1	343	**2KJ4308 - ■ KN32 - ■ ■ K1**	
	101	2 070	14.48	28 300	2.3	343	**2KJ4308 - ■ KN32 - ■ ■ J1**	
	116	1 800	12.61	27 600	2.5	343	**2KJ4308 - ■ KN32 - ■ ■ H1**	
	142	1 480	10.34	26 600	2.9	343	**2KJ4308 - ■ KN32 - ■ ■ G1**	
	149	1 400	9.80	26 000	2.6	343	**2KJ4308 - ■ KN32 - ■ ■ F1**	
	169	1 240	8.65	25 400	2.9	343	**2KJ4308 - ■ KN32 - ■ ■ E1**	
	193	1 090	7.60	24 700	3.3	343	**2KJ4308 - ■ KN32 - ■ ■ D1**	
	213	985	6.89	24 200	3.7	343	**2KJ4308 - ■ KN32 - ■ ■ C1**	
	244	860	6.00	23 500	4.2	343	**2KJ4308 - ■ KN32 - ■ ■ B1**	
	298	705	4.92	22 500	4.3	343	**2KJ4308 - ■ KN32 - ■ ■ A1**	
	FZ.129-LEN180LQ4P							
	50	4 170	29.13	30 300	1.2	355	**2KJ4308 - ■ KP33 - ■ ■ Q1**	
	56	3 710	25.93	30 100	1.3	355	**2KJ4308 - ■ KP33 - ■ ■ P1**	
	63	3 330	23.23	29 900	1.5	355	**2KJ4308 - ■ KP33 - ■ ■ N1**	
	71	2 950	20.6	29 600	1.6	355	**2KJ4308 - ■ KP33 - ■ ■ M1**	
	81	2 600	18.18	29 100	1.9	355	**2KJ4308 - ■ KP33 - ■ ■ L1**	
	92	2 290	15.99	28 600	2.1	355	**2KJ4308 - ■ KP33 - ■ ■ K1**	
	101	2 070	14.48	28 200	2.3	355	**2KJ4308 - ■ KP33 - ■ ■ J1**	
	116	1 800	12.61	27 600	2.5	355	**2KJ4308 - ■ KP33 - ■ ■ H1**	
	142	1 480	10.34	26 600	2.9	355	**2KJ4308 - ■ KP33 - ■ ■ G1**	
	149	1 400	9.80	26 000	2.6	355	**2KJ4308 - ■ KP33 - ■ ■ F1**	
	169	1 240	8.65	25 300	2.9	355	**2KJ4308 - ■ KP33 - ■ ■ E1**	
	193	1 090	7.60	24 700	3.3	355	**2KJ4308 - ■ KP33 - ■ ■ D1**	
	213	985	6.89	24 200	3.7	355	**2KJ4308 - ■ KP33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**FZ.129-LEN180LQ4P**							
	244	860	6.00	23 500	4.2	355	**2KJ4308 - ■ KP33 - ■ ■ B1**	
	298	705	4.92	22 400	4.3	355	**2KJ4308 - ■ KP33 - ■ ■ A1**	
	FD.149-LEN180LL4E							
	21	9 860	68.76	44 800	0.81	436	**2KJ4410 - ■ KN32 - ■ ■ F1**	
	26	8 080	56.37	45 200	0.99	436	**2KJ4410 - ■ KN32 - ■ ■ E1**	
	29	7 170	50.01	45 200	1.1	436	**2KJ4410 - ■ KN32 - ■ ■ D1**	
	32	6 490	45.3	45 100	1.2	436	**2KJ4410 - ■ KN32 - ■ ■ C1**	
	37	5 650	39.43	44 700	1.4	436	**2KJ4410 - ■ KN32 - ■ ■ B1**	
	45	4 630	32.33	43 800	1.6	436	**2KJ4410 - ■ KN32 - ■ ■ A1**	
	FD.149-LEN180LQ4P							
	21	9 860	68.76	44 700	0.81	448	**2KJ4410 - ■ KP33 - ■ ■ F1**	
	26	8 080	56.37	45 200	0.99	448	**2KJ4410 - ■ KP33 - ■ ■ E1**	
	29	7 170	50.01	45 100	1.1	448	**2KJ4410 - ■ KP33 - ■ ■ D1**	
	32	6 490	45.3	45 000	1.2	448	**2KJ4410 - ■ KP33 - ■ ■ C1**	
	37	5 650	39.43	44 600	1.4	448	**2KJ4410 - ■ KP33 - ■ ■ B1**	
	45	4 630	32.33	43 800	1.6	448	**2KJ4410 - ■ KP33 - ■ ■ A1**	
	FZ.149-LEN180LL4E							
	42	5 000	34.93	44 200	1.6	431	**2KJ4310 - ■ KN32 - ■ ■ Q1**	
	47	4 460	31.11	43 600	1.8	431	**2KJ4310 - ■ KN32 - ■ ■ P1**	
	52	4 000	27.94	43 000	2.0	431	**2KJ4310 - ■ KN32 - ■ ■ N1**	
	59	3 570	24.93	42 300	2.2	431	**2KJ4310 - ■ KN32 - ■ ■ M1**	
	66	3 180	22.22	41 500	2.5	431	**2KJ4310 - ■ KN32 - ■ ■ L1**	
	74	2 820	19.71	40 700	2.8	431	**2KJ4310 - ■ KN32 - ■ ■ K1**	
	81	2 590	18.1	40 100	3.1	431	**2KJ4310 - ■ KN32 - ■ ■ J1**	
	FZ.149-LEN180LQ4P							
	42	5 000	34.93	44 100	1.6	443	**2KJ4310 - ■ KP33 - ■ ■ Q1**	
	47	4 460	31.11	43 500	1.8	443	**2KJ4310 - ■ KP33 - ■ ■ P1**	
	52	4 000	27.94	43 000	2.0	443	**2KJ4310 - ■ KP33 - ■ ■ N1**	
	59	3 570	24.93	42 300	2.2	443	**2KJ4310 - ■ KP33 - ■ ■ M1**	
	66	3 180	22.22	41 500	2.5	443	**2KJ4310 - ■ KP33 - ■ ■ L1**	
	74	2 820	19.71	40 600	2.8	443	**2KJ4310 - ■ KP33 - ■ ■ K1**	
	81	2 590	18.1	40 000	3.1	443	**2KJ4310 - ■ KP33 - ■ ■ J1**	
	FD.169-LEN180LL4E							
	13	15 900	111.3	73 500	0.85	580	**2KJ4411 - ■ KN32 - ■ ■ J1**	
	14	14 600	102.18	73 500	0.93	580	**2KJ4411 - ■ KN32 - ■ ■ H1**	
	16	12 900	90.03	73 500	1.1	580	**2KJ4411 - ■ KN32 - ■ ■ G1**	
	20	10 500	73.85	73 500	1.3	580	**2KJ4411 - ■ KN32 - ■ ■ F1**	
	23	9 280	64.75	73 500	1.5	580	**2KJ4411 - ■ KN32 - ■ ■ E1**	
	29	7 260	50.63	73 500	1.9	580	**2KJ4411 - ■ KN32 - ■ ■ D1**	
	31	6 670	46.55	72 700	2.0	580	**2KJ4411 - ■ KN32 - ■ ■ C1**	
	36	5 850	40.82	71 000	2.3	580	**2KJ4411 - ■ KN32 - ■ ■ B1**	
	FD.169-LEN180LQ4P							
	13	15 900	111.3	73 500	0.85	592	**2KJ4411 - ■ KP33 - ■ ■ J1**	
	14	14 600	102.18	73 500	0.93	592	**2KJ4411 - ■ KP33 - ■ ■ H1**	
	16	12 900	90.03	73 500	1.1	592	**2KJ4411 - ■ KP33 - ■ ■ G1**	
	20	10 500	73.85	73 500	1.3	592	**2KJ4411 - ■ KP33 - ■ ■ F1**	
	23	9 280	64.75	73 500	1.5	592	**2KJ4411 - ■ KP33 - ■ ■ E1**	
	29	7 260	50.63	73 500	1.9	592	**2KJ4411 - ■ KP33 - ■ ■ D1**	
	31	6 670	46.55	72 600	2.0	592	**2KJ4411 - ■ KP33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**FD.169-LEN180LQ4P**							
	36	5 850	40.82	71 000	2.3	592	**2KJ4411 - ■ KP33 - ■ ■ B1**	
	FZ.169-LEN180LL4E							
	36	5 890	41.07	71 100	2.3	565	**2KJ4311 - ■ KN32 - ■ ■ R1**	
	40	5 290	36.94	69 800	2.6	565	**2KJ4311 - ■ KN32 - ■ ■ Q1**	
	FZ.169-LEN180LQ4P							
	36	5 890	41.07	71 000	2.3	577	**2KJ4311 - ■ KP33 - ■ ■ R1**	
	40	5 290	36.94	69 700	2.6	577	**2KJ4311 - ■ KP33 - ■ ■ Q1**	
	FD.189-LEN180LL4E							
	8.9	23 600	164.61	109 900	0.8	792	**2KJ4412 - ■ KN32 - ■ ■ L1**	
	10	20 800	145.28	110 900	0.91	792	**2KJ4412 - ■ KN32 - ■ ■ K1**	
	11	18 500	129.45	110 900	1.0	792	**2KJ4412 - ■ KN32 - ■ ■ J1**	
	12	16 800	117.27	110 900	1.1	792	**2KJ4412 - ■ KN32 - ■ ■ H1**	
	14	15 100	105.48	110 900	1.3	792	**2KJ4412 - ■ KN32 - ■ ■ G1**	
	17	12 500	87.65	110 900	1.5	792	**2KJ4412 - ■ KN32 - ■ ■ F1**	
	19	11 100	77.92	110 900	1.7	792	**2KJ4412 - ■ KN32 - ■ ■ E1**	
	24	8 900	62.11	110 900	2.1	792	**2KJ4412 - ■ KN32 - ■ ■ D1**	
	FD.189-LEN180LQ4P							
	8.9	23 600	164.61	109 900	0.8	804	**2KJ4412 - ■ KP33 - ■ ■ L1**	
	10	20 800	145.28	110 900	0.91	804	**2KJ4412 - ■ KP33 - ■ ■ K1**	
	11	18 500	129.45	110 900	1.0	804	**2KJ4412 - ■ KP33 - ■ ■ J1**	
	12	16 800	117.27	110 900	1.1	804	**2KJ4412 - ■ KP33 - ■ ■ H1**	
	14	15 100	105.48	110 900	1.3	804	**2KJ4412 - ■ KP33 - ■ ■ G1**	
	17	12 500	87.65	110 900	1.5	804	**2KJ4412 - ■ KP33 - ■ ■ F1**	
	19	11 100	77.92	110 900	1.7	804	**2KJ4412 - ■ KP33 - ■ ■ E1**	
	24	8 900	62.11	110 900	2.1	804	**2KJ4412 - ■ KP33 - ■ ■ D1**	
30	**FZ.109-LEN200LN4E**							
	76	3 770	19.36	16 600	0.82	362	**2KJ4307 - ■ LM32 - ■ ■ M1**	
	86	3 320	17.06	17 000	0.93	362	**2KJ4307 - ■ LM32 - ■ ■ L1**	
	98	2 910	14.95	17 300	1.1	362	**2KJ4307 - ■ LM32 - ■ ■ K1**	
	113	2 540	13.03	17 400	1.2	362	**2KJ4307 - ■ LM32 - ■ ■ J1**	
	124	2 310	11.89	17 500	1.3	362	**2KJ4307 - ■ LM32 - ■ ■ H1**	
	144	1 990	10.23	17 400	1.4	362	**2KJ4307 - ■ LM32 - ■ ■ G1**	
	163	1 750	9.02	17 200	1.2	362	**2KJ4307 - ■ LM32 - ■ ■ F1**	
	185	1 540	7.94	17 000	1.3	362	**2KJ4307 - ■ LM32 - ■ ■ E1**	
	211	1 350	6.96	16 800	1.4	362	**2KJ4307 - ■ LM32 - ■ ■ D1**	
	242	1 180	6.07	16 500	1.5	362	**2KJ4307 - ■ LM32 - ■ ■ C1**	
	265	1 080	5.54	16 300	1.6	362	**2KJ4307 - ■ LM32 - ■ ■ B1**	
	308	930	4.77	15 900	1.7	362	**2KJ4307 - ■ LM32 - ■ ■ A1**	
	FZ.109-LEN200LT4P							
	76	3 770	19.36	16 600	0.82	372	**2KJ4307 - ■ LN33 - ■ ■ M1**	
	86	3 320	17.06	17 000	0.93	372	**2KJ4307 - ■ LN33 - ■ ■ L1**	
	98	2 910	14.95	17 300	1.1	372	**2KJ4307 - ■ LN33 - ■ ■ K1**	
	113	2 540	13.03	17 400	1.2	372	**2KJ4307 - ■ LN33 - ■ ■ J1**	
	124	2 310	11.89	17 500	1.3	372	**2KJ4307 - ■ LN33 - ■ ■ H1**	
	144	1 990	10.23	17 400	1.4	372	**2KJ4307 - ■ LN33 - ■ ■ G1**	
	163	1 750	9.02	17 200	1.2	372	**2KJ4307 - ■ LN33 - ■ ■ F1**	
	185	1 540	7.94	17 000	1.3	372	**2KJ4307 - ■ LN33 - ■ ■ E1**	
	211	1 350	6.96	16 800	1.4	372	**2KJ4307 - ■ LN33 - ■ ■ D1**	
	242	1 180	6.07	16 500	1.5	372	**2KJ4307 - ■ LN33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**FZ.109-LEN200LT4P**							
	265	1 080	5.54	16 300	1.6	372	**2KJ4307 - ■ LN33 - ■ ■ B1**	
	308	930	4.77	15 900	1.7	372	**2KJ4307 - ■ LN33 - ■ ■ A1**	
	FZ.129-LEN200LN4E							
	57	5 050	25.93	26 400	0.96	413	**2KJ4308 - ■ LM32 - ■ ■ P1**	
	63	4 520	23.23	26 600	1.1	413	**2KJ4308 - ■ LM32 - ■ ■ N1**	
	71	4 010	20.6	26 600	1.2	413	**2KJ4308 - ■ LM32 - ■ ■ M1**	
	81	3 540	18.18	26 500	1.4	413	**2KJ4308 - ■ LM32 - ■ ■ L1**	
	92	3 110	15.99	26 300	1.5	413	**2KJ4308 - ■ LM32 - ■ ■ K1**	
	102	2 820	14.48	26 100	1.7	413	**2KJ4308 - ■ LM32 - ■ ■ J1**	
	117	2 450	12.61	25 800	1.8	413	**2KJ4308 - ■ LM32 - ■ ■ H1**	
	142	2 010	10.34	25 100	2.1	413	**2KJ4308 - ■ LM32 - ■ ■ G1**	
	150	1 910	9.80	24 400	1.9	413	**2KJ4308 - ■ LM32 - ■ ■ F1**	
	170	1 680	8.65	24 000	2.2	413	**2KJ4308 - ■ LM32 - ■ ■ E1**	
	193	1 480	7.60	23 500	2.4	413	**2KJ4308 - ■ LM32 - ■ ■ D1**	
	213	1 340	6.89	23 100	2.7	413	**2KJ4308 - ■ LM32 - ■ ■ C1**	
	245	1 160	6.00	22 600	3.1	413	**2KJ4308 - ■ LM32 - ■ ■ B1**	
	299	955	4.92	21 700	3.2	413	**2KJ4308 - ■ LM32 - ■ ■ A1**	
	FZ.129-LEN200LT4P							
	57	5 050	25.93	26 400	0.96	423	**2KJ4308 - ■ LN33 - ■ ■ P1**	
	63	4 520	23.23	26 600	1.1	423	**2KJ4308 - ■ LN33 - ■ ■ N1**	
	71	4 010	20.6	26 600	1.2	423	**2KJ4308 - ■ LN33 - ■ ■ M1**	
	81	3 540	18.18	26 500	1.4	423	**2KJ4308 - ■ LN33 - ■ ■ L1**	
	92	3 110	15.99	26 300	1.5	423	**2KJ4308 - ■ LN33 - ■ ■ K1**	
	102	2 820	14.48	26 100	1.7	423	**2KJ4308 - ■ LN33 - ■ ■ J1**	
	117	2 450	12.61	25 800	1.8	423	**2KJ4308 - ■ LN33 - ■ ■ H1**	
	142	2 010	10.34	25 100	2.1	423	**2KJ4308 - ■ LN33 - ■ ■ G1**	
	150	1 910	9.80	24 400	1.9	423	**2KJ4308 - ■ LN33 - ■ ■ F1**	
	170	1 680	8.65	24 000	2.2	423	**2KJ4308 - ■ LN33 - ■ ■ E1**	
	193	1 480	7.60	23 500	2.4	423	**2KJ4308 - ■ LN33 - ■ ■ D1**	
	213	1 340	6.89	23 100	2.7	423	**2KJ4308 - ■ LN33 - ■ ■ C1**	
	245	1 160	6.00	22 600	3.1	423	**2KJ4308 - ■ LN33 - ■ ■ B1**	
	299	955	4.92	21 700	3.2	423	**2KJ4308 - ■ LN33 - ■ ■ A1**	
	FD.149-LEN200LN4E							
	29	9 740	50.01	38 700	0.82	505	**2KJ4410 - ■ LM32 - ■ ■ D1**	
	32	8 820	45.3	39 200	0.91	505	**2KJ4410 - ■ LM32 - ■ ■ C1**	
	37	7 680	39.43	39 500	1.0	505	**2KJ4410 - ■ LM32 - ■ ■ B1**	
	45	6 300	32.33	39 600	1.2	505	**2KJ4410 - ■ LM32 - ■ ■ A1**	
	FD.149-LEN200LT4P							
	29	9 740	50.01	38 700	0.82	515	**2KJ4410 - ■ LN33 - ■ ■ D1**	
	32	8 820	45.3	39 200	0.91	515	**2KJ4410 - ■ LN33 - ■ ■ C1**	
	37	7 680	39.43	39 500	1.0	515	**2KJ4410 - ■ LN33 - ■ ■ B1**	
	45	6 300	32.33	39 600	1.2	515	**2KJ4410 - ■ LN33 - ■ ■ A1**	
	FZ.149-LEN200LN4E							
	47	6 060	31.11	39 500	1.3	500	**2KJ4310 - ■ LM32 - ■ ■ P1**	
	53	5 440	27.94	39 400	1.5	500	**2KJ4310 - ■ LM32 - ■ ■ N1**	
	59	4 850	24.93	39 000	1.6	500	**2KJ4310 - ■ LM32 - ■ ■ M1**	
	66	4 330	22.22	38 600	1.8	500	**2KJ4310 - ■ LM32 - ■ ■ L1**	
	75	3 840	19.71	38 100	2.1	500	**2KJ4310 - ■ LM32 - ■ ■ K1**	
	81	3 520	18.1	37 700	2.3	500	**2KJ4310 - ■ LM32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**FZ.149-LEN200LN4E**							
	92	3 100	15.94	37 000	2.6	500	**2KJ4310 - ■ LM32 - ■ ■ H1**	
	112	2 540	13.08	35 800	3.0	500	**2KJ4310 - ■ LM32 - ■ ■ G1**	
	128	2 230	11.47	35 000	3.3	500	**2KJ4310 - ■ LM32 - ■ ■ F1**	
	164	1 740	8.97	33 300	3.9	500	**2KJ4310 - ■ LM32 - ■ ■ E1**	
	182	1 570	8.09	32 300	3.6	500	**2KJ4310 - ■ LM32 - ■ ■ D1**	
	221	1 290	6.64	31 000	4.4	500	**2KJ4310 - ■ LM32 - ■ ■ C1**	
	FZ.149-LEN200LT4P							
	47	6 060	31.11	39 500	1.3	510	**2KJ4310 - ■ LN33 - ■ ■ P1**	
	53	5 440	27.94	39 400	1.5	510	**2KJ4310 - ■ LN33 - ■ ■ N1**	
	59	4 850	24.93	39 000	1.6	510	**2KJ4310 - ■ LN33 - ■ ■ M1**	
	66	4 330	22.22	38 600	1.8	510	**2KJ4310 - ■ LN33 - ■ ■ L1**	
	75	3 840	19.71	38 100	2.1	510	**2KJ4310 - ■ LN33 - ■ ■ K1**	
	81	3 520	18.1	37 700	2.3	510	**2KJ4310 - ■ LN33 - ■ ■ J1**	
	92	3 100	15.94	37 000	2.6	510	**2KJ4310 - ■ LN33 - ■ ■ H1**	
	112	2 540	13.08	35 800	3.0	510	**2KJ4310 - ■ LN33 - ■ ■ G1**	
	128	2 230	11.47	35 000	3.3	510	**2KJ4310 - ■ LN33 - ■ ■ F1**	
	164	1 740	8.97	33 300	3.9	510	**2KJ4310 - ■ LN33 - ■ ■ E1**	
	182	1 570	8.09	32 300	3.6	510	**2KJ4310 - ■ LN33 - ■ ■ D1**	
	221	1 290	6.64	31 000	4.4	510	**2KJ4310 - ■ LN33 - ■ ■ C1**	
	FD.169-LEN200LN4E							
	20	14 300	73.85	69 500	0.94	651	**2KJ4411 - ■ LM32 - ■ ■ F1**	
	23	12 600	64.75	69 200	1.1	651	**2KJ4411 - ■ LM32 - ■ ■ E1**	
	29	9 860	50.63	68 100	1.4	651	**2KJ4411 - ■ LM32 - ■ ■ D1**	
	32	9 070	46.55	67 600	1.5	651	**2KJ4411 - ■ LM32 - ■ ■ C1**	
	36	7 950	40.82	66 600	1.7	651	**2KJ4411 - ■ LM32 - ■ ■ B1**	
	46	6 220	31.92	64 300	2.2	651	**2KJ4411 - ■ LM32 - ■ ■ A1**	
	FD.169-LEN200LT4P							
	20	14 300	73.85	69 500	0.94	661	**2KJ4411 - ■ LN33 - ■ ■ F1**	
	23	12 600	64.75	69 200	1.1	661	**2KJ4411 - ■ LN33 - ■ ■ E1**	
	29	9 860	50.63	68 100	1.4	661	**2KJ4411 - ■ LN33 - ■ ■ D1**	
	32	9 070	46.55	67 600	1.5	661	**2KJ4411 - ■ LN33 - ■ ■ C1**	
	36	7 950	40.82	66 600	1.7	661	**2KJ4411 - ■ LN33 - ■ ■ B1**	
	46	6 220	31.92	64 300	2.2	661	**2KJ4411 - ■ LN33 - ■ ■ A1**	
	FZ.169-LEN200LN4E							
	40	7 200	36.94	65 700	1.9	636	**2KJ4311 - ■ LM32 - ■ ■ Q1**	
	45	6 430	33.02	64 600	2.1	636	**2KJ4311 - ■ LM32 - ■ ■ P1**	
	49	5 820	29.86	63 600	2.3	636	**2KJ4311 - ■ LM32 - ■ ■ N1**	
	56	5 130	26.35	62 200	2.6	636	**2KJ4311 - ■ LM32 - ■ ■ M1**	
	63	4 570	23.48	60 900	3.0	636	**2KJ4311 - ■ LM32 - ■ ■ L1**	
	FZ.169-LEN200LT4P							
	40	7 200	36.94	65 700	1.9	646	**2KJ4311 - ■ LN33 - ■ ■ Q1**	
	45	6 430	33.02	64 600	2.1	646	**2KJ4311 - ■ LN33 - ■ ■ P1**	
	49	5 820	29.86	63 600	2.3	646	**2KJ4311 - ■ LN33 - ■ ■ N1**	
	56	5 130	26.35	62 200	2.6	646	**2KJ4311 - ■ LN33 - ■ ■ M1**	
	63	4 570	23.48	60 900	3.0	646	**2KJ4311 - ■ LN33 - ■ ■ L1**	
	FD.189-LEN200LN4E							
	13	22 800	117.27	110 400	0.83	863	**2KJ4412 - ■ LM32 - ■ ■ H1**	
	14	20 500	105.48	110 900	0.92	863	**2KJ4412 - ■ LM32 - ■ ■ G1**	
	17	17 000	87.65	110 900	1.1	863	**2KJ4412 - ■ LM32 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**FD.189-LEN200LN4E**							
	19	15 100	77.92	110 200	1.3	863	**2KJ4412 - ■ LM32 - ■ ■ E1**	
	24	12 100	62.11	106 800	1.6	863	**2KJ4412 - ■ LM32 - ■ ■ D1**	
	30	9 630	49.43	102 900	2.0	863	**2KJ4412 - ■ LM32 - ■ ■ C1**	
	36	7 910	40.61	99 200	2.4	863	**2KJ4412 - ■ LM32 - ■ ■ B1**	
	FD.189-LEN200LT4P							
	13	22 800	117.27	110 400	0.83	873	**2KJ4412 - ■ LN33 - ■ ■ H1**	
	14	20 500	105.48	110 900	0.92	873	**2KJ4412 - ■ LN33 - ■ ■ G1**	
	17	17 000	87.65	110 900	1.1	873	**2KJ4412 - ■ LN33 - ■ ■ F1**	
	19	15 100	77.92	110 200	1.3	873	**2KJ4412 - ■ LN33 - ■ ■ E1**	
	24	12 100	62.11	106 800	1.6	873	**2KJ4412 - ■ LN33 - ■ ■ D1**	
	30	9 630	49.43	102 900	2.0	873	**2KJ4412 - ■ LN33 - ■ ■ C1**	
	36	7 910	40.61	99 200	2.4	873	**2KJ4412 - ■ LN33 - ■ ■ B1**	
	FZ.189-LEN200LN4E							
	39	7 390	37.93	97 900	2.6	835	**2KJ4312 - ■ LM32 - ■ ■ L1**	
	FZ.189-LEN200LT4P							
	39	7 390	37.93	97 900	2.6	845	**2KJ4312 - ■ LN33 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.29																			
298.58	4.9	150	5 220	7.9	0.02	94054/315	✓	✓											**2KJ4401 - ■■■■■ - ■■ Q1**
264.39	5.5	150	5 220	8.0	0.03	92537/350	✓	✓	✓	✓									**2KJ4401 - ■■■■■ - ■■ P1**
229.72	6.3	150	5 220	8.0	0.04	80401/350	✓	✓	✓	✓									**2KJ4401 - ■■■■■ - ■■ N1**
208.83	6.9	150	5 220	8.0	0.05	80401/385	✓	✓	✓	✓									**2KJ4401 - ■■■■■ - ■■ M1**
177.71	8.2	150	5 220	8.0	0.06	62197/350	✓	✓	✓	✓									**2KJ4401 - ■■■■■ - ■■ L1**
161.55	9	150	5 220	8.0	0.08	62197/385	✓	✓	✓	✓									**2KJ4401 - ■■■■■ - ■■ K1**
140.86	10	150	5 220	8.0	0.09	19721/140	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ J1**
126.09	11	150	5 220	8.0	0.12	48544/385	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ H1**
111.97	13	150	5 220	8.0	0.14	47027/420	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ G1**
103.36	14	150	5 220	8.0	0.17	47027/455	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ F1**
89.78	16	150	5 220	8.1	0.19	43993/490	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ E1**
78.02	19	150	5 220	8.0	0.19	13653/175	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ D1**
70.43	21	150	5 220	8.1	0.25	19721/280	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ C1**
66.29	22	150	5 220	8.1	0.29	39442/595	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ B1**
57.79	25	150	5 220	8.1	0.33	6068/105	✓	✓	✓	✓	✓								**2KJ4401 - ■■■■■ - ■■ A1**
FZ.29																			
56.73	26	150	5 220	7.6	0.04	851/15	✓	✓											**2KJ4301 - ■■■■■ - ■■ C2**
50.32	29	150	5 220	8.0	0.05	1258/25	✓	✓	✓	✓									**2KJ4301 - ■■■■■ - ■■ B2**
43.66	33	150	5 220	8.0	0.06	2183/50	✓	✓	✓	✓									**2KJ4301 - ■■■■■ - ■■ A2**
39.69	37	150	5 220	8.0	0.08	2183/55	✓	✓	✓	✓									**2KJ4301 - ■■■■■ - ■■ X1**
34.04	43	150	4 910	8.1	0.10	851/25	✓	✓	✓	✓									**2KJ4301 - ■■■■■ - ■■ W1**
30.95	47	150	4 720	8.1	0.12	1702/55	✓	✓	✓	✓									**2KJ4301 - ■■■■■ - ■■ V1**
27.13	53	150	4 460	8.2	0.14	407/15	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ U1**
24.22	60	150	4 250	8.3	0.17	1332/55	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ T1**
21.58	67	150	4 040	8.4	0.20	259/12	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ S1**
19.92	73	150	3 910	8.4	0.24	259/13	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ R1**
17.44	83	150	3 680	8.6	0.28	1221/70	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ Q1**
15.29	95	150	3 470	8.8	0.30	1147/75	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ P1**
13.88	104	150	3 320	8.9	0.38	111/8	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ N1**
13.06	111	150	3 230	8.9	0.44	222/17	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ M1**
11.51	126	143	3 100	8.6	0.50	518/45	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ L1**
9.99	145	136	2 960	8.8	0.67	999/100	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ K1**
9.69	150	143	2 660	13.8	0.26	2664/275	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ J1**
8.63	168	130	2 640	14.0	0.32	259/30	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ H1**
7.97	182	120	2 630	14.0	0.38	518/65	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ G1**
6.98	208	123	2 440	14.5	0.46	1221/175	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ F1**
6.12	237	114	2 370	15.0	0.53	2294/375	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ E1**
5.55	261	108	2 320	15.3	0.66	111/20	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ D1**
5.22	278	106	2 300	15.3	0.76	444/85	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ C1**
4.60	315	97	2 280	15.3	0.92	1036/225	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ B1**
4.00	362	91	2 250	15.0	1.21	999/250	✓	✓	✓	✓	✓								**2KJ4301 - ■■■■■ - ■■ A1**

1) Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.39																			
274.26	5.3	290	5 820	6.9	0.04	32637/119	✓	✓											**2KJ4402 - ■■■■■ - ■■ R1**
243.26	6	290	5 820	7.0	0.05	8514/35	✓	✓	✓	✓									**2KJ4402 - ■■■■■ - ■■ Q1**
211.06	6.9	290	5 820	7.0	0.06	251163/1190	✓	✓	✓	✓									**2KJ4402 - ■■■■■ - ■■ P1**
191.87	7.6	290	5 820	7.0	0.07	22833/119	✓	✓	✓	✓									**2KJ4402 - ■■■■■ - ■■ N1**
164.56	8.8	290	5 820	7.0	0.09	97911/595	✓	✓	✓	✓									**2KJ4402 - ■■■■■ - ■■ M1**
149.60	9.7	290	5 820	7.0	0.11	17802/119	✓	✓	✓	✓									**2KJ4402 - ■■■■■ - ■■ L1**
131.17	11	290	5 820	7.0	0.12	15609/119	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ K1**
117.08	12	290	5 820	7.0	0.15	13932/119	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ J1**
104.34	14	290	5 820	7.0	0.18	7095/68	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ H1**
96.31	15	290	5 820	7.0	0.21	21285/221	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ G1**
84.32	17	290	5 820	7.1	0.25	140481/1666	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ F1**
73.93	20	290	5 820	7.1	0.24	43989/595	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ E1**
67.07	22	290	5 820	7.2	0.34	63855/952	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ D1**
63.13	23	290	5 820	7.2	0.40	127710/2023	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ C1**
55.65	26	290	5 820	7.2	0.44	946/17	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ B1**
48.29	30	290	5 820	7.2	0.59	114939/2380	✓	✓	✓	✓	✓	✓							**2KJ4402 - ■■■■■ - ■■ A1**
FZ.39																			
65.21	22	290	6 040	6.3	0.06	913/14	✓	✓											**2KJ4302 - ■■■■■ - ■■ B2**
57.99	25	230	6 000	6.6	0.08	4059/70	✓	✓	✓	✓									**2KJ4302 - ■■■■■ - ■■ A2**
50.91	28	240	5 950	6.6	0.09	1782/35	✓	✓	✓	✓									**2KJ4302 - ■■■■■ - ■■ X1**
46.29	31	255	5 820	6.6	0.11	324/7	✓	✓	✓	✓									**2KJ4302 - ■■■■■ - ■■ W1**
39.60	37	290	5 950	6.7	0.13	198/5	✓	✓	✓	✓									**2KJ4302 - ■■■■■ - ■■ V1**
36.00	40	255	5 480	6.7	0.16	36/1	✓	✓	✓	✓									**2KJ4302 - ■■■■■ - ■■ U1**
31.82	46	285	5 320	6.8	0.19	891/28	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ T1**
28.93	50	275	5 080	6.8	0.26	405/14	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ S1**
25.34	57	265	4 930	6.9	0.30	1419/56	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ R1**
23.39	62	260	4 730	6.9	0.36	4257/182	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ Q1**
20.71	70	250	4 730	7.0	0.42	4059/196	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ P1**
17.24	84	235	4 450	7.2	0.57	3861/224	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ N1**
16.22	89	230	4 360	7.2	0.66	3861/238	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ M1**
14.54	100	220	4 220	7.3	0.74	407/28	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ L1**
12.38	117	210	3 990	7.5	0.97	99/8	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ K1**
10.61	137	199	3 790	7.7	1.28	297/28			✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ J1**
9.13	159	189	3 610	7.9	1.65	1023/112			✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ H1**
8.10	179	167	3 430	12.1	0.70	3403/420	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ G1**
6.74	215	152	3 270	12.5	0.96	1079/160	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ F1**
6.35	228	149	3 200	12.5	1.11	1079/170	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ E1**
5.69	255	140	3 120	12.9	1.29	3071/540	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ D1**
4.84	300	128	3 000	13.4	1.73	581/120	✓	✓	✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ C1**
4.15	349	118	2 950	13.9	2.30	83/20			✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ B1**
3.57	406	108	2 890	14.5	3.00	2573/720			✓	✓	✓	✓							**2KJ4302 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.49																			
330.98	4.4	480	7 960	6.2	0.06	26809/81	✓	✓											2KJ4403 - ■■■■■ - ■■ S1
294.29	4.9	480	7 960	6.3	0.07	13243/45	✓	✓	✓	✓									2KJ4403 - ■■■■■ - ■■ R1
258.40	5.6	480	7 960	6.3	0.08	1292/5	✓	✓	✓	✓									2KJ4403 - ■■■■■ - ■■ Q1
234.91	6.2	480	7 960	6.3	0.10	2584/11	✓	✓	✓	✓									2KJ4403 - ■■■■■ - ■■ P1
200.98	7.2	480	7 960	6.3	0.12	9044/45	✓	✓	✓	✓									2KJ4403 - ■■■■■ - ■■ N1
182.71	7.9	480	7 960	6.3	0.14	18088/99	✓	✓	✓	✓									2KJ4403 - ■■■■■ - ■■ M1
161.50	9	480	7 960	6.3	0.17	323/2	✓	✓	✓	✓	✓	✓							2KJ4403 - ■■■■■ - ■■ L1
146.82	9.9	480	7 960	6.3	0.22	1615/11	✓	✓	✓	✓	✓	✓							2KJ4403 - ■■■■■ - ■■ K1
128.60	11	480	7 960	6.3	0.26	13889/108	✓	✓	✓	✓	✓	✓							2KJ4403 - ■■■■■ - ■■ J1
118.71	12	480	7 960	6.3	0.31	13889/117	✓	✓	✓	✓	✓	✓							2KJ4403 - ■■■■■ - ■■ H1
105.10	14	480	7 960	6.4	0.37	13243/126	✓	✓	✓	✓	✓	✓	✓						2KJ4403 - ■■■■■ - ■■ G1
87.48	17	480	7 960	6.4	0.50	4199/48	✓	✓	✓	✓	✓	✓	✓						2KJ4403 - ■■■■■ - ■■ F1
82.33	18	480	7 960	6.4	0.59	247/3	✓	✓	✓	✓	✓	✓	✓						2KJ4403 - ■■■■■ - ■■ E1
73.77	20	480	7 630	6.4	0.66	11951/162	✓	✓	✓	✓	✓	✓	✓						2KJ4403 - ■■■■■ - ■■ D1
62.81	23	480	7 070	6.4	0.86	2261/36	✓	✓	✓	✓	✓	✓	✓						2KJ4403 - ■■■■■ - ■■ C1
53.83	27	480	6 560	6.5	1.13	323/6			✓	✓	✓	✓	✓						2KJ4403 - ■■■■■ - ■■ B1
46.36	31	480	6 080	6.5	1.46	10013/216			✓	✓	✓	✓	✓						2KJ4403 - ■■■■■ - ■■ A1
FZ.49																			
61.43	24	480	6 990	6.0	0.18	1843/30	✓	✓	✓	✓									2KJ4303 - ■■■■■ - ■■ X1
55.85	26	480	6 680	6.0	0.22	1843/33	✓	✓	✓	✓									2KJ4303 - ■■■■■ - ■■ W1
47.50	31	480	6 160	6.0	0.27	95/2	✓	✓	✓	✓									2KJ4303 - ■■■■■ - ■■ V1
43.18	34	480	5 870	6.0	0.33	475/11	✓	✓	✓	✓									2KJ4303 - ■■■■■ - ■■ U1
38.53	38	480	5 530	6.1	0.39	1387/36	✓	✓	✓	✓	✓	✓							2KJ4303 - ■■■■■ - ■■ T1
34.55	42	480	5 220	6.1	0.47	380/11	✓	✓	✓	✓	✓	✓							2KJ4303 - ■■■■■ - ■■ S1
31.14	47	480	4 940	6.2	0.55	1121/36	✓	✓	✓	✓	✓	✓							2KJ4303 - ■■■■■ - ■■ R1
28.74	50	480	4 730	6.1	0.65	1121/39	✓	✓	✓	✓	✓	✓							2KJ4303 - ■■■■■ - ■■ Q1
26.24	55	480	4 490	6.2	0.77	551/21	✓	✓	✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ P1
21.77	67	480	4 030	6.3	0.99	1045/48	✓	✓	✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ N1
20.49	71	480	3 890	6.3	1.15	1045/51	✓	✓	✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ M1
19.35	75	480	3 750	6.3	1.30	1045/54	✓	✓	✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ L1
16.47	88	480	3 390	6.4	1.61	247/15	✓	✓	✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ K1
14.11	103	480	3 060	6.6	1.99	931/66			✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ J1
12.40	117	480	3 010	6.7	2.50	893/72			✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ H1
10.46	139	480	3 140	6.8	3.10	722/69			✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ G1
9.12	159	480	3 210	7.4	4.20	228/25			✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ F1
8.40	173	450	3 010	9.3	2.20	42/5	✓	✓	✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ E1
7.20	201	450	3 070	9.6	2.80	1029/143			✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ D1
6.33	229	430	3 090	9.9	3.50	329/52			✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ C1
5.34	272	400	3 080	10.2	4.60	1596/299			✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ B1
4.65	312	375	3 060	11.3	6.10	1512/325			✓	✓	✓	✓	✓						2KJ4303 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.69																			
348.40	4.2	600	10 800	6.0	0.06	28220/81	✓	✓											2KJ4404 - ■■■■■ - ■■ S1
309.78	4.7	600	10 800	6.0	0.07	2788/9	✓	✓	✓	✓									2KJ4404 - ■■■■■ - ■■ R1
272.00	5.3	600	10 800	6.0	0.08	272/1	✓	✓	✓	✓									2KJ4404 - ■■■■■ - ■■ Q1
247.27	5.9	600	10 800	6.0	0.10	2720/11	✓	✓	✓	✓									2KJ4404 - ■■■■■ - ■■ P1
211.56	6.9	600	10 800	6.0	0.12	1904/9	✓	✓	✓	✓									2KJ4404 - ■■■■■ - ■■ N1
192.32	7.5	600	10 800	6.0	0.14	19040/99	✓	✓	✓	✓									2KJ4404 - ■■■■■ - ■■ M1
170.00	8.5	600	10 800	6.1	0.17	170/1	✓	✓	✓	✓	✓	✓							2KJ4404 - ■■■■■ - ■■ L1
154.55	9.4	600	10 800	6.1	0.22	1700/11	✓	✓	✓	✓	✓	✓							2KJ4404 - ■■■■■ - ■■ K1
135.37	11	600	10 800	6.1	0.26	3655/27	✓	✓	✓	✓	✓	✓							2KJ4404 - ■■■■■ - ■■ J1
124.96	12	600	10 800	6.1	0.31	14620/117	✓	✓	✓	✓	✓	✓							2KJ4404 - ■■■■■ - ■■ H1
110.63	13	600	10 800	6.1	0.38	6970/63	✓	✓	✓	✓	✓	✓	✓						2KJ4404 - ■■■■■ - ■■ G1
92.08	16	600	10 800	6.1	0.51	1105/12	✓	✓	✓	✓	✓	✓	✓						2KJ4404 - ■■■■■ - ■■ F1
86.67	17	600	10 800	6.1	0.60	260/3	✓	✓	✓	✓	✓	✓	✓						2KJ4404 - ■■■■■ - ■■ E1
77.65	19	600	10 400	6.2	0.66	6290/81	✓	✓	✓	✓	✓	✓	✓						2KJ4404 - ■■■■■ - ■■ D1
66.11	22	600	9 720	6.2	0.87	595/9	✓	✓	✓	✓	✓	✓	✓						2KJ4404 - ■■■■■ - ■■ C1
56.67	26	600	9 050	6.2	1.15	170/3			✓	✓	✓	✓	✓						2KJ4404 - ■■■■■ - ■■ B1
48.80	30	600	8 430	6.2	1.47	2635/54			✓	✓	✓	✓	✓						2KJ4404 - ■■■■■ - ■■ A1
FZ.69																			
64.67	22	600	9 620	5.7	0.19	194/3	✓	✓	✓	✓									2KJ4304 - ■■■■■ - ■■ X1
58.79	25	600	9 210	5.7	0.23	1940/33	✓	✓	✓	✓									2KJ4304 - ■■■■■ - ■■ W1
50.00	29	600	8 530	5.8	0.29	50/1	✓	✓	✓	✓									2KJ4304 - ■■■■■ - ■■ V1
45.45	32	600	8 140	5.8	0.35	500/11	✓	✓	✓	✓									2KJ4304 - ■■■■■ - ■■ U1
40.56	36	600	7 700	5.8	0.41	365/9	✓	✓	✓	✓	✓	✓							2KJ4304 - ■■■■■ - ■■ T1
36.36	40	600	7 290	5.9	0.49	400/11	✓	✓	✓	✓	✓	✓							2KJ4304 - ■■■■■ - ■■ S1
32.78	44	600	6 920	5.9	0.58	295/9	✓	✓	✓	✓	✓	✓							2KJ4304 - ■■■■■ - ■■ R1
30.26	48	600	6 640	5.9	0.69	1180/39	✓	✓	✓	✓	✓	✓							2KJ4304 - ■■■■■ - ■■ Q1
27.62	52	600	6 330	5.9	0.83	580/21	✓	✓	✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ P1
22.92	63	600	5 720	6.0	1.07	275/12	✓	✓	✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ N1
21.57	67	600	5 540	6.0	1.23	1100/51	✓	✓	✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ M1
20.37	71	600	5 360	6.0	1.39	550/27	✓	✓	✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ L1
17.33	84	600	4 890	6.2	1.74	52/3	✓	✓	✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ K1
14.85	98	600	4 450	6.2	2.20	490/33			✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ J1
13.06	111	600	4 110	6.2	2.70	235/18			✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ H1
11.01	132	600	4 040	6.2	3.50	760/69			✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ G1
9.60	151	600	4 140	6.2	4.60	48/5			✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ F1
8.90	163	475	4 040	8.9	2.40	89/10	✓	✓	✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ E1
7.62	190	465	4 100	8.9	3.10	4361/572			✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ D1
6.70	216	440	4 120	8.9	3.90	4183/624			✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ C1
5.66	256	410	4 110	8.9	5.10	1691/299			✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ B1
4.93	294	385	4 070	8.9	6.80	1602/325			✓	✓	✓	✓	✓						2KJ4304 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.79																			
357.00	4.1	1 000	13 600	5.6	0.17	57133/160		✓	✓	✓									2KJ4405 - ■■■■■ - ■■ S1
324.62	4.5	1 000	13 600	5.6	0.20	57133/176		✓	✓	✓									2KJ4405 - ■■■■■ - ■■ R1
276.09	5.3	1 000	13 600	5.6	0.25	8835/32		✓	✓	✓									2KJ4405 - ■■■■■ - ■■ Q1
250.99	5.8	1 000	13 600	5.6	0.30	44175/176		✓	✓	✓									2KJ4405 - ■■■■■ - ■■ P1
223.94	6.5	1 000	13 600	5.6	0.35	42997/192		✓	✓	✓	✓	✓							2KJ4405 - ■■■■■ - ■■ N1
200.80	7.2	1 000	13 600	5.6	0.42	8835/44		✓	✓	✓	✓	✓							2KJ4405 - ■■■■■ - ■■ M1
180.99	8	1 000	13 600	5.6	0.49	34751/192		✓	✓	✓	✓	✓							2KJ4405 - ■■■■■ - ■■ L1
167.07	8.7	1 000	13 600	5.6	0.58	34751/208		✓	✓	✓	✓	✓							2KJ4405 - ■■■■■ - ■■ K1
152.51	9.5	1 000	13 600	5.6	0.69	17081/112		✓	✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ J1
126.54	11	1 000	13 600	5.7	0.87	32395/256		✓	✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ H1
119.10	12	1 000	13 600	5.7	1.01	32395/272		✓	✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ G1
112.48	13	1 000	13 600	5.7	1.15	32395/288		✓	✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ F1
95.71	15	1 000	13 600	5.7	1.39	7657/80		✓	✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ E1
81.99	18	1 000	13 600	5.7	1.70	28861/352			✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ D1
72.09	20	1 000	13 600	5.7	2.10	27683/384			✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ C1
60.82	24	1 000	13 600	5.7	2.60	11191/184			✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ B1
53.01	27	1 000	13 600	5.8	3.50	5301/100			✓	✓	✓	✓	✓	✓					2KJ4405 - ■■■■■ - ■■ A1
FZ.79																			
53.55	27	1 000	13 600	5.6	0.56	589/11		✓	✓	✓									2KJ4305 - ■■■■■ - ■■ X1
48.03	30	1 000	13 600	5.6	0.77	1729/36		✓	✓	✓	✓	✓							2KJ4305 - ■■■■■ - ■■ W1
43.18	34	1 000	13 600	5.7	0.87	475/11		✓	✓	✓	✓	✓							2KJ4305 - ■■■■■ - ■■ V1
39.06	37	1 000	13 600	5.7	0.97	703/18		✓	✓	✓	✓	✓							2KJ4305 - ■■■■■ - ■■ U1
36.05	40	1 000	13 600	5.7	1.15	1406/39		✓	✓	✓	✓	✓							2KJ4305 - ■■■■■ - ■■ T1
33.02	44	1 000	13 600	5.7	1.49	1387/42		✓	✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ S1
27.71	52	1 000	13 600	5.7	1.62	665/24		✓	✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ R1
26.08	56	1 000	13 600	5.7	1.85	1330/51		✓	✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ Q1
23.93	61	1 000	13 600	5.7	2.0	646/27		✓	✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ P1
20.90	69	1 000	13 600	5.7	2.9	209/10		✓	✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ N1
18.71	77	1 000	12 900	5.7	3.6	1235/66			✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ M1
16.36	89	1 000	12 200	5.7	4.2	589/36			✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ L1
14.04	103	1 000	11 400	5.8	4.7	323/23			✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ K1
12.41	117	1 000	10 800	6.2	6.0	931/75			✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ J1
10.56	137	1 000	10 100	6.3	7.8	95/9					✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ H1
9.05	160	1 000	9 980	6.5	10	190/21					✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ G1
8.51	170	720	10 300	8.9	4.6	468/55			✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ F1
7.44	195	725	9 770	9.2	5.5	186/25			✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ E1
6.39	227	720	9 690	9.3	6.5	3672/575			✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ D1
5.64	257	700	9 620	10.2	8.3	3528/625			✓	✓	✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ C1
4.80	302	650	9 480	10.6	11	24/5					✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ B1
4.11	353	605	9 310	11.0	15	144/35					✓	✓	✓	✓					2KJ4305 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.89																			
335.30	4.3	1 850	17 400	5.1	0.42	370512/1105			✓	✓	✓	✓							2KJ4406 - ■■■■■ - ■■ S1
304.82	4.8	1 850	17 400	5.1	0.51	741024/2431			✓	✓	✓	✓							2KJ4406 - ■■■■■ - ■■ R1
273.41	5.3	1 850	17 400	5.1	0.71	4648/17			✓	✓	✓	✓							2KJ4406 - ■■■■■ - ■■ Q1
245.82	5.9	1 850	17 400	5.1	0.79	597600/2431			✓	✓	✓	✓							2KJ4406 - ■■■■■ - ■■ P1
222.33	6.5	1 850	17 400	5.1	0.88	49136/221			✓	✓	✓	✓							2KJ4406 - ■■■■■ - ■■ N1
205.23	7.1	1 850	17 400	5.1	1.03	589632/2873			✓	✓	✓	✓							2KJ4406 - ■■■■■ - ■■ M1
188.00	7.7	1 850	17 400	5.1	1.35	290832/1547			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ L1
157.74	9.2	1 850	17 400	5.1	1.43	34860/221			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ K1
148.46	9.8	1 850	17 400	5.1	1.64	557760/3757			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ J1
136.21	11	1 850	17 400	5.1	1.79	5312/39			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ H1
118.98	12	1 850	17 400	5.1	2.6	131472/1105			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ G1
106.52	14	1 850	17 400	5.1	3.1	19920/187			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ F1
93.14	16	1 850	17 400	5.1	3.7	20584/221			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ E1
79.95	18	1 850	17 400	5.2	4.0	23904/299			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ D1
70.67	21	1 850	17 400	5.2	5.1	390432/5525			✓	✓	✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ C1
60.09	24	1 850	17 400	5.3	6.5	13280/221					✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ B1
51.51	28	1 850	17 400	5.3	8.5	79680/1547					✓	✓	✓	✓					2KJ4406 - ■■■■■ - ■■ A1
FZ.89																			
61.72	23	1 850	17 400	4.8	1.38	2407/39			✓	✓	✓	✓							2KJ4306 - ■■■■■ - ■■ B2
55.72	26	1 850	17 400	4.8	1.51	7968/143			✓	✓	✓	✓							2KJ4306 - ■■■■■ - ■■ A2
50.54	29	1 850	17 400	4.8	1.77	7885/156			✓	✓	✓	✓							2KJ4306 - ■■■■■ - ■■ X1
46.66	31	1 850	17 400	4.8	2.1	7885/169			✓	✓	✓	✓							2KJ4306 - ■■■■■ - ■■ W1
42.41	34	1 850	17 400	4.9	2.4	7719/182			✓	✓	✓	✓	✓	✓					2KJ4306 - ■■■■■ - ■■ V1
35.91	40	1 850	17 400	4.9	2.9	3735/104			✓	✓	✓	✓	✓	✓					2KJ4306 - ■■■■■ - ■■ U1
33.80	43	1 850	17 400	4.9	3.0	7470/221			✓	✓	✓	✓	✓	✓					2KJ4306 - ■■■■■ - ■■ T1
31.21	46	1 850	17 400	5.0	4.5	3652/117			✓	✓	✓	✓	✓	✓					2KJ4306 - ■■■■■ - ■■ S1
27.77	52	1 850	17 400	5.0	5.5	7221/260			✓	✓	✓	✓	✓	✓					2KJ4306 - ■■■■■ - ■■ R1
24.67	59	1 850	17 400	5.0	6.7	7055/286			✓	✓	✓	✓	✓	✓					2KJ4306 - ■■■■■ - ■■ Q1
22.08	66	1 850	17 400	5.1	6.7	6889/312			✓	✓	✓	✓	✓	✓					2KJ4306 - ■■■■■ - ■■ P1
18.88	77	1 850	17 200	5.1	7.9	5644/299			✓	✓	✓	✓	✓	✓					2KJ4306 - ■■■■■ - ■■ N1
16.86	86	1 850	16 400	5.4	10	5478/325			✓	✓	✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ M1
14.90	97	1 850	15 500	5.5	12	581/39					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ L1
13.07	111	1 850	14 600	5.3	16	3569/273					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ K1
11.38	127	1 850	14 600	5.3	20	3403/299					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ J1
9.73	149	1 850	14 600	5.5	26	2656/273					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ H1
8.33	174	1 740	14 500	5.6	33	2490/299					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ G1
7.60	191	1 100	14 100	9.0	14	4752/625			✓	✓	✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ F1
6.72	216	1 110	14 000	9.2	17	168/25					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ E1
5.90	246	1 110	13 800	9.2	23	1032/175					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ D1
5.13	283	1 110	13 600	9.2	28	2952/575					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ C1
4.39	330	1 060	13 300	9.2	39	768/175					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ B1
3.76	386	985	12 900	9.5	50	432/115					✓	✓	✓	✓	✓				2KJ4306 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.109																			
410.00	3.5	3 100	25 000	6.5	1.27	332021/810				✓	✓	✓							2KJ4407 - ■■■■■ - ■■ T1
370.00	3.9	3 100	25 000	6.5	1.37	183184/495				✓	✓	✓							2KJ4407 - ■■■■■ - ■■ S1
335.70	4.3	3 100	25 000	6.5	1.61	217531/648				✓	✓	✓							2KJ4407 - ■■■■■ - ■■ R1
309.87	4.7	3 100	25 000	6.5	1.89	217531/702				✓	✓	✓							2KJ4407 - ■■■■■ - ■■ Q1
281.68	5.1	3 100	25 000	6.5	2.2	354919/1260				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ P1
238.52	6.1	3 100	25 000	6.5	2.6	11449/48				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ N1
224.49	6.5	3 100	25 000	6.5	2.6	11449/51				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ M1
207.31	7	3 100	25 000	6.5	4.0	251878/1215				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ L1
184.46	7.9	3 100	25 000	6.5	5.0	332021/1800				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ K1
163.83	8.9	3 100	25 000	6.5	5.9	194633/1188				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ J1
146.65	9.9	3 100	25 000	6.5	5.9	950267/6480				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ H1
125.37	12	3 100	25 000	6.5	6.7	389266/3105				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ G1
111.95	13	3 100	25 000	6.5	8.6	125939/1125				✓	✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ F1
98.94	15	3 100	25 000	6.5	9.6	80143/810					✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ E1
86.83	17	3 100	25 000	6.5	14	492307/5670					✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ D1
75.59	19	3 100	25 000	6.5	16	469409/6210					✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ C1
64.62	22	3 100	25 000	6.5	21	183184/2835					✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ B1
55.31	26	3 100	25 000	6.5	25	11449/207					✓	✓	✓	✓					2KJ4407 - ■■■■■ - ■■ A1
FZ.109																			
70.74	20	3 100	25 000	4.6	3.6	12733/180				✓	✓	✓							2KJ4307 - ■■■■■ - ■■ B2
65.30	22	3 100	25 000	4.6	4.3	12733/195				✓	✓	✓							2KJ4307 - ■■■■■ - ■■ A2
60.12	24	3 100	25 000	4.6	4.9	6313/105				✓	✓	✓	✓	✓					2KJ4307 - ■■■■■ - ■■ X1
51.27	28	3 100	25 000	4.6	6.3	2461/48				✓	✓	✓	✓	✓					2KJ4307 - ■■■■■ - ■■ W1
48.25	30	3 100	25 000	4.6	7.1	2461/51				✓	✓	✓	✓	✓					2KJ4307 - ■■■■■ - ■■ V1
44.78	32	3 100	25 000	4.6	7.8	12091/270				✓	✓	✓	✓	✓					2KJ4307 - ■■■■■ - ■■ U1
39.59	37	3 100	25 000	4.6	9.5	3959/100				✓	✓	✓	✓	✓					2KJ4307 - ■■■■■ - ■■ T1
35.34	41	3 100	24 700	4.7	11	11663/330				✓	✓	✓	✓	✓					2KJ4307 - ■■■■■ - ■■ S1
31.80	46	3 100	23 600	4.7	13	11449/360				✓	✓	✓	✓	✓					2KJ4307 - ■■■■■ - ■■ R1
27.60	53	3 100	22 200	4.7	16	9523/345				✓	✓	✓	✓	✓					2KJ4307 - ■■■■■ - ■■ Q1
24.82	58	3 100	21 200	4.9	19	3103/125				✓	✓	✓	✓	✓	✓				2KJ4307 - ■■■■■ - ■■ P1
21.70	67	3 100	19 900	5.0	23	7811/360					✓	✓	✓	✓	✓	✓			2KJ4307 - ■■■■■ - ■■ N1
19.36	75	3 100	18 900	5.0	27	2033/105					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ M1
17.06	85	3 100	17 800	5.0	33	1177/69					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ L1
14.95	97	3 100	16 700	5.1	40	4708/315					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ K1
13.03	111	3 100	15 600	5.2	48	1498/115					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ J1
11.89	122	3 060	15 600	5.2	56	107/9					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ H1
10.23	142	2 880	15 900	5.3	70	1177/115							✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ G1
9.02	161	2 090	16 100	7.6	36	1767/196					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ F1
7.94	183	2 000	15 800	7.8	44	5115/644					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ E1
6.96	208	1 900	15 700	7.9	54	341/49					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ D1
6.07	239	1 800	15 600	8.1	68	279/46					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ C1
5.54	262	1 730	15 400	8.2	79	155/28					✓	✓	✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ B1
4.77	304	1 620	15 200	8.4	102	3069/644							✓	✓	✓	✓	✓		2KJ4307 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.129																			
413.00	3.5	4 850	37 200	5.5	3.3	9911/24				✓	✓	✓							2KJ4408 - ■■■■■ - ■■ T1
381.00	3.8	4 850	37 200	5.5	3.9	9911/26				✓	✓	✓							2KJ4408 - ■■■■■ - ■■ S1
351.00	4.1	4 850	37 200	5.5	4.5	34397/98				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ R1
299.31	4.8	4 850	37 200	5.5	5.6	67045/224				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ Q1
281.70	5.1	4 850	37 200	5.5	6.4	67045/238				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ P1
261.42	5.5	4 850	37 200	5.5	6.9	65879/252				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ N1
231.12	6.3	4 850	37 200	5.5	8.4	64713/280				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ M1
206.32	7	4 850	37 200	5.5	10	5777/28				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ L1
185.66	7.8	4 850	37 200	5.5	12	62381/336				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ K1
161.14	9	4 850	37 200	5.5	14	51887/322				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ J1
144.92	10	4 850	37 200	5.5	16	50721/350				✓	✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ H1
126.66	11	4 850	37 200	5.5	19	42559/336					✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ G1
113.03	13	4 850	37 200	5.5	23	11077/98					✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ F1
99.58	15	4 850	37 200	5.5	27	32065/322					✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ E1
87.25	17	4 850	37 200	5.5	32	12826/147					✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ D1
76.04	19	4 850	37 200	5.5	37	1749/23					✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ C1
69.40	21	4 850	37 200	5.5	44	2915/42					✓	✓	✓	✓					2KJ4408 - ■■■■■ - ■■ B1
59.75	24	4 850	37 200	5.5	53	19239/322							✓	✓					2KJ4408 - ■■■■■ - ■■ A1
FZ.129																			
69.20	21	4 850	37 200	5.1	7.7	13563/196				✓	✓	✓	✓	✓					2KJ4308 - ■■■■■ - ■■ A2
59.22	24	4 850	37 200	5.1	9.7	6633/112				✓	✓	✓	✓	✓					2KJ4308 - ■■■■■ - ■■ X1
55.74	26	4 850	37 200	5.1	11	6633/119				✓	✓	✓	✓	✓					2KJ4308 - ■■■■■ - ■■ W1
52.25	28	4 850	36 600	5.1	12	209/4				✓	✓	✓	✓	✓					2KJ4308 - ■■■■■ - ■■ V1
46.32	31	4 850	34 800	5.1	15	12969/280				✓	✓	✓	✓	✓					2KJ4308 - ■■■■■ - ■■ U1
41.14	35	4 850	33 100	5.1	18	288/7				✓	✓	✓	✓	✓					2KJ4308 - ■■■■■ - ■■ T1
37.12	39	4 850	31 700	5.1	21	297/8				✓	✓	✓	✓	✓					2KJ4308 - ■■■■■ - ■■ S1
32.90	44	4 850	30 100	5.2	26	10593/322				✓	✓	✓	✓	✓					2KJ4308 - ■■■■■ - ■■ R1
29.13	50	4 850	28 500	5.3	29	10197/350				✓	✓	✓	✓	✓	✓				2KJ4308 - ■■■■■ - ■■ Q1
25.93	56	4 850	27 100	5.3	35	363/14					✓	✓	✓	✓	✓	✓			2KJ4308 - ■■■■■ - ■■ P1
23.23	62	4 850	25 800	5.3	41	2277/98					✓	✓	✓	✓	✓	✓	✓		2KJ4308 - ■■■■■ - ■■ N1
20.60	70	4 850	24 400	5.3	49	6633/322					✓	✓	✓	✓	✓	✓	✓		2KJ4308 - ■■■■■ - ■■ M1
18.18	80	4 850	23 000	5.4	60	891/49					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ L1
15.99	91	4 800	21 700	5.4	73	2574/161					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ K1
14.48	100	4 690	21 000	5.5	83	1419/98					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ J1
12.61	115	4 530	20 100	5.5	101	4059/322							✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ H1
10.34	140	4 320	20 400	5.5	135	1881/182							✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ G1
9.80	148	3 630	19 600	8.1	64	2479/253					✓	✓	✓	✓	✓	✓	✓		2KJ4308 - ■■■■■ - ■■ F1
8.65	168	3 640	19 700	8.1	79	666/77					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ E1
7.60	191	3 620	19 800	8.1	97	1924/253					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ D1
6.89	210	3 630	19 700	8.2	112	1591/231					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ C1
6.00	242	3 640	19 600	8.3	140	1517/253							✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ B1
4.92	295	3 030	19 300	8.5	192	703/143							✓	✓	✓	✓	✓	✓	2KJ4308 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.149																			
377.00	3.8	8 000	65 000	4.8	7.1	18495/49					✓	✓	✓	✓					2KJ4410 - ■■■■■ - ■■ W1
323.04	4.5	8 000	65 000	4.8	9	9045/28					✓	✓	✓	✓					2KJ4410 - ■■■■■ - ■■ V1
304.03	4.8	8 000	65 000	4.8	10	36180/119					✓	✓	✓	✓					2KJ4410 - ■■■■■ - ■■ U1
285.00	5.1	8 000	6 5000	4.8	11	285/1					✓	✓	✓	✓					2KJ4410 - ■■■■■ - ■■ T1
252.64	5.7	8 000	65 000	4.8	14	3537/14					✓	✓	✓	✓					2KJ4410 - ■■■■■ - ■■ S1
224.42	6.5	8 000	65 000	4.8	16	17280/77					✓	✓	✓	✓					2KJ4410 - ■■■■■ - ■■ R1
202.50	7.2	8 000	65 000	4.8	19	405/2					✓	✓	✓	✓					2KJ4410 - ■■■■■ - ■■ Q1
179.44	8.1	8 000	65 000	4.8	23	28890/161					✓	✓	✓	✓					2KJ4410 - ■■■■■ - ■■ P1
158.91	9.1	8 000	65 000	4.8	26	5562/35					✓	✓	✓	✓	✓				2KJ4410 - ■■■■■ - ■■ N1
141.43	10	8 000	65 000	4.8	31	990/7					✓	✓	✓	✓	✓	✓			2KJ4410 - ■■■■■ - ■■ M1
126.73	11	8 000	65 000	4.8	37	6210/49					✓	✓	✓	✓	✓	✓	✓		2KJ4410 - ■■■■■ - ■■ L1
112.36	13	8 000	63 600	4.8	43	18090/161					✓	✓	✓	✓	✓	✓	✓		2KJ4410 - ■■■■■ - ■■ K1
99.18	15	8 000	60 700	4.8	53	4860/49					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ J1
87.20	17	8 000	57 700	4.8	63	14040/161					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ H1
78.98	18	8 000	54 800	4.8	71	3870/49					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ G1
68.76	21	8 000	52 600	4.9	85	11070/161							✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ F1
56.37	26	8 000	49 600	4.9	111	5130/91							✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ E1
50.01	29	8 000	45 600	5.2	73	37960/759					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ D1
45.30	32	8 000	43 300	5.2	83	31390/693					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ C1
39.43	37	7 970	41 400	5.2	102	29930/759							✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ B1
32.33	45	7 510	39 000	5.2	135	13870/429							✓	✓	✓	✓	✓	✓	2KJ4410 - ■■■■■ - ■■ A1
FZ.149																			
48.48	30	8 000	42 700	4.6	31	1600/33					✓	✓	✓	✓					2KJ4310 - ■■■■■ - ■■ T1
43.89	33	8 000	40 800	4.6	36	395/9					✓	✓	✓	✓					2KJ4310 - ■■■■■ - ■■ S1
38.55	38	8 000	38 500	4.6	44	2660/69					✓	✓	✓	✓					2KJ4310 - ■■■■■ - ■■ R1
34.93	42	8 000	36 800	4.6	51	524/15					✓	✓	✓	✓	✓				2KJ4310 - ■■■■■ - ■■ Q1
31.11	47	8 000	34 900	4.7	60	280/9					✓	✓	✓	✓	✓	✓			2KJ4310 - ■■■■■ - ■■ P1
27.94	52	8 000	33 100	4.7	72	1760/63					✓	✓	✓	✓	✓	✓	✓		2KJ4310 - ■■■■■ - ■■ N1
24.93	58	8 000	31 300	4.7	84	1720/69					✓	✓	✓	✓	✓	✓	✓		2KJ4310 - ■■■■■ - ■■ M1
22.22	65	8 000	29 600	4.7	98	200/9					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ L1
19.71	74	8 000	27 800	4.7	117	1360/69					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ K1
18.10	80	8 000	26 600	4.8	132	380/21					✓	✓	✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ J1
15.94	91	8 000	24 900	4.8	156	1100/69							✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ H1
13.08	111	7 620	23 200	4.9	212	170/13							✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ G1
11.47	126	7 320	23 700	4.9	241	172/15							✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ F1
8.97	162	6 770	24 500	6.2	379	260/29							✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ E1
8.09	179	5 690	23 900	6.2	200	2420/299							✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ D1
6.64	218	5 690	24 000	6.3	277	1122/169							✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ C1
5.82	249	5 680	24 000	6.6	325	1892/325							✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ B1
4.55	319	5 650	23 600	7.3	517	132/29							✓	✓	✓	✓	✓	✓	2KJ4310 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.169																			
368.00	3.9	13 600	73 500	4.4	18	106240/289						✓	✓	✓					2KJ4411 - ■■■■■ - ■■ V1
343.01	4.2	13 600	73 500	4.4	19	52480/153						✓	✓	✓					2KJ4411 - ■■■■■ - ■■ U1
304.94	4.8	13 600	73 500	4.4	24	5184/17						✓	✓	✓					2KJ4411 - ■■■■■ - ■■ T1
273.80	5.3	13 600	73 500	4.4	28	51200/187						✓	✓	✓					2KJ4411 - ■■■■■ - ■■ S1
247.84	5.9	13 600	73 500	4.4	33	12640/51						✓	✓	✓					2KJ4411 - ■■■■■ - ■■ R1
217.70	6.7	13 600	73 500	4.4	40	85120/391						✓	✓	✓					2KJ4411 - ■■■■■ - ■■ Q1
197.27	7.4	13 600	73 500	4.4	46	16768/85						✓	✓	✓	✓				2KJ4411 - ■■■■■ - ■■ P1
175.69	8.3	13 600	73 500	4.4	54	8960/51						✓	✓	✓	✓	✓			2KJ4411 - ■■■■■ - ■■ N1
157.76	9.2	13 600	73 500	4.4	64	56320/357						✓	✓	✓	✓	✓	✓		2KJ4411 - ■■■■■ - ■■ M1
140.77	10	13 600	73 500	4.4	74	55040/391						✓	✓	✓	✓	✓	✓		2KJ4411 - ■■■■■ - ■■ L1
125.49	12	13 600	73 500	4.4	86	6400/51						✓	✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ K1
111.30	13	13 600	73 500	4.4	101	2560/23						✓	✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ J1
102.18	14	13 600	73 500	4.4	113	12160/119						✓	✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ H1
90.03	16	13 600	73 500	4.4	132	35200/391							✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ G1
73.85	20	13 600	71 200	4.5	176	960/13							✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ F1
64.75	22	13 600	67 400	4.5	194	5504/85							✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ E1
50.63	29	13 600	60 600	4.5	302	24960/493							✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ D1
46.55	31	13 600	58 300	4.7	201	3026/65							✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ C1
40.82	36	13 600	55 000	4.7	226	15308/375							✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ B1
31.92	45	13 600	53 400	4.8	355	4628/145							✓	✓	✓	✓	✓	✓	2KJ4411 - ■■■■■ - ■■ A1
FZ.169																			
44.93	32	12 400	59 900	4.2	68	3100/69						✓	✓	✓					2KJ4311 - ■■■■■ - ■■ S1
41.07	35	13 600	55 100	4.3	80	616/15						✓	✓	✓	✓				2KJ4311 - ■■■■■ - ■■ R1
36.94	39	13 600	52 500	4.3	95	665/18						✓	✓	✓	✓	✓			2KJ4311 - ■■■■■ - ■■ Q1
33.02	44	13 600	49 800	4.4	111	2080/63						✓	✓	✓	✓	✓	✓		2KJ4311 - ■■■■■ - ■■ P1
29.86	49	13 600	47 500	4.4	133	2060/69						✓	✓	✓	✓	✓	✓		2KJ4311 - ■■■■■ - ■■ N1
26.35	55	13 600	44 700	4.4	157	1660/63						✓	✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ M1
23.48	62	13 600	42 200	4.4	186	540/23						✓	✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ L1
21.27	68	13 600	42 300	4.3	206	1340/63						✓	✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ K1
19.13	76	13 600	42 800	4.3	249	440/23							✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ J1
15.90	91	13 500	43 200	4.4	314	620/39							✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ H1
14.13	103	12 900	43 200	4.4	386	212/15							✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ G1
11.26	129	11 700	42 800	4.6	534	980/87							✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ F1
8.97	162	10 400	41 900	4.8	710	260/29									✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ E1
8.07	180	8 350	39 300	5.9	396	1364/169							✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ D1
7.18	202	8 310	38 900	5.9	489	2332/325							✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ C1
5.72	253	8 210	37 800	6.4	697	2156/377							✓	✓	✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ B1
4.55	319	7 300	36 400	6.8	967	132/29									✓	✓	✓	✓	2KJ4311 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.189																			
347.35	4.2	19 000	110 900	4.1	36	590499/1700						✓	✓	✓					2KJ4412 - ■■■■■ - ■■ T1
310.76	4.7	19 000	110 900	4.1	43	290563/935						✓	✓	✓					2KJ4412 - ■■■■■ - ■■ S1
280.27	5.2	19 000	110 900	4.1	49	571753/2040						✓	✓	✓					2KJ4412 - ■■■■■ - ■■ R1
247.71	5.9	19 000	110 900	4.1	61	290563/1173						✓	✓	✓					2KJ4412 - ■■■■■ - ■■ Q1
226.42	6.4	19 000	110 900	4.1	71	1443442/6375						✓	✓	✓	✓				2KJ4412 - ■■■■■ - ■■ P1
203.69	7.1	19 000	110 900	4.1	84	1246609/6120						✓	✓	✓	✓	✓			2KJ4412 - ■■■■■ - ■■ N1
182.03	8	19 000	110 900	4.1	98	139256/765						✓	✓	✓	✓	✓	✓		2KJ4412 - ■■■■■ - ■■ M1
164.61	8.8	19 000	110 900	4.1	117	965419/5865						✓	✓	✓	✓	✓	✓		2KJ4412 - ■■■■■ - ■■ L1
145.28	10	19 000	110 900	4.1	136	111137/765						✓	✓	✓	✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ K1
129.45	11	19 000	110 900	4.1	160	253071/1955						✓	✓	✓	✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ J1
117.27	12	19 000	110 900	4.1	175	89713/765						✓	✓	✓	✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ H1
105.48	14	19 000	110 900	4.1	210	206206/1955							✓	✓	✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ G1
87.65	17	19 000	108 200	4.1	258	22351/255							✓	✓	✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ F1
77.92	19	19 000	103 200	4.1	314	496769/6375							✓	✓	✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ E1
62.11	23	19 000	94 000	4.2	422	459277/7395							✓	✓	✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ D1
49.43	29	19 000	85 400	4.2	533	121849/2465									✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ C1
40.61	36	19 000	78 400	4.4	478	35329/870							✓	✓	✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ B1
32.32	45	19 000	70 800	4.4	621	9373/290									✓	✓	✓	✓	2KJ4412 - ■■■■■ - ■■ A1
FZ.189																			
37.93	38	19 000	76 100	4.0	143	11948/315						✓	✓	✓	✓	✓	✓		2KJ4312 - ■■■■■ - ■■ L1
34.03	43	19 000	72 500	4.1	169	3914/115						✓	✓	✓	✓	✓	✓		2KJ4312 - ■■■■■ - ■■ K1
30.41	48	19 000	68 900	4.1	202	3193/105						✓	✓	✓	✓	✓	✓	✓	2KJ4312 - ■■■■■ - ■■ J1
27.17	53	19 000	65 400	4.1	241	9373/345						✓	✓	✓	✓	✓	✓	✓	2KJ4312 - ■■■■■ - ■■ H1
24.85	58	19 000	62 700	4.1	269	7828/315						✓	✓	✓	✓	✓	✓	✓	2KJ4312 - ■■■■■ - ■■ G1
22.09	66	19 000	59 300	4.1	321	7622/345							✓	✓	✓	✓	✓	✓	2KJ4312 - ■■■■■ - ■■ F1
18.75	77	19 000	54 700	4.2	410	7313/390							✓	✓	✓	✓	✓	✓	2KJ4312 - ■■■■■ - ■■ E1
16.21	89	19 000	50 800	4.2	495	6077/375							✓	✓	✓	✓	✓	✓	2KJ4312 - ■■■■■ - ■■ D1
13.26	109	17 600	48 700	4.3	687	5768/435							✓	✓	✓	✓	✓	✓	2KJ4312 - ■■■■■ - ■■ C1
10.89	133	16 300	50 000	4.4	906	4738/435									✓	✓	✓	✓	2KJ4312 - ■■■■■ - ■■ B1
8.47	171	14 700	50 400	4.8	1 333	3811/450												✓	2KJ4312 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FZ.29-D19															
8 237	0.18	150	5 220	-	0.03	93697098/11375	✓	✓							**2KJ4321 - ■■■■■ - ■■ P1**
7 157	0.20	150	5 220	-	0.04	81408954/11375	✓	✓							**2KJ4321 - ■■■■■ - ■■ N1**
6 506	0.22	150	5 220	-	0.04	14801628/2275	✓	✓							**2KJ4321 - ■■■■■ - ■■ M1**
5 536	0.26	150	5 220	-	0.06	62976738/11375	✓	✓							**2KJ4321 - ■■■■■ - ■■ L1**
5 033	0.29	150	5 220	-	0.07	11450316/2275	✓	✓							**2KJ4321 - ■■■■■ - ■■ K1**
4 389	0.33	150	5 220	-	0.08	768009/175	✓	✓							**2KJ4321 - ■■■■■ - ■■ J1**
3 928	0.37	150	5 220	-	0.11	8936832/2275	✓	✓							**2KJ4321 - ■■■■■ - ■■ H1**
3 488	0.42	150	5 220	-	0.13	7936093/2275	✓	✓							**2KJ4321 - ■■■■■ - ■■ G1**
3 220	0.45	150	5 220	-	0.16	95233116/29575	✓	✓							**2KJ4321 - ■■■■■ - ■■ F1**
2 797	0.52	150	5 220	-	0.17	44544522/15925	✓	✓							**2KJ4321 - ■■■■■ - ■■ E1**
2 431	0.60	150	5 220	-	0.18	27648324/11375	✓	✓							**2KJ4321 - ■■■■■ - ■■ D1**
2 194	0.66	150	5 220	-	0.22	768009/350	✓	✓							**2KJ4321 - ■■■■■ - ■■ C1**
2 065	0.70	150	5 220	-	0.26	361416/175	✓	✓							**2KJ4321 - ■■■■■ - ■■ B1**
1 800	0.81	150	5 220	-	0.29	4096048/2275	✓	✓							**2KJ4321 - ■■■■■ - ■■ A1**
FZ.29-Z19															
1 760	0.82	150	5 220	-	0.02	1715912/975	✓	✓							**2KJ4320 - ■■■■■ - ■■ R1**
1 558	0.93	150	5 220	-	0.03	2532354/1625	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ Q1**
1 354	1.1	150	5 220	-	0.04	2200242/1625	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ P1**
1 231	1.2	150	5 220	-	0.05	400044/325	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ N1**
1 047	1.4	150	5 220	-	0.07	1702074/1625	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ M1**
952	1.5	150	5 220	-	0.08	309468/325	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ L1**
830	1.7	150	5 220	-	0.09	20757/25	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ K1**
743	2	150	5 220	-	0.12	241536/325	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ J1**
660	2.2	150	5 220	-	0.15	214489/325	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ H1**
609	2.4	150	5 220	-	0.18	2573868/4225	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ G1**
529	2.7	150	5 220	-	0.2	1203906/2275	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ F1**
460	3.2	150	5 220	-	0.21	747252/1625	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ E1**
415	3.5	150	5 220	-	0.27	20757/50	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ D1**
391	3.7	150	5 220	-	0.32	9768/25	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ C1**
340.63	4.3	150	5 220	-	0.36	110704/325	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ B1**
314.27	4.6	150	5 220	-	0.19	428978/1365	✓	✓	✓						**2KJ4320 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FZ.39-D19															
8 247	0.18	230	6 040	-	0.04	262670067/31850	✓	✓							2KJ4323 - ■■■■■ - ■■ N1
7 497	0.19	230	6 040	-	0.04	23879097/3185	✓	✓							2KJ4323 - ■■■■■ - ■■ M1
6 380	0.23	230	6 040	-	0.06	203197599/31850	✓	✓							2KJ4323 - ■■■■■ - ■■ L1
5 800	0.25	230	6 040	-	0.07	18472509/3185	✓	✓							2KJ4323 - ■■■■■ - ■■ K1
5 057	0.29	230	6 040	-	0.08	4956039/980	✓	✓							2KJ4323 - ■■■■■ - ■■ J1
4 527	0.32	230	6 040	-	0.11	14417568/3185	✓	✓							2KJ4323 - ■■■■■ - ■■ H1
4 020	0.36	230	6 040	-	0.13	51212403/12740	✓	✓							2KJ4323 - ■■■■■ - ■■ G1
3 711	0.39	230	6 040	-	0.16	153637209/41405	✓	✓							2KJ4323 - ■■■■■ - ■■ F1
3 223	0.45	230	6 040	-	0.17	143725131/44590	✓	✓							2KJ4323 - ■■■■■ - ■■ E1
2 801	0.52	230	6 040	-	0.18	44604351/15925	✓	✓							2KJ4323 - ■■■■■ - ■■ D1
2 529	0.57	230	6 040	-	0.22	4956039/1960	✓	✓							2KJ4323 - ■■■■■ - ■■ C1
2 380	0.61	230	6 040	-	0.26	9912078/4165	✓	✓							2KJ4323 - ■■■■■ - ■■ B1
2 075	0.7	230	6 040	-	0.29	6608052/3185	✓	✓							2KJ4323 - ■■■■■ - ■■ A1
FZ.39-Z19															
2 028	0.71	230	6 040	-	0.02	922746/455	✓	✓							2KJ4322 - ■■■■■ - ■■ T1
1 796	0.81	230	6 040	-	0.03	8170767/4550	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ S1
1 560	0.93	230	6 040	-	0.04	7099191/4550	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ R1
1 418	1.0	230	6 040	-	0.05	645381/455	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ Q1
1 207	1.2	230	6 040	-	0.07	5491827/4550	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ P1
1 097	1.3	230	6 040	-	0.08	499257/455	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ N1
957	1.5	230	6 040	-	0.09	133947/140	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ M1
856	1.7	230	6 040	-	0.12	389664/455	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ L1
761	1.9	230	6 040	-	0.15	1384119/1820	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ K1
702	2.1	230	6 040	-	0.18	4152357/5915	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ J1
610	2.4	230	6 040	-	0.2	3884463/6370	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ H1
530	2.7	230	6 040	-	0.21	1205523/2275	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ G1
478	3.0	230	6 040	-	0.27	133947/280	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ F1
450	3.2	230	6 040	-	0.32	267894/595	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ E1
393	3.7	230	6 040	-	0.36	178596/455	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ D1
362	4.0	230	6 040	-	0.19	461373/1274	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ C1
314.58	4.6	230	6 040	-	0.22	431607/1372	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ B1
273.36	5.3	230	6 040	-	0.23	133947/490	✓	✓	✓						2KJ4322 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.49-D19															
14 685	0.10	480	7 960	-	0.07	14699730/1001	✓	✓							**2KJ4425 - ■■■■■ - ■■ C1**
12 805	0.11	480	7 960	-	0.08	179265/14	✓	✓							**2KJ4425 - ■■■■■ - ■■ B1**
11 461	0.13	480	7 960	-	0.11	11472960/1001	✓	✓							**2KJ4425 - ■■■■■ - ■■ A1**
FD.49-Z19															
752	1.9	480	7 960	-	0.21	3762/5	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ J1**
679	2.1	480	7 960	-	0.28	2717/4	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ H1**
639	2.3	480	7 960	-	0.32	10868/17	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ G1**
557	2.6	480	7 960	-	0.37	1672/3	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ F1**
514	2.8	480	7 960	-	0.20	32395/63	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ E1**
447	3.2	480	7 960	-	0.23	393965/882	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ D1**
388	3.7	480	7 960	-	0.25	2717/7	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ C1**
350	4.1	480	7 960	-	0.32	176605/504	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ B1**
329.79	4.4	480	7 960	-	0.37	353210/1071	✓	✓	✓						**2KJ4424 - ■■■■■ - ■■ A1**
FZ.49-D19															
11 357	0.13	480	7 960	-	0.02	46506262/4095	✓	✓							**2KJ4325 - ■■■■■ - ■■ Q1**
10 056	0.14	480	7 960	-	0.03	45756161/4550	✓	✓							**2KJ4325 - ■■■■■ - ■■ P1**
8 737	0.17	480	7 960	-	0.04	39755353/4550	✓	✓							**2KJ4325 - ■■■■■ - ■■ N1**
7 943	0.18	480	7 960	-	0.04	3614123/455	✓	✓							**2KJ4325 - ■■■■■ - ■■ M1**
6 759	0.21	480	7 960	-	0.06	30754141/4550	✓	✓							**2KJ4325 - ■■■■■ - ■■ L1**
6 145	0.24	480	7 960	-	0.07	2795831/455	✓	✓							**2KJ4325 - ■■■■■ - ■■ K1**
5 358	0.27	480	7 960	-	0.08	750101/140	✓	✓							**2KJ4325 - ■■■■■ - ■■ J1**
4 796	0.3	480	7 960	-	0.11	2182112/455	✓	✓							**2KJ4325 - ■■■■■ - ■■ H1**
4 259	0.34	480	7 960	-	0.13	23253131/5460	✓	✓							**2KJ4325 - ■■■■■ - ■■ G1**
3 931	0.37	480	7 960	-	0.16	23253131/5915	✓	✓							**2KJ4325 - ■■■■■ - ■■ F1**
3 415	0.42	480	7 960	-	0.17	21752929/6370	✓	✓							**2KJ4325 - ■■■■■ - ■■ E1**
2 967	0.49	480	7 960	-	0.18	6750909/2275	✓	✓							**2KJ4325 - ■■■■■ - ■■ D1**
2 679	0.54	480	7 960	-	0.22	750101/280	✓	✓							**2KJ4325 - ■■■■■ - ■■ C1**
2 521	0.58	480	7 960	-	0.26	1500202/595	✓	✓							**2KJ4325 - ■■■■■ - ■■ B1**
2 198	0.66	480	7 960	-	0.29	3000404/1365	✓	✓							**2KJ4325 - ■■■■■ - ■■ A1**
FZ.49-Z19															
2 149	0.67	480	7 960	-	0.02	1256926/585	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ J1**
1 903	0.76	480	7 960	-	0.03	1236653/650	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ H1**
1 653	0.88	480	7 960	-	0.04	1074469/650	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ G1**
1 503	0.96	480	7 960	-	0.05	97679/65	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ F1**
1 279	1.1	480	7 960	-	0.07	831193/650	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ E1**
1 163	1.2	480	7 960	-	0.08	75563/65	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ D1**
1 014	1.4	480	7 960	-	0.09	20273/20	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ C1**
907	1.6	480	7 960	-	0.13	58976/65	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ B1**
806	1.8	480	7 960	-	0.15	628463/780	✓	✓	✓						**2KJ4324 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.69-D19															
13 479	0.11	600	10 800	-	0.08	94350/7	✓	✓							**2KJ4427 - ■■■■■ - ■■ B1**
12 065	0.12	600	10 800	-	0.11	12076800/1001	✓	✓							**2KJ4427 - ■■■■■ - ■■ A1**
FD.69-Z19															
1 200	1.2	600	10 800	-	0.32	1200/1	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ M1**
1 046	1.4	600	10 800	-	0.37	13600/13	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ L1**
965	1.5	600	10 800	-	0.19	263500/273	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ K1**
838	1.7	600	10 800	-	0.22	123250/147	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ J1**
729	2.0	600	10 800	-	0.23	5100/7	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ H1**
658	2.2	600	10 800	-	0.30	27625/42	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ G1**
619	2.3	600	10 800	-	0.35	13000/21	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ F1**
587	2.5	600	10 800	-	0.37	1760/3	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ E1**
541	2.7	600	10 800	-	0.20	34100/63	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ D1**
470	3.1	600	10 800	-	0.23	207350/441	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ C1**
409	3.5	600	10 800	-	0.25	2860/7	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ B1**
369	3.9	600	10 800	-	0.32	46475/126	✓	✓	✓						**2KJ4426 - ■■■■■ - ■■ A1**
FZ.69-D19															
11 955	0.12	600	10 800	-	0.02	9790792/819	✓	✓							**2KJ4327 - ■■■■■ - ■■ Q1**
10 586	0.14	600	10 800	-	0.03	4816438/455	✓	✓							**2KJ4327 - ■■■■■ - ■■ P1**
9 197	0.16	600	10 800	-	0.04	4184774/455	✓	✓							**2KJ4327 - ■■■■■ - ■■ N1**
8 361	0.17	600	10 800	-	0.04	760868/91	✓	✓							**2KJ4327 - ■■■■■ - ■■ M1**
7 115	0.20	600	10 800	-	0.06	3237278/455	✓	✓							**2KJ4327 - ■■■■■ - ■■ L1**
6 468	0.22	600	10 800	-	0.07	588596/91	✓	✓							**2KJ4327 - ■■■■■ - ■■ K1**
5 640	0.26	600	10 800	-	0.08	39479/7	✓	✓							**2KJ4327 - ■■■■■ - ■■ J1**
5 048	0.29	600	10 800	-	0.11	459392/91	✓	✓							**2KJ4327 - ■■■■■ - ■■ H1**
4 483	0.32	600	10 800	-	0.13	1223849/273	✓	✓							**2KJ4327 - ■■■■■ - ■■ G1**
4 138	0.35	600	10 800	-	0.16	4895396/1183	✓	✓							**2KJ4327 - ■■■■■ - ■■ F1**
3 595	0.4	600	10 800	-	0.17	2289782/637	✓	✓							**2KJ4327 - ■■■■■ - ■■ E1**
3 124	0.46	600	10 800	-	0.18	1421244/455	✓	✓							**2KJ4327 - ■■■■■ - ■■ D1**
2 820	0.51	600	10 800	-	0.22	39479/14	✓	✓							**2KJ4327 - ■■■■■ - ■■ C1**
2 654	0.55	600	10 800	-	0.26	315832/119	✓	✓							**2KJ4327 - ■■■■■ - ■■ B1**
2 314	0.63	600	10 800	-	0.29	631664/273	✓	✓							**2KJ4327 - ■■■■■ - ■■ A1**
FZ.69-Z19															
2 262	0.64	600	10 800	-	0.02	264616/117	✓	✓							**2KJ4326 - ■■■■■ - ■■ F1**
2 003	0.72	600	10 800	-	0.03	130174/65	✓	✓	✓						**2KJ4326 - ■■■■■ - ■■ E1**
1 740	0.83	600	10 800	-	0.04	113102/65	✓	✓	✓						**2KJ4326 - ■■■■■ - ■■ D1**
1 582	0.92	600	10 800	-	0.05	20564/13	✓	✓	✓						**2KJ4326 - ■■■■■ - ■■ C1**
1 346	1.1	600	10 800	-	0.07	87494/65	✓	✓	✓						**2KJ4326 - ■■■■■ - ■■ B1**
1 224	1.2	600	10 800	-	0.08	15908/13	✓	✓	✓						**2KJ4326 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.79-D39															
17 865	0.08	1 000	13 600	-	0.08	583103521/32640	✓	✓	✓	✓					2KJ4430 - ■■■■■ - ■■ E1
16 241	0.09	1 000	13 600	-	0.10	53009411/3264	✓	✓	✓	✓					2KJ4430 - ■■■■■ - ■■ D1
14 240	0.10	1 000	13 600	-	0.12	278875597/19584	✓	✓	✓	✓	✓	✓			2KJ4430 - ■■■■■ - ■■ C1
12 710	0.11	1 000	13 600	-	0.15	6914271/544	✓	✓	✓	✓	✓	✓			2KJ4430 - ■■■■■ - ■■ B1
11 327	0.13	1 000	13 600	-	0.17	887331445/78336	✓	✓	✓	✓	✓	✓			2KJ4430 - ■■■■■ - ■■ A1
FZ.79-D39															
11 301	0.13	1 000	13600	-	0.03	155608271/13770	✓	✓							2KJ4330 - ■■■■■ - ■■ N1
10 023	0.14	1 000	13 600	-	0.05	6765577/675	✓	✓							2KJ4330 - ■■■■■ - ■■ M1
8 696	0.17	1 000	13 600	-	0.05	399169043/45900	✓	✓							2KJ4330 - ■■■■■ - ■■ L1
7 906	0.18	1 000	13 600	-	0.07	399169043/50490	✓	✓	✓	✓					2KJ4330 - ■■■■■ - ■■ K1
6 780	0.21	1 000	13 600	-	0.08	155608271/22950	✓	✓	✓	✓					2KJ4330 - ■■■■■ - ■■ J1
6 164	0.24	1 000	13 600	-	0.10	155608271/25245	✓	✓	✓	✓					2KJ4330 - ■■■■■ - ■■ H1
5 405	0.27	1 000	13 600	-	0.12	74421347/13770	✓	✓	✓	✓	✓	✓			2KJ4330 - ■■■■■ - ■■ G1
4 824	0.30	1 000	13 600	-	0.15	13531154/2805	✓	✓	✓	✓	✓	✓			2KJ4330 - ■■■■■ - ■■ F1
4 299	0.34	1 000	13 600	-	0.17	47359039/11016	✓	✓	✓	✓	✓	✓			2KJ4330 - ■■■■■ - ■■ E1
3 968	0.37	1 000	13 600	-	0.21	3643003/918	✓	✓	✓	✓	✓	✓			2KJ4330 - ■■■■■ - ■■ D1
3 474	0.42	1 000	13 600	-	0.25	10631621/3060	✓	✓	✓	✓	✓	✓			2KJ4330 - ■■■■■ - ■■ C1
3 046	0.48	1 000	13 600	-	0.23	209732887/68850	✓	✓	✓	✓	✓	✓			2KJ4330 - ■■■■■ - ■■ B1
2 764	0.52	1 000	13 600	-	0.33	6765577/2448	✓	✓	✓	✓	✓	✓			2KJ4330 - ■■■■■ - ■■ A1
FZ.79-Z39															
2 687	0.54	1 000	13 600	-	0.06	13059137/4860	✓	✓							2KJ4328 - ■■■■■ - ■■ S2
2 389	0.61	1 000	13 600	-	0.07	6450899/2700	✓	✓	✓	✓					2KJ4328 - ■■■■■ - ■■ R1
2 098	0.69	1 000	13 600	-	0.08	157339/75	✓	✓	✓	✓					2KJ4328 - ■■■■■ - ■■ Q1
1 907	0.76	1 000	13 600	-	0.10	314678/165	✓	✓	✓	✓					2KJ4328 - ■■■■■ - ■■ P1
1 632	0.89	1 000	13 600	-	0.12	1101373/675	✓	✓	✓	✓					2KJ4328 - ■■■■■ - ■■ N1
1 483	0.98	1 000	13 600	-	0.14	2202746/1485	✓	✓	✓	✓					2KJ4328 - ■■■■■ - ■■ M1
1 311	1.1	1 000	13 600	-	0.17	157339/120	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ L1
1 192	1.2	1 000	13 600	-	0.22	157339/132	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ K1
1 044	1.4	1 000	13 600	-	0.26	6765577/6480	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ J1
964	1.5	1 000	13 600	-	0.31	520429/540	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ H1
853	1.7	1 000	13 600	-	0.36	921557/1080	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ G1
710	2.0	1 000	13 600	-	0.48	2045407/2880	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ F1
668	2.2	1 000	13 600	-	0.56	2045407/3060	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ E1
599	2.4	1 000	13 600	-	0.61	5821543/9720	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ D1
510	2.8	1 000	13 600	-	0.79	1101373/2160	✓	✓	✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ C1
437	3.3	1 000	13 600	-	1.03	157339/360			✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ B1
376	3.9	1 000	13 600	-	1.31	4877509/12960			✓	✓	✓	✓			2KJ4328 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.89-D39															
17 750	0.08	1 850	17 400	-	0.12	15389528/867	✓	✓	✓	✓	✓	✓			**2KJ4432 - ■■■■■ - ■■ B1**
15 843	0.09	1 850	17 400	-	0.15	50365728/3179	✓	✓	✓	✓	✓	✓			**2KJ4432 - ■■■■■ - ■■ A1**
FD.89-Z39															
648	2.2	1 850	17 400	-	0.75	47389680/73117	✓	✓	✓	✓	✓	✓			**2KJ4431 - ■■■■■ - ■■ E1**
581	2.5	1 850	17 400	-	0.85	7493240/12903	✓	✓	✓	✓	✓	✓			**2KJ4431 - ■■■■■ - ■■ D1**
494	2.9	1 850	17 400	-	1.12	2126460/4301	✓	✓	✓	✓	✓	✓			**2KJ4431 - ■■■■■ - ■■ C1**
424	3.4	1 850	17 400	-	1.48	1822680/4301			✓	✓	✓	✓			**2KJ4431 - ■■■■■ - ■■ B1**
365	4	1 850	17 400	-	1.91	1569530/4301			✓	✓	✓	✓			**2KJ4431 - ■■■■■ - ■■ A1**
FZ.89-D39															
14 522	0.1	1 850	17 400	-	0.03	33327322/2295	✓	✓							**2KJ4332 - ■■■■■ - ■■ N1**
12 880	0.11	1 850	17 400	-	0.05	2898028/225	✓	✓							**2KJ4332 - ■■■■■ - ■■ M1**
11 175	0.13	1 850	17 400	-	0.05	42745913/3825	✓	✓							**2KJ4332 - ■■■■■ - ■■ L1**
10 159	0.14	1 850	17 400	-	0.07	85491826/8415	✓	✓	✓	✓					**2KJ4332 - ■■■■■ - ■■ K1**
8 713	0.17	1 850	17 400	-	0.08	33327322/3825	✓	✓	✓	✓					**2KJ4332 - ■■■■■ - ■■ J1**
7 921	0.18	1 850	17 400	-	0.10	66654644/8415	✓	✓	✓	✓					**2KJ4332 - ■■■■■ - ■■ H1**
6 945	0.21	1 850	17 400	-	0.12	15939154/2295	✓	✓	✓	✓	✓	✓			**2KJ4332 - ■■■■■ - ■■ G1**
6 299	0.23	1 850	17 400	-	0.15	5796056/935	✓	✓	✓	✓	✓	✓			**2KJ4332 - ■■■■■ - ■■ F1**
5 525	0.26	1 850	17 400	-	0.17	5071549/918	✓	✓	✓	✓	✓	✓			**2KJ4332 - ■■■■■ - ■■ E1**
5 100	0.28	1 850	17 400	-	0.21	10143098/1989	✓	✓	✓	✓	✓	✓			**2KJ4332 - ■■■■■ - ■■ D1**
4 465	0.32	1 850	17 400	-	0.25	1138511/255	✓	✓	✓	✓	✓	✓			**2KJ4332 - ■■■■■ - ■■ C1**
3 915	0.37	1 850	17 400	-	0.23	44919434/11475	✓	✓	✓	✓	✓	✓			**2KJ4332 - ■■■■■ - ■■ B1**
3 552	0.41	1 850	17 400	-	0.33	724507/204	✓	✓	✓	✓	✓	✓			**2KJ4332 - ■■■■■ - ■■ A1**
FZ.89-Z39															
3 453	0.42	1 850	17 400	-	0.06	1398467/405	✓	✓							**2KJ4331 - ■■■■■ - ■■ P1**
3 070	0.47	1 850	17 400	-	0.07	690809/225	✓	✓	✓	✓					**2KJ4331 - ■■■■■ - ■■ N1**
2 696	0.54	1 850	17 400	-	0.08	67396/25	✓	✓	✓	✓					**2KJ4331 - ■■■■■ - ■■ M1**
2 451	0.59	1 850	17 400	-	0.10	134792/55	✓	✓	✓	✓					**2KJ4331 - ■■■■■ - ■■ L1**
2 097	0.69	1 850	17 400	-	0.12	471772/225	✓	✓	✓	✓					**2KJ4331 - ■■■■■ - ■■ K1**
1 906	0.76	1 850	17 400	-	0.14	943544/495	✓	✓	✓	✓					**2KJ4331 - ■■■■■ - ■■ J1**
1 685	0.86	1 850	17 400	-	0.17	16849/10	✓	✓	✓	✓	✓	✓			**2KJ4331 - ■■■■■ - ■■ H1**
1 532	0.95	1 850	17 400	-	0.22	16849/11	✓	✓	✓	✓	✓	✓			**2KJ4331 - ■■■■■ - ■■ G1**
1 342	1.1	1 850	17 400	-	0.26	724507/540	✓	✓	✓	✓	✓	✓			**2KJ4331 - ■■■■■ - ■■ F1**
1 238	1.2	1 850	17 400	-	0.31	724507/585	✓	✓	✓	✓	✓	✓			**2KJ4331 - ■■■■■ - ■■ E1**
1 097	1.3	1 850	17 400	-	0.36	98687/90	✓	✓	✓	✓	✓	✓			**2KJ4331 - ■■■■■ - ■■ D1**
913	1.6	1 850	17 400	-	0.48	219037/240	✓	✓	✓	✓	✓	✓			**2KJ4331 - ■■■■■ - ■■ C1**
859	1.7	1 850	17 400	-	0.56	219037/255	✓	✓	✓	✓	✓	✓			**2KJ4331 - ■■■■■ - ■■ B1**
770	1.9	1 850	17 400	-	0.61	623413/810	✓	✓	✓	✓	✓	✓			**2KJ4331 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.109-D39															
22 701	0.06	3 100	25 000	-	0.05	5286392566/232875	✓	✓							2KJ4434 - ■■■■■ - ■■ L1
20 637	0.07	3 100	25 000	-	0.07	10572785132/512325	✓	✓	✓	✓					2KJ4434 - ■■■■■ - ■■ K1
17 699	0.08	3 100	25 000	-	0.08	179199748/10125	✓	✓	✓	✓					2KJ4434 - ■■■■■ - ■■ J1
16 090	0.09	3 100	25 000	-	0.10	358399496/22275	✓	✓	✓	✓					2KJ4434 - ■■■■■ - ■■ H1
14 108	0.10	3 100	25 000	-	0.12	1971197228/139725	✓	✓	✓	✓	✓	✓			2KJ4434 - ■■■■■ - ■■ G1
12 592	0.12	3 100	25 000	-	0.15	716798992/56925	✓	✓	✓	✓	✓	✓			2KJ4434 - ■■■■■ - ■■ F1
11 222	0.13	3 100	25 000	-	0.18	313599559/27945	✓	✓	✓	✓	✓	✓			2KJ4434 - ■■■■■ - ■■ E1
10 359	0.14	3 100	25 000	-	0.21	96492172/9315	✓	✓	✓	✓	✓	✓			2KJ4434 - ■■■■■ - ■■ D1
9 069	0.16	3 100	25 000	-	0.25	140799802/15525	✓	✓	✓	✓	✓	✓			2KJ4434 - ■■■■■ - ■■ C1
7 952	0.18	3 100	25 000	-	0.23	5555192188/698625	✓	✓	✓	✓	✓	✓			2KJ4434 - ■■■■■ - ■■ B1
7 214	0.2	3 100	25 000	-	0.33	44799937/6210	✓	✓	✓	✓	✓	✓			2KJ4434 - ■■■■■ - ■■ A1
FD.109-Z39															
7 014	0.21	3 100	25 000	-	0.06	2940126098/419175	✓	✓							2KJ4433 - ■■■■■ - ■■ A2
6 237	0.23	3 100	25 000	-	0.07	1452351446/232875	✓	✓	✓	✓					2KJ4433 - ■■■■■ - ■■ X1
5 476	0.26	3 100	25 000	-	0.09	141692824/25875	✓	✓	✓	✓					2KJ4433 - ■■■■■ - ■■ W1
4 978	0.29	3 100	25 000	-	0.10	283385648/56925	✓	✓	✓	✓					2KJ4433 - ■■■■■ - ■■ V1
4 259	0.34	3 100	25 000	-	0.12	991849768/232875	✓	✓	✓	✓					2KJ4433 - ■■■■■ - ■■ U1
3 872	0.37	3 100	25 000	-	0.15	1983699536/512325	✓	✓	✓	✓					2KJ4433 - ■■■■■ - ■■ T1
3 423	0.42	3 100	25 000	-	0.17	17711603/5175	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ S1
3 111	0.47	3 100	25 000	-	0.23	35423206/11385	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ R1
2 725	0.53	3 100	25 000	-	0.27	761598929/279450	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ Q1
2 516	0.58	3 100	25 000	-	0.32	117169066/46575	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ P1
2 227	0.65	3 100	25 000	-	0.38	103739389/46575	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ N1
1 854	0.78	3 100	25 000	-	0.50	230250839/124200	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ M1
1 745	0.83	3 100	25 000	-	0.59	27088334/15525	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ L1
1 563	0.93	3 100	25 000	-	0.64	655329311/419175	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ K1
1 331	1.1	3 100	25 000	-	0.84	123981221/93150	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ J1
1 141	1.3	3 100	25 000	-	1.10	17711603/15525			✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ H1
982	1.5	3 100	25 000	-	1.40	549059693/558900			✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ G1
810	1.8	3 100	25 000	-	0.73	154343969/190440	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ F1
763	1.9	3 100	25 000	-	0.84	18158114/23805	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ E1
683	2.1	3 100	25 000	-	0.96	439286681/642735	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ D1
582	2.5	3 100	25 000	-	1.28	83108291/142830	✓	✓	✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ C1
499	2.9	3 100	25 000	-	1.70	11872613/23805			✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ B1
429	3.4	3 100	25 000	-	2.20	368051003/856980			✓	✓	✓	✓			2KJ4433 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.129-D49															
27 777	0.05	4 850	37 200	-	0.08	31110629/1120	✓	✓							2KJ4436 - ■■■■■ - ■■ N1
25 252	0.06	4 850	37 200	-	0.10	2828239/112	✓	✓	✓	✓					2KJ4436 - ■■■■■ - ■■ M1
21 605	0.07	4 850	37 200	-	0.12	31110629/1440	✓	✓	✓	✓					2KJ4436 - ■■■■■ - ■■ L1
19 641	0.07	4 850	37 200	-	0.14	2828239/144	✓	✓	✓	✓					2KJ4436 - ■■■■■ - ■■ K1
17 361	0.08	4 850	37 200	-	0.17	31110629/1792	✓	✓	✓	✓	✓	✓			2KJ4436 - ■■■■■ - ■■ J1
15 783	0.09	4 850	37 200	-	0.22	14141195/896	✓	✓	✓	✓	✓	✓			2KJ4436 - ■■■■■ - ■■ H1
13 824	0.10	4 850	37 200	-	0.26	1337757047/96768	✓	✓	✓	✓	✓	✓			2KJ4436 - ■■■■■ - ■■ G1
12 761	0.11	4 850	37 200	-	0.31	1337757047/104832	✓	✓	✓	✓	✓	✓			2KJ4436 - ■■■■■ - ■■ F1
11 298	0.13	4 850	37 200	-	0.37	1275535789/112896	✓	✓	✓	✓	✓	✓	✓		2KJ4436 - ■■■■■ - ■■ E1
9 404	0.15	4 850	37 200	-	0.50	404438177/43008	✓	✓	✓	✓	✓	✓	✓		2KJ4436 - ■■■■■ - ■■ D1
8 851	0.16	4 850	37 200	-	0.59	23790481/2688	✓	✓	✓	✓	✓	✓	✓		2KJ4436 - ■■■■■ - ■■ C1
7 930	0.18	4 850	37 200	-	0.65	1151093273/145152	✓	✓	✓	✓	✓	✓	✓		2KJ4436 - ■■■■■ - ■■ B1
6 751	0.21	4 850	37 200	-	0.85	31110629/4608	✓	✓	✓	✓	✓	✓	✓		2KJ4436 - ■■■■■ - ■■ A1
FD.129-Z49															
6 604	0.22	4 850	37 200	-	0.18	177513589/26880	✓	✓	✓	✓					2KJ4435 - ■■■■■ - ■■ B2
6 004	0.24	4 850	37 200	-	0.21	16137599/2688	✓	✓	✓	✓					2KJ4435 - ■■■■■ - ■■ A2
5 106	0.28	4 850	37 200	-	0.27	9150185/1792	✓	✓	✓	✓					2KJ4435 - ■■■■■ - ■■ X1
4 642	0.31	4 850	37 200	-	0.32	4159175/896	✓	✓	✓	✓					2KJ4435 - ■■■■■ - ■■ W1
4 142	0.35	4 850	37 200	-	0.38	133592701/32256	✓	✓	✓	✓	✓	✓			2KJ4435 - ■■■■■ - ■■ V1
3 714	0.39	4 850	37 200	-	0.45	831835/224	✓	✓	✓	✓	✓	✓			2KJ4435 - ■■■■■ - ■■ U1
3 347	0.43	4 850	37 200	-	0.53	107972183/32256	✓	✓	✓	✓	✓	✓			2KJ4435 - ■■■■■ - ■■ T1
3 090	0.47	4 850	37 200	-	0.63	107972183/34944	✓	✓	✓	✓	✓	✓			2KJ4435 - ■■■■■ - ■■ S1
2 821	0.51	4 850	37 200	-	0.75	53071073/18816	✓	✓	✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ R1
2 340	0.62	4 850	37 200	-	0.95	100652035/43008	✓	✓	✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ Q1
2 203	0.66	4 850	37 200	-	1.10	100652035/45696	✓	✓	✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ P1
2 080	0.70	4 850	37 200	-	1.25	100652035/48384	✓	✓	✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ N1
1 770	0.82	4 850	37 200	-	1.53	23790481/13440	✓	✓	✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ M1
1 516	0.96	4 850	37 200	-	1.89	1164569/768			✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ L1
1 333	1.1	4 850	37 200	-	2.3	86011739/64512			✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ K1
1 125	1.3	4 850	37 200	-	2.9	34770703/30912			✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ J1
980	1.5	4 850	37 200	-	3.9	5490111/5600			✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ H1
967	1.5	4 850	37 200	-	1.51	27620791/28560	✓	✓	✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ G1
913	1.6	4 850	37 200	-	1.71	27620791/30240	✓	✓	✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ F1
777	1.9	4 850	37 200	-	2.2	32642753/42000	✓	✓	✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ E1
666	2.2	4 850	37 200	-	2.8	1597897/2400			✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ D1
585	2.5	4 850	37 200	-	3.5	118016107/201600			✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ C1
494	2.9	4 850	37 200	-	4.5	47708639/96600			✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ B1
430	3.4	4 850	37 200	-	6.0	7532943/17500			✓	✓	✓	✓	✓		2KJ4435 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

4

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.149-D49															
27 793	0.05	8 000	65 000	-	0.08	1361853/49	✓	✓							2KJ4438 - ■■■■■ - ■■ N1
25 266	0.06	8 000	65 000	-	0.10	13618530/539	✓	✓	✓	✓					2KJ4438 - ■■■■■ - ■■ M1
21 617	0.07	8 000	65 000	-	0.12	151317/7	✓	✓	✓	✓					2KJ4438 - ■■■■■ - ■■ L1
19 652	0.07	8 000	65 000	-	0.14	1513170/77	✓	✓	✓	✓					2KJ4438 - ■■■■■ - ■■ K1
17 371	0.08	8 000	65 000	-	0.17	6809265/392	✓	✓	✓	✓	✓	✓			2KJ4438 - ■■■■■ - ■■ J1
15 791	0.09	8 000	65 000	-	0.22	34046325/2156	✓	✓	✓	✓	✓	✓			2KJ4438 - ■■■■■ - ■■ H1
13 832	0.10	8 000	65 000	-	0.26	10844385/784	✓	✓	✓	✓	✓	✓			2KJ4438 - ■■■■■ - ■■ G1
12 768	0.11	8 000	65 000	-	0.31	32533155/2548	✓	✓	✓	✓	✓	✓			2KJ4438 - ■■■■■ - ■■ F1
11 305	0.13	8 000	65 000	-	0.37	31019985/2744	✓	✓	✓	✓	✓	✓	✓		2KJ4438 - ■■■■■ - ■■ E1
9 409	0.15	8 000	65 000	-	0.50	29506815/3136	✓	✓	✓	✓	✓	✓	✓		2KJ4438 - ■■■■■ - ■■ D1
8 856	0.16	8 000	65 000	-	0.59	1735695/196	✓	✓	✓	✓	✓	✓	✓		2KJ4438 - ■■■■■ - ■■ C1
7 935	0.18	8 000	65 000	-	0.66	3110405/392	✓	✓	✓	✓	✓	✓	✓		2KJ4438 - ■■■■■ - ■■ B1
6 755	0.21	8 000	65 000	-	0.86	756585/112	✓	✓	✓	✓	✓	✓	✓		2KJ4438 - ■■■■■ - ■■ A1
FD.149-Z49															
6 608	0.22	8 000	65 000	-	0.18	2590191/392	✓	✓	✓	✓					2KJ4437 - ■■■■■ - ■■ B2
6 007	0.24	8 000	65 000	-	0.22	12950955/2156	✓	✓	✓	✓					2KJ4437 - ■■■■■ - ■■ A2
5 109	0.28	8 000	65 000	-	0.28	2002725/392	✓	✓	✓	✓					2KJ4437 - ■■■■■ - ■■ X1
4 545	0.32	8 000	65 000	-	0.34	10013625/2156	✓	✓	✓	✓					2KJ4437 - ■■■■■ - ■■ W1
4 144	0.35	8 000	65 000	-	0.39	3248865/784	✓	✓	✓	✓	✓	✓			2KJ4437 - ■■■■■ - ■■ V1
3 716	0.39	8 000	65 000	-	0.47	2002725/539	✓	✓	✓	✓	✓	✓			2KJ4437 - ■■■■■ - ■■ U1
3 349	0.43	8 000	65 000	-	0.55	2625795/784	✓	✓	✓	✓	✓	✓			2KJ4437 - ■■■■■ - ■■ T1
3 092	0.47	8 000	65 000	-	0.66	7877385/2548	✓	✓	✓	✓	✓	✓			2KJ4437 - ■■■■■ - ■■ S1
2 822	0.51	8 000	65 000	-	0.78	3871935/1372	✓	✓	✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ R1
2 342	0.62	8 000	65 000	-	1.0	7343325/3136	✓	✓	✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ Q1
2 204	0.66	8 000	65 000	-	1.16	7343325/3332	✓	✓	✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ P1
2 081	0.70	8 000	65 000	-	1.31	815925/392	✓	✓	✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ N1
1 771	0.82	8 000	65 000	-	1.62	347139/196	✓	✓	✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ M1
1 517	0.96	8 000	65 000	-	2.0	133515/88			✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ L1
1 334	1.1	8 000	65 000	-	2.5	2091735/1568			✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ K1
1 125	1.3	8 000	65 000	-	3.2	110295/98			✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ J1
981	1.5	8 000	65 000	-	4.2	240327/245			✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ H1
968	1.5	8 000	65 000	-	1.81	806058/833	✓	✓	✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ G1
914	1.6	8 000	65 000	-	2.0	44781/49	✓	✓	✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ F1
778	1.9	8 000	65 000	-	2.6	952614/1225	✓	✓	✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ E1
666	2.2	8 000	65 000	-	3.4	36639/55			✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ D1
586	2.5	8 000	65 000	-	4.3	574011/980			✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ C1
494	2.9	8 000	65 000	-	5.7	121068/245			✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ B1
431	3.4	8 000	65 000	-	7.5	2638008/6125			✓	✓	✓	✓	✓		2KJ4437 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.169-D69															
29 846	0.05	13 600	73 500	-	0.07	4387328/147	✓	✓	✓	✓					2KJ4441 - ■■■■■ - ■■ P1
26 206	0.06	13 600	73 500	-	0.08	1284096/49	✓	✓	✓	✓					2KJ4441 - ■■■■■ - ■■ N1
23 824	0.06	13 600	73 500	-	0.10	1167360/49	✓	✓	✓	✓					2KJ4441 - ■■■■■ - ■■ M1
20 382	0.07	13 600	73 500	-	0.12	428032/21	✓	✓	✓	✓					2KJ4441 - ■■■■■ - ■■ L1
18 530	0.08	13 600	73 500	-	0.15	389120/21	✓	✓	✓	✓					2KJ4441 - ■■■■■ - ■■ K1
16 379	0.09	13 600	73 500	-	0.17	802560/49	✓	✓	✓	✓	✓	✓			2KJ4441 - ■■■■■ - ■■ J1
14 890	0.10	13 600	73 500	-	0.23	729600/49	✓	✓	✓	✓	✓	✓			2KJ4441 - ■■■■■ - ■■ H1
13 042	0.11	13 600	73 500	-	0.26	5751680/441	✓	✓	✓	✓	✓	✓			2KJ4441 - ■■■■■ - ■■ G1
12 039	0.12	13 600	73 500	-	0.32	23006720/1911	✓	✓	✓	✓	✓	✓			2KJ4441 - ■■■■■ - ■■ F1
10 659	0.14	13 600	73 500	-	0.39	10968320/1029	✓	✓	✓	✓	✓	✓	✓		2KJ4441 - ■■■■■ - ■■ E1
8 872	0.16	13 600	73 500	-	0.52	434720/49	✓	✓	✓	✓	✓	✓	✓		2KJ4441 - ■■■■■ - ■■ D1
8 350	0.17	13 600	73 500	-	0.61	6955520/833	✓	✓	✓	✓	✓	✓	✓		2KJ4441 - ■■■■■ - ■■ C1
7 482	0.19	13 600	73 500	-	0.68	9898240/1323	✓	✓	✓	✓	✓	✓	✓		2KJ4441 - ■■■■■ - ■■ B1
6 370	0.23	13 600	73 500	-	0.89	133760/21	✓	✓	✓	✓	✓	✓	✓		2KJ4441 - ■■■■■ - ■■ A1
FD.169-Z69															
6 230	0.23	13 600	73 500	-	0.21	5189888/833	✓	✓	✓	✓					2KJ4440 - ■■■■■ - ■■ A2
5 664	0.26	13 600	73 500	-	0.26	4718080/833	✓	✓	✓	✓					2KJ4440 - ■■■■■ - ■■ X1
4 817	0.30	13 600	73 500	-	0.33	4012800/833	✓	✓	✓	✓					2KJ4440 - ■■■■■ - ■■ W1
4 379	0.33	13 600	73 500	-	0.40	3648000/833	✓	✓	✓	✓					2KJ4440 - ■■■■■ - ■■ V1
3 907	0.37	13 600	73 500	-	0.47	9764480/2499	✓	✓	✓	✓	✓	✓			2KJ4440 - ■■■■■ - ■■ U1
3 503	0.41	13 600	73 500	-	0.57	2918400/833	✓	✓	✓	✓	✓	✓			2KJ4440 - ■■■■■ - ■■ T1
3 158	0.46	13 600	73 500	-	0.67	7891840/2499	✓	✓	✓	✓	✓	✓			2KJ4440 - ■■■■■ - ■■ S1
2 915	0.50	13 600	73 500	-	0.80	31567360/10829	✓	✓	✓	✓	✓	✓			2KJ4440 - ■■■■■ - ■■ R1
2 661	0.54	13 600	73 500	-	0.95	15516160/5831	✓	✓	✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ Q1
2 208	0.66	13 600	73 500	-	1.25	1839200/833	✓	✓	✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ P1
2 078	0.70	13 600	73 500	-	1.44	29427200/14161	✓	✓	✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ N1
1 963	0.74	13 600	73 500	-	1.63	14713600/7497	✓	✓	✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ M1
1 670	0.87	13 600	73 500	-	2.1	1391104/833	✓	✓	✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ L1
1 431	1.0	13 600	73 500	-	2.6	24320/17			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ K1
1 258	1.2	13 600	73 500	-	3.2	3143360/2499			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ J1
1 061	1.4	13 600	73 500	-	4.2	20331520/19159			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ H1
925	1.6	13 600	73 500	-	5.7	3852288/4165			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ G1
869	1.7	13 600	73 500	-	3.2	21401600/24633			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ F1
739	2.0	13 600	73 500	-	4.3	2023424/2737	✓	✓	✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ E1
633	2.3	13 600	73 500	-	5.6	2723840/4301			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ D1
557	2.6	13 600	73 500	-	7.1	4572160/8211			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ C1
470	3.1	13 600	73 500	-	9.7	29573120/62951			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ B1
409	3.5	13 600	73 500	-	13	5603328/13685			✓	✓	✓	✓	✓		2KJ4440 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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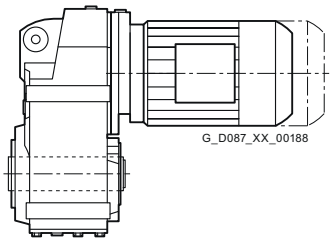
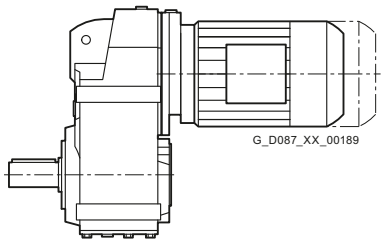
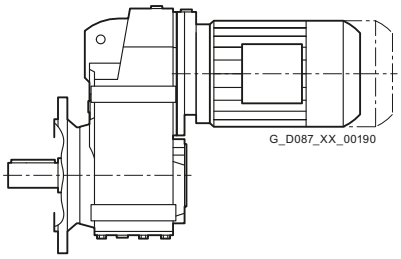
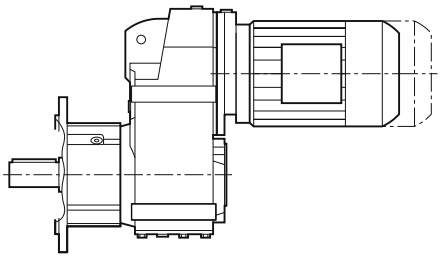
Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.189-D69															
27 341	0.05	19 000	110 900	-	0.10	2870816/105	✓	✓	✓	✓					2KJ4443 - ■■■■■ - ■■ M1
23 392	0.06	19 000	110 900	-	0.12	15789488/675	✓	✓	✓	✓					2KJ4443 - ■■■■■ - ■■ L1
21 265	0.07	19 000	110 900	-	0.15	2870816/135	✓	✓	✓	✓					2KJ4443 - ■■■■■ - ■■ K1
18 797	0.08	19 000	110 900	-	0.17	1973686/105	✓	✓	✓	✓	✓	✓			2KJ4443 - ■■■■■ - ■■ J1
17 088	0.08	19 000	110 900	-	0.23	358852/21	✓	✓	✓	✓	✓	✓			2KJ4443 - ■■■■■ - ■■ H1
14 968	0.10	19 000	110 900	-	0.27	42434249/2835	✓	✓	✓	✓	✓	✓			2KJ4443 - ■■■■■ - ■■ G1
13 817	0.10	19 000	110 900	-	0.32	13056692/945	✓	✓	✓	✓	✓	✓			2KJ4443 - ■■■■■ - ■■ F1
12 233	0.12	19 000	110 900	-	0.39	80921126/6615	✓	✓	✓	✓	✓	✓	✓		2KJ4443 - ■■■■■ - ■■ E1
10 182	0.14	19 000	110 900	-	0.53	12828959/1260	✓	✓	✓	✓	✓	✓	✓		2KJ4443 - ■■■■■ - ■■ D1
9 583	0.15	19 000	110 900	-	0.62	51315836/5355	✓	✓	✓	✓	✓	✓	✓		2KJ4443 - ■■■■■ - ■■ C1
8 586	0.17	19 000	110 900	-	0.69	73026382/8505	✓	✓	✓	✓	✓	✓	✓		2KJ4443 - ■■■■■ - ■■ B1
7 310	0.20	19 000	110 900	-	0.90	986843/135	✓	✓	✓	✓	✓	✓	✓		2KJ4443 - ■■■■■ - ■■ A1
FD.189-Z69															
7 150	0.20	19 000	110 900	-	0.23	191447542/26775	✓	✓	✓	✓					2KJ4442 - ■■■■■ - ■■ C2
6 500	0.22	19 000	110 900	-	0.28	34808644/5355	✓	✓	✓	✓					2KJ4442 - ■■■■■ - ■■ B2
5 529	0.26	19 000	110 900	-	0.35	1973686/357	✓	✓	✓	✓					2KJ4442 - ■■■■■ - ■■ A2
5 026	0.29	19 000	110 900	-	0.43	1794260/357	✓	✓	✓	✓					2KJ4442 - ■■■■■ - ■■ X1
4 484	0.32	19 000	110 900	-	0.51	72039539/16065	✓	✓	✓	✓	✓	✓			2KJ4442 - ■■■■■ - ■■ W1
4 021	0.36	19 000	110 900	-	0.62	1435408/357	✓	✓	✓	✓	✓	✓			2KJ4442 - ■■■■■ - ■■ V1
3 624	0.40	19 000	110 900	-	0.73	58223737/16065	✓	✓	✓	✓	✓	✓			2KJ4442 - ■■■■■ - ■■ U1
3 345	0.43	19 000	110 900	-	0.87	17914996/5355	✓	✓	✓	✓	✓	✓			2KJ4442 - ■■■■■ - ■■ T1
3 054	0.47	19 000	110 900	-	1.04	114473788/37485	✓	✓	✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ S1
2 534	0.57	19 000	110 900	-	1.38	10855273/4284	✓	✓	✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ R1
2 385	0.61	19 000	110 900	-	1.57	43421092/18207	✓	✓	✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ Q1
2 252	0.64	19 000	110 900	-	1.78	21710546/9639	✓	✓	✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ P1
1 917	0.76	19 000	110 900	-	2.3	51315836/26775	✓	✓	✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ N1
1 642	0.88	19 000	110 900	-	2.9	1255982/765	✓	✓	✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ M1
1 444	1.0	19 000	110 900	-	3.6	46381621/32130			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ L1
1 218	1.2	19 000	110 900	-	4.8	150000136/123165			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ K1
1 061	1.4	19 000	110 900	-	6.4	15789488/14875			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ J1
997	1.5	19 000	110 900	-	4.0	31578976/31671			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ H1
848	1.7	19 000	110 900	-	5.4	74641216/87975	✓	✓	✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ G1
727	2.0	19 000	110 900	-	7.1	140669984/193545	✓	✓	✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ F1
639	2.3	19 000	110 900	-	9.1	33732088/52785			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ E1
539	2.7	19 000	110 900	-	12	218182016/404685			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ D1
478	3.0	19 000	110 900	-	12	8403976/17595			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ C1
403	3.6	19 000	110 900	-	16	54357632/134895			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ B1
351	4.1	19 000	110 900	-	21	17165568/48875			✓	✓	✓	✓	✓		2KJ4442 - ■■■■■ - ■■ A1

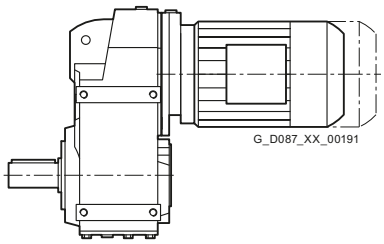
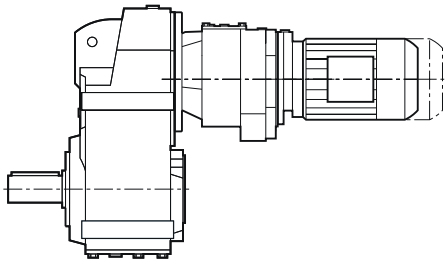
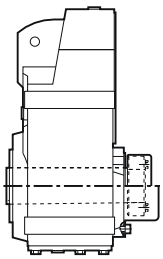
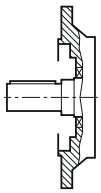
[1] Only in conjunction with reduced-backlash version

Dimensional drawing overview

Information about dimensional drawings can be found in chapter "Introduction" on page 1/18.

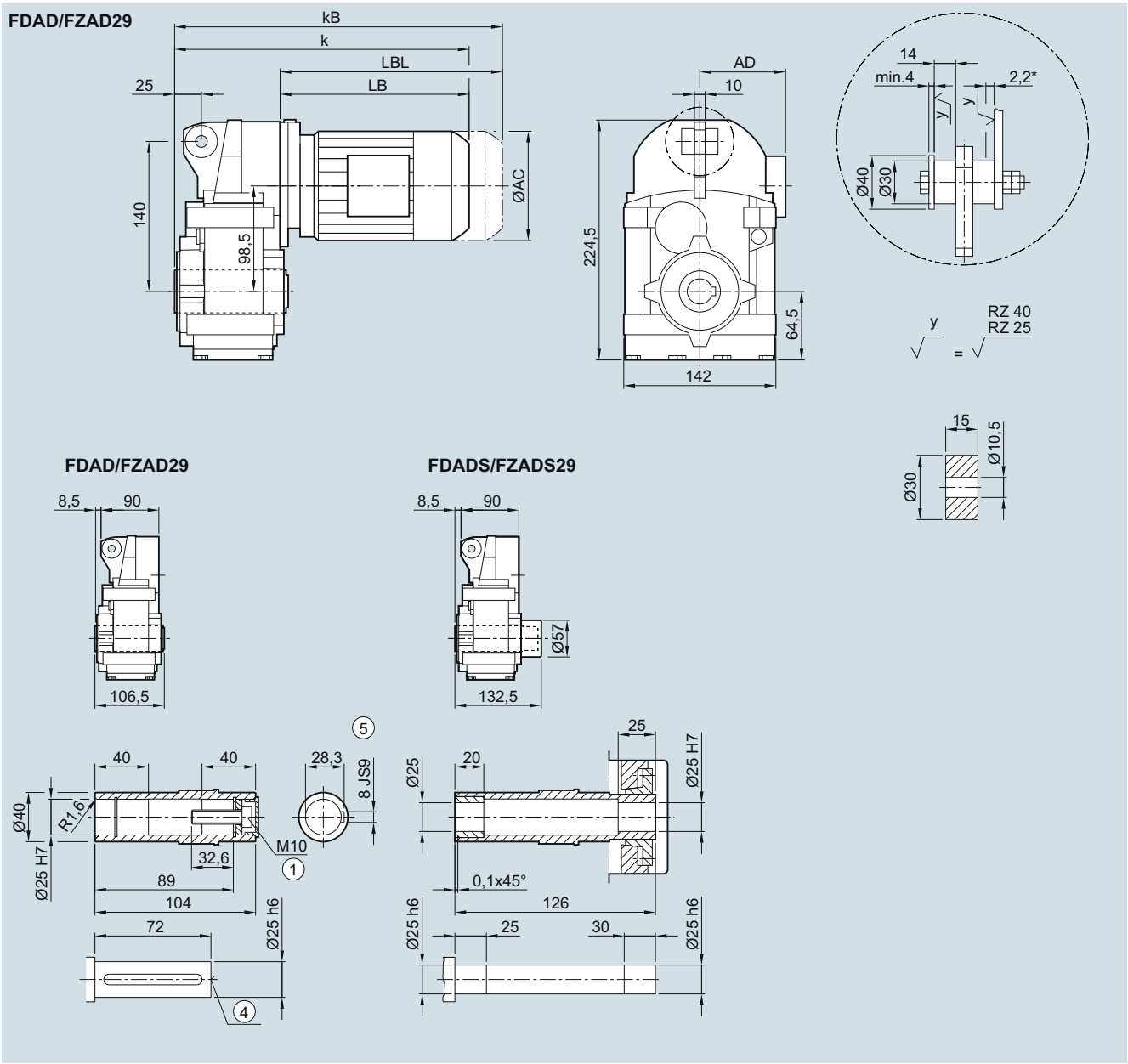
Design	Size	Dimensional drawing on page
Parallel shaft geared motor FZ and FD		
Shaft-mounted design		
 G_D087_XX_00188	FDAD./FZAD.29	4/151
	FDAD./FZAD.39	4/155
	FDAD./FZAD.49	4/159
	FDAD./FZAD.69	4/163
	FDAD./FZAD.79	4/167
	FDAD./FZAD.89	4/171
	FDAD./FZAD.109	4/176
	FDAD./FZAD.129	4/181
	FDAD./FZAD.149	4/186
	FDAD./FZAD.169	4/191
	FDAD./FZAD.189	4/196
Housing flange design		
 G_D087_XX_00189	FD.Z./FZ.Z.29	4/152
	FD.Z./FZ.Z.39	4/156
	FD.Z./FZ.Z.49	4/160
	FD.Z./FZ.Z.69	4/164
	FD.Z./FZ.Z.79	4/168
	FD.Z./FZ.Z.89	4/172
	FD.Z./FZ.Z.109	4/177
	FD.Z./FZ.Z.129	4/182
	FD.Z./FZ.Z.149	4/187
	FD.Z./FZ.Z.169	4/192
	FD.Z./FZ.Z.189	4/197
Flange-mounted design		
 G_D087_XX_00190	FD.F./FZ.F.29	4/153
	FD.F./FZ.F.39	4/157
	FD.F./FZ.F.49	4/161
	FD.F./FZ.F.69	4/165
	FD.F./FZ.F.79	4/169
	FD.F./FZ.F.89	4/173
	FD.F./FZ.F.109	4/178
	FD.F./FZ.F.129	4/183
	FD.F./FZ.F.149	4/188
	FD.F./FZ.F.169	4/193
	FD.F./FZ.F.189	4/198
Flange-mounted design with VLplus reinforced bearing system		
	FD.F./FZ.F.89	4/174
	FD.F./FZ.F.109	4/179
	FD.F./FZ.F.129	4/184
	FD.F./FZ.F.149	4/189
	FD.F./FZ.F.169	4/194

Dimensional drawing overview (continued)

Design	Frame size	Dimensional drawing on page
Parallel shaft geared motor FZ and FD		
Foot-mounted design		
	FD../FZ..29	4/154
	FD../FZ..39	4/158
	FD../FZ..49	4/162
	FD../FZ..69	4/166
	FD../FZ..79	4/170
	FD../FZ..89	4/175
	FD../FZ..109	4/180
	FD../FZ..129	4/185
	FD../FZ..149	4/190
	FD../FZ..169	4/195
	FD../FZ..189	4/199
Parallel shaft tandem geared motor		
	FD../FZ..29-D/Z19 ... FD..189-D/Z69	4/200
Additional versions and options		
Protection covers		
	FD../FZ..29 ... FD../FZ..189	4/201
Inner contour of the flange design		
	FDF/FZF.29 ... FDF/FZF.189 FDAF/FZAF.29 ... FDAF/FZAF.189	4/202

FDAD./FZAD.29 gearbox in a shaft-mounted design

FAD030, FADS030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	311.0	332.5	384.0	445.0	420.0	522.0
kB	356.0	387.5	444.0	515.0	490.0	600.5
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

① ISO 4017 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 * Spring compression at max. torque

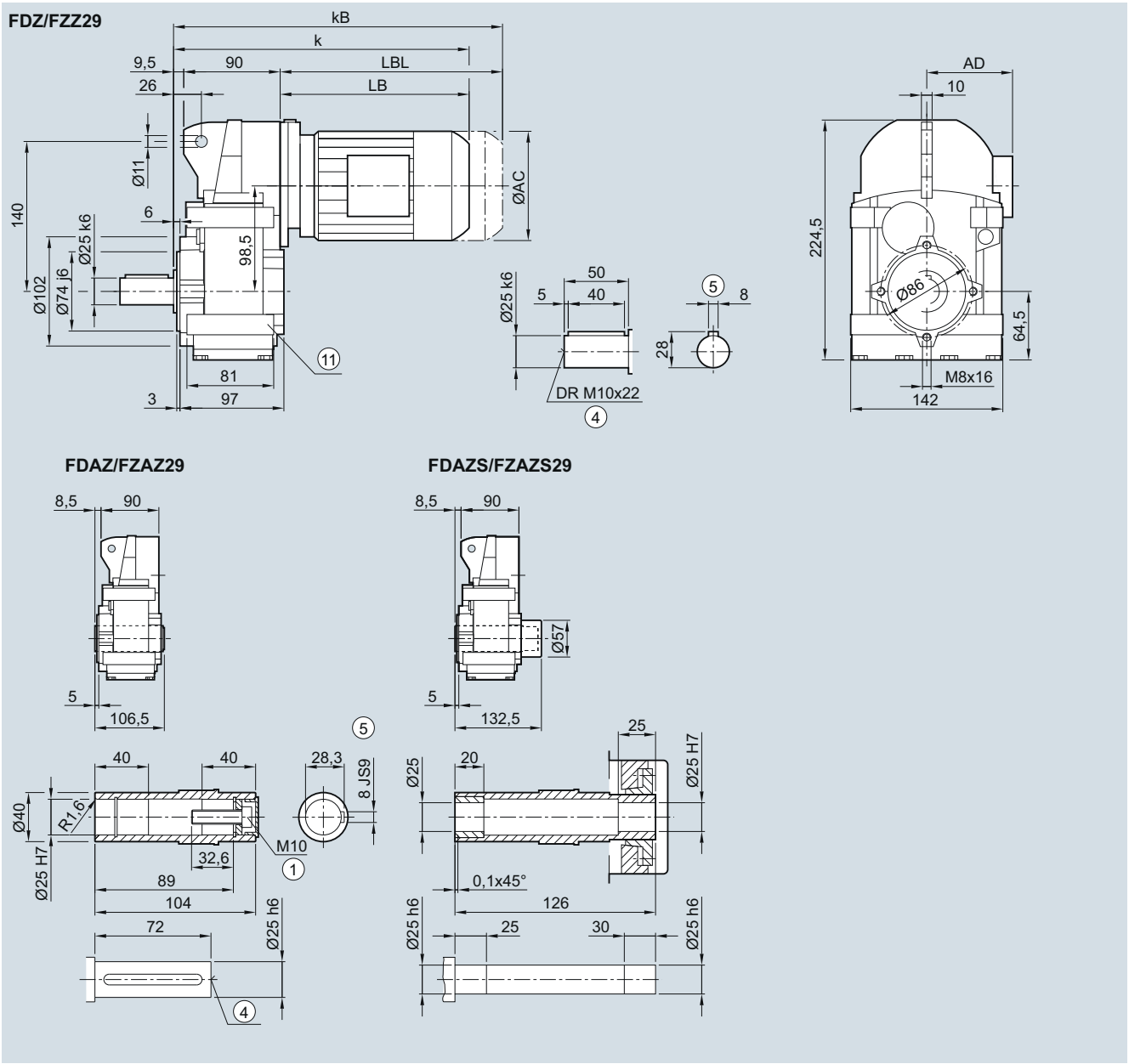
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD.Z./FZ.Z.29 gearbox in a housing flange design

FZ030, FAZ030, FAZS030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	312.0	333.5	385.0	446.0	421.0	523.0
kB	357.0	388.5	445.0	516.0	491.0	601.5
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

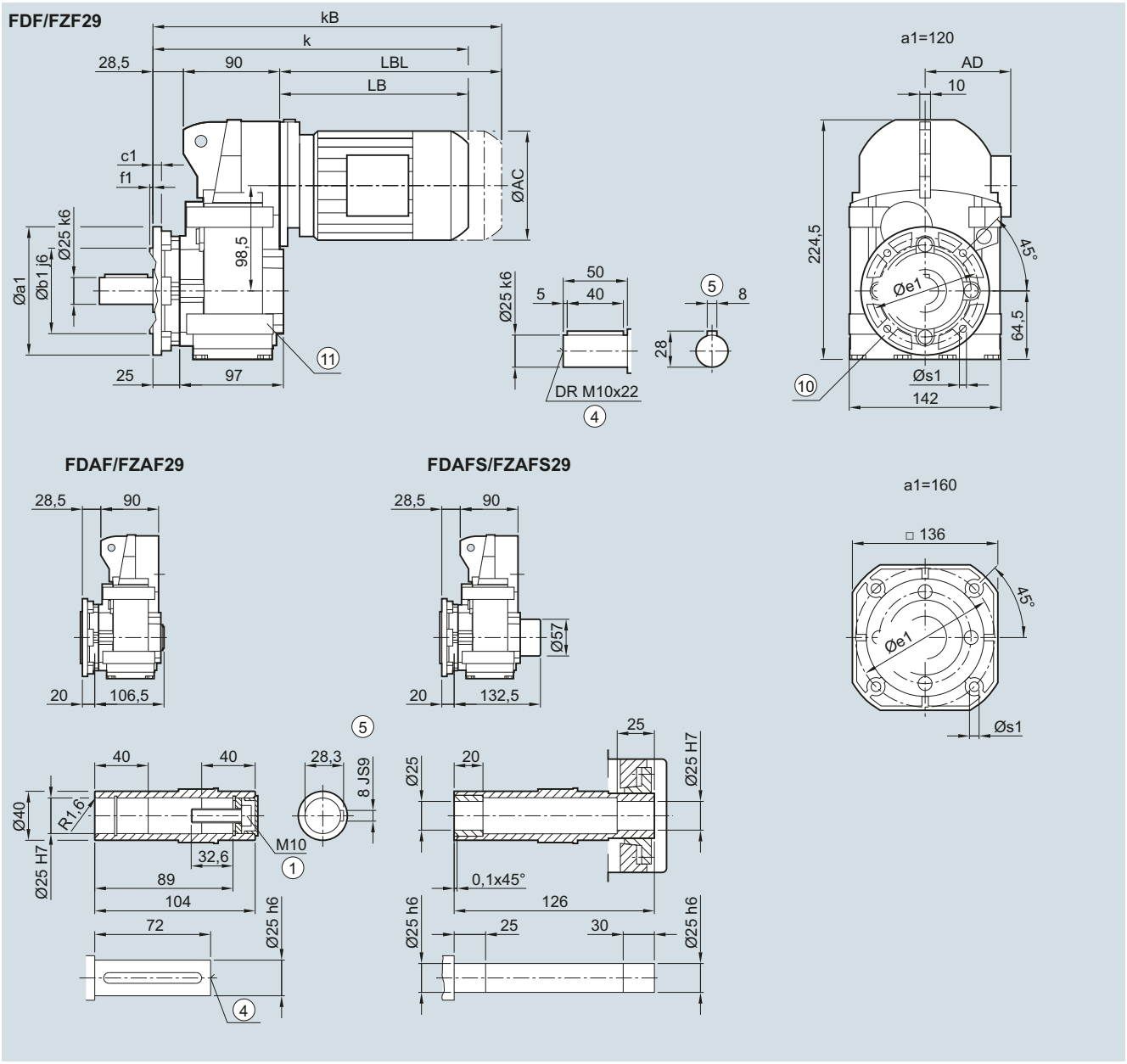
① ISO 4017 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.29 gearbox in a flange-mounted design

FF030, FAF030, FAFS030



Flange	a1	b1	c1	f1	e1	s1
	120	80	8	3.0	100	6.6
	160	110	9	3.5	130	9.0

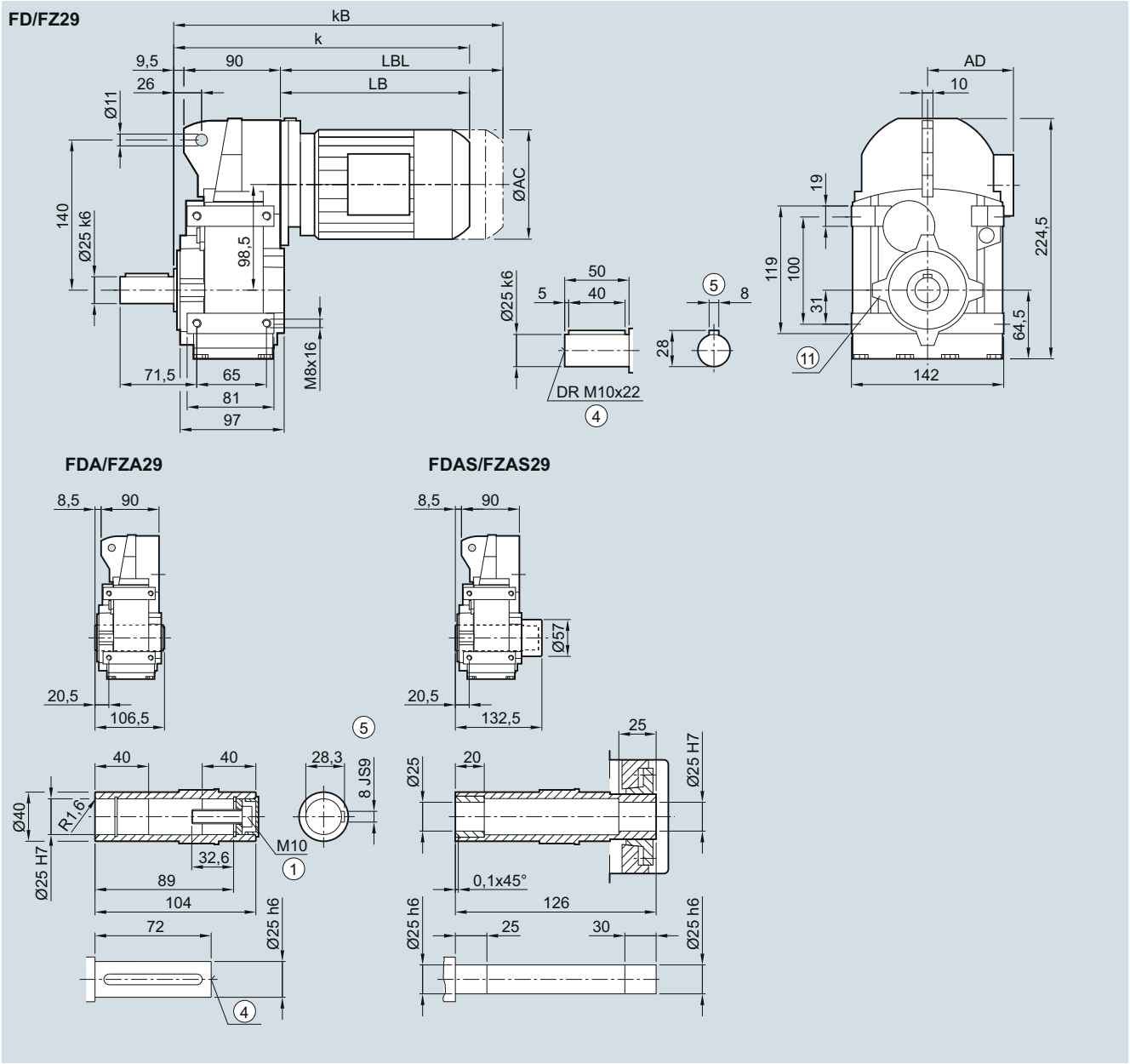
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	331.0	352.5	404.0	465.0	440.0	542.0
kB	376.0	407.5	464.0	535.0	510.0	620.5
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

① ISO 4017 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑩ For inner contour see page 4/202
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

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FD../FZ..29 gearbox in a foot-mounted design

F030, FA030, FAS030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	312.0	333.5	385.0	446.0	421.0	523.0
kB	357.0	388.5	445.0	516.0	491.0	601.5
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

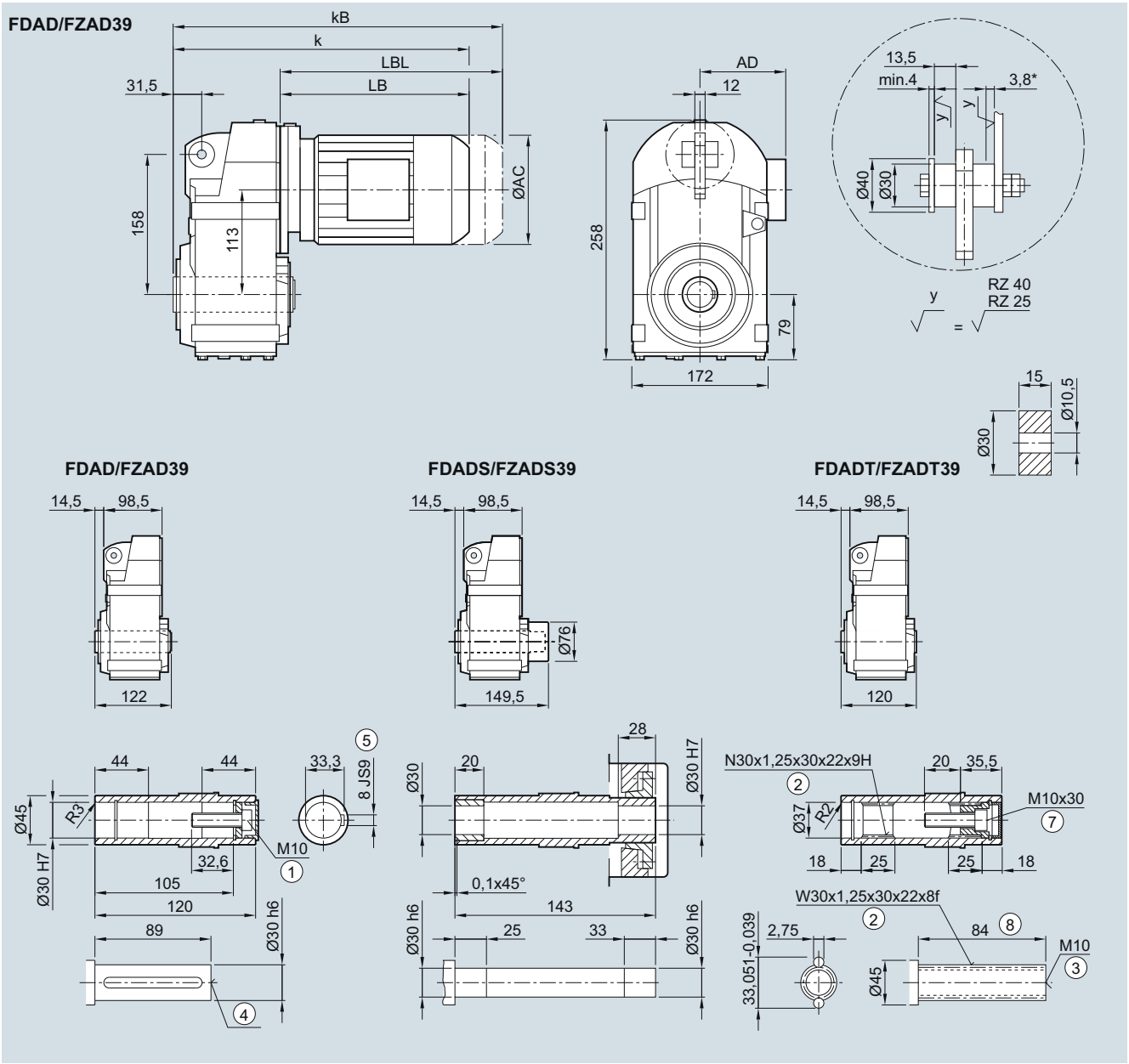
① ISO 4017 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FDAD./FZAD.39 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	325.5	347.0	398.5	459.5	434.5	536.5
kB	370.5	402.0	458.5	529.5	504.5	615.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

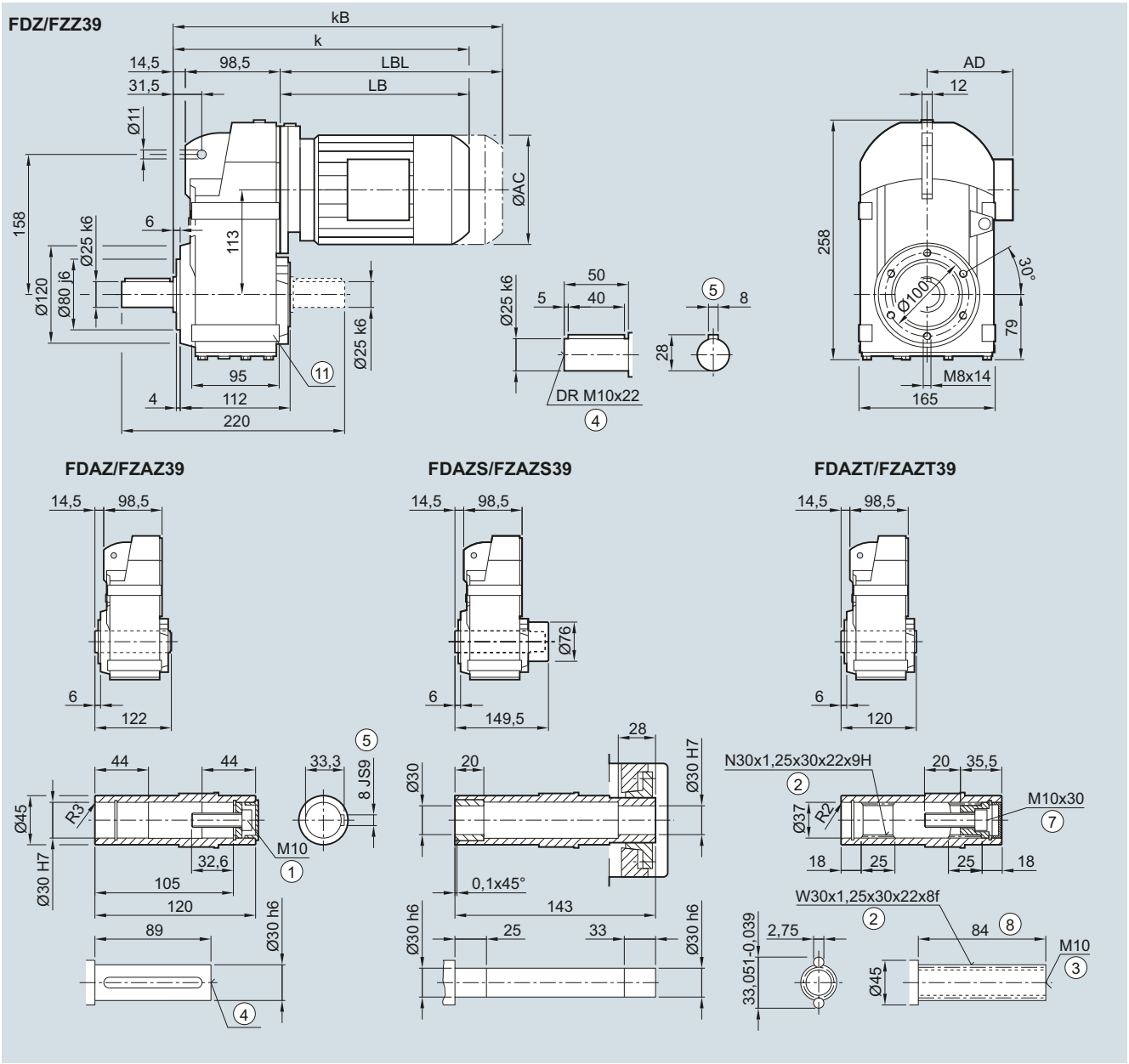
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

1) Dimensions for LHN(S3-75%), LEN(IE2) 2) AD depends on the motor options, for other dimensions see page 7/20. * Spring compression at max. torque

4

FD.Z./FZ.Z.39 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2]	110.0	120.0	145.5	155.5	155.5	175.5
k	325.5	347.0	398.5	459.5	434.5	536.5
kB	370.5	402.0	458.5	529.5	504.5	615.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

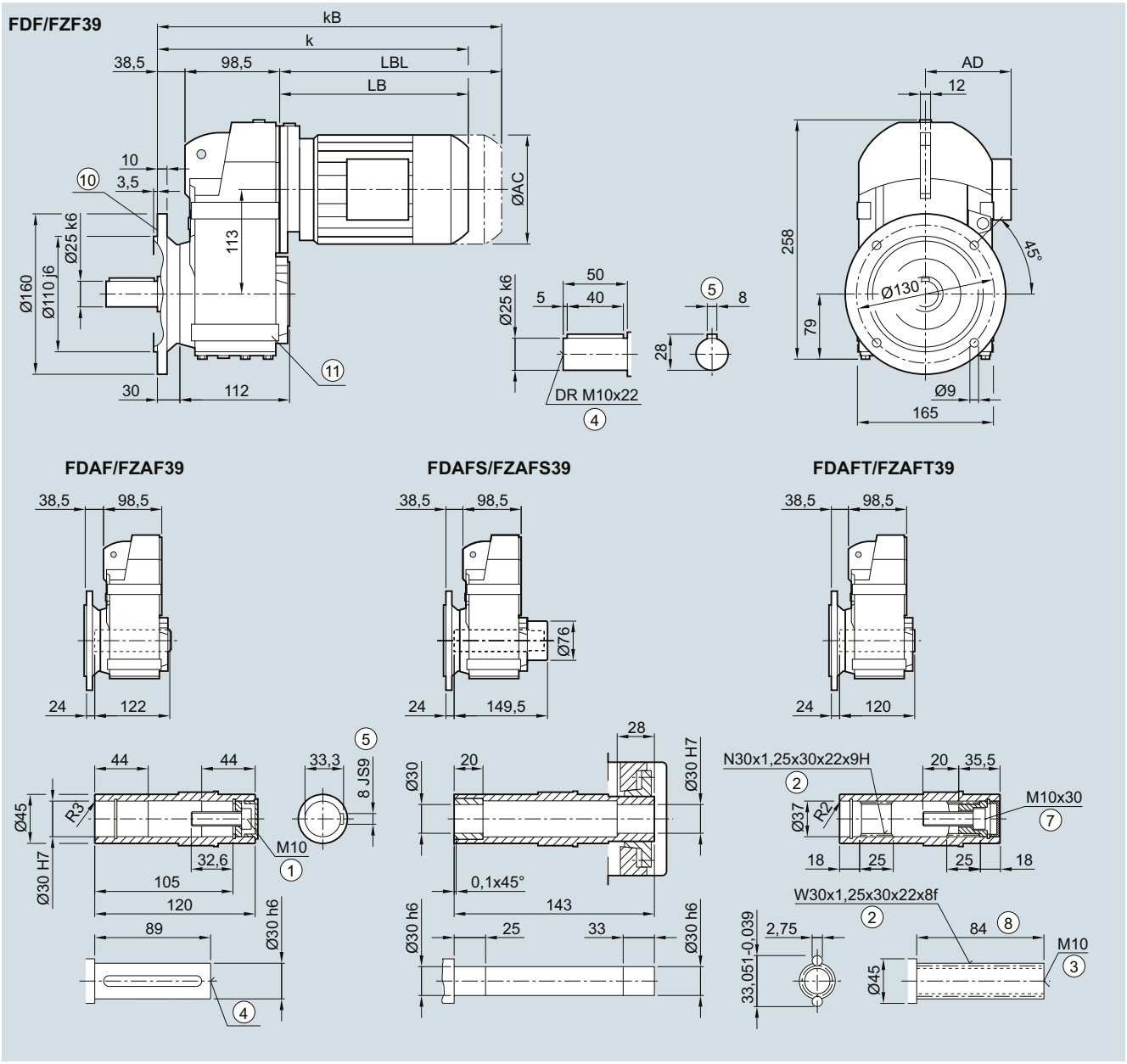
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.39 in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



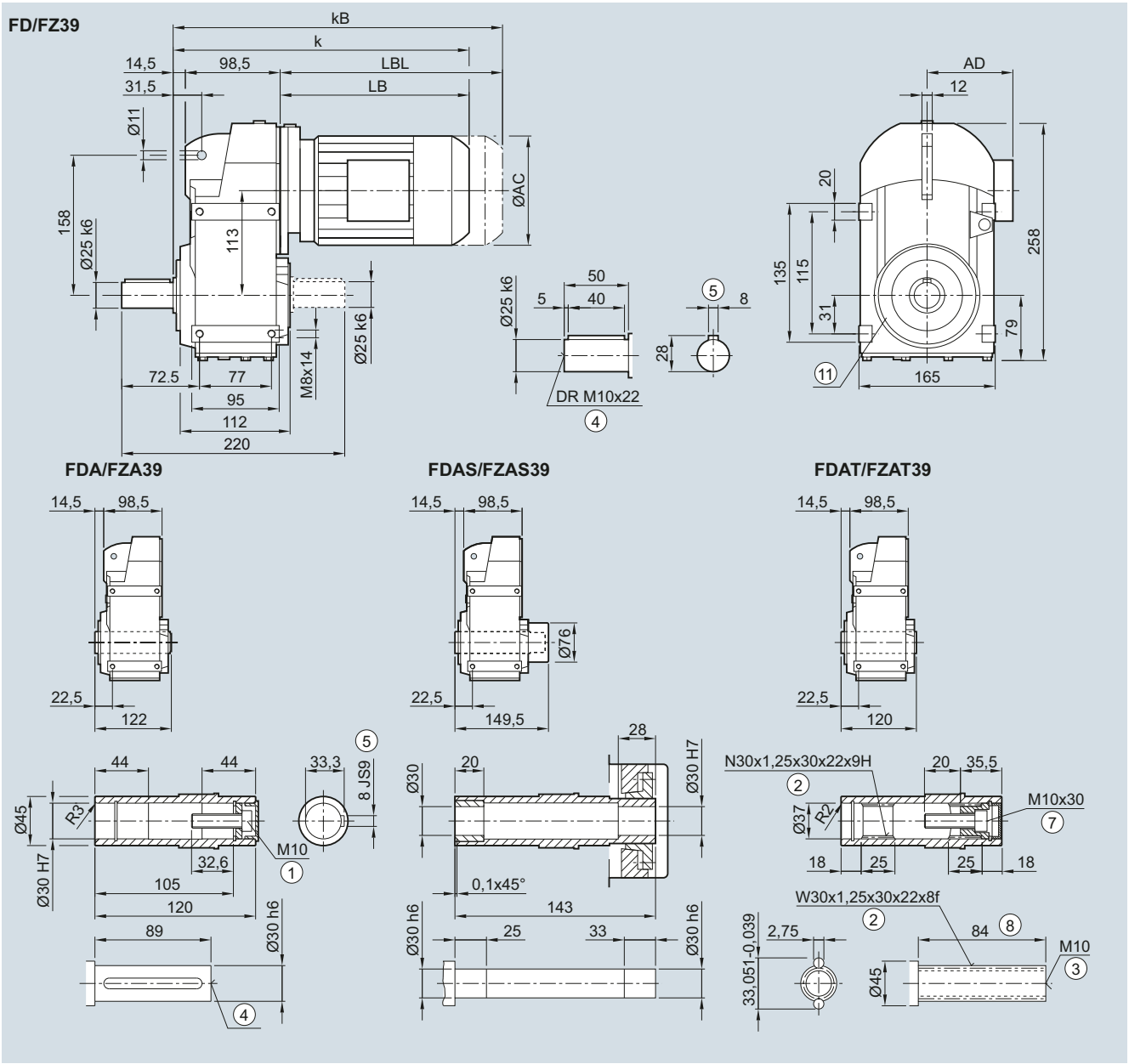
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	349.5	371.0	422.5	483.5	458.5	560.5	580.0
kB	394.5	426.0	482.5	553.5	528.5	639.0	653.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202 ⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD../FZ..39 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	325.5	347.0	398.5	459.5	434.5	536.5	556.0
kB	370.5	402.0	458.5	529.5	504.5	615.0	629.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

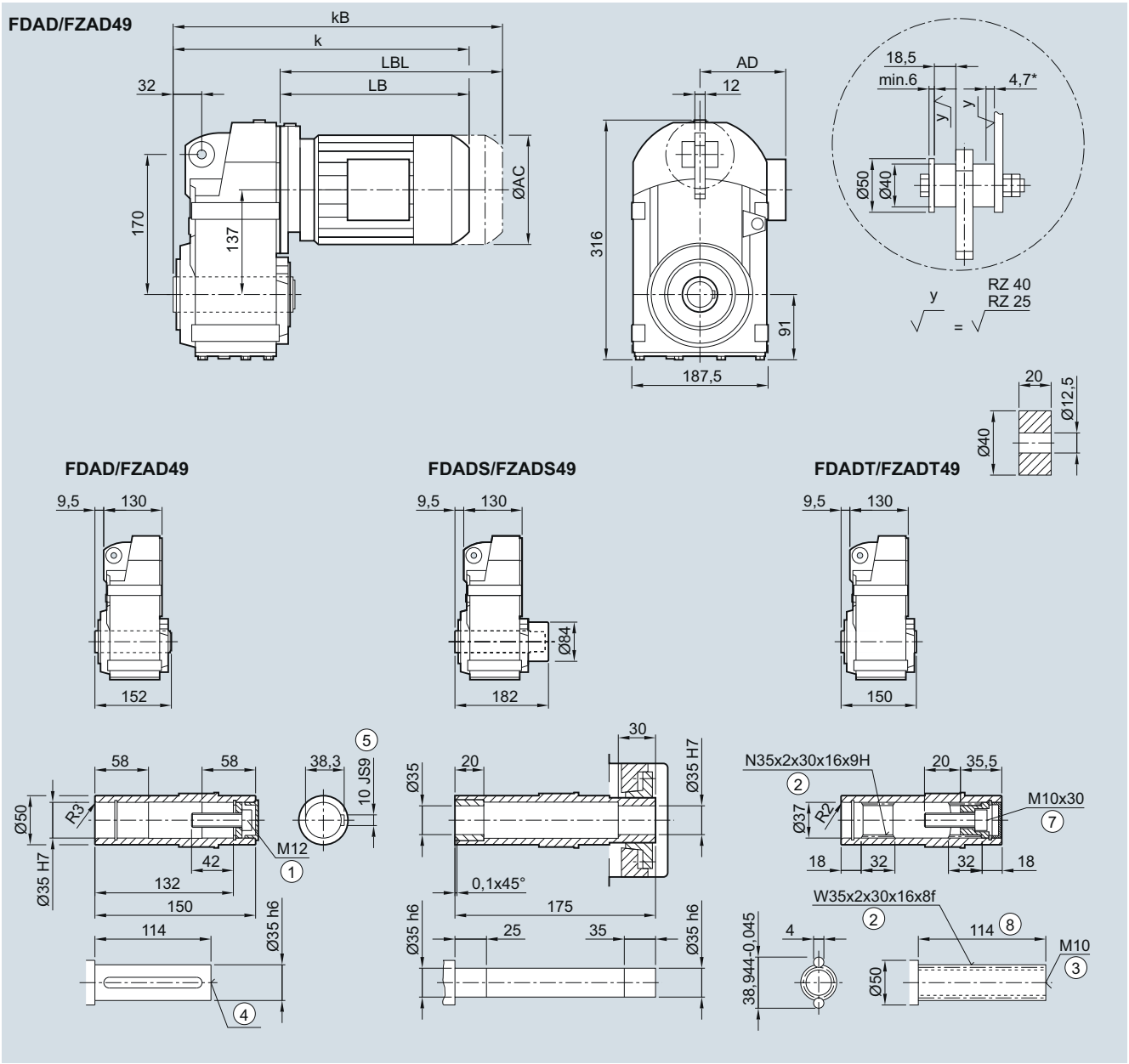
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FDAD./FZAD.49 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	342.5	364.0	415.5	476.5	451.5	553.5	573.0	617.0	662.0
kB	387.5	419.0	475.5	546.5	521.5	632.0	646.0	721.5	766.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

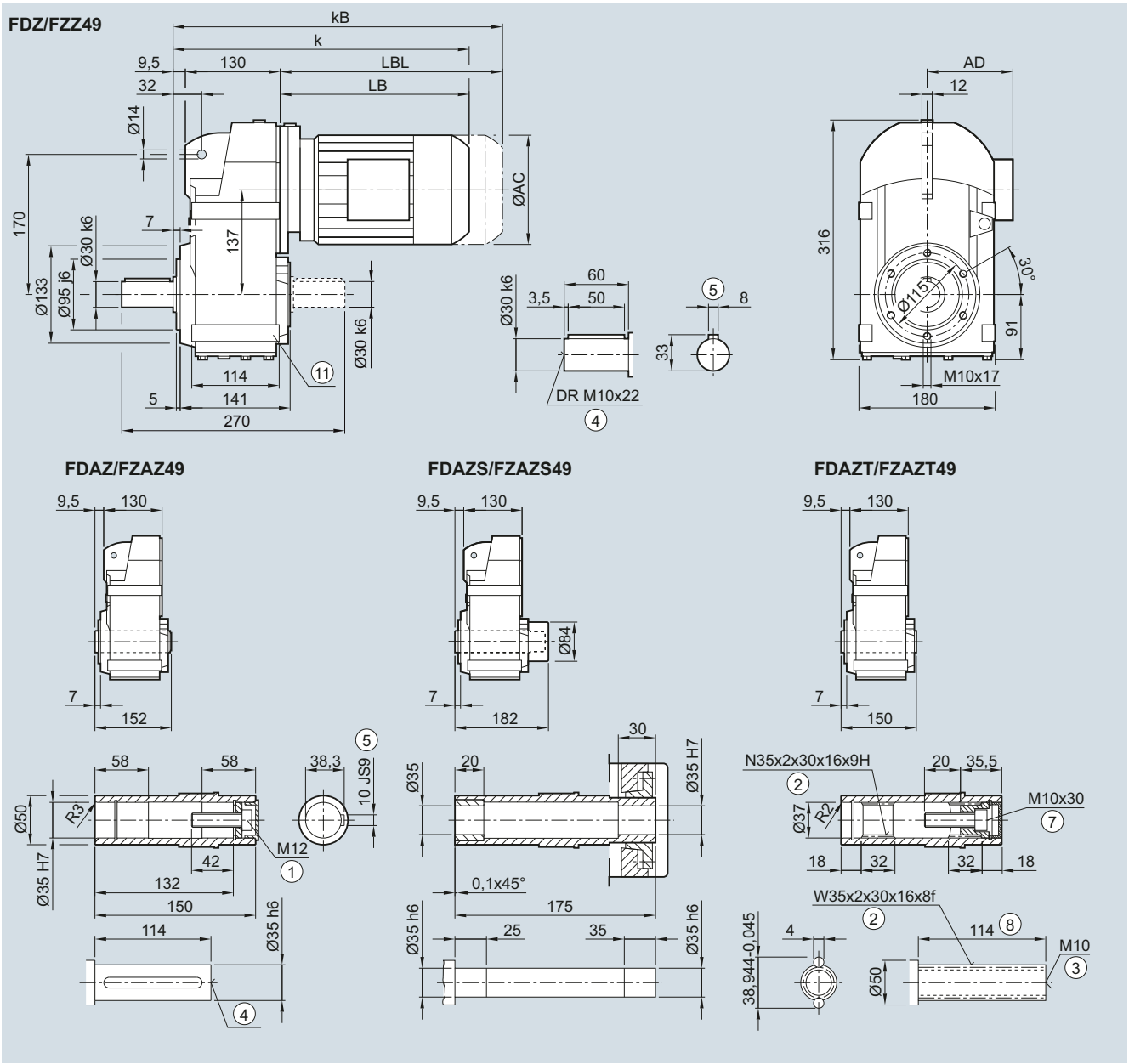
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

1) Dimensions for LHN(S3-75%), LEN(IE2) 2) AD depends on the motor options, for other dimensions see page 7/20. * Spring compression at max. torque

4

FD.Z./FZ.Z.49 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	342.5	364.0	415.5	476.5	451.5	553.5	573.0	617.0	662.0
kB	387.5	419.0	475.5	546.5	521.5	632.0	646.0	721.5	766.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

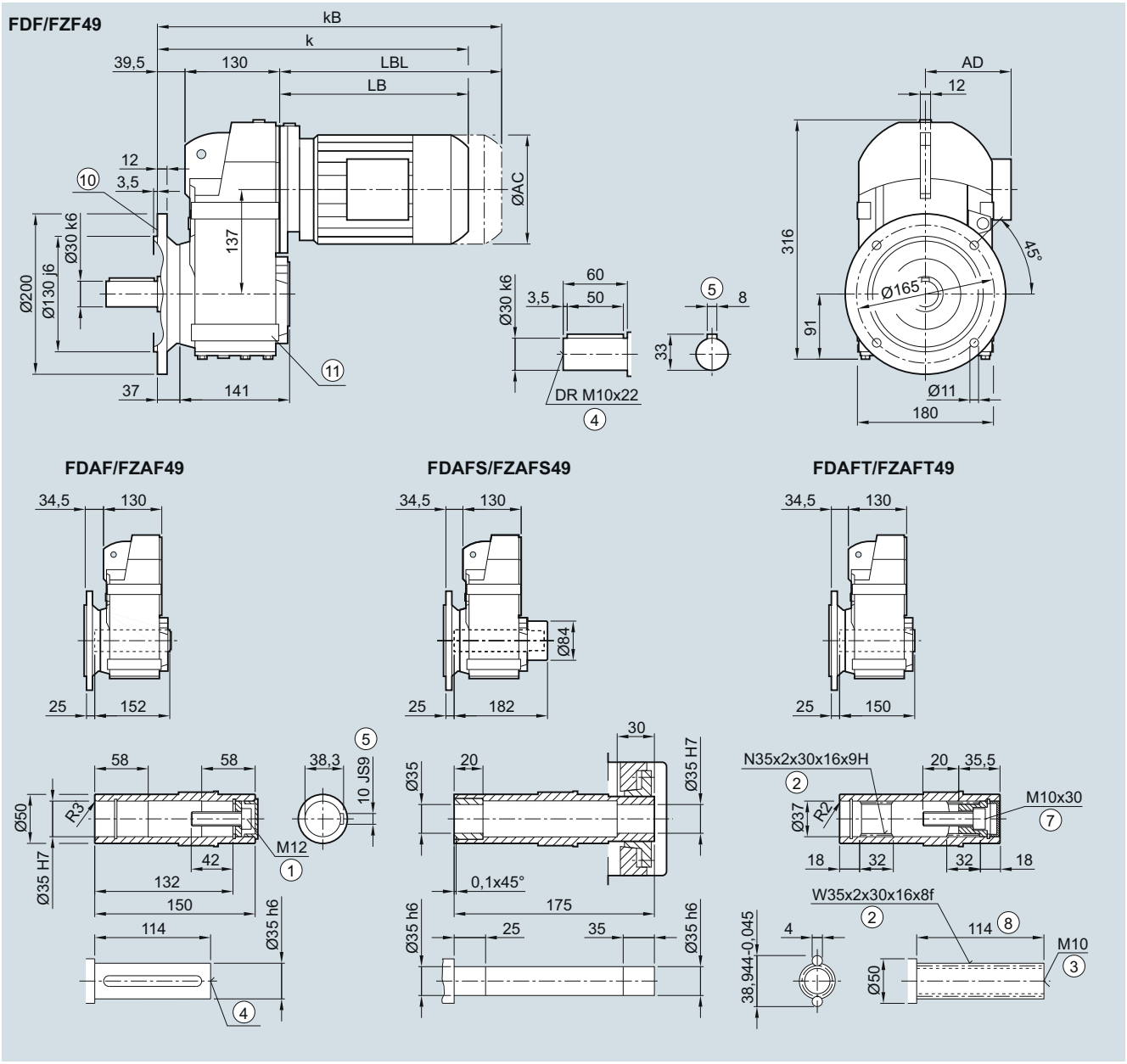
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.49 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	372.5	394.0	445.5	506.5	481.5	583.5	603.0	647.0	692.0
kB	417.5	449.0	505.5	576.5	551.5	662.0	676.0	751.5	796.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202 ⑪ Use bores only for foot-mounted design

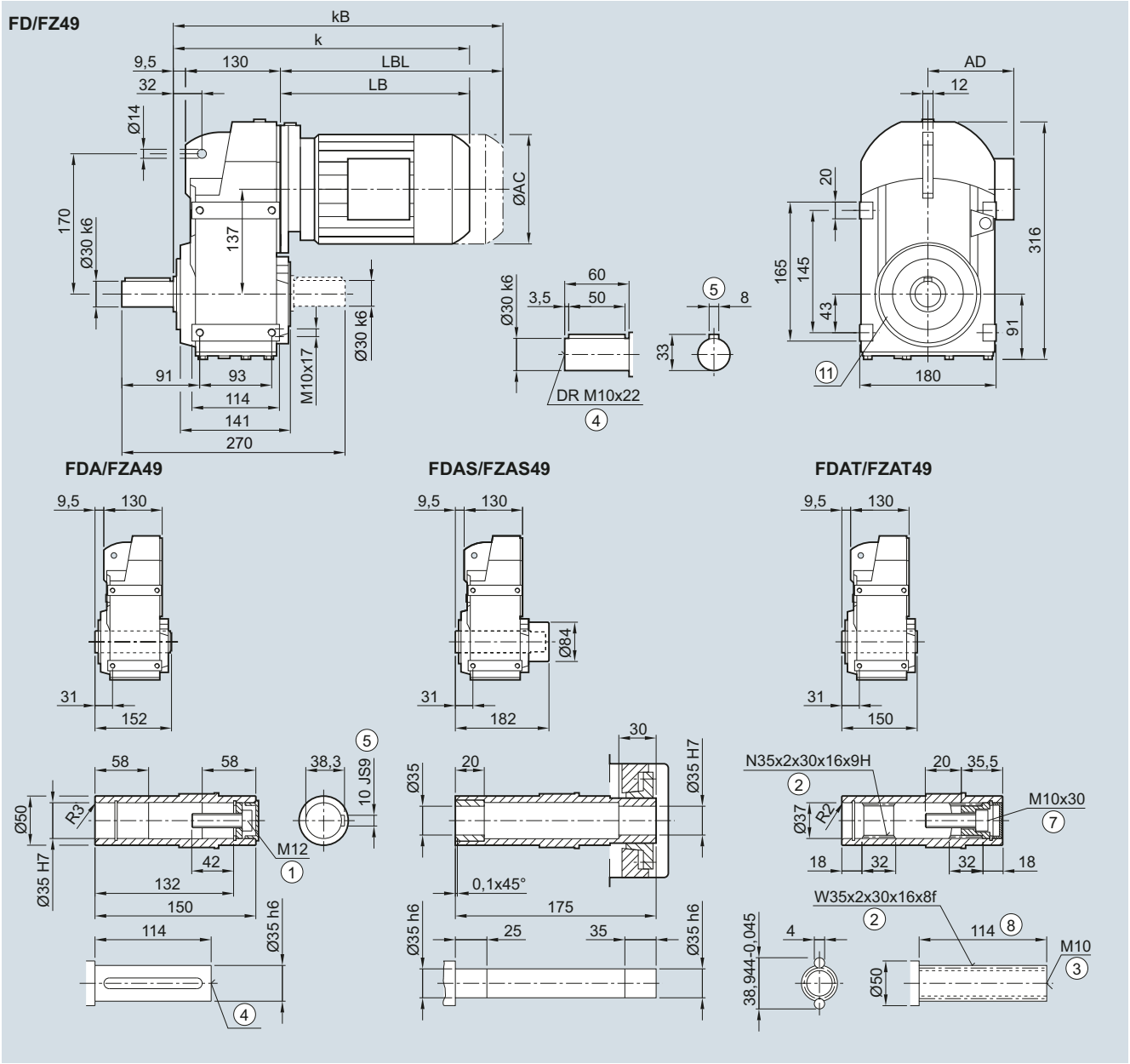
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD../FZ..49 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	342.5	364.0	415.5	476.5	451.5	553.5	573.0	617.0	662.0
kB	387.5	419.0	475.5	546.5	521.5	632.0	646.0	721.5	766.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

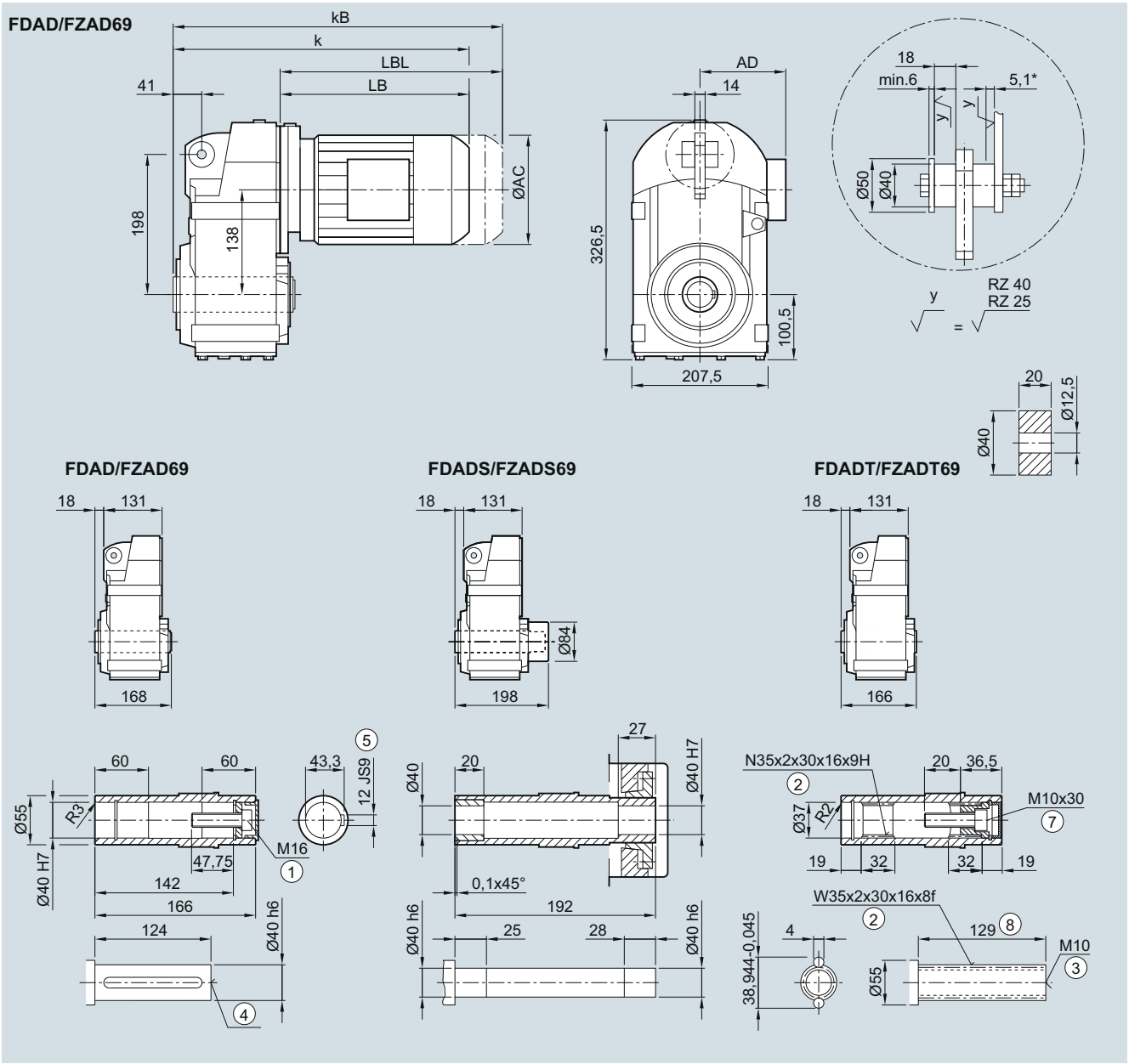
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FDAD./FZAD.69 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	352.0	373.5	425.0	486.0	461.0	563.0	582.5	626.5	671.5
kB	397.0	428.5	485.0	556.0	531.0	641.5	655.5	731.0	776.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

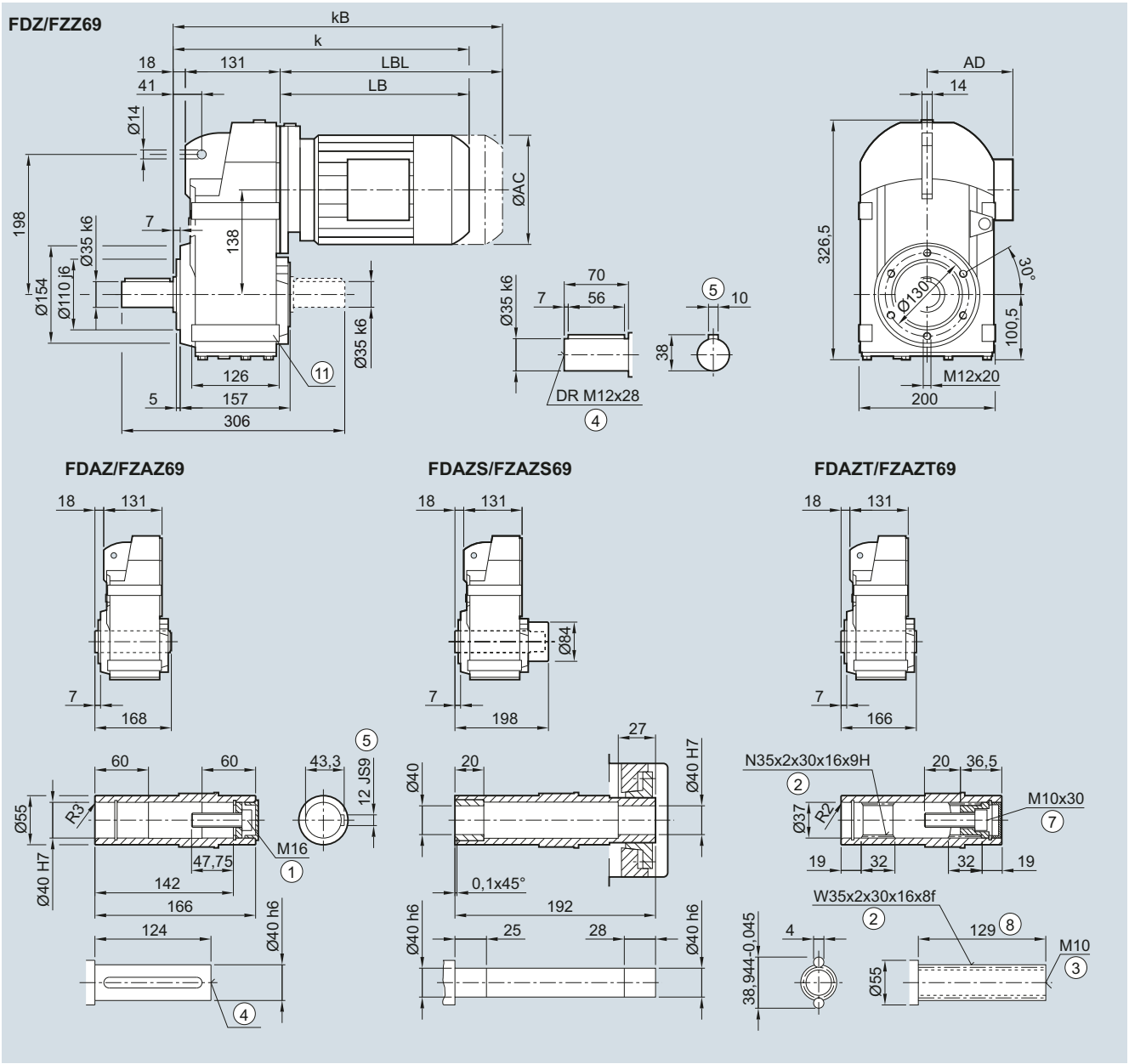
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

1) Dimensions for LHN(S3-75%), LEN(IE2) 2) AD depends on the motor options, for other dimensions see page 7/20. * Spring compression at max. torque

4

FD.Z./FZ.Z.69 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	352.0	373.5	425.0	486.0	461.0	563.0	582.5	626.5	671.5
kB	397.0	428.5	485.0	556.0	531.0	641.5	655.5	731.0	776.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

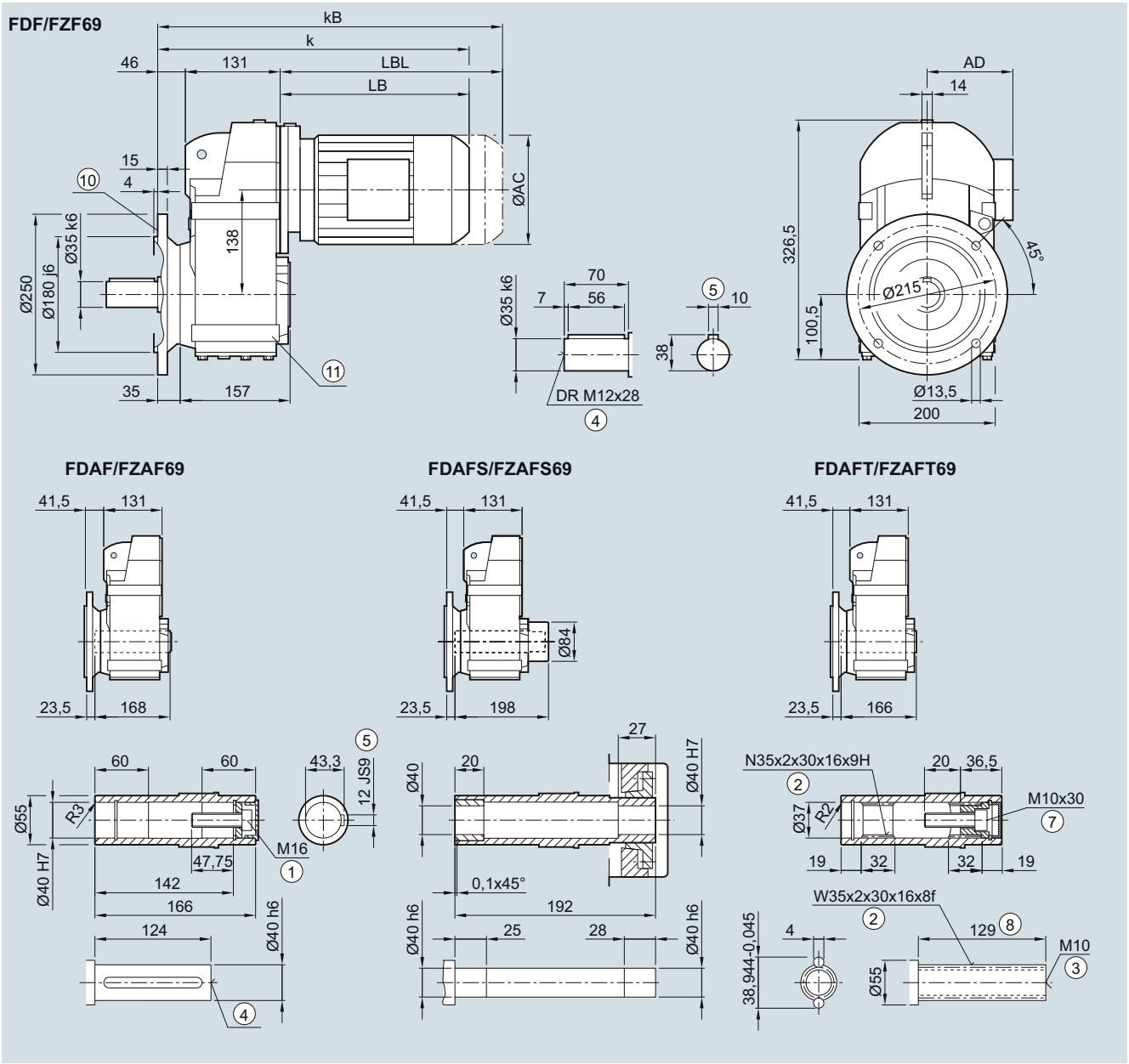
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.69 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	380.0	401.5	453.0	514.0	489.0	591.0	610.5	654.5	699.5
kB	425.0	456.5	513.0	584.0	559.0	669.5	683.5	759.0	804.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202 ⑪ Use bores only for foot-mounted design

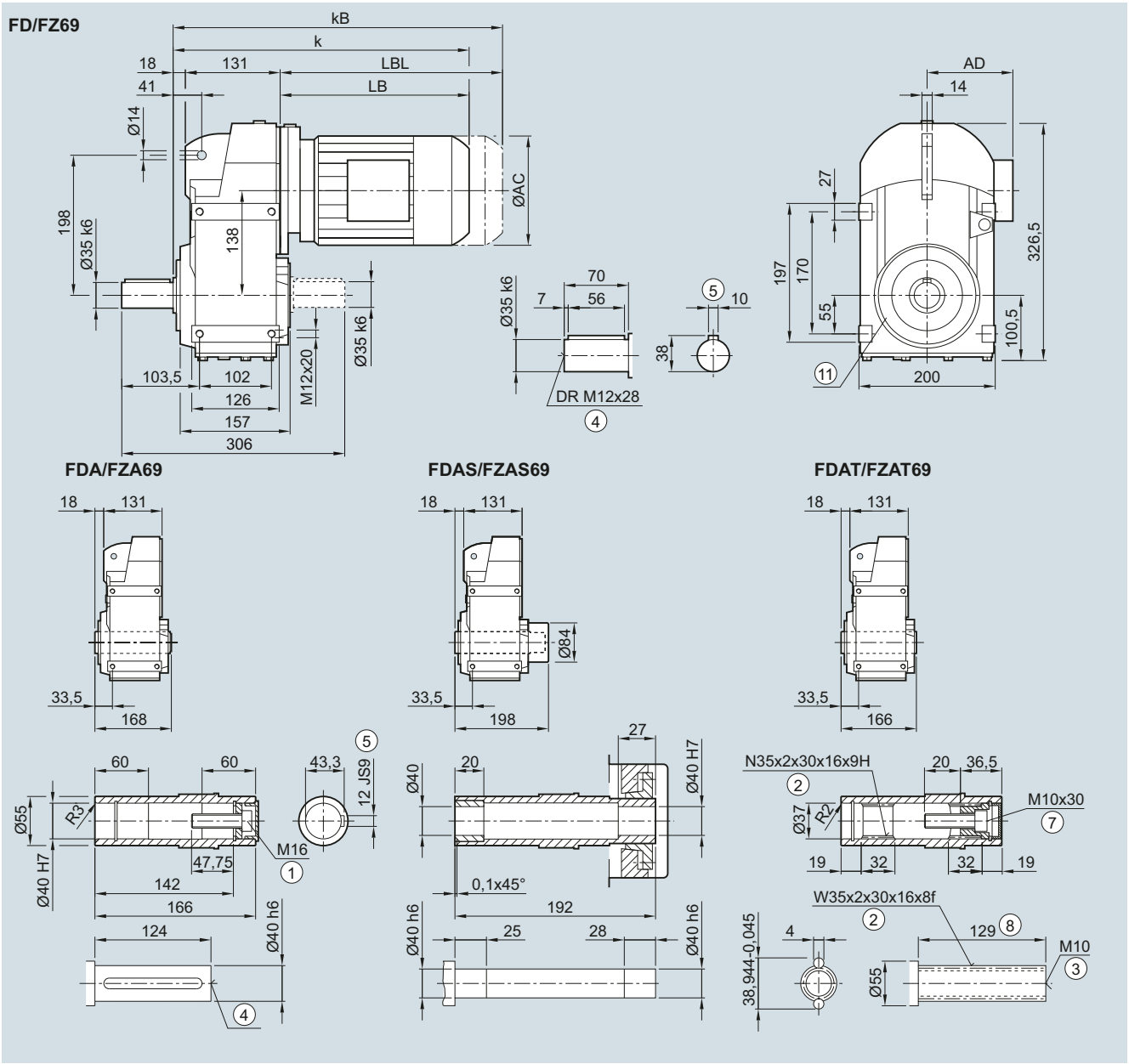
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD../FZ..69 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



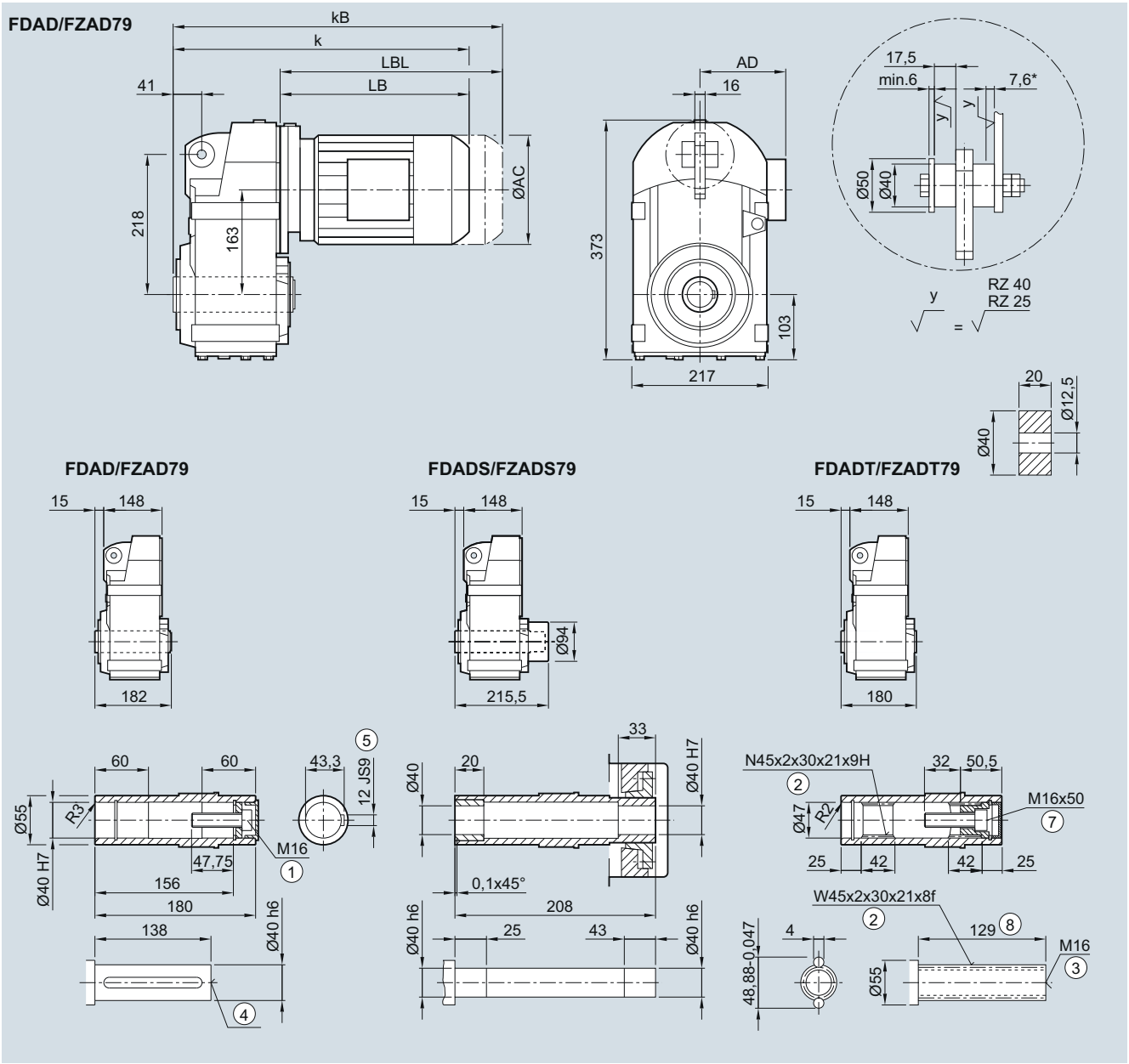
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	352.0	373.5	425.0	486.0	461.0	563.0	582.5	626.5	671.5
kB	397.0	428.5	485.0	556.0	531.0	641.5	655.5	731.0	776.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

4

FDAD./FZAD.79 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



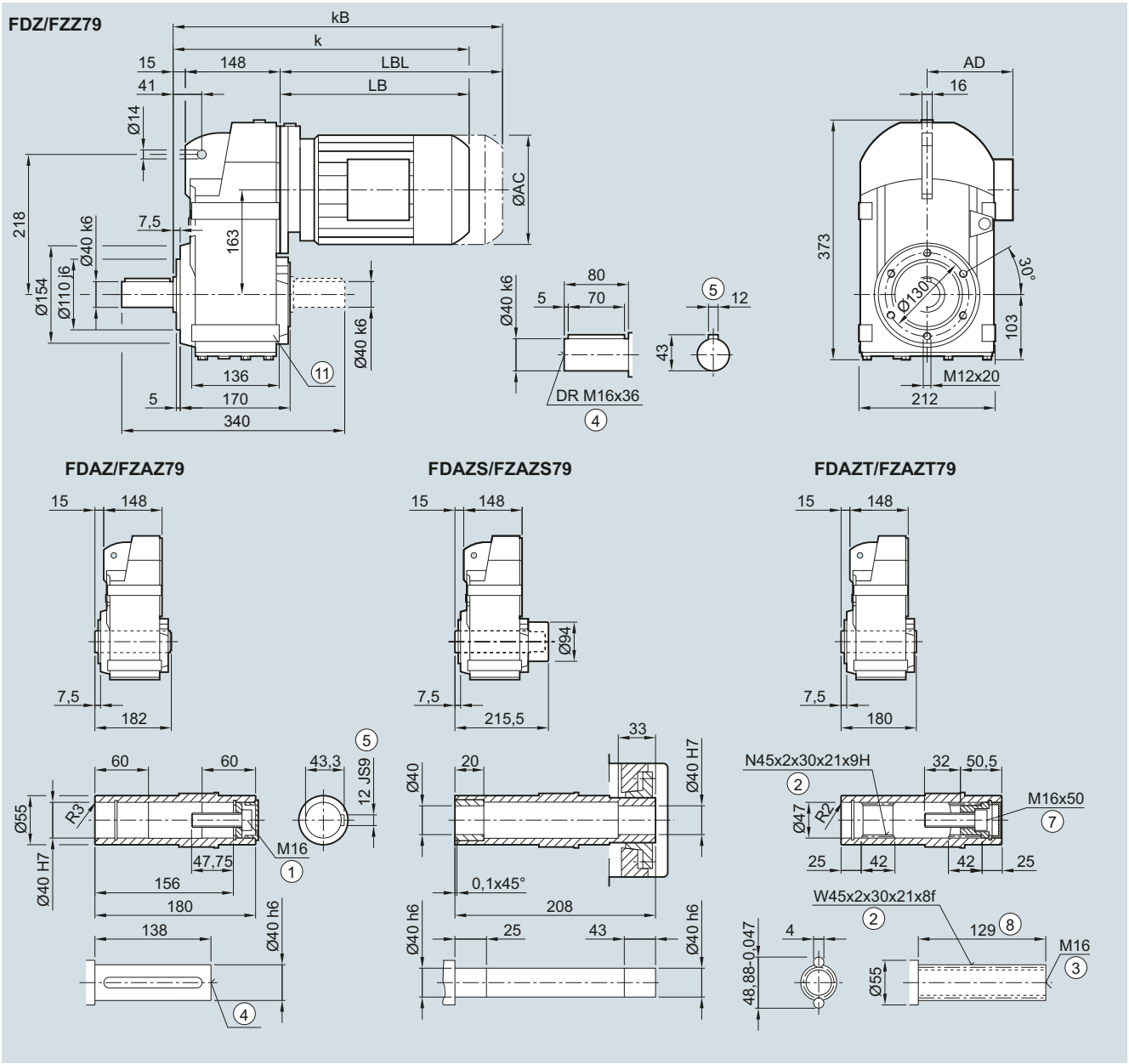
Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	385.5	433.0	494.0	469.0	571.0	590.5	634.5	679.5	719.5	779.5
kB	440.5	493.0	564.0	539.0	649.5	663.5	739.0	784.0	835.5	895.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
1) Dimensions for LHN(S3-75%), LEN(IE2) 2) AD depends on the motor options, for other dimensions see page 7/20. * Spring compression at max. torque

4

FD.Z./FZ.Z.79 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	385.5	433.0	494.0	469.0	571.0	590.5	634.5	679.5	719.5	779.5
kB	440.5	493.0	564.0	539.0	649.5	663.5	739.0	784.0	835.5	895.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

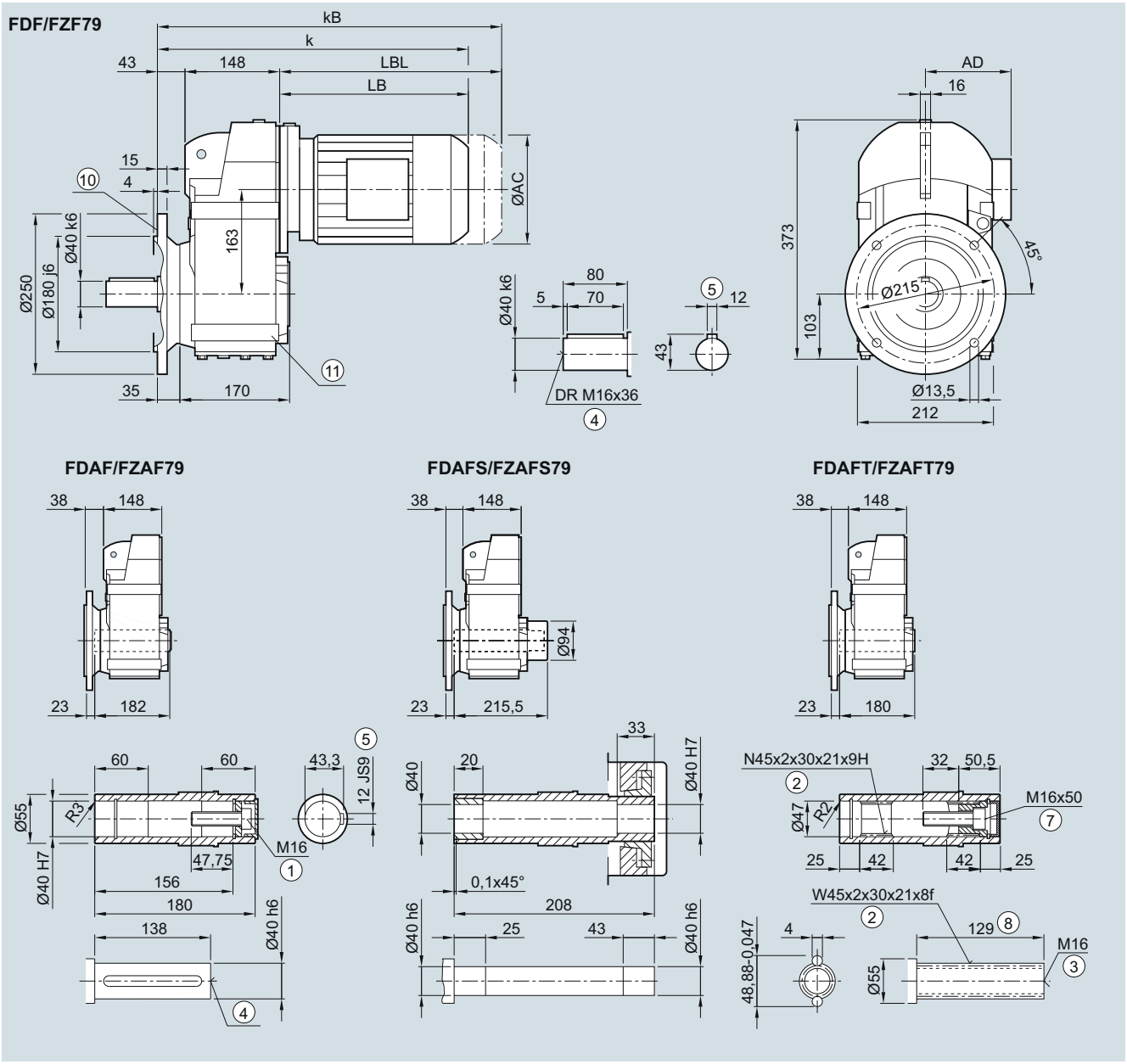
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.79 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



Motor[1]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	413.5	461.0	522.0	497.0	599.0	618.5	662.5	707.5	747.5	807.5
kB	468.5	521.0	592.0	567.0	677.5	691.5	767.0	812.0	863.5	923.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202 ⑪ Use bores only for foot-mounted design

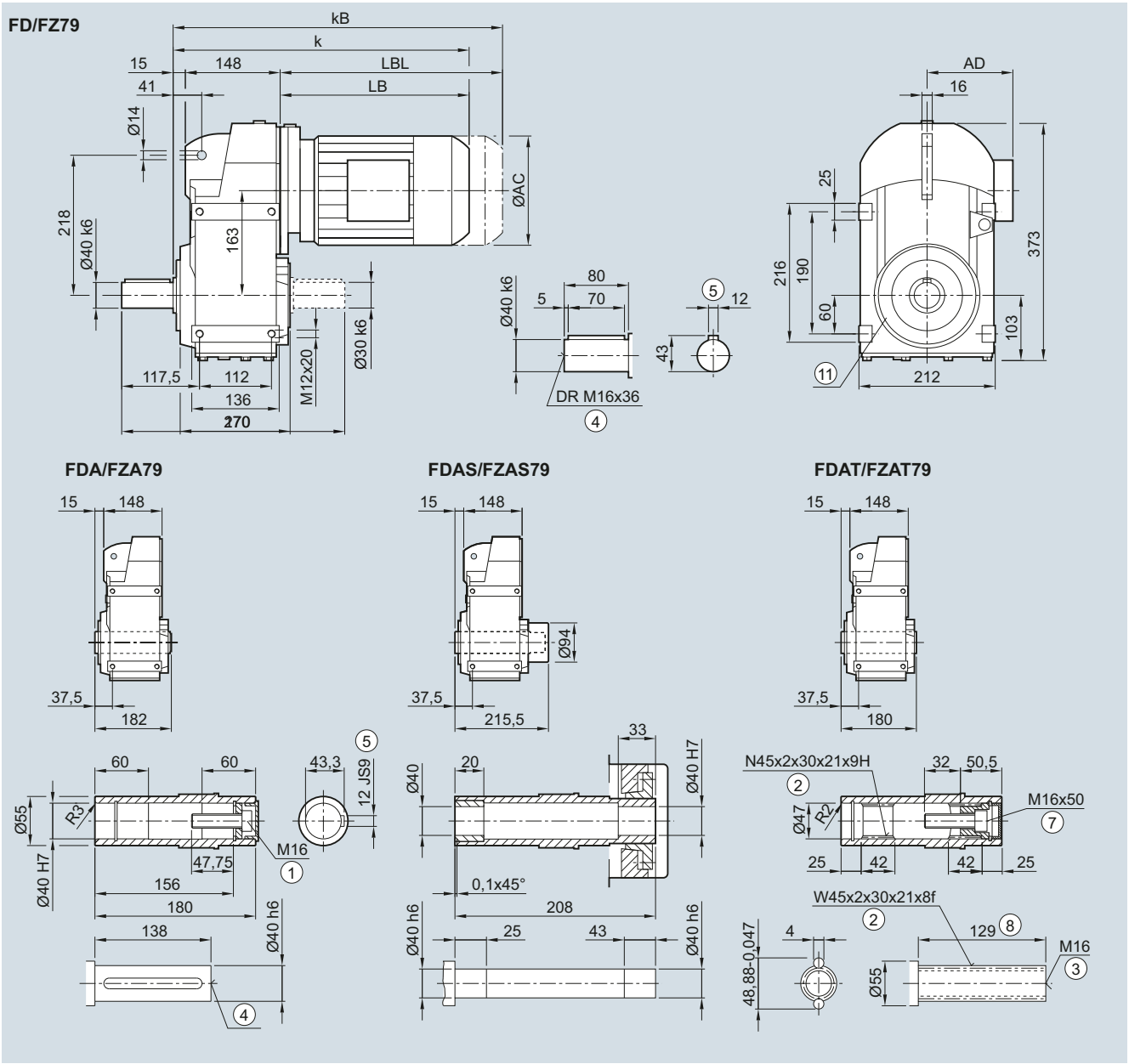
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD../FZ..79 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	385.5	433.0	494.0	469.0	571.0	590.5	634.5	679.5	719.5	779.5
kB	440.5	493.0	564.0	539.0	649.5	663.5	739.0	784.0	835.5	895.5
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

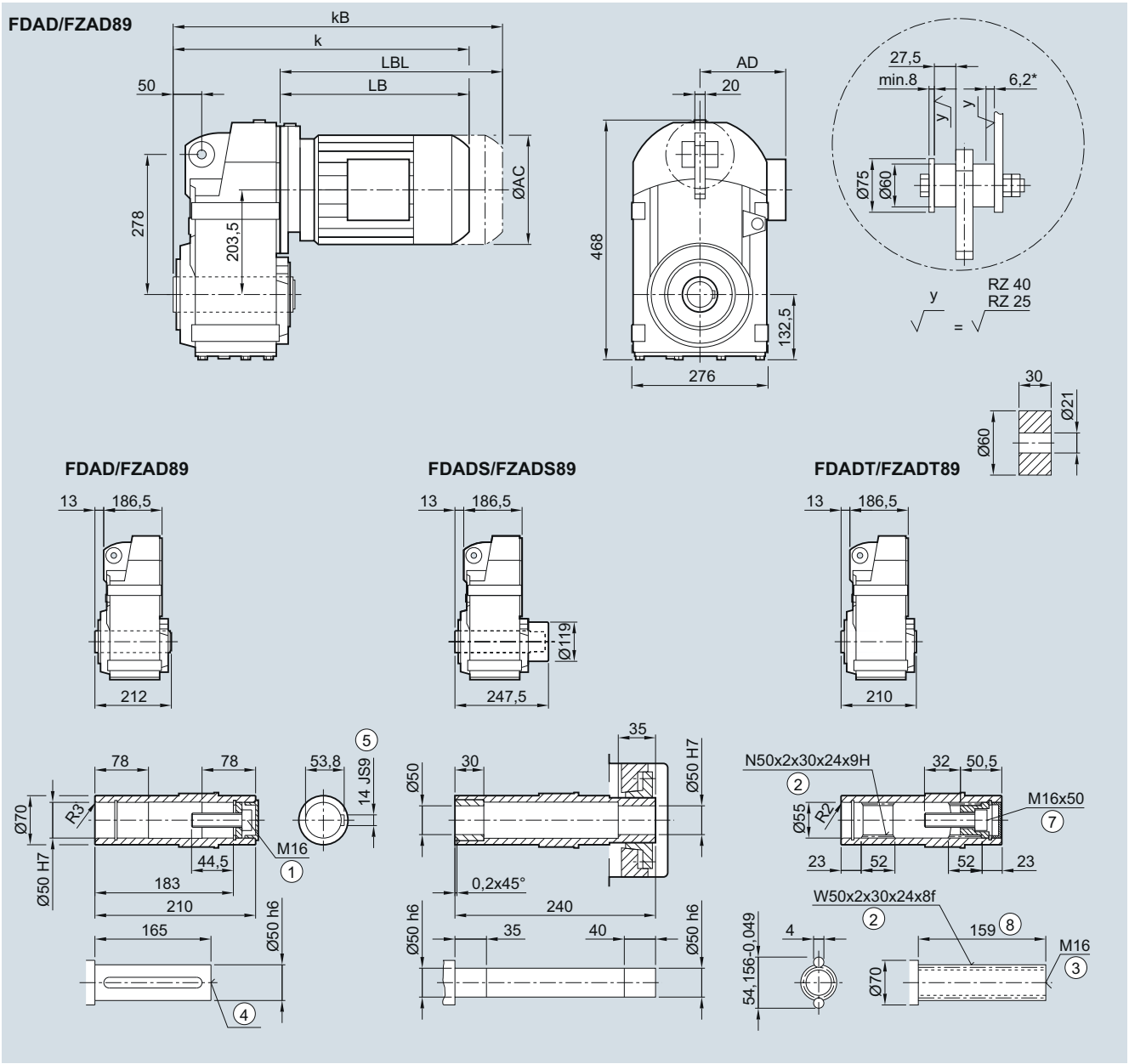
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FDAD./FZAD.89 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



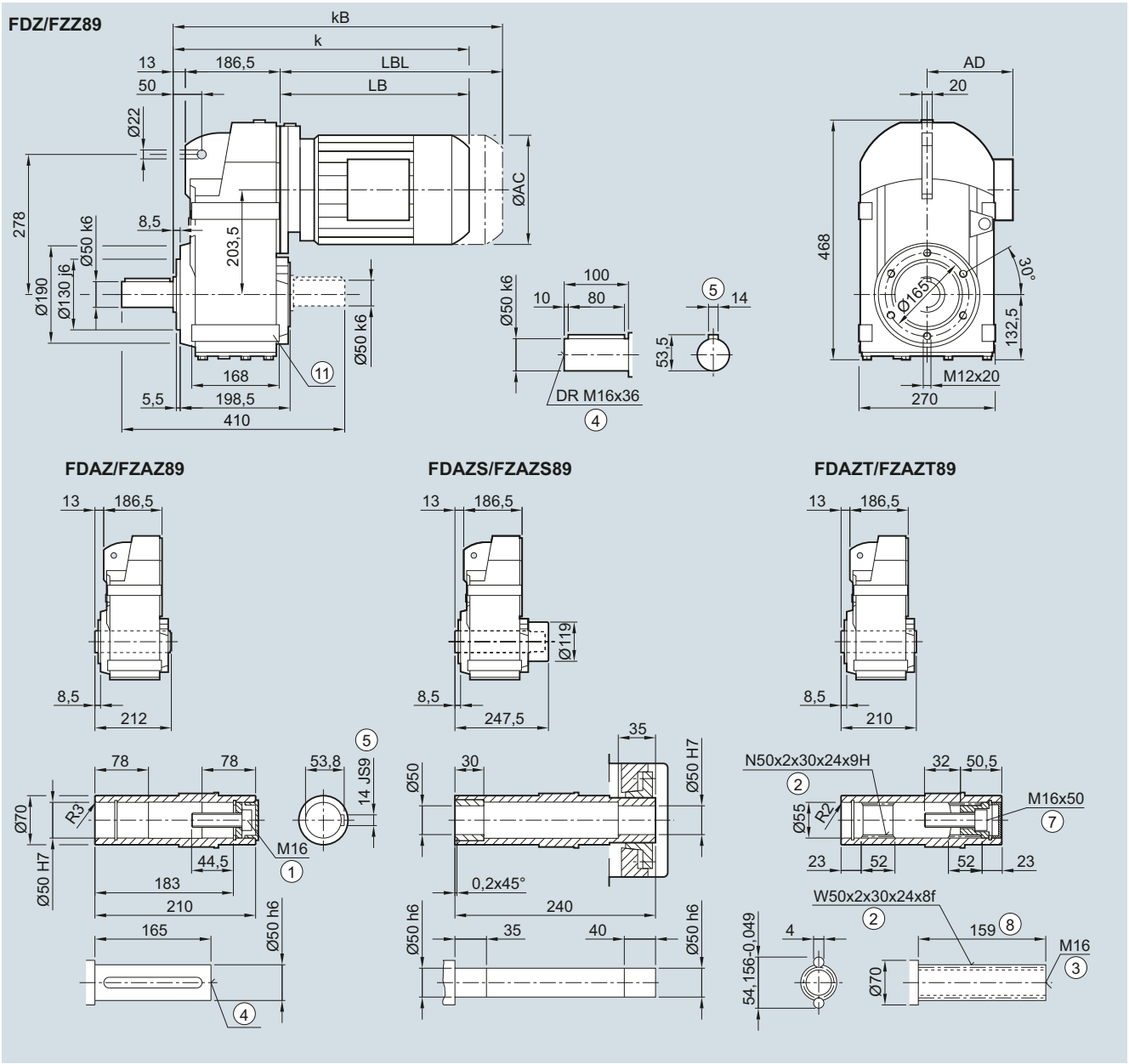
Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	456.5	517.5	492.5	590.5	610.0	654.0	699.0	739.0	799.0	818.5	848.5
kB	516.5	587.5	562.5	669.0	683.0	758.5	803.5	855.0	915.0	947.5	977.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
1) Dimensions for LHN(S3-75%), LEN(IE2) 2) AD depends on the motor options, for other dimensions see page 7/20. * Spring compression at max. torque

4

FD.Z./FZ.Z.89 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	456.5	517.5	492.5	590.5	610.0	654.0	699.0	739.0	799.0	818.5	848.5
kB	516.5	587.5	562.5	669.0	683.0	758.5	803.5	855.0	915.0	947.5	977.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

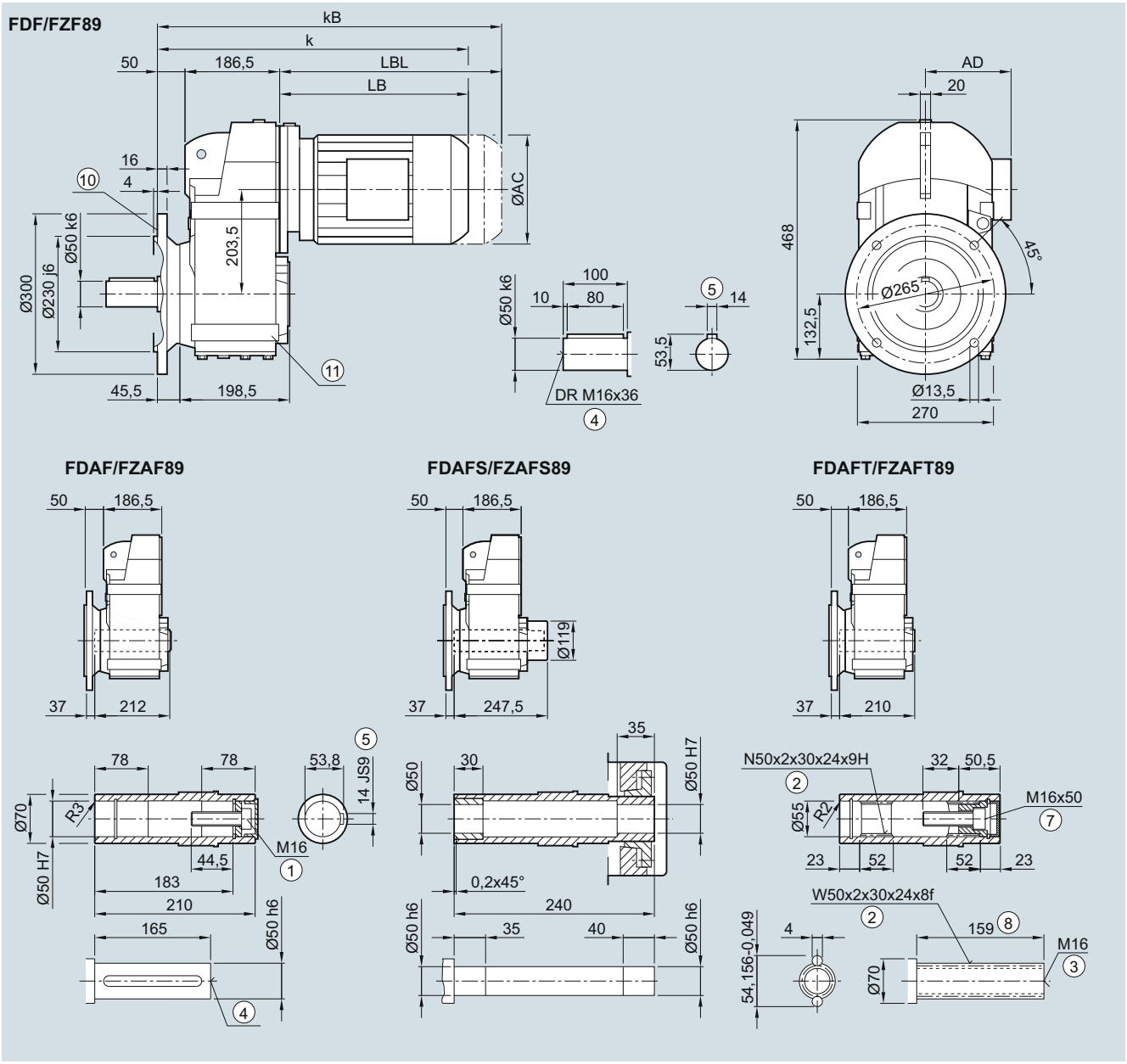
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.89 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	493.5	554.5	529.5	627.5	647.0	691.0	736.0	776.0	836.0	855.5	885.5
kB	553.5	624.5	599.5	706.0	720.0	795.5	840.5	892.0	952.0	984.5	1 014.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202 ⑪ Use bores only for foot-mounted design

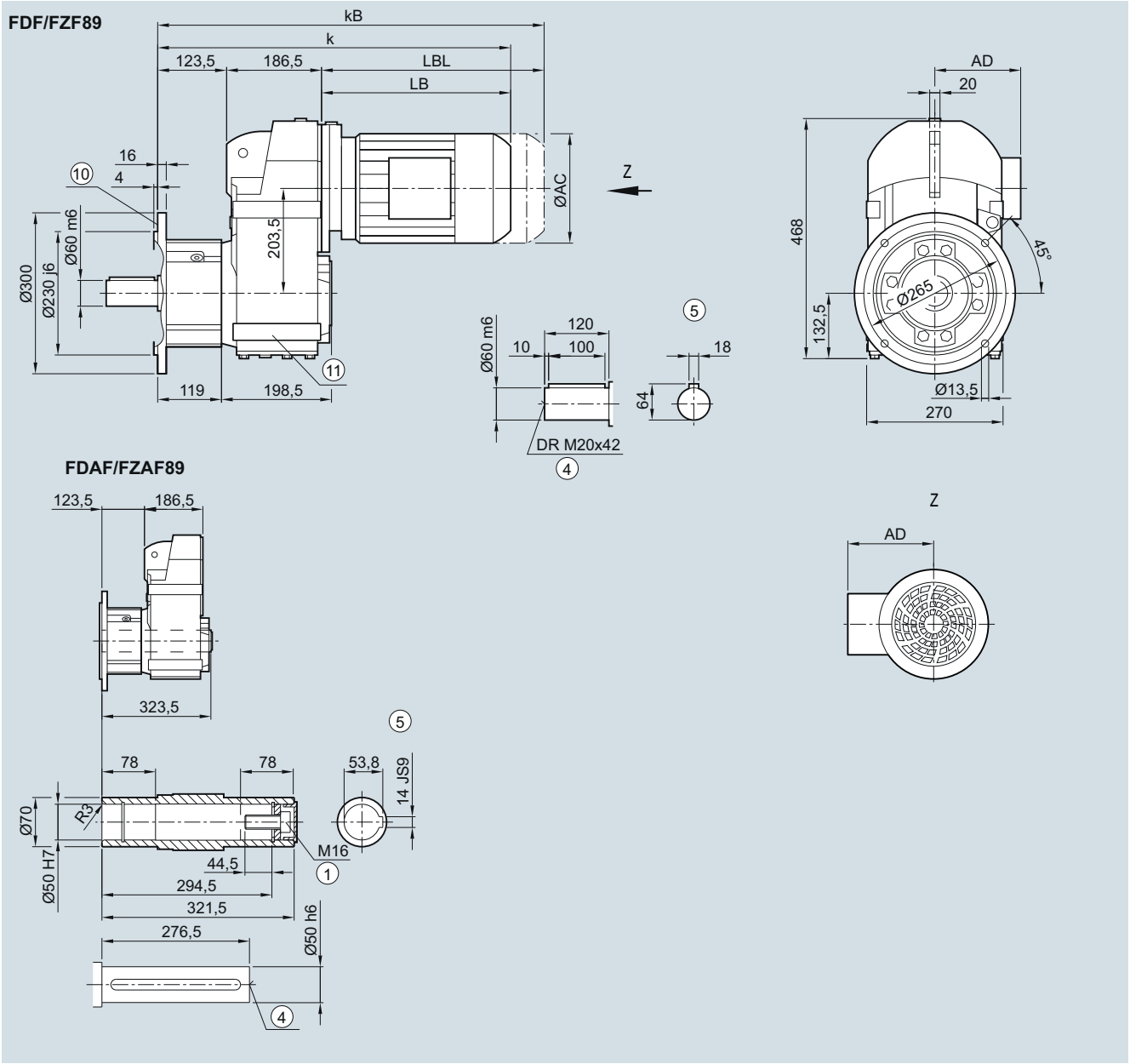
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD.F./FZ.F.89 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

FF040, FAF040



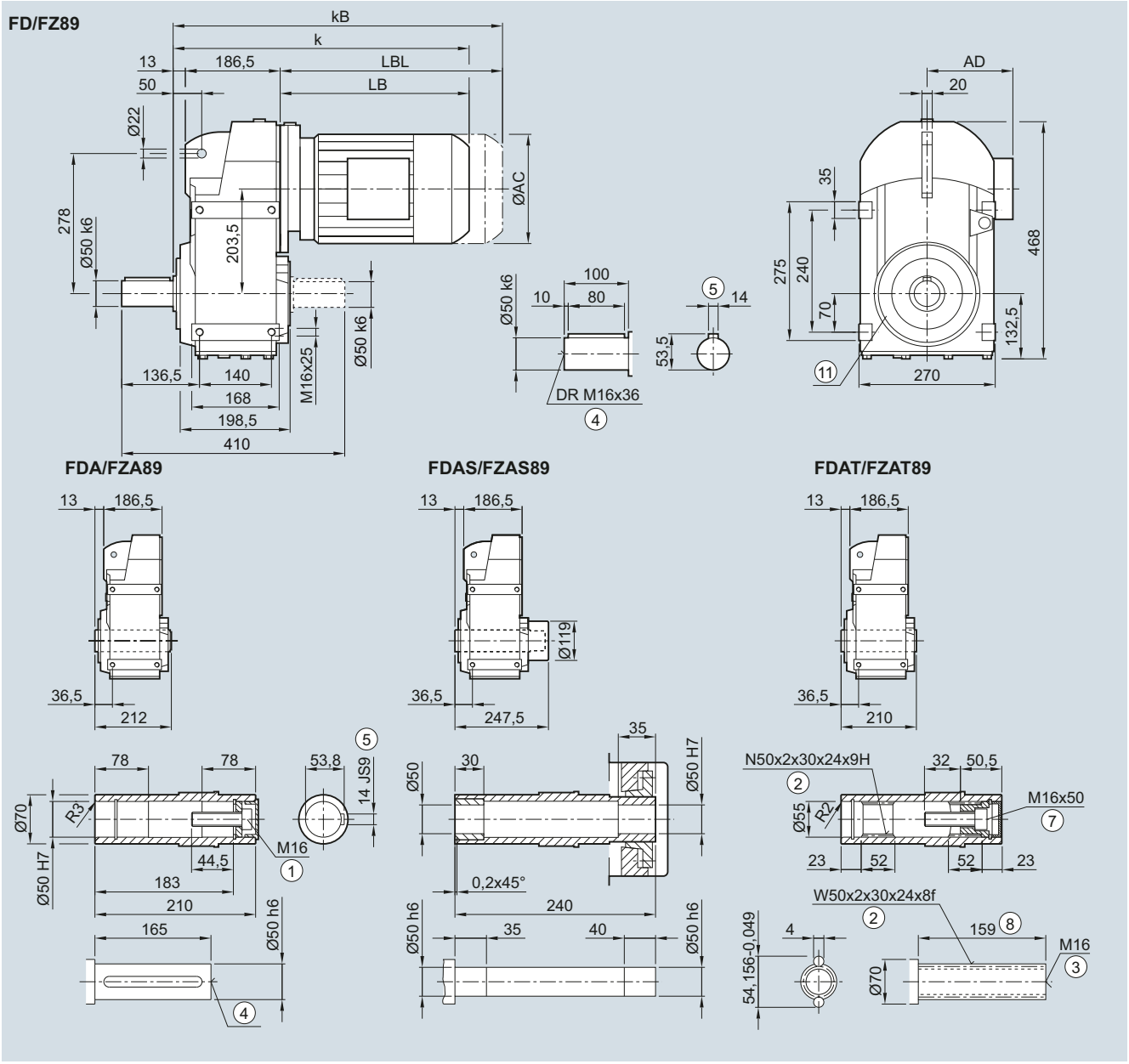
Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	567.0	628.0	603.0	701.0	720.5	764.5	809.5	849.5	909.5	929.0	959.0
kB	627.0	698.0	673.0	779.5	793.5	869.0	914.0	965.5	1 025.5	1 058.0	1 088.0
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design
⑩ For inner contour see page 4/202
1) AD depends on the motor options, for other dimensions see page 7/20.
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD../FZ..89 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	456.5	517.5	492.5	590.5	610.0	654.0	699.0	739.0	799.0	818.5	848.5
kB	516.5	587.5	562.5	669.0	683.0	758.5	803.5	855.0	915.0	947.5	977.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

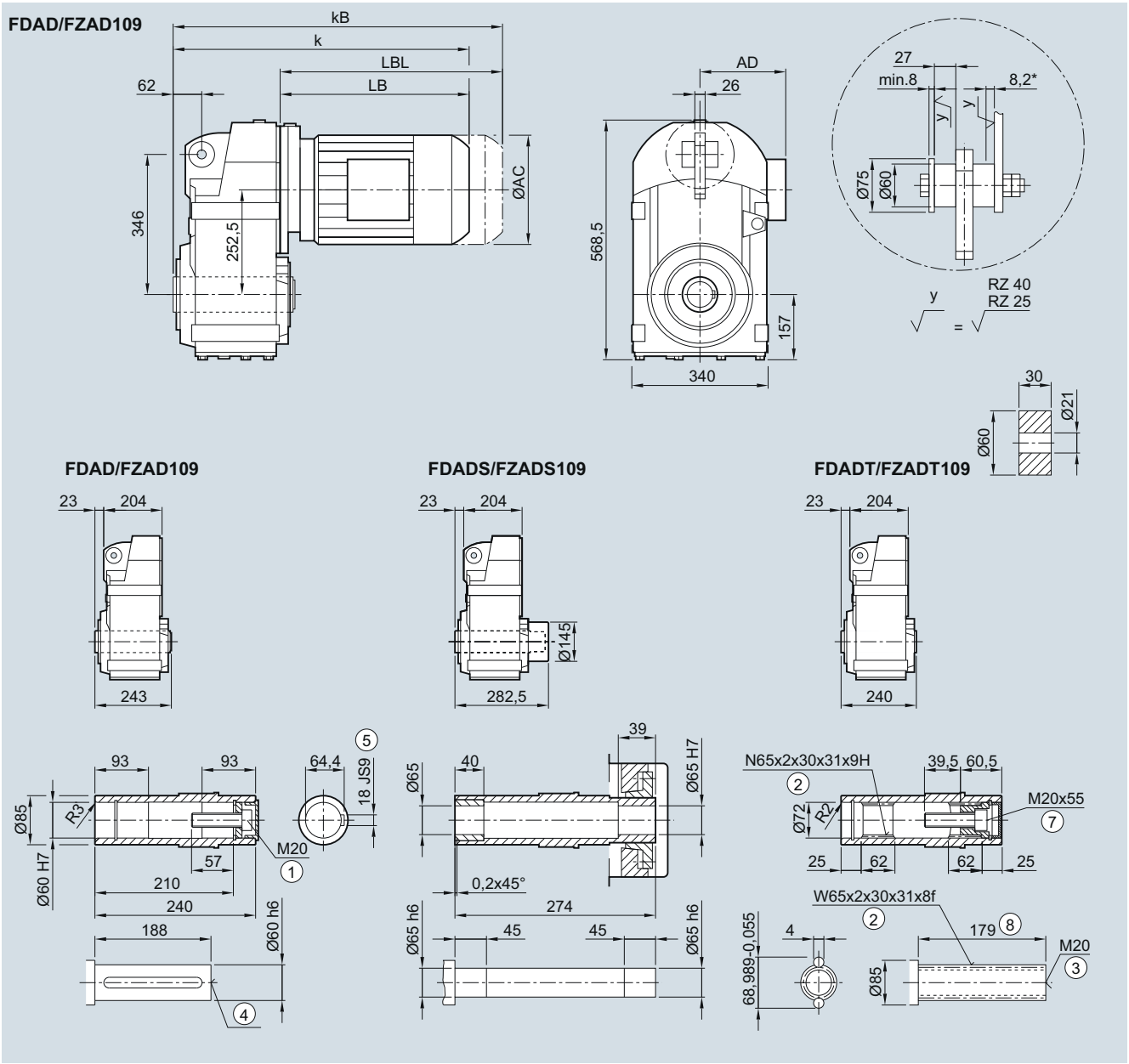
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FDAD./FZAD.109 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	538.0	513.0	609.0	628.5	672.5	717.5	757.5	817.5	837.0	867.0	940.5	986.0
kB	608.0	583.0	687.5	701.5	777.0	822.0	873.5	933.5	966.0	996.0	1 087.5	1 133.0
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

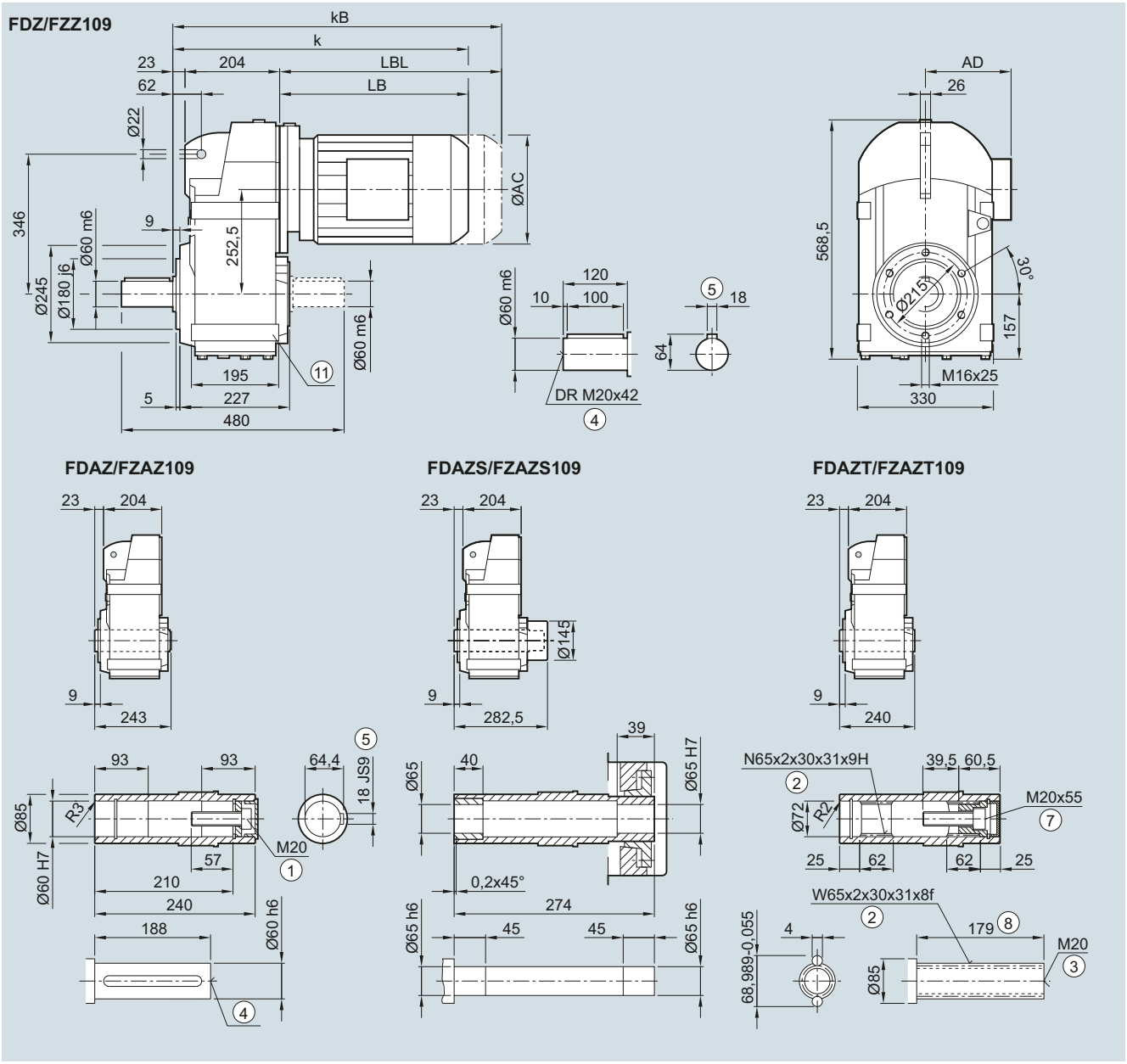
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
* Spring compression at max. torque

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.Z./FZ.Z.109 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	538.0	513.0	609.0	628.5	672.5	717.5	757.5	817.5	837.0	867.0	940.5	986.0
kB	608.0	583.0	687.5	701.5	777.0	822.0	873.5	933.5	966.0	996.0	1 087.5	1 133.0
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

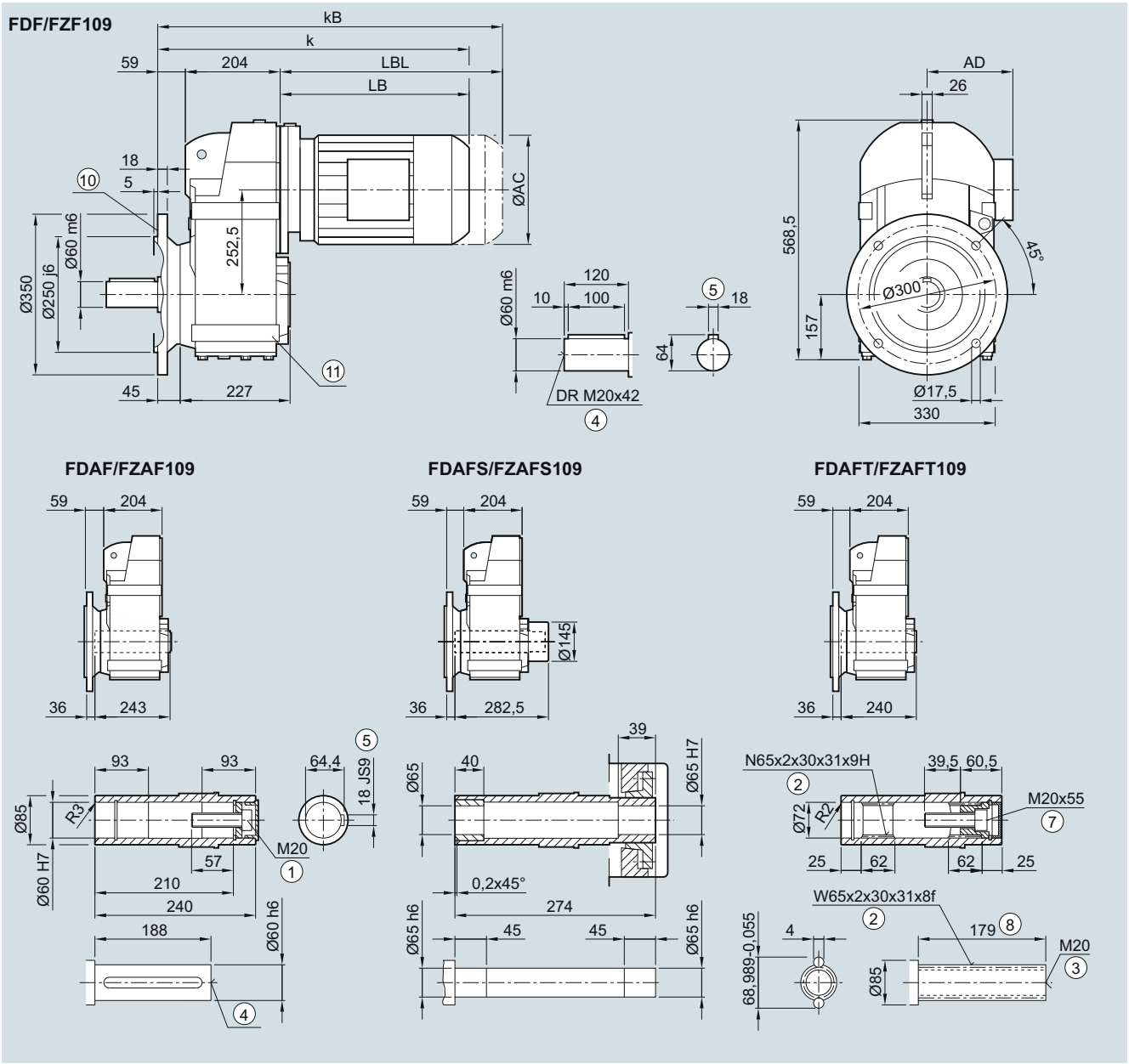
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD.F./FZ.F.109 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

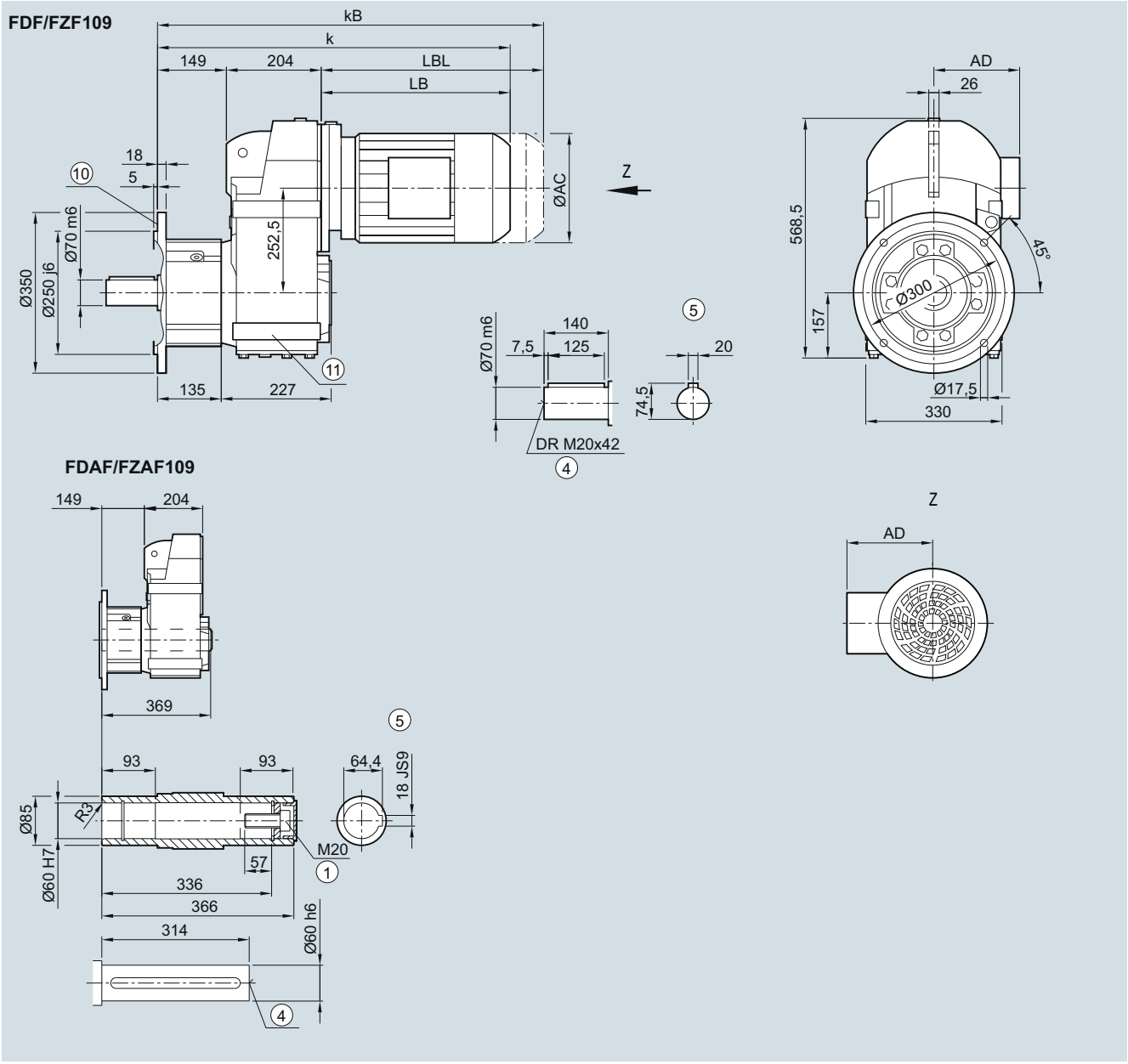


Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	574.0	549.0	645.0	664.5	708.5	753.5	793.5	853.5	873.0	903.0	976.5	1 022.0
kB	644.0	619.0	723.5	737.5	813.0	858.0	909.5	969.5	1 002.0	1 032.0	1 123.5	1 169.0
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202 ⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2) 2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.109 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

FF040, FAF040



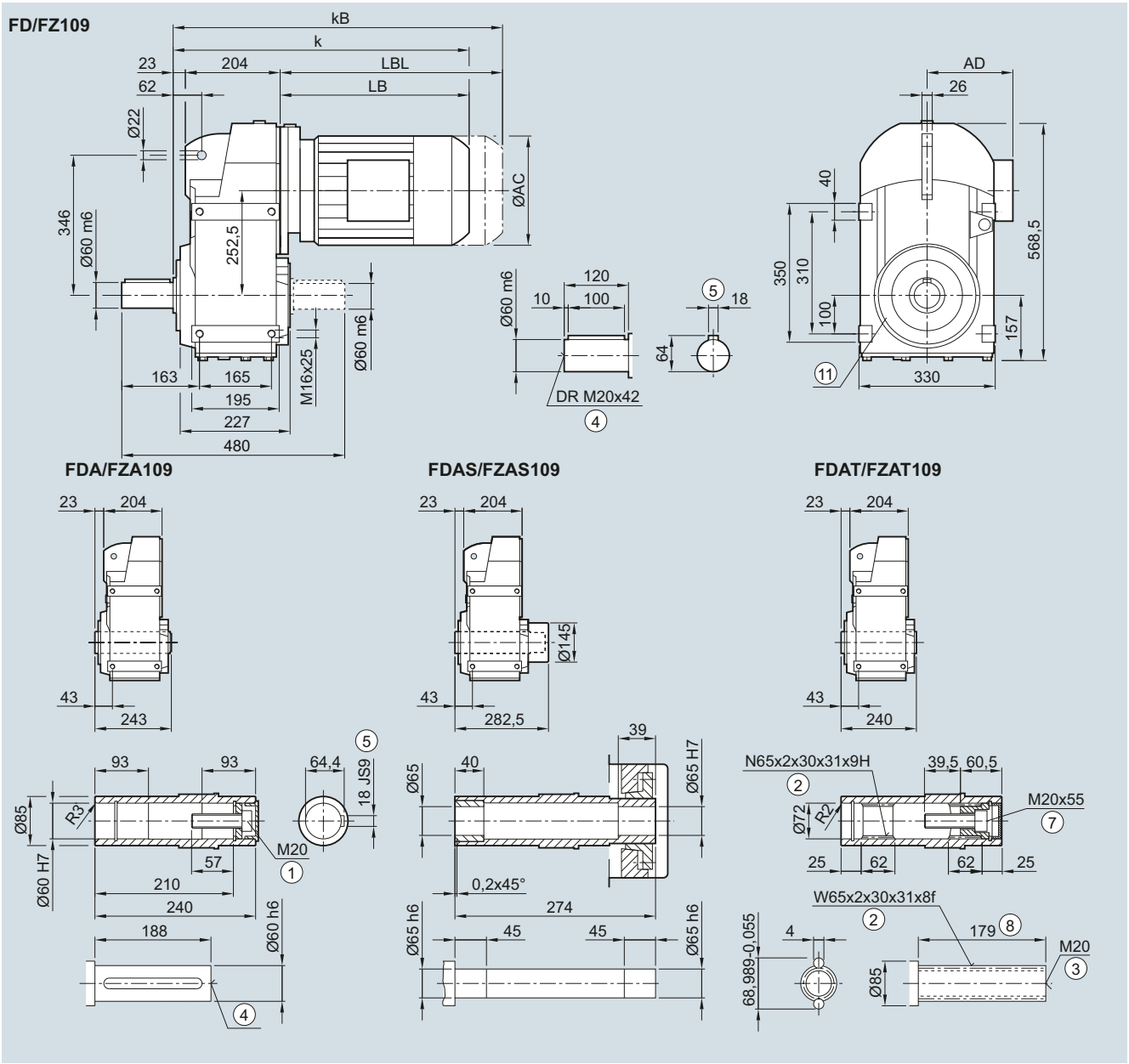
Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	664.0	639.0	735.0	754.5	798.5	843.5	883.5	943.5	963.0	993.0	1 066.5	1 112.0
kB	734.0	709.0	813.5	827.5	903.0	948.0	999.5	1 059.5	1 092.0	1 122.0	1 213.5	1 259.0
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour see page 4/202
1) Dimensions for LHN(S3-75%), LEN(IE2)
⑪ Use bores only for foot-mounted design
1) AD depends on the motor options, for other dimensions see page 7/20.
2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD../FZ.109 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	538.0	513.0	609.0	628.5	672.5	717.5	757.5	817.5	837.0	867.0	940.5	986.0
kB	608.0	583.0	687.5	701.5	777.0	822.0	873.5	933.5	966.0	996.0	1 087.5	1 133.0
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

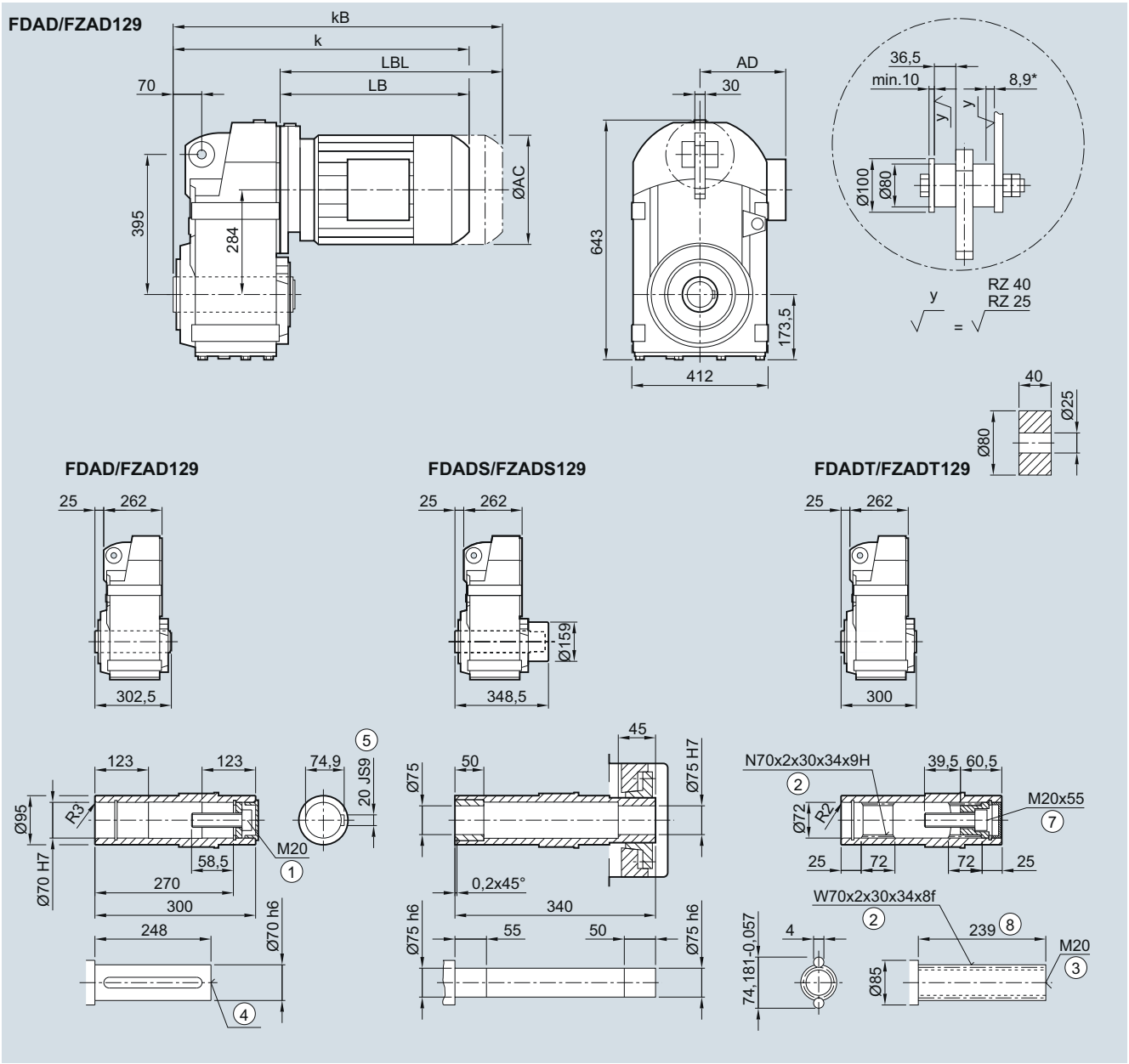
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FDAD./FZAD.129 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	591.0	566.0	660.0	679.5	721.5	766.5	806.5	866.5	886.0	916.0	989.5	1 035.0	1 160.5
kB	661.0	636.0	738.5	752.5	826.0	871.0	922.5	982.5	1 015.0	1 045.0	1 136.5	1 182.0	1 285.5
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

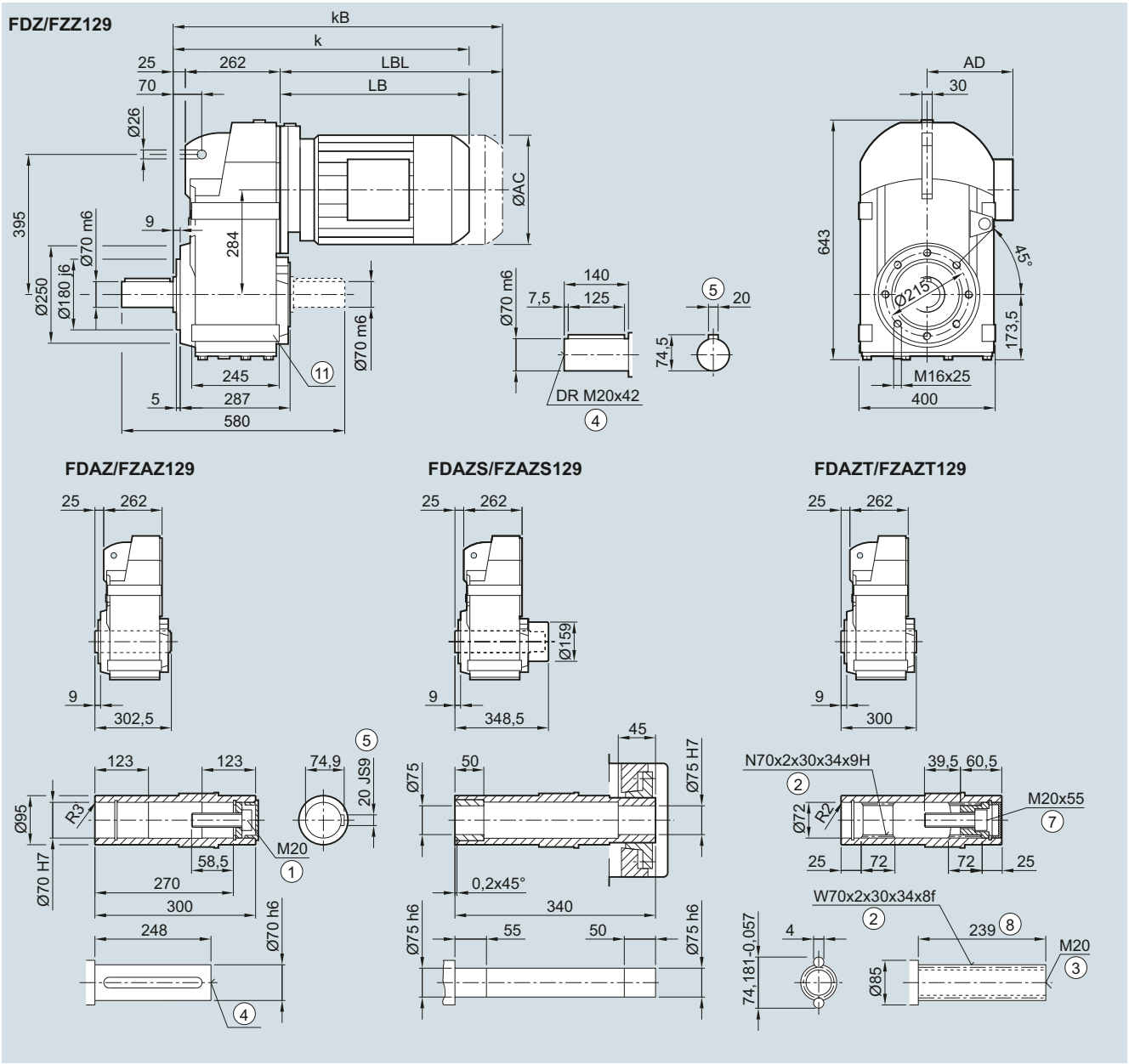
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
* Spring compression at max. torque

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.Z./FZ.Z.129 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	591.0	566.0	660.0	679.5	721.5	766.5	806.5	866.5	886.0	916.0	989.5	1 035.0	1 160.5
kB	661.0	636.0	738.5	752.5	826.0	871.0	922.5	982.5	1 015.0	1 045.0	1 136.5	1 182.0	1 285.5
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

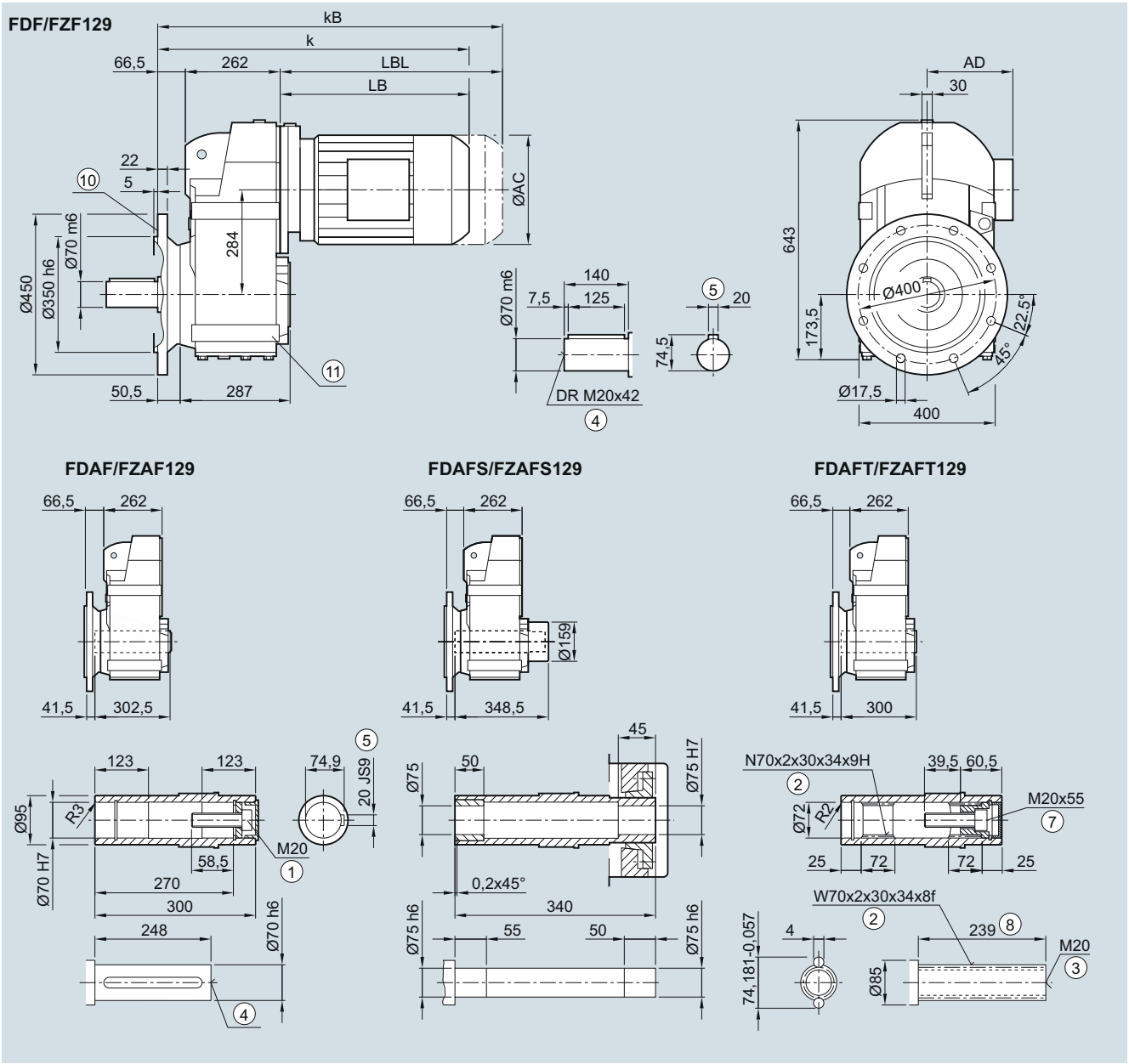
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.129 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



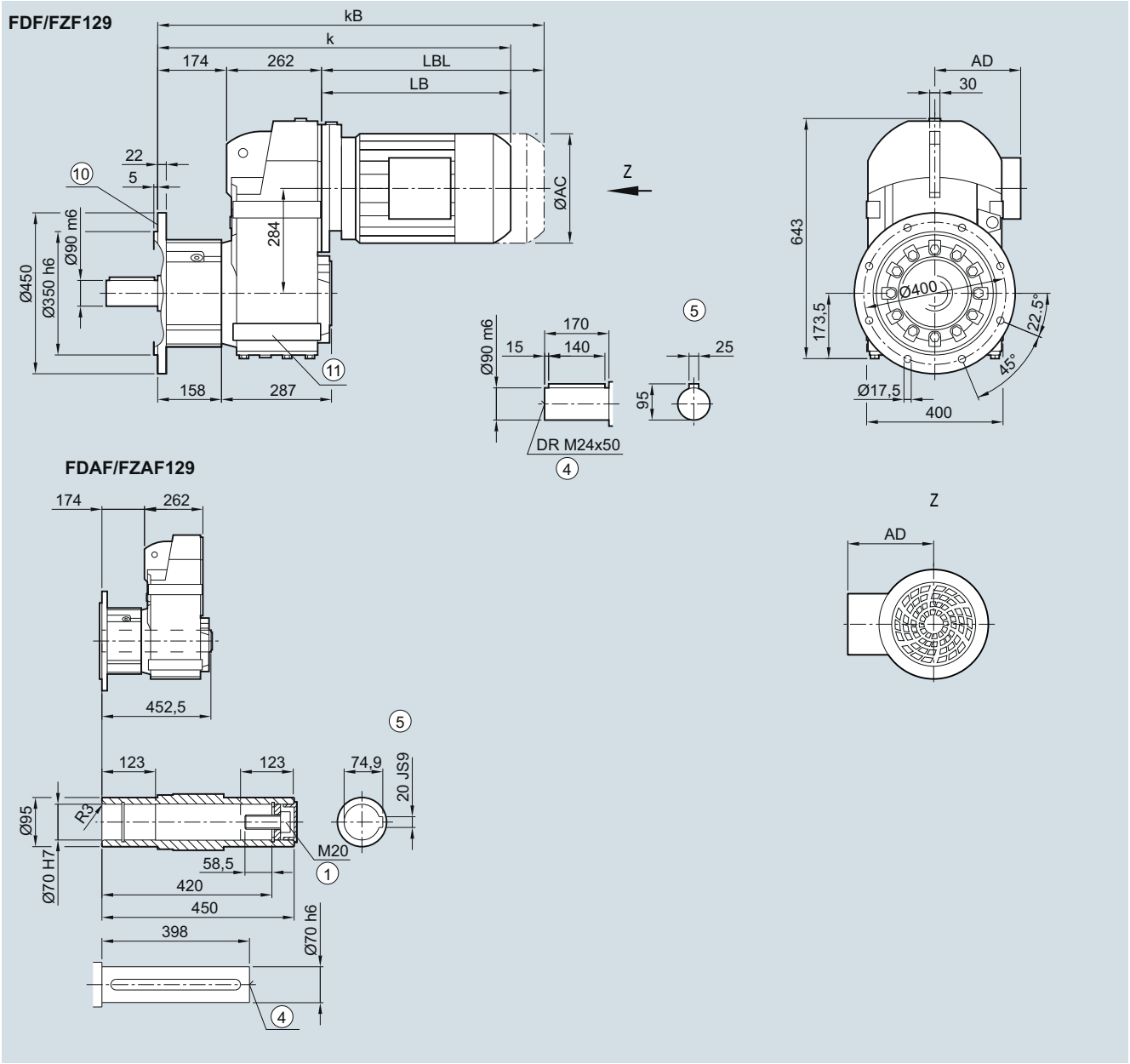
Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	632.5	607.5	701.5	721.0	763.0	808.0	848.0	908.0	927.5	957.5	1 031.0	1 076.5	1 202.0
kB	702.5	677.5	780.0	794.0	867.5	912.5	964.0	1 024.0	1 056.5	1 086.5	1 178.0	1 223.5	1 327.0
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202 ⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD.F./FZ.F.129 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

FF040, FAF040



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	740.0	715.0	809.0	828.5	870.5	915.5	955.5	1 015.5	1 035.0	1 065.0	1 138.5	1 184.0	1 309.5
kB	810.0	785.0	887.5	901.5	975.0	1 020.0	1 071.5	1 131.5	1 164.0	1 194.0	1 285.5	1 331.0	1 434.5
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

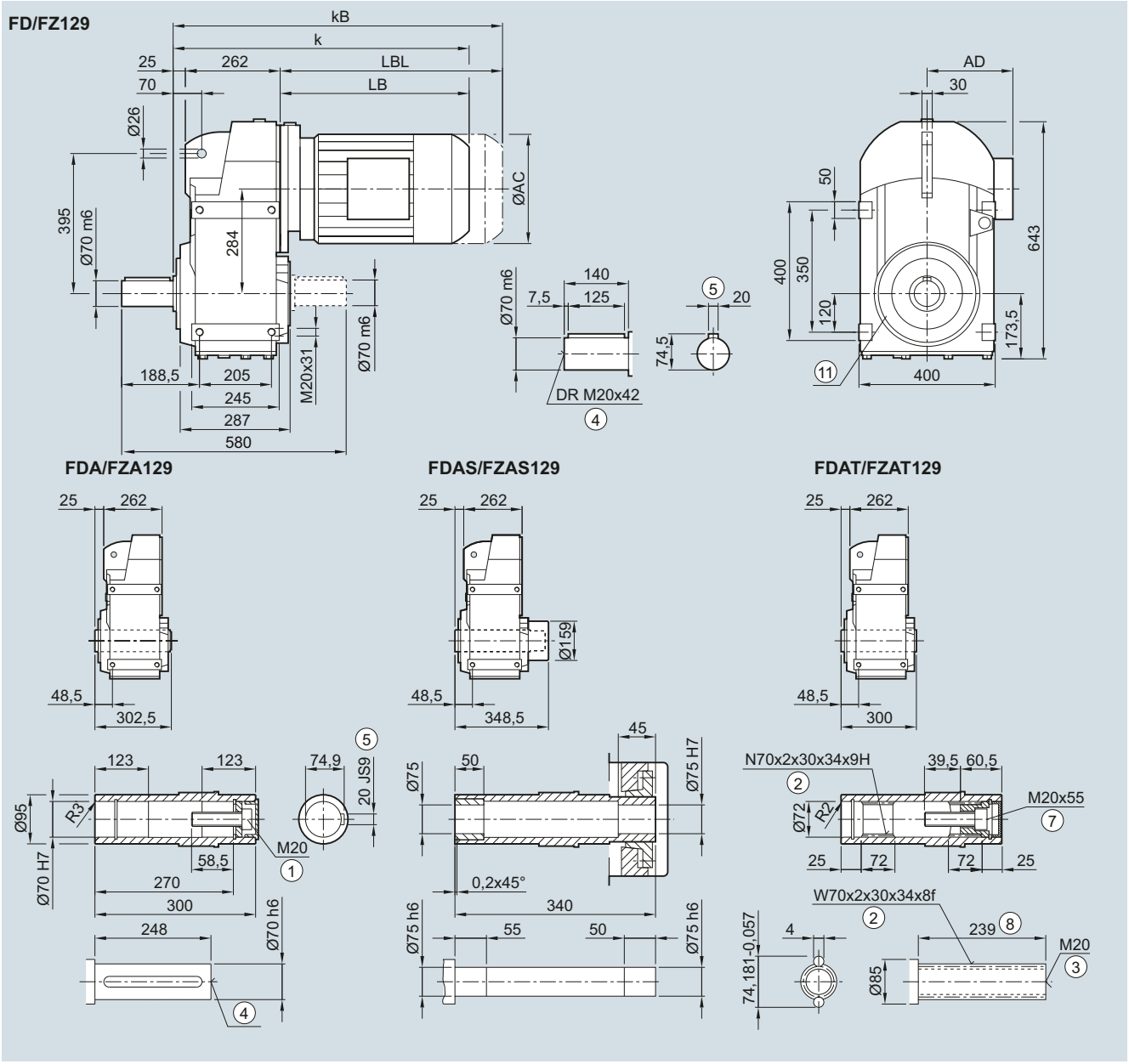
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design ⑱ For inner contour see page 4/202

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD../FZ..129 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	591.0	566.0	660.0	679.5	721.5	766.5	806.5	866.5	886.0	916.0	989.5	1 035.0	1 160.5
kB	661.0	636.0	738.5	752.5	826.0	871.0	922.5	982.5	1 015.0	1 045.0	1 136.5	1 182.0	1 285.5
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

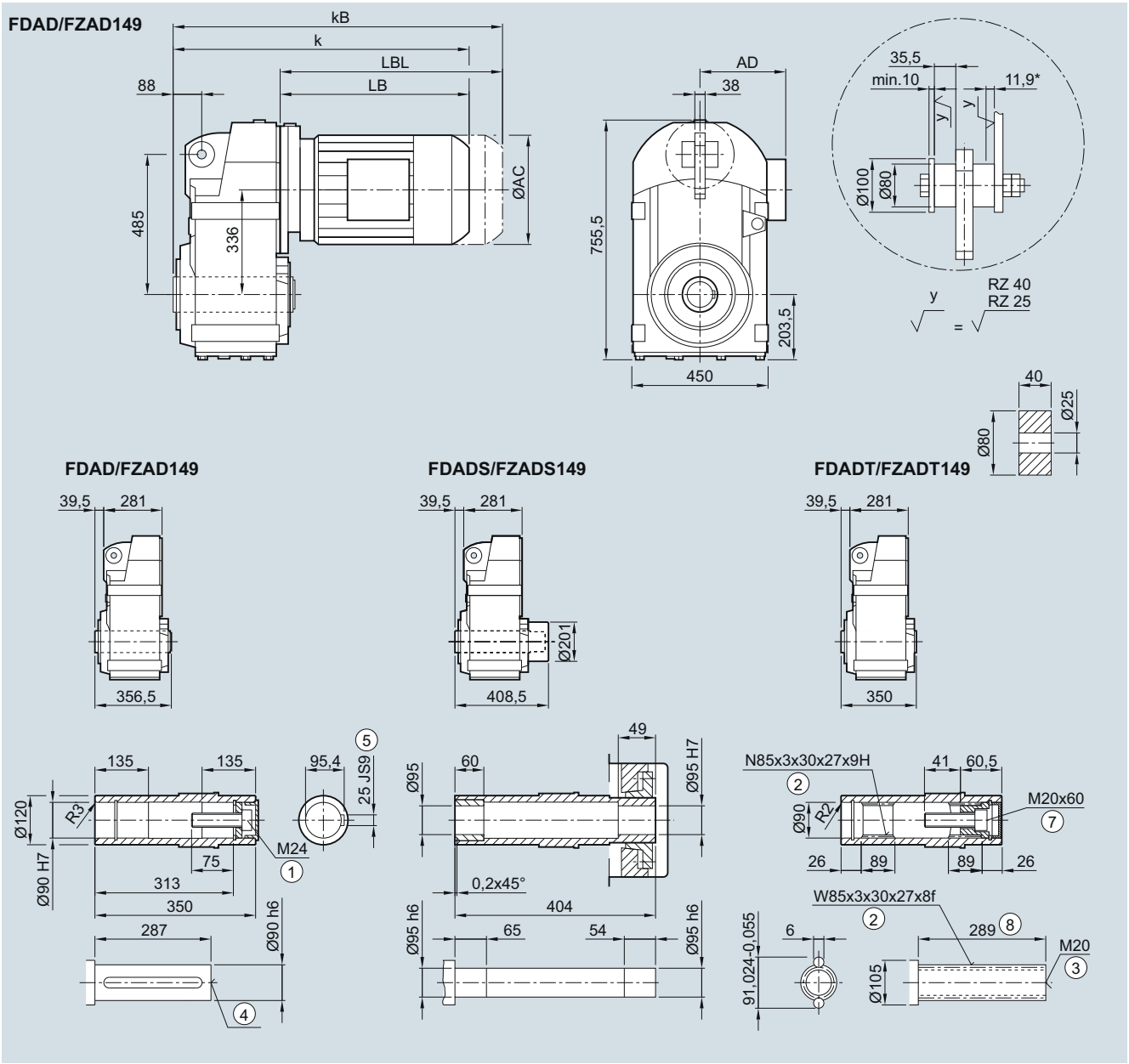
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FDAD./FZAD.149 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	692.0	711.5	748.5	793.5	833.5	893.5	913.0	943.0	1 016.5	1 062.0	1 187.5
kB	770.5	784.5	853.0	898.0	949.5	1 009.5	1 042.0	1 072.0	1 163.5	1 209.0	1 312.5
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

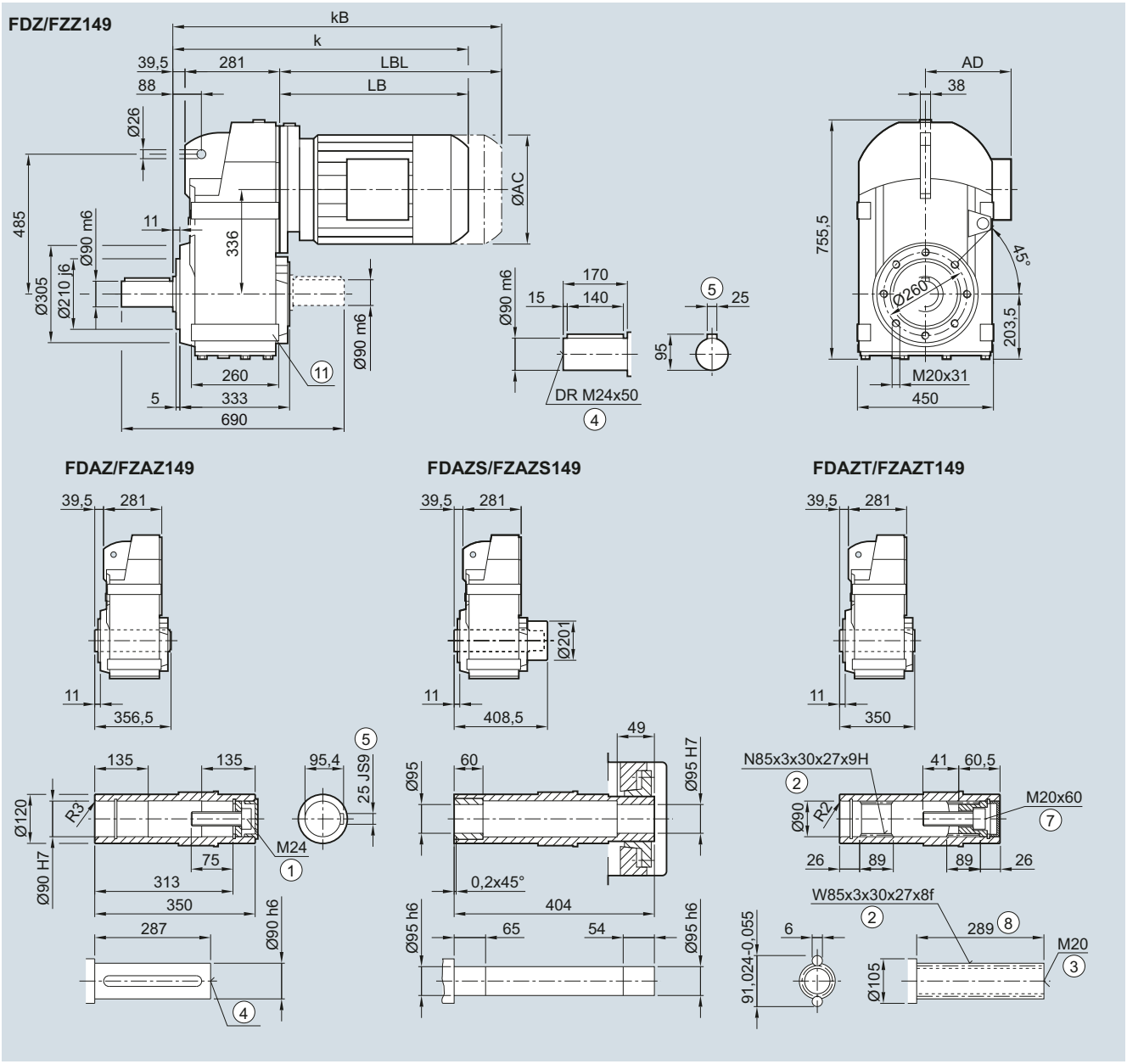
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
* Spring compression at max. torque

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.Z./FZ.Z.149 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	692.0	711.5	748.5	793.5	833.5	893.5	913.0	943.0	1 016.5	1 062.0	1 187.5
kB	770.5	784.5	853.0	898.0	949.5	1 009.5	1 042.0	1 072.0	1 163.5	1 209.0	1 312.5
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

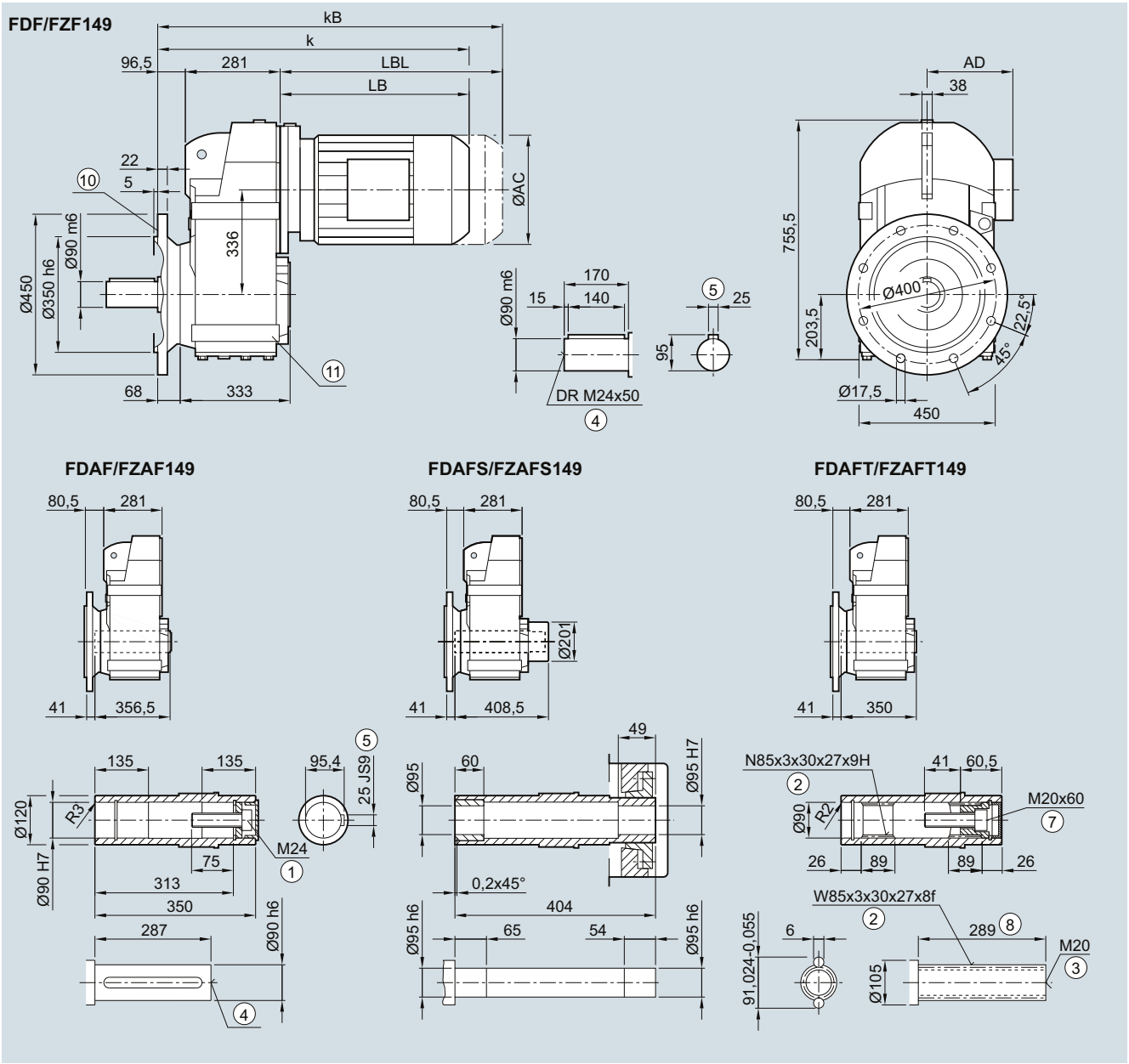
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD.F./FZ.F.149 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

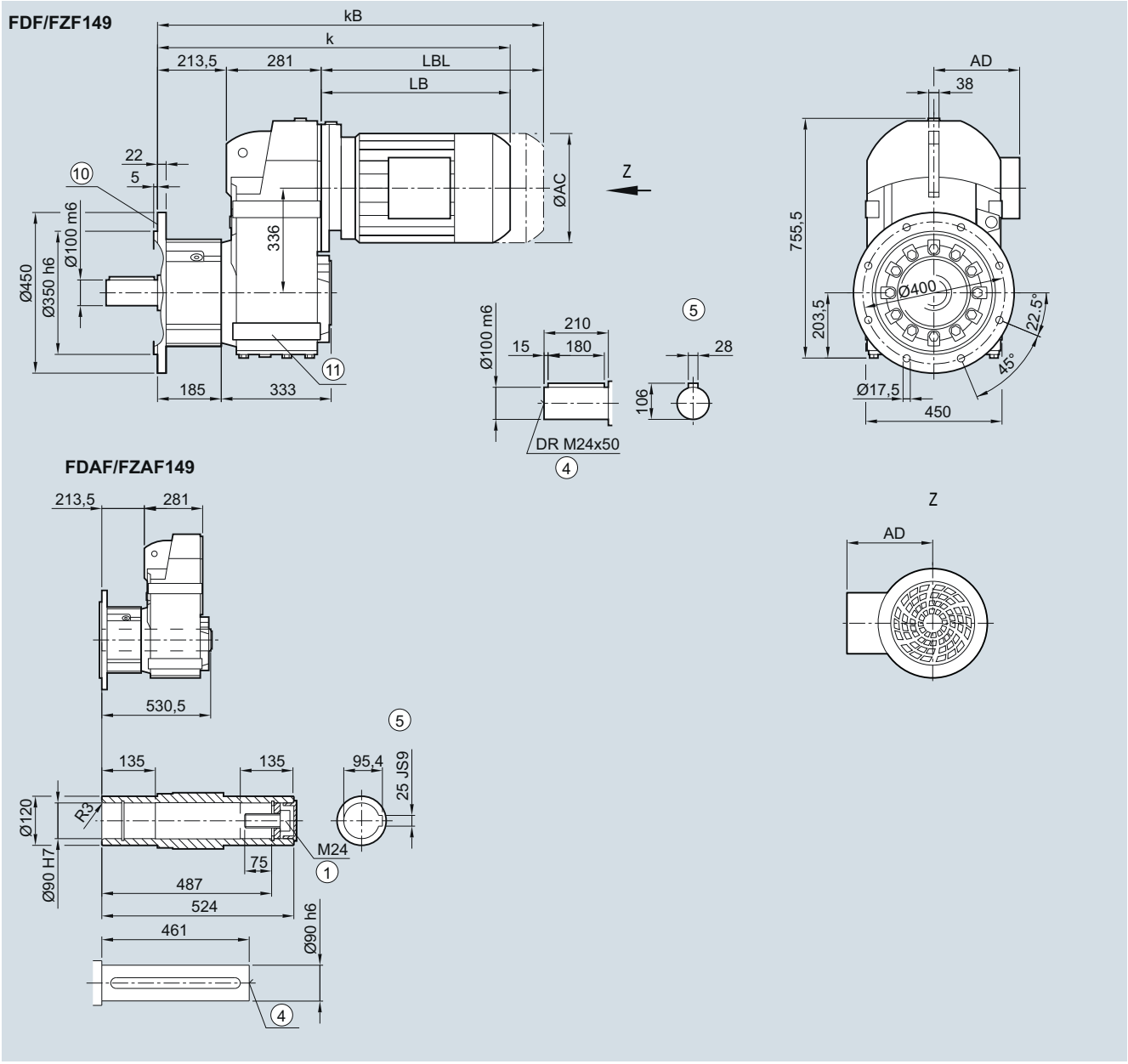


Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	749.0	768.5	805.5	850.5	890.5	950.5	970.0	1 000.0	1 073.5	1 119.0	1 244.5
kB	827.5	841.5	910.0	955.0	1 006.5	1 066.5	1 099.0	1 129.0	1 220.5	1 266.0	1 369.5
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202 ⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.149 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

FF040, FAF040



Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	866.0	885.5	922.5	967.5	1 007.5	1 067.5	1 087.0	1 117.0	1 190.5	1 236.0	1 361.5
kB	944.5	958.5	1 027.0	1 072.0	1 123.5	1 183.5	1 216.0	1 246.0	1 337.5	1 383.0	1 486.5
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

⑩ For inner contour see page 4/202

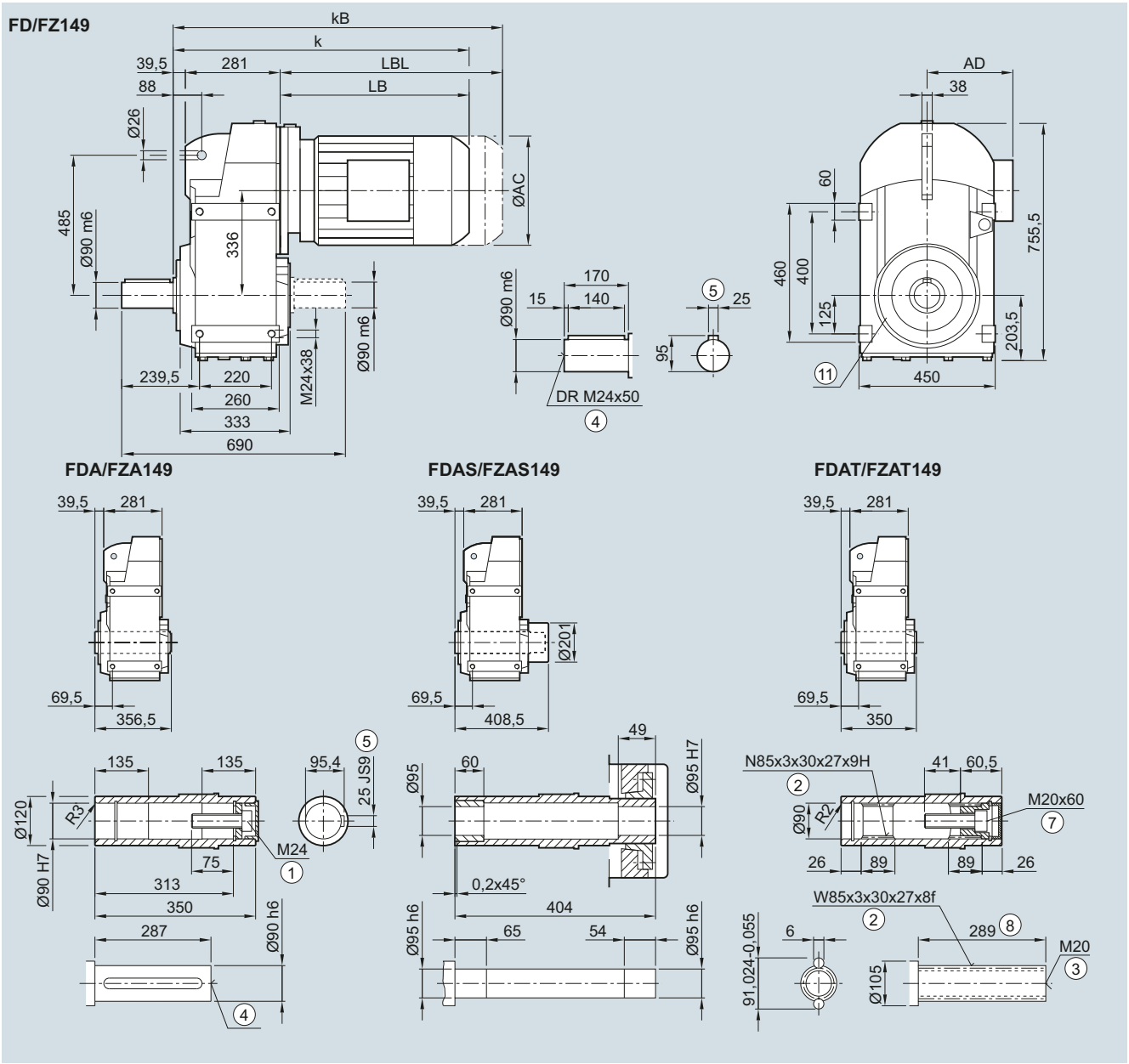
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD../FZ..149 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	692.0	711.5	748.5	793.5	833.5	893.5	913.0	943.0	1 016.5	1 062.0	1 187.5
kB	770.5	784.5	853.0	898.0	949.5	1 009.5	1 042.0	1 072.0	1 163.5	1 209.0	1 312.5
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

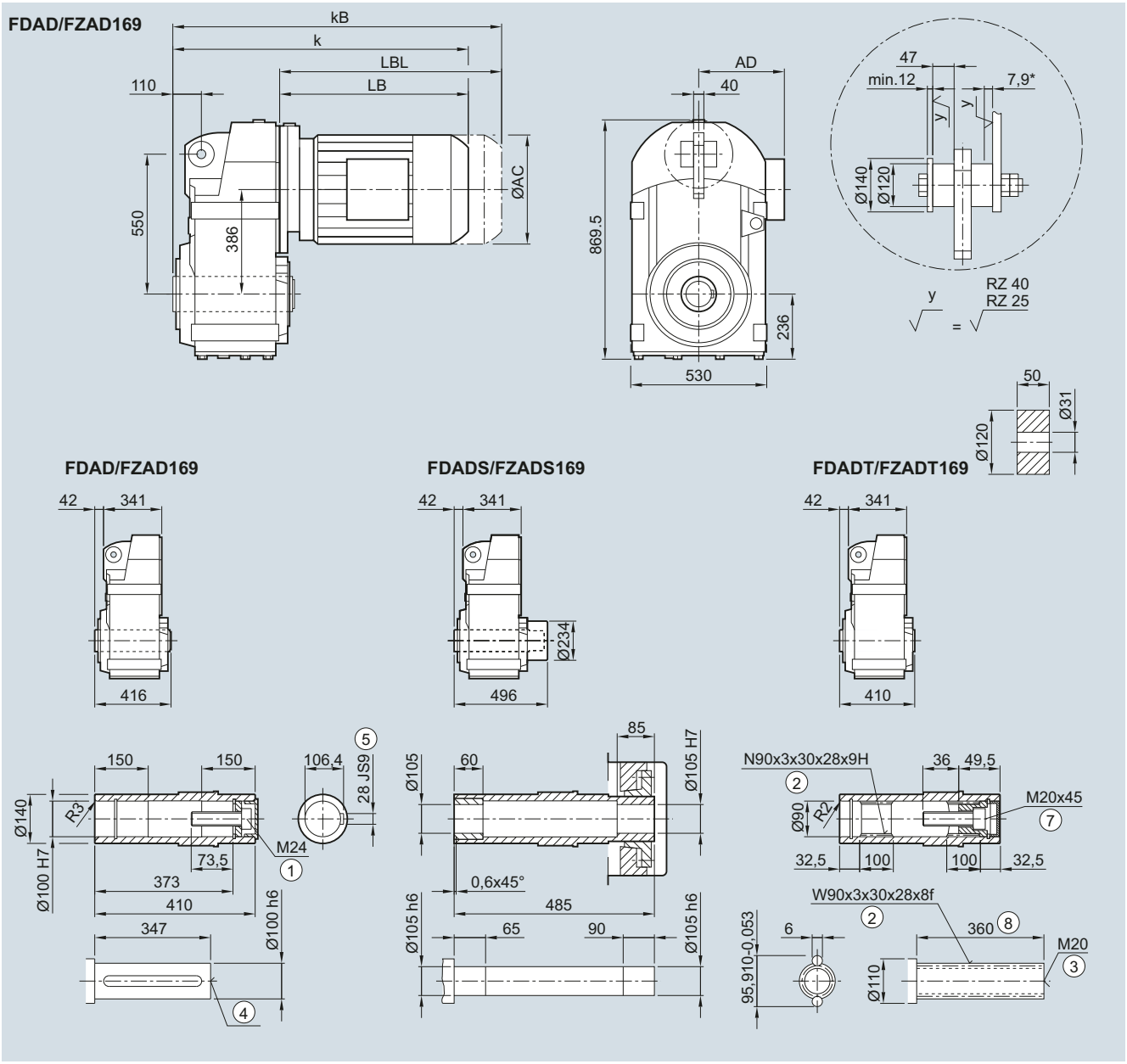
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FDAD./FZAD.169 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	761.5	798.0	843.0	883.0	943.0	962.0	992.0	1 065.5	1 110.0	1 231.5
kB	834.5	902.5	947.5	999.0	1 059.0	1 091.0	1 121.0	1 212.5	1 257.0	1 356.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

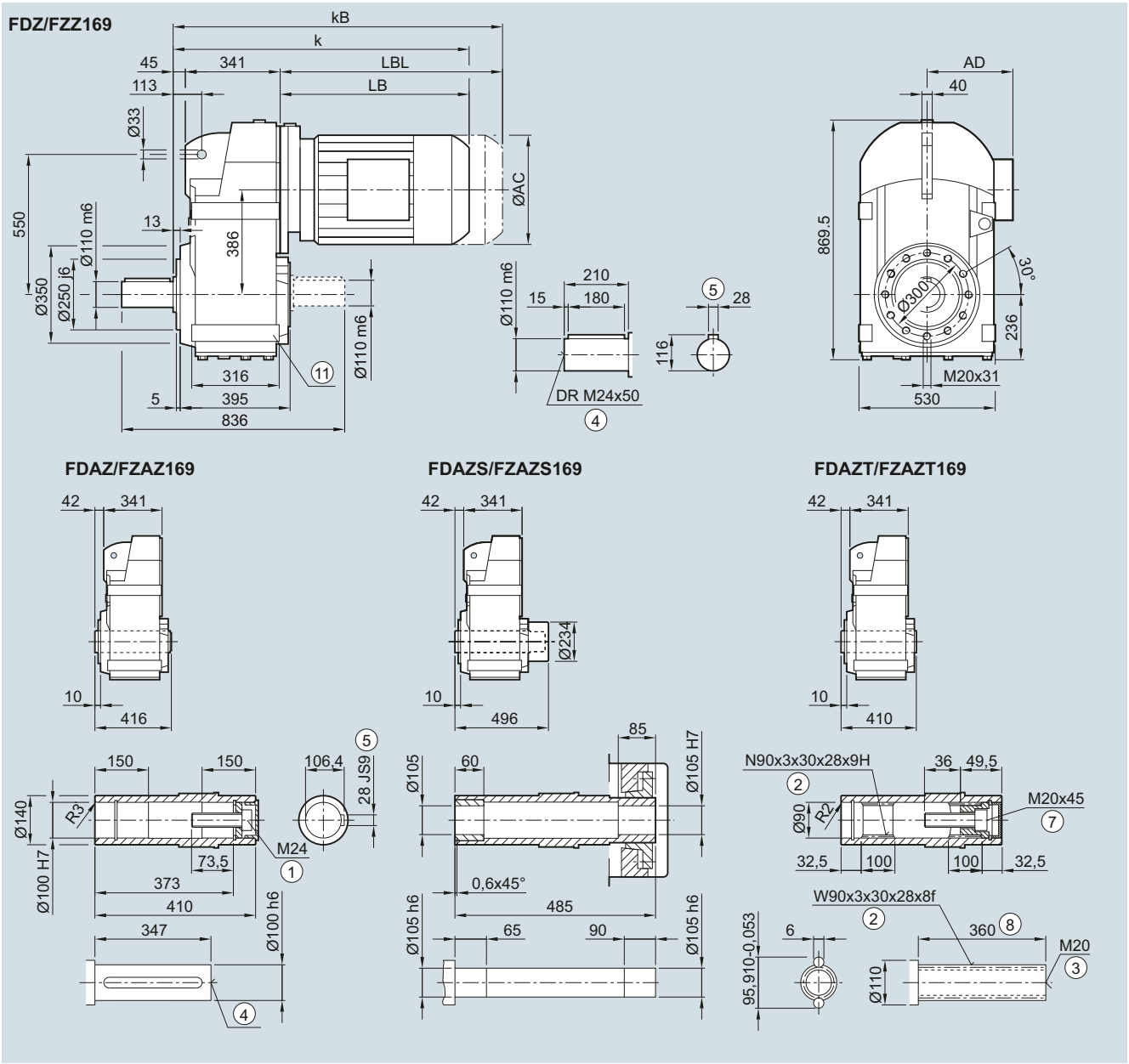
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
* Spring compression at max. torque

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.Z./FZ.Z.169 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	764.5	801.0	846.0	886.0	946.0	965.0	995.0	1 068.5	1 113.0	1 234.5
kB	837.5	905.5	950.5	1 002.0	1 062.0	1 094.0	1 124.0	1 215.5	1 260.0	1 359.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

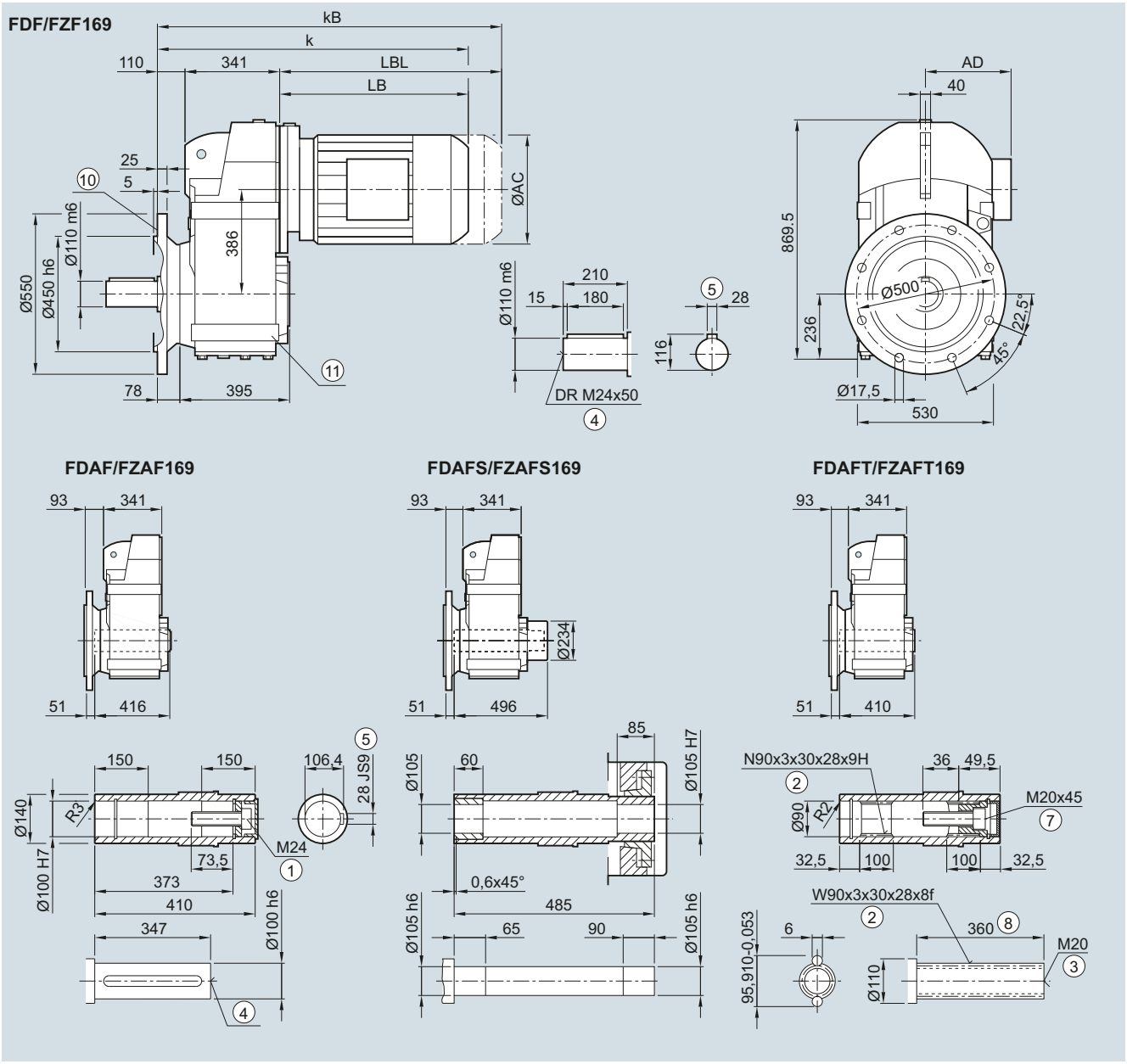
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.F./FZ.F.169 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



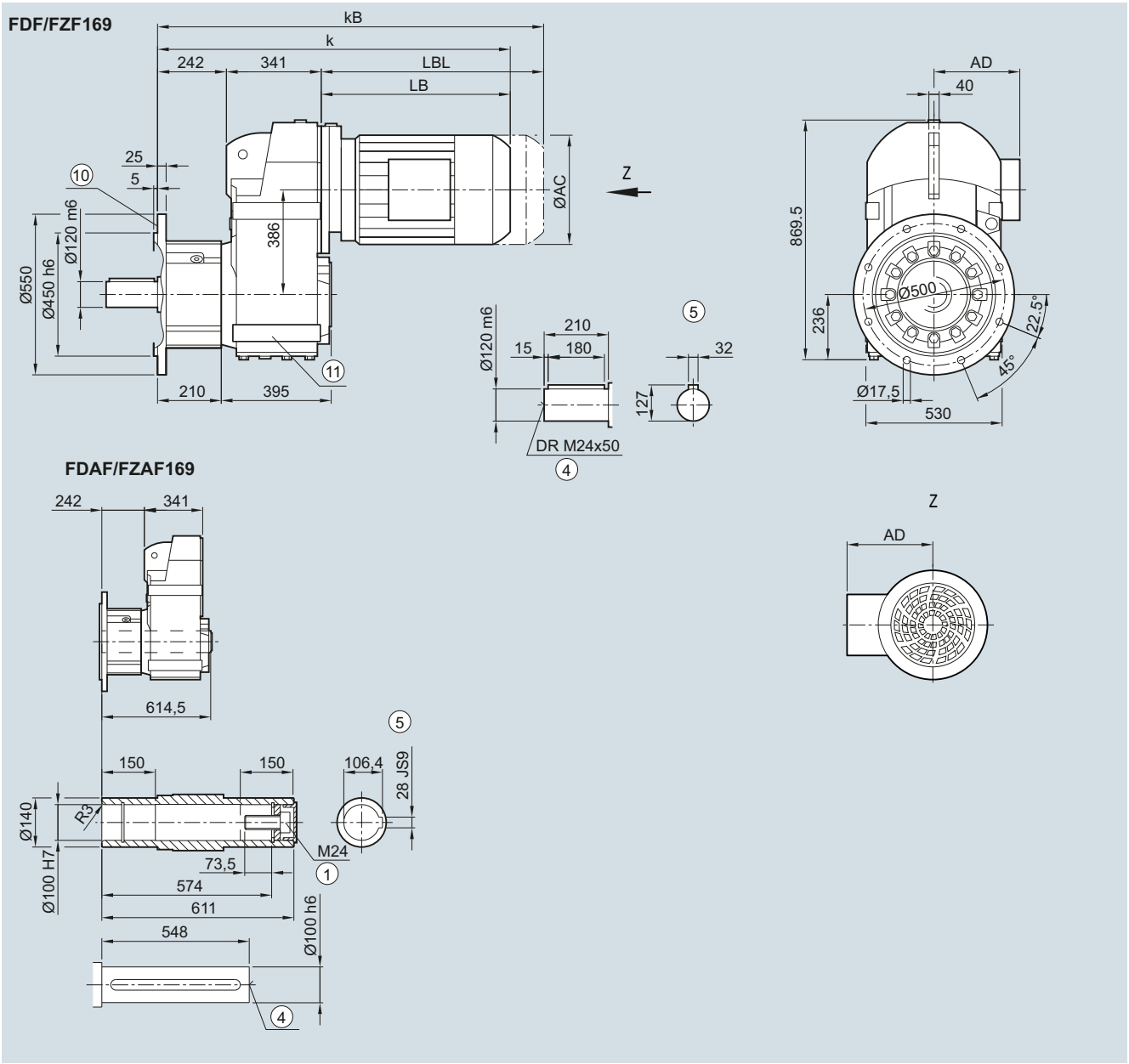
Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	829.5	866.0	911.0	951.0	1 011.0	1 030.0	1 060.0	1 133.5	1 178.0	1 299.5
kB	902.5	970.5	1 015.5	1 067.0	1 127.0	1 159.0	1 189.0	1 280.5	1 325.0	1 424.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD.F./FZ.F.169 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

FF040, FAF040



Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	961.5	998.0	1 043.0	1 083.0	1 143.0	1 162.0	1 192.0	1 265.5	1 310.0	1 431.5
kB	1 034.5	1 102.5	1 147.5	1 199.0	1 259.0	1 291.0	1 321.0	1 412.5	1 457.0	1 556.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

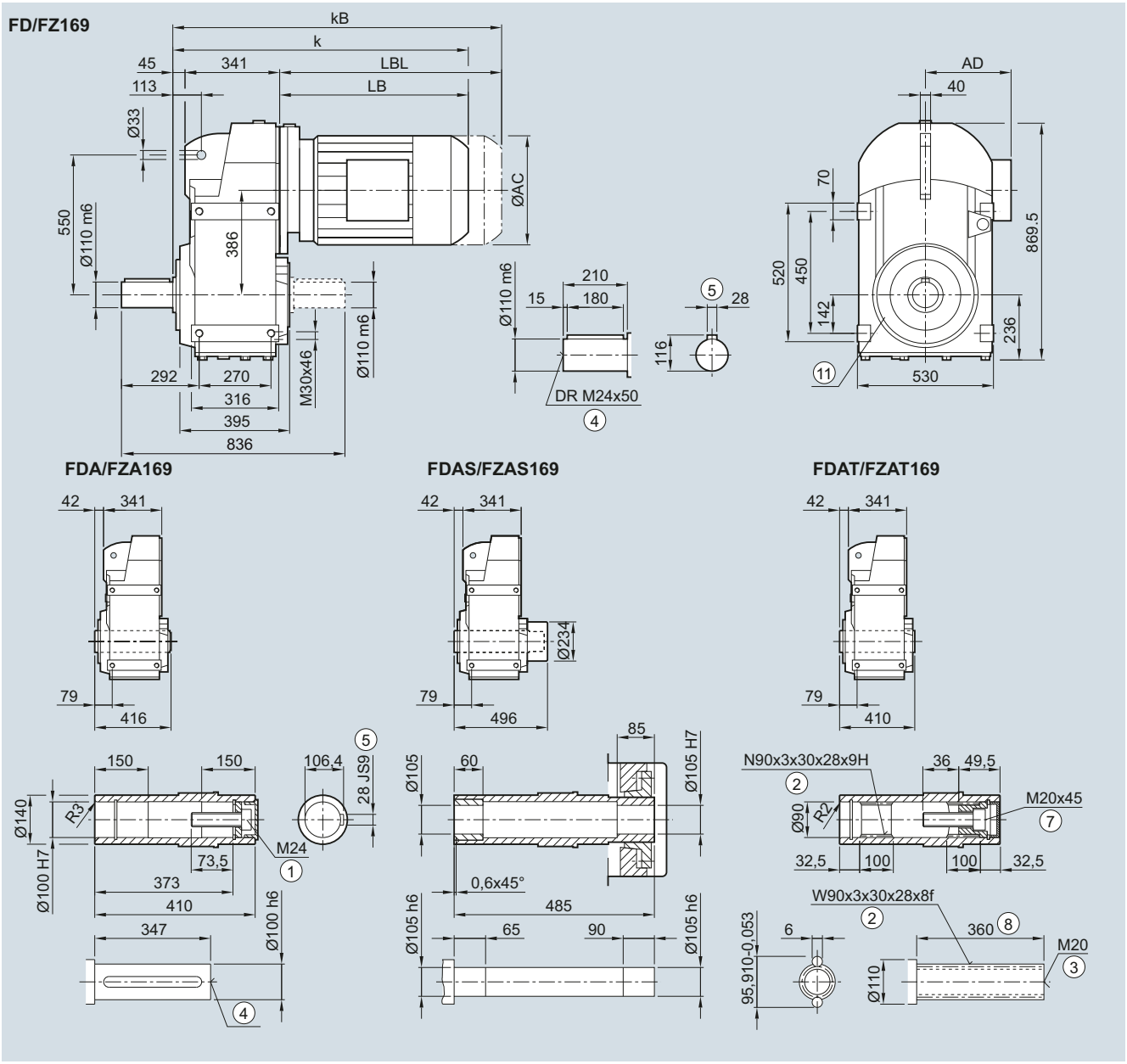
⑩ For inner contour see page 4/202

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD../FZ..169 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	764.5	801.0	846.0	886.0	946.0	965.0	995.0	1 068.5	1 113.0	1 234.5
kB	837.5	905.5	950.5	1 002.0	1 062.0	1 094.0	1 124.0	1 215.5	1 260.0	1 359.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

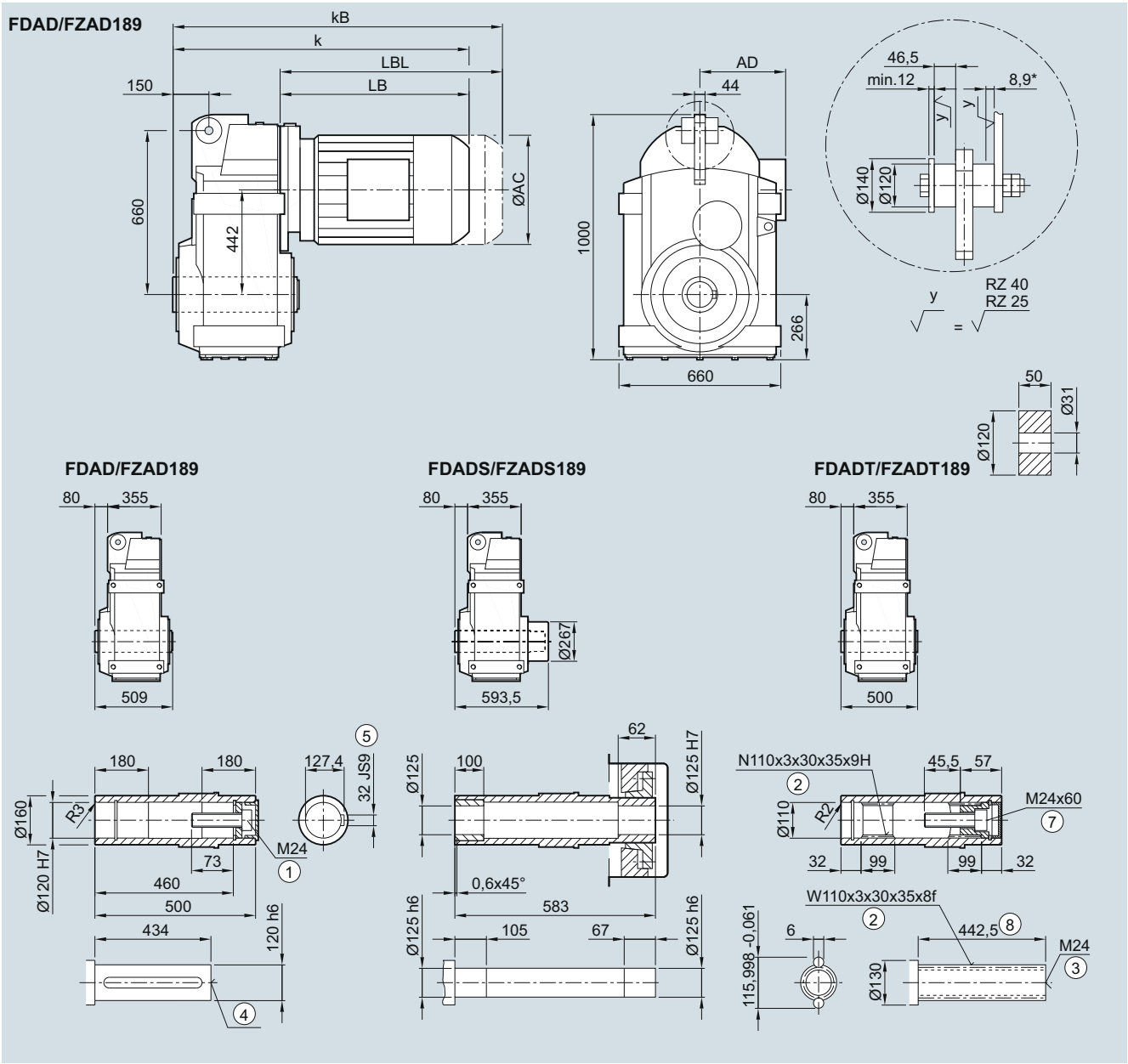
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FDAD./FZAD.189 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	813.5	850.0	895.0	935.0	995.0	1 014.0	1 044.0	1 117.5	1 162.0	1 283.5
kB	886.5	954.5	999.5	1 051.0	1 111.0	1 143.0	1 173.0	1 264.5	1 309.0	1 408.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

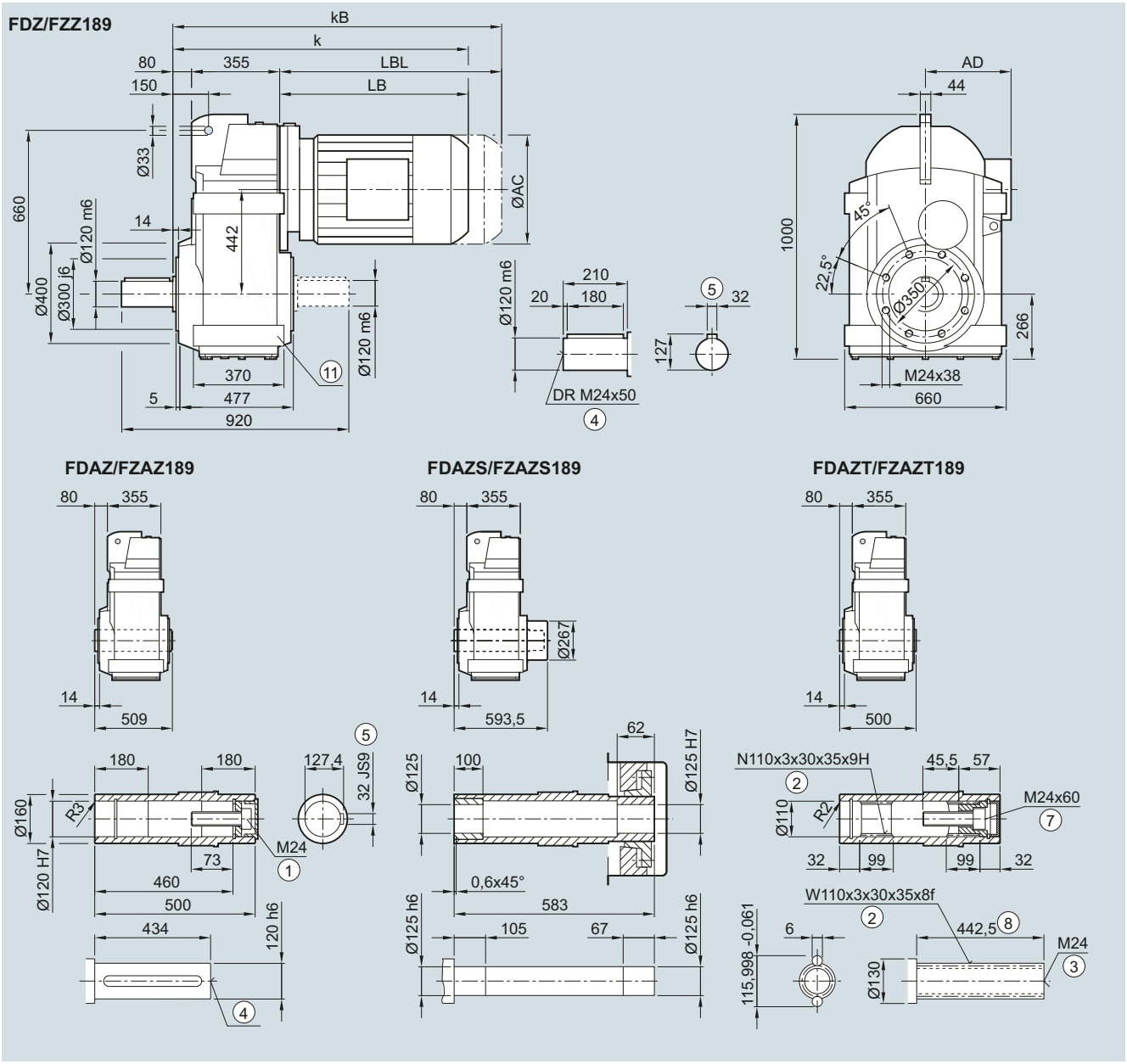
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design * Spring compression at max. torque

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD.Z./FZ.Z.189 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor[1]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	813.5	850.0	895.0	935.0	995.0	1 014.0	1 044.0	1 117.5	1 162.0	1 283.5
kB	886.5	954.5	999.5	1 051.0	1 111.0	1 143.0	1 173.0	1 264.5	1 309.0	1 408.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

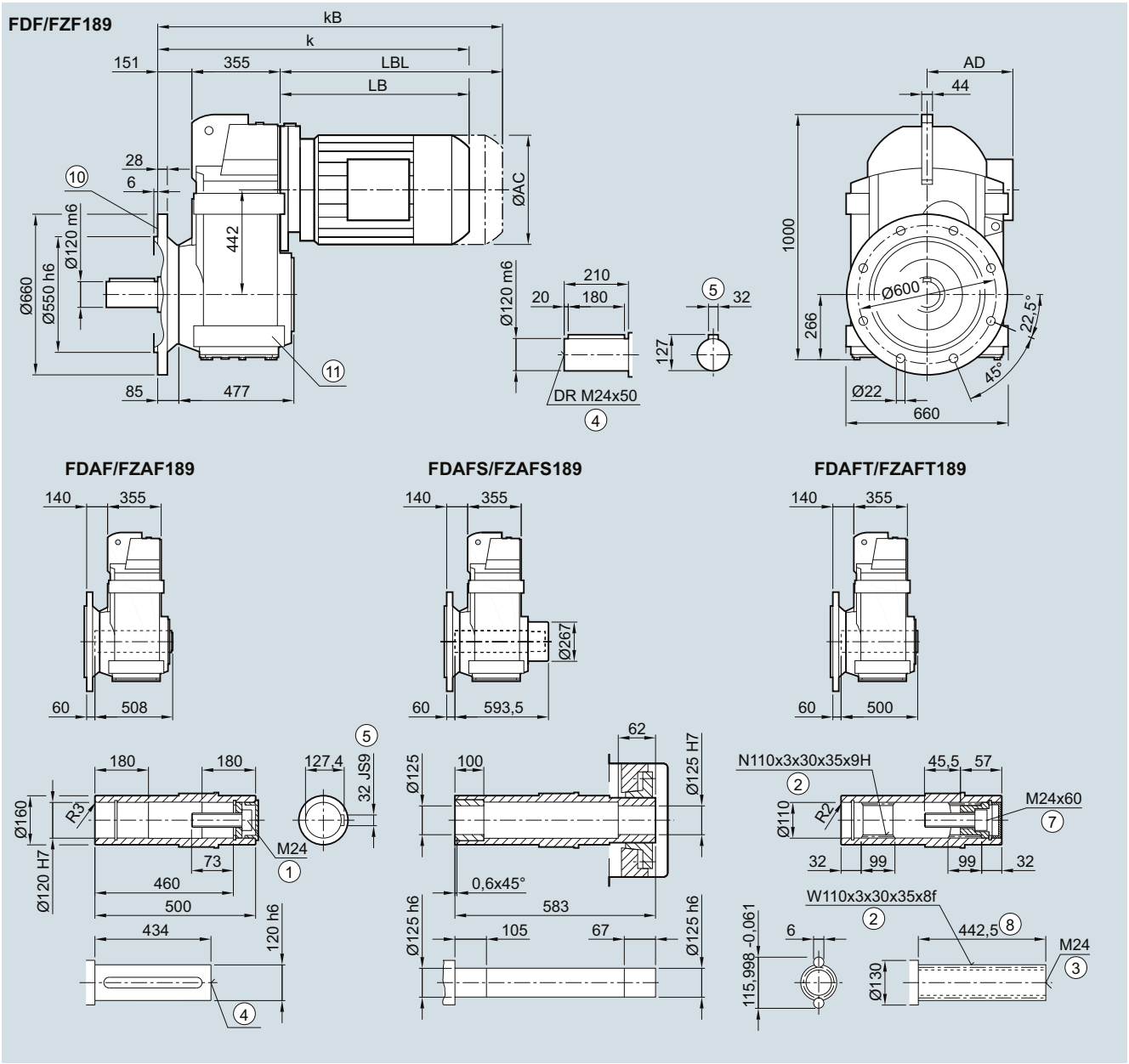
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

FD.F./FZ.F.189 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	884.5	921.0	966.0	1 006.0	1 066.0	1 085.0	1 115.0	1 188.5	1 233.0	1 354.5
kB	957.5	1 025.5	1 070.5	1 122.0	1 182.0	1 214.0	1 244.0	1 335.5	1 380.0	1 479.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

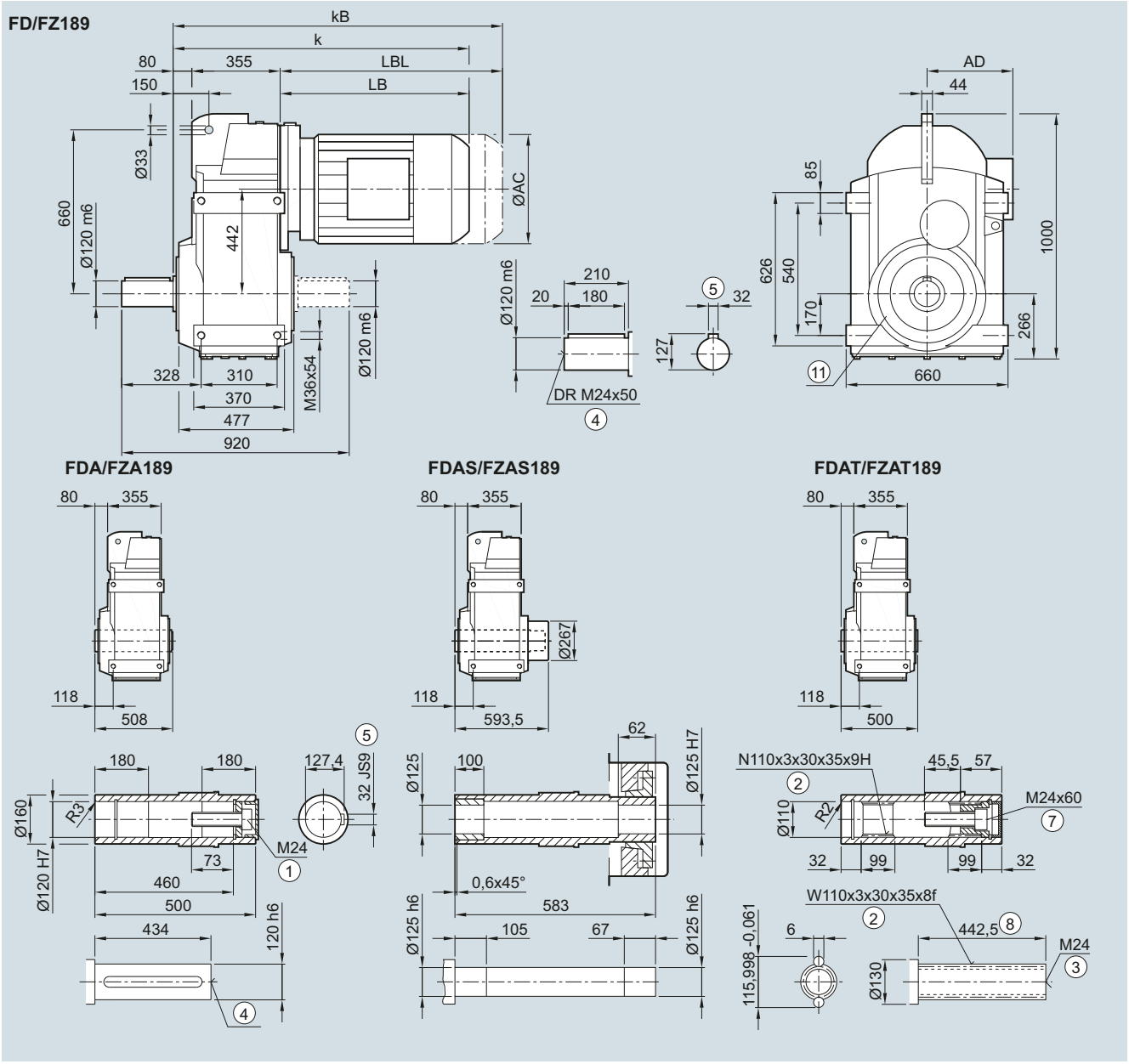
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/202
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

FD../FZ..189 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor[1]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	813.5	850.0	895.0	935.0	995.0	1 014.0	1 044.0	1 117.5	1 162.0	1 283.5
kB	886.5	954.5	999.5	1 051.0	1 111.0	1 143.0	1 173.0	1 264.5	1 309.0	1 408.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

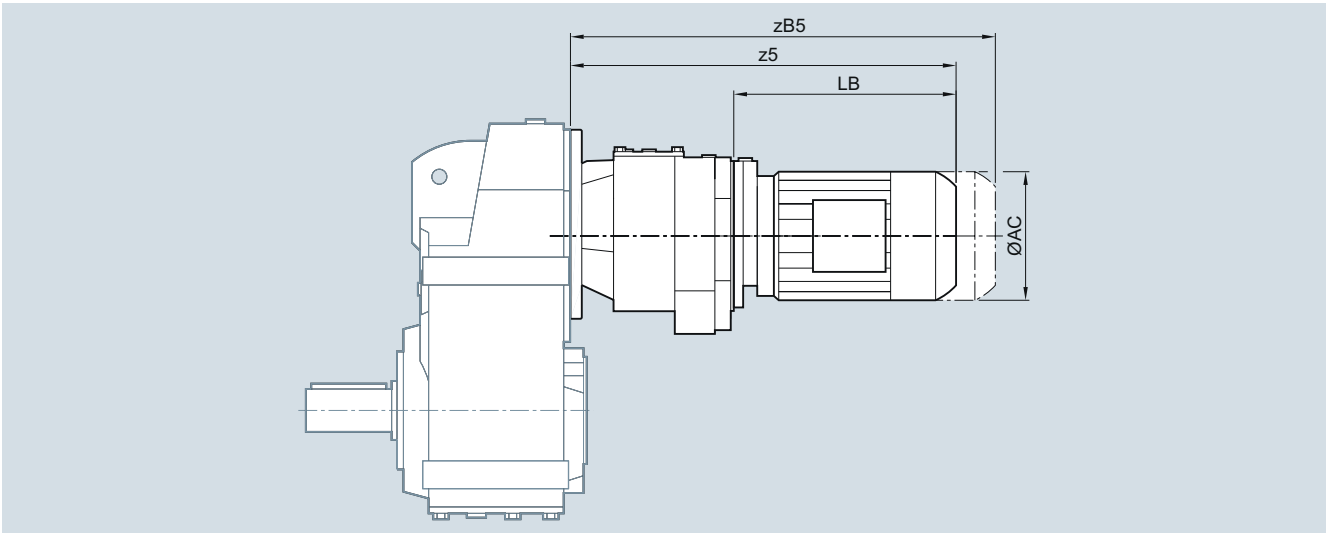
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

4

Parallel shaft tandem geared motors



Gearbox	Motor[1)]	AC	z5	zB5	LB
FD./FZ.29-D/Z19	LHN63	118.0	349.5	394.5	179.0
FD./FZ.39-D/Z19	LHN63	118.0	349.5	394.5	179.0
	LHN71	139.0	371.0	426.0	192.5
FD./FZ.49-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
FD./FZ.69-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
FD./FZ.79-D/Z39	LHN63	118.0	392.0	437.0	212.5
	LHN71	139.0	413.5	468.5	234.0
	LEN80M	154.5	465.0	525.0	285.5
FD./FZ.89-D/Z39	LHN63	118.0	375.0	420.0	212.5
	LHN71	139.0	396.5	451.5	234.0
	LEN80M	154.5	448.0	508.0	285.5
	LEN90L	174.0	509.0	579.0	346.5
	LEN90S	174.0	484.0	554.0	321.5
FD.109-D/Z39	LHN63	118.0	366.0	411.0	212.5
	LHN71	139.0	387.5	442.5	234.0
	LEN80M	154.5	439.0	499.0	285.5
	LEN90L	174.0	500.0	570.0	346.5
	LEN90S	174.0	475.0	545.0	321.5
	LEN100L	197.0	577.0	655.5	423.5
FD.129-D/Z49	LHN63	118.0	395.0	440.0	203.0
	LHN71	139.0	416.5	471.5	224.5
	LEN80M	154.5	468.0	528.0	276.0
	LEN90L	174.0	529.0	599.0	337.0
	LEN90S	174.0	504.0	574.0	312.0
	LEN100L	197.0	606.0	684.5	414.0
	LEN112M	222.0	625.5	698.5	433.5

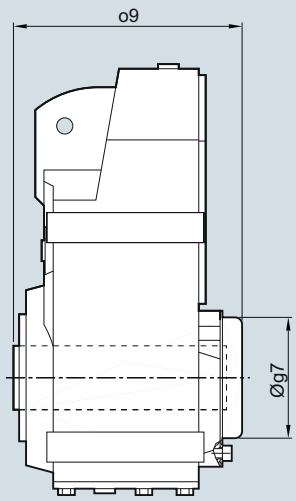
Gearbox	Motor[1)]	AC	z5	zB5	LB
FD.149-D/Z49	LHN63	118.0	384.5	429.5	203.0
	LHN71	139.0	406.0	461.0	224.5
	LEN80M	154.5	457.5	517.5	276.0
	LEN90L	174.0	518.5	588.5	337.0
	LEN90S	174.0	493.5	563.5	312.0
	LEN100L	197.0	595.5	674.0	414.0
	LEN112M	222.0	615.0	688.0	433.5
	LEN132S	262.0	659.0	763.5	477.5
	LEN132M	262.0	704.0	808.5	522.5
FD.169-D/Z69	LHN63	118.0	410.0	455.0	203.0
	LHN71	139.0	431.5	486.5	224.5
	LEN80M	154.5	483.0	543.0	276.0
	LEN90L	174.0	544.0	614.0	337.0
	LEN90S	174.0	519.0	589.0	312.0
	LEN100L	197.0	621.0	699.5	414.0
	LEN112M	222.0	640.5	713.5	433.5
	LEN132S	262.0	684.5	789.0	477.5
	LEN132M	262.0	729.5	834.0	522.5
FD.189-D/Z69	LHN63	118.0	410.0	455.0	203.0
	LHN71	139.0	431.5	486.5	224.5
	LEN80M	154.5	483.0	543.0	276.0
	LEN90L	174.0	544.0	614.0	337.0
	LEN90S	174.0	519.0	589.0	312.0
	LEN100L	197.0	621.0	699.5	414.0
	LEN112M	222.0	640.5	713.5	433.5
	LEN132S	262.0	684.5	789.0	477.5
	LEN132M	262.0	729.5	834.0	522.5

[1)] Dimensions for LHN(S3-75%), LEN(IE2)

Protection covers

Protection cover for hollow shaft

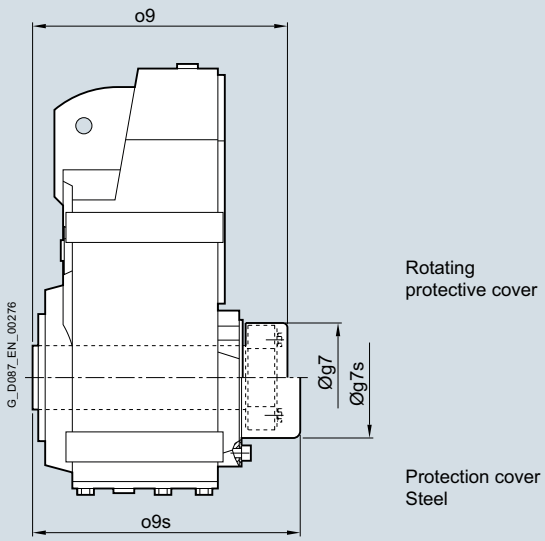
F.A, F.AF, F.AZ, F.AD



Gearbox type	F.A..29	F.A..39	F.A..49	F.A..69	F.A..79	F.A..89	F.A..109	F.A..129	F.A..149	F.A..169	F.A..189
Protection cover											
g7	67.0	82.5	80.0	99.0	99.0	137.0	187.0	187.0	218.0	257.5	309.5
o9	120.5	134.0	177.0	179.0	192.5	232.5	281.5	348.0	425.0	520.0	623.5

Protection cover for hollow shaft with shrink disk

F.AS, F.AFS, F.AZS, F.ADS



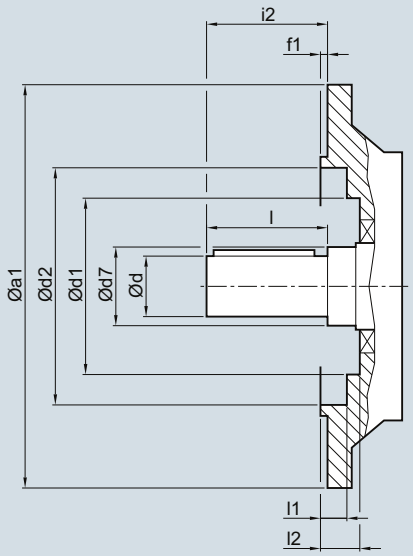
Gearbox type	F.A..29	F.A..39	F.A..49	F.A..69	F.A..79	F.A..89	F.A..109	F.A..129	F.A..149	F.A..169	F.A..189
Rotating protective cover with shrink disk version											
max. motor frame size that can be mounted	80	90	100	100	132	160	200	225	250	250	250
g7	57.0	76.0	84.0	84.0	94.0	119.0	145.0	159.0	201.0	234.0	267.0
o9	132.5	149.5	182.0	198.0	215.5	247.5	282.5	348.5	408.5	496.0	593.5
Protection cover											
max. motor frame size that can be mounted	80	80	100	100	112	132	200	225	250	250	250
g7s	58.0	82.5	86.0	99.0	99.0	137.0	187.0	187.0	218.0	257.5	309.5
o9s	135.5	170.0	198.0	210.0	223.5	284.5	308.5	375.0	425.0	520.0	623.5

4

Inner contour of the flange design

Notes regarding the design of the customer's interface for the solid shaft design

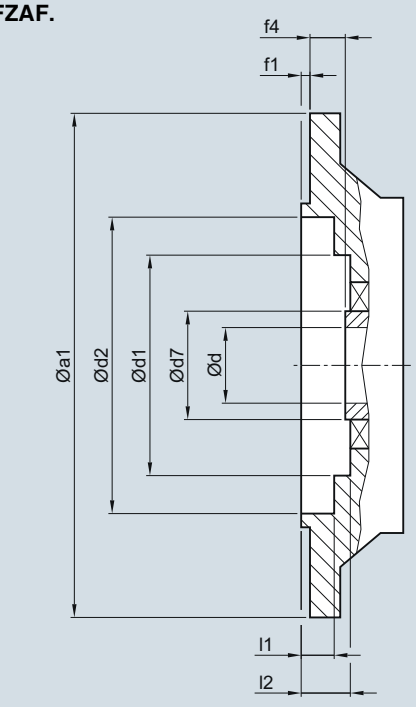
FDF/FZF



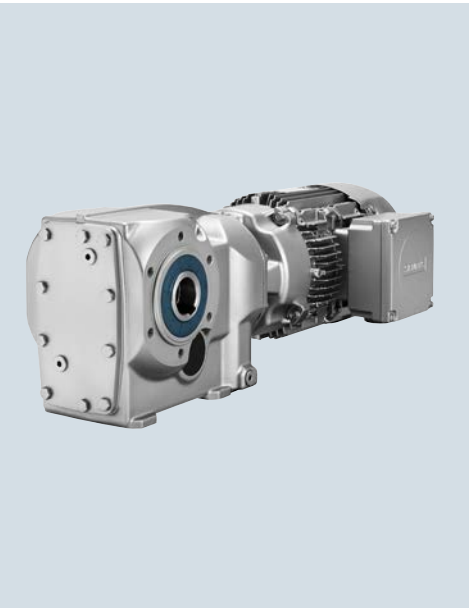
Gearbox type	a1	d	d7	d1	d2	f1	i2	l	l1	l2
FDF/FZF29	120	25	40	-	70	3.0	40	40	24.0	-
	160	25	40	70	101	3.5	40	40	8.5	24.5
FDF/FZF39	160	25	30	-	100	3.5	50	50	5.0	-
		35	45	80	102	3.5	46	70	2.0	29.5
FDF/FZF49	200	30	35	-	118	3.5	60	60	5.5	-
		40	50	90	120	3.5	55	80	4.0	30.5
FDF/FZF69	250	35	45	-	165	4.0	70	70	6.5	-
FDF/FZF79	250	40	55	-	165	4.0	80	80	6.5	-
		50	55	104	165	4.0	77	100	2.0	29.5
FDF/FZF89	300	50	55	-	165	4.0	100	100	8.0	-
FDF/FZF109	350	60	65	-	235	5.0	120	120	9.0	-
		80	85	184	210	5.0	134	170	13.0	45.0
FDF/FZF129	450	70	75	-	336	5.0	140	140	9.0	-
		90	95	184	336	5.0	128.5	170	16.5	48.5
FDF/FZF149	450	90	100	-	336	5.0	170	170	10.0	-
		100	120	214	330	5.0	169	210	10.5	50.0
FDF/FZF169	550	110	120	-	427	5.0	210	210	10.0	-
		120	140	254	426	5.0	162	210	14.5	56.0
FDF/FZF189	660	120	160	-	517	6.0	210	210	11.0	-
		140	160	306	518	6.0	190	250	6.0	62.0
With VLplus reinforced bearing system (G30)										
FDF/FZF89	300	60	70	143	218	4.0	120	120	1.5	8
FDF/FZF109	350	70	85	190	234	5.0	140	140	2.0	4
FDF/FZF129	450	90	95	-	336	5.0	170	170	16.5	-
FDF/FZF149	450	100	120	225	336	5.0	210	210	10.5	11
FDF/FZF169	550	120	140	-	426	5.0	210	210	19.5	-

Notes regarding the design of the customer's interface for the hollow shaft design

FDAF./FZAF.



Gearbox type	a1	d	d7	d1	d2	f1	f4	l1	l2
FDAF./FZAF.29	120	25	40	-	70	3.0	20.0	24.0	-
	160	25	40	70	101	3.5	20.0	8.5	24.5
FDAF./FZAF.39	160	25	45	80	102	3.5	24.0	2.0	29.5
		30							
FDAF./FZAF.49	200	30	50	90	120	3.5	25.0	4.0	30.5
		35							
FDAF./FZAF.69	250	40	55	104	165	4.0	23.5	2.0	29.5
FDAF./FZAF.79	250	40	55	104	165	4.0	23.0	2.0	29.5
FDAF./FZAF.89	300	50	70	135	215	4.0	37.0	2.0	44.5
FDAF./FZAF.109	350	60	85	184	210	5.0	36.0	13.0	45.0
		70	90						
FDAF./FZAF.129	450	70	95	184	336	5.0	41.5	16.5	48.5
FDAF./FZAF.149	450	80	120	214	330	5.0	41.0	10.5	50.0
		90							
FDAF./FZAF.169	550	100	140	254	426	5.0	56.0	14.5	56.0
		110							
FDAF./FZAF.189	660	120	160	306	518	6.0	66.0	6.0	62.0
With VLplus reinforced bearing system (G30)									
FDAF./FZAF.89	300	50	70	143	218	4.0	0	1.5	8
FDAF./FZAF.109	350	60	85	190	234	5.0	0	2.0	4
FDAF./FZAF.129	450	70	95	-	336	5.0	0	16.5	-
FDAF./FZAF.149	450	90	120	225	330	5.0	0	10.5	11
FDAF./FZAF.169	550	100	140	-	426	5.0	0	14.5	-



5/2 **Orientation**

5/3 **Geared motors up to 55 kW**
5/3 Selection and ordering data

5/143 **Transmission ratios and torques**
5/143 Selection and ordering data

5/157 **Transmission ratios and torques for very low speeds**
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5/167 **Dimensions**
5/167 Dimensional drawing overview
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Protection covers
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5/231 Protection cover for hollow shaft with shrink disk
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Orientation

SIMOGEAR bevel geared motor B

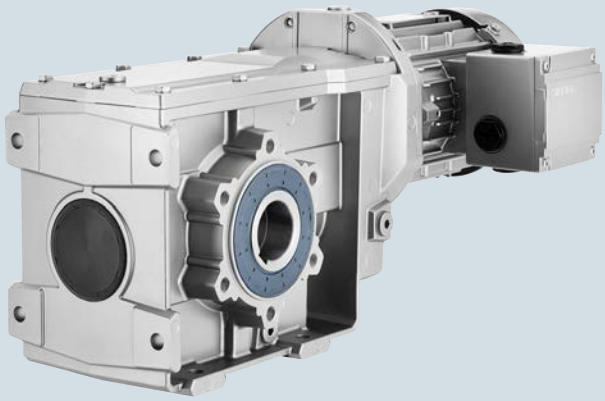


Fig. 5/1 Bevel geared motor B

Gearbox designation	Number of frame sizes	Maximum output torque	Transmission ratio	Maximum motor power
		T_{2N}	i	P_1
		Nm	-	kW
B19 … B49 (2-stage)	4	50… 450	3.5 … 59	7.5

SIMOGEAR bevel geared motor K

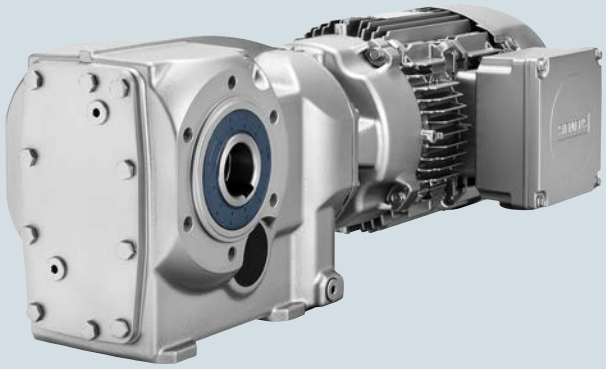


Fig. 5/2 Bevel geared motor K

Gearbox designation	Number of frame sizes	Maximum output torque	Transmission ratio	Maximum motor power
		T_{2N}	i	P_1
		Nm	-	kW
K39 … K189 (3-stage)	10	150 … 19 500	5.7 … 237	55
K.39-D/Z19 … K189-DZ69 (5-stage and 6-stage)	10	220 … 19 500	170 … 14 900	7.5

SIMOGEAR bevel geared motors are available in the following versions:

Transmission stages
- 2-stage or 3-stage bevel geared motors
- 5-stage or 6-stage bevel geared motors for very low output speeds

Versions
- Shaft-mounted design
- Flange-mounted design with or without VLplus reinforced bearing systems
- Design with integrated housing flange
- Foot-mounted design

Mounting
- Hollow shaft design with feather key
- Hollow shaft design with splined shaft
- Hollow shaft design with shrink disk
- Solid shaft design with and without feather key

For 2-stage bevel gearboxes B, the torque arm is supplied loose to enable it to be mounted as required on site. The position of the torque arm can be freely selected.

Selection and ordering data

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**B.19-LHN63MB4**							
	33	26	42.10	1900	1.9	9	**2KJ4500 - ■ BC21 - ■ ■ A2**	
	37	23	37.28	1900	2.2	9	**2KJ4500 - ■ BC21 - ■ ■ X1**	
	43	20	32.39	1900	2.5	9	**2KJ4500 - ■ BC21 - ■ ■ W1**	
	47	18	29.44	1900	2.8	9	**2KJ4500 - ■ BC21 - ■ ■ V1**	
	56	15	25.06	1900	3.2	9	**2KJ4500 - ■ BC21 - ■ ■ U1**	
	61	14	22.78	1900	3.6	9	**2KJ4500 - ■ BC21 - ■ ■ T1**	
	70	12	19.86	1900	4.1	9	**2KJ4500 - ■ BC21 - ■ ■ S1**	
	78	11	17.78	1900	4.6	9	**2KJ4500 - ■ BC21 - ■ ■ R1**	
	88	9.7	15.79	1900	5.1	9	**2KJ4500 - ■ BC21 - ■ ■ Q1**	
	96	9	14.57	1900	5.6	9	**2KJ4500 - ■ BC21 - ■ ■ P1**	
	110	7.8	12.66	1900	6.4	9	**2KJ4500 - ■ BC21 - ■ ■ N1**	
	127	6.8	11.00	1900	7.4	9	**2KJ4500 - ■ BC21 - ■ ■ M1**	
	140	6.1	9.93	1900	8.2	9	**2KJ4500 - ■ BC21 - ■ ■ L1**	
	149	5.8	9.35	1900	8.7	9	**2KJ4500 - ■ BC21 - ■ ■ K1**	
	171	5	8.15	1900	9.4	9	**2KJ4500 - ■ BC21 - ■ ■ J1**	
	177	4.8	7.87	1900	7.8	9	**2KJ4500 - ■ BC21 - ■ ■ H1**	
	200	4.3	6.99	1900	8.8	9	**2KJ4500 - ■ BC21 - ■ ■ G1**	
	216	4	6.45	1900	9.8	9	**2KJ4500 - ■ BC21 - ■ ■ F1**	
	249	3.5	5.61	1900	11	9	**2KJ4500 - ■ BC21 - ■ ■ E1**	
	286	3	4.87	1900	12	9	**2KJ4500 - ■ BC21 - ■ ■ D1**	
	317	2.7	4.40	1900	12	9	**2KJ4500 - ■ BC21 - ■ ■ C1**	
	337	2.6	4.14	1900	13	9	**2KJ4500 - ■ BC21 - ■ ■ B1**	
	386	2.2	3.61	1900	14	9	**2KJ4500 - ■ BC21 - ■ ■ A1**	
	B.19-LHN63ME6							
	21	41	42.10	1900	1.2	9	**2KJ4500 - ■ BF21 - ■ ■ A2**	**P01**
	24	36	37.28	1900	1.4	9	**2KJ4500 - ■ BF21 - ■ ■ X1**	**P01**
	27	31	32.39	1900	1.6	9	**2KJ4500 - ■ BF21 - ■ ■ W1**	**P01**
	30	28	29.44	1900	1.8	9	**2KJ4500 - ■ BF21 - ■ ■ V1**	**P01**
	B.29-LHN63MB4							
	30	29	46.85	4200	3.8	11	**2KJ4501 - ■ BC21 - ■ ■ B2**	
	34	26	41.56	4200	4.3	11	**2KJ4501 - ■ BC21 - ■ ■ A2**	
	39	22	36.06	4200	5.0	11	**2KJ4501 - ■ BC21 - ■ ■ X1**	
	43	20	32.78	4200	5.4	11	**2KJ4501 - ■ BC21 - ■ ■ W1**	
	50	17	28.11	4200	6.4	11	**2KJ4501 - ■ BC21 - ■ ■ V1**	
	55	16	25.56	4200	7.0	11	**2KJ4501 - ■ BC21 - ■ ■ U1**	
	62	14	22.41	4200	8.0	11	**2KJ4501 - ■ BC21 - ■ ■ T1**	
	70	12	20.00	4200	8.9	11	**2KJ4501 - ■ BC21 - ■ ■ S1**	
	78	11	17.82	4200	10	11	**2KJ4501 - ■ BC21 - ■ ■ R1**	
	85	10	16.45	4200	11	11	**2KJ4501 - ■ BC21 - ■ ■ Q1**	
	97	8.9	14.40	4200	12	11	**2KJ4501 - ■ BC21 - ■ ■ P1**	
	110	7.8	12.63	4200	14	11	**2KJ4501 - ■ BC21 - ■ ■ N1**	
	B.29-LHN63ME6							
	19	45	46.85	4200	2.4	11	**2KJ4501 - ■ BF21 - ■ ■ B2**	**P01**
	21	40	41.56	4200	2.7	11	**2KJ4501 - ■ BF21 - ■ ■ A2**	**P01**
	25	35	36.06	4200	3.2	11	**2KJ4501 - ■ BF21 - ■ ■ X1**	**P01**
	27	32	32.78	4200	3.5	11	**2KJ4501 - ■ BF21 - ■ ■ W1**	**P01**

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**K.39-LHN63ME6**							
	5.7	152	157.32	6300	1.4	16	**2KJ4504 - ■ BF21 - ■ ■ J2**	**P01**
	6.4	135	139.54	6300	1.6	16	**2KJ4504 - ■ BF21 - ■ ■ H2**	**P01**
	7.4	117	121.07	6400	1.9	16	**2KJ4504 - ■ BF21 - ■ ■ G2**	**P01**
	8.1	106	110.06	6500	2.1	16	**2KJ4504 - ■ BF21 - ■ ■ F2**	**P01**
	K.39-Z19-LHN63MB4							
	2.4	245	581.00	5900	0.89	19	**2KJ4520 - ■ BC21 - ■ ■ N1**	
	2.6	225	536.00	6000	0.97	19	**2KJ4520 - ■ BC21 - ■ ■ M1**	
	3.0	197	466.00	6100	1.1	19	**2KJ4520 - ■ BC21 - ■ ■ L1**	
	3.4	171	405.00	6200	1.3	19	**2KJ4520 - ■ BC21 - ■ ■ K1**	
	3.8	154	365.00	6300	1.4	19	**2KJ4520 - ■ BC21 - ■ ■ J1**	
	4.1	145	343.72	6300	1.5	19	**2KJ4520 - ■ BC21 - ■ ■ H1**	
	4.2	139	329.29	6300	1.6	19	**2KJ4520 - ■ BC21 - ■ ■ G1**	
	4.9	121	287.07	6400	1.8	19	**2KJ4520 - ■ BC21 - ■ ■ F1**	
	5.3	112	264.86	6400	2.0	19	**2KJ4520 - ■ BC21 - ■ ■ E1**	
	K.49-Z19-LHN63MB4							
	1.2	490	1 163.00	7200	0.85	26	**2KJ4522 - ■ BC21 - ■ ■ T1**	
	1.4	425	1 010.00	7700	0.98	26	**2KJ4522 - ■ BC21 - ■ ■ S1**	
	1.5	385	912.00	8100	1.1	26	**2KJ4522 - ■ BC21 - ■ ■ R1**	
	1.6	360	858.00	8200	1.2	26	**2KJ4522 - ■ BC21 - ■ ■ Q1**	
	1.9	315	748.00	8500	1.3	26	**2KJ4522 - ■ BC21 - ■ ■ P1**	
	2.0	290	690.00	8500	1.4	26	**2KJ4522 - ■ BC21 - ■ ■ N1**	
	2.3	250	600.00	8700	1.7	26	**2KJ4522 - ■ BC21 - ■ ■ M1**	
	2.7	220	521.00	8700	1.9	26	**2KJ4522 - ■ BC21 - ■ ■ L1**	
	K.69-Z19-LHN63MB4							
	0.85	690	1 633.00	10300	0.87	33	**2KJ4524 - ■ BC21 - ■ ■ V1**	
	0.96	610	1 450.00	10800	0.98	33	**2KJ4524 - ■ BC21 - ■ ■ U1**	
	1.0	565	1 338.00	10900	1.1	33	**2KJ4524 - ■ BC21 - ■ ■ T1**	
	1.2	490	1 163.00	11100	1.2	33	**2KJ4524 - ■ BC21 - ■ ■ S1**	
	1.4	425	1 010.00	11200	1.4	33	**2KJ4524 - ■ BC21 - ■ ■ R1**	
	1.5	385	912.00	11300	1.6	33	**2KJ4524 - ■ BC21 - ■ ■ Q1**	
	1.6	360	858.00	11400	1.7	33	**2KJ4524 - ■ BC21 - ■ ■ P1**	
	1.9	315	748.00	11500	1.9	33	**2KJ4524 - ■ BC21 - ■ ■ N1**	
	K.79-Z19-LHN63MB4							
	0.62	955	2 266.00	13700	0.86	38	**2KJ4526 - ■ BC21 - ■ ■ W1**	
	0.69	855	2 029.00	13900	0.96	38	**2KJ4526 - ■ BC21 - ■ ■ V1**	
	0.77	760	1 801.00	14000	1.1	38	**2KJ4526 - ■ BC21 - ■ ■ U1**	
	0.84	700	1 663.00	14200	1.2	38	**2KJ4526 - ■ BC21 - ■ ■ T1**	
	0.97	610	1 444.00	14300	1.3	38	**2KJ4526 - ■ BC21 - ■ ■ S1**	
	1.1	530	1 255.00	14400	1.5	38	**2KJ4526 - ■ BC21 - ■ ■ R1**	
	1.2	475	1 133.00	14400	1.7	38	**2KJ4526 - ■ BC21 - ■ ■ Q1**	
	1.3	450	1 066.00	14400	1.8	38	**2KJ4526 - ■ BC21 - ■ ■ P1**	
	K.89-Z39-LHN63MB4							
	0.32	1 830	4 330.00	18100	0.87	62	**2KJ4528 - ■ BC21 - ■ ■ C2**	
	0.38	1 560	3 705.00	18100	1.0	62	**2KJ4528 - ■ BC21 - ■ ■ B2**	
	0.41	1 420	3 368.00	18100	1.1	62	**2KJ4528 - ■ BC21 - ■ ■ A2**	
	0.47	1 260	2 977.00	18100	1.3	62	**2KJ4528 - ■ BC21 - ■ ■ W1**	
	0.52	1 140	2 706.00	18100	1.4	62	**2KJ4528 - ■ BC21 - ■ ■ V1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**K.89-Z39-LHN63MB4**							
	0.59	1 000	2 370.00	18 100	1.6	62	**2KJ4528 - ■ BC21 - ■ ■ U1**	
	0.64	925	2 188.00	18 100	1.7	62	**2KJ4528 - ■ BC21 - ■ ■ T1**	
	0.72	820	1 937.00	18 100	2.0	62	**2KJ4528 - ■ BC21 - ■ ■ S1**	
	K.109-D39-LHN63MB4							
	0.16	3 590	8 583.00	24 500	0.81	99	**2KJ4532 - ■ BC21 - ■ ■ C1**	
	0.19	3 150	7 526.00	24 500	0.92	99	**2KJ4532 - ■ BC21 - ■ ■ B1**	
	0.2	2 860	6 828.00	24 500	1.0	99	**2KJ4532 - ■ BC21 - ■ ■ A1**	
	K.109-Z39-LHN63MB4							
	0.21	2 800	6 638.00	24 500	1.0	99	**2KJ4531 - ■ BC21 - ■ ■ F2**	
	0.24	2 490	5 903.00	24 500	1.2	99	**2KJ4531 - ■ BC21 - ■ ■ E2**	
	0.27	2 190	5 183.00	24 500	1.3	99	**2KJ4531 - ■ BC21 - ■ ■ D2**	
	0.3	1 990	4 712.00	24 500	1.5	99	**2KJ4531 - ■ BC21 - ■ ■ C2**	
	0.35	1 700	4 031.00	24 500	1.7	99	**2KJ4531 - ■ BC21 - ■ ■ B2**	
	0.38	1 550	3 665.00	24 500	1.9	99	**2KJ4531 - ■ BC21 - ■ ■ A2**	
	K.129-D39-LHN63MB4							
	0.11	5 510	13 173.00	36 500	0.8	150	**2KJ4534 - ■ BC21 - ■ ■ G1**	
	0.12	4 830	11 550.00	37 200	0.91	150	**2KJ4534 - ■ BC21 - ■ ■ F1**	
	0.14	4 310	10 309.00	37 700	1.0	150	**2KJ4534 - ■ BC21 - ■ ■ E1**	
	0.15	3 840	9 188.00	38 100	1.1	150	**2KJ4534 - ■ BC21 - ■ ■ D1**	
	0.16	3 550	8 481.00	38 400	1.2	150	**2KJ4534 - ■ BC21 - ■ ■ C1**	
	0.19	3 110	7 425.00	38 900	1.4	150	**2KJ4534 - ■ BC21 - ■ ■ B1**	
	0.21	2 720	6 510.00	39 200	1.6	150	**2KJ4534 - ■ BC21 - ■ ■ A1**	
	K.129-Z39-LHN63MB4							
	0.24	2 430	5 743.00	39 500	1.8	150	**2KJ4533 - ■ BC21 - ■ ■ A2**	
	0.27	2 160	5 106.00	39 800	2.0	150	**2KJ4533 - ■ BC21 - ■ ■ X1**	
	K.149-D49-LHN63MB4							
	0.1	5 680	13 575.00	65 000	1.4	244	**2KJ4536 - ■ BC21 - ■ ■ L1**	
	0.11	5 170	12 341.00	65 000	1.5	244	**2KJ4536 - ■ BC21 - ■ ■ K1**	
	0.13	4 570	10 908.00	65 000	1.8	244	**2KJ4536 - ■ BC21 - ■ ■ J1**	
	0.14	4 150	9 917.00	65 000	1.9	244	**2KJ4536 - ■ BC21 - ■ ■ H1**	
0.12	**B.19-LHN63MC4**							
	32	36	42.10	1 900	1.4	9	**2KJ4500 - ■ BD21 - ■ ■ A2**	
	36	32	37.28	1 900	1.6	9	**2KJ4500 - ■ BD21 - ■ ■ X1**	
	41	28	32.39	1 900	1.8	9	**2KJ4500 - ■ BD21 - ■ ■ W1**	
	45	25	29.44	1 900	2.0	9	**2KJ4500 - ■ BD21 - ■ ■ V1**	
	53	22	25.06	1 900	2.3	9	**2KJ4500 - ■ BD21 - ■ ■ U1**	
	59	20	22.78	1 900	2.6	9	**2KJ4500 - ■ BD21 - ■ ■ T1**	
	67	17	19.86	1 900	2.9	9	**2KJ4500 - ■ BD21 - ■ ■ S1**	
	75	15	17.78	1 900	3.3	9	**2KJ4500 - ■ BD21 - ■ ■ R1**	
	85	14	15.79	1 900	3.7	9	**2KJ4500 - ■ BD21 - ■ ■ Q1**	
	92	12	14.57	1 900	4.0	9	**2KJ4500 - ■ BD21 - ■ ■ P1**	
	105	11	12.66	1 900	4.6	9	**2KJ4500 - ■ BD21 - ■ ■ N1**	
	121	9.4	11.00	1 900	5.3	9	**2KJ4500 - ■ BD21 - ■ ■ M1**	
	134	8.5	9.93	1 900	5.9	9	**2KJ4500 - ■ BD21 - ■ ■ L1**	
	143	8	9.35	1 900	6.2	9	**2KJ4500 - ■ BD21 - ■ ■ K1**	
	164	7	8.15	1 900	6.7	9	**2KJ4500 - ■ BD21 - ■ ■ J1**	
	170	6.8	7.87	1 900	5.6	9	**2KJ4500 - ■ BD21 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**B.19-LHN63MC4**							
	191	6	6.99	1900	6.3	9	**2KJ4500 - ■ BD21 - ■ ■ G1**	
	207	5.5	6.45	1900	7.0	9	**2KJ4500 - ■ BD21 - ■ ■ F1**	
	238	4.8	5.61	1900	7.7	9	**2KJ4500 - ■ BD21 - ■ ■ E1**	
	274	4.2	4.87	1900	8.4	9	**2KJ4500 - ■ BD21 - ■ ■ D1**	
	303	3.8	4.40	1900	9.0	9	**2KJ4500 - ■ BD21 - ■ ■ C1**	
	322	3.6	4.14	1900	9.3	9	**2KJ4500 - ■ BD21 - ■ ■ B1**	
	370	3.1	3.61	1900	10	9	**2KJ4500 - ■ BD21 - ■ ■ A1**	
	B.19-LHN63MF6							
	21	55	42.10	1900	0.91	10	**2KJ4500 - ■ BG21 - ■ ■ A2**	**P01**
	24	48	37.28	1900	1.0	10	**2KJ4500 - ■ BG21 - ■ ■ X1**	**P01**
	27	42	32.39	1900	1.2	10	**2KJ4500 - ■ BG21 - ■ ■ W1**	**P01**
	30	38	29.44	1900	1.3	10	**2KJ4500 - ■ BG21 - ■ ■ V1**	**P01**
	B.29-LHN63MC4							
	28	40	46.85	4200	2.7	10	**2KJ4501 - ■ BD21 - ■ ■ B2**	
	32	36	41.56	4200	3.1	10	**2KJ4501 - ■ BD21 - ■ ■ A2**	
	37	31	36.06	4200	3.6	10	**2KJ4501 - ■ BD21 - ■ ■ X1**	
	41	28	32.78	4200	3.9	10	**2KJ4501 - ■ BD21 - ■ ■ W1**	
	47	24	28.11	4200	4.6	10	**2KJ4501 - ■ BD21 - ■ ■ V1**	
	52	22	25.56	4200	5.0	10	**2KJ4501 - ■ BD21 - ■ ■ U1**	
	60	19	22.41	4200	5.7	10	**2KJ4501 - ■ BD21 - ■ ■ T1**	
	67	17	20.00	4200	6.4	10	**2KJ4501 - ■ BD21 - ■ ■ S1**	
	75	15	17.82	4200	7.2	10	**2KJ4501 - ■ BD21 - ■ ■ R1**	
	81	14	16.45	4200	7.8	10	**2KJ4501 - ■ BD21 - ■ ■ Q1**	
	93	12	14.40	4200	8.9	10	**2KJ4501 - ■ BD21 - ■ ■ P1**	
	106	11	12.63	4200	10	10	**2KJ4501 - ■ BD21 - ■ ■ N1**	
	116	9.8	11.46	4200	11	10	**2KJ4501 - ■ BD21 - ■ ■ M1**	
	124	9.3	10.78	4200	12	10	**2KJ4501 - ■ BD21 - ■ ■ L1**	
	140	8.2	9.51	4100	14	10	**2KJ4501 - ■ BD21 - ■ ■ K1**	
	170	6.7	7.84	3800	11	10	**2KJ4501 - ■ BD21 - ■ ■ H1**	
	181	6.3	7.38	3700	12	10	**2KJ4501 - ■ BD21 - ■ ■ G1**	
	205	5.6	6.51	3600	13	10	**2KJ4501 - ■ BD21 - ■ ■ F1**	
	B.29-LHN63MF6							
	19	61	46.85	4200	1.8	11	**2KJ4501 - ■ BG21 - ■ ■ B2**	**P01**
	21	54	41.56	4200	2.0	11	**2KJ4501 - ■ BG21 - ■ ■ A2**	**P01**
	24	47	36.06	4200	2.3	11	**2KJ4501 - ■ BG21 - ■ ■ X1**	**P01**
	27	43	32.78	4200	2.6	11	**2KJ4501 - ■ BG21 - ■ ■ W1**	**P01**
	K.39-LHN63MC4							
	8.5	135	157.32	6300	1.6	16	**2KJ4504 - ■ BD21 - ■ ■ J2**	
	9.6	120	139.54	6400	1.8	16	**2KJ4504 - ■ BD21 - ■ ■ H2**	
	11	104	121.07	6500	2.1	16	**2KJ4504 - ■ BD21 - ■ ■ G2**	
	K.39-LHN63MF6							
	5.6	205	157.32	6100	1.1	17	**2KJ4504 - ■ BG21 - ■ ■ J2**	**P01**
	6.3	182	139.54	6200	1.2	17	**2KJ4504 - ■ BG21 - ■ ■ H2**	**P01**
	7.3	158	121.07	6300	1.4	17	**2KJ4504 - ■ BG21 - ■ ■ G2**	**P01**
	8.0	143	110.06	6300	1.5	17	**2KJ4504 - ■ BG21 - ■ ■ F2**	**P01**
	K.49-LHN63MF6							
	4.4	260	200.25	8600	1.6	24	**2KJ4505 - ■ BG21 - ■ ■ J2**	**P01**

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**K.49-LHN63MF6**							
	4.9	230	178.06	8700	1.8	24	**2KJ4505 - ■ BG21 - ■ ■ H2**	**P01**
	5.6	200	156.34	8800	2.1	24	**2KJ4505 - ■ BG21 - ■ ■ G2**	**P01**
	K.39-Z19-LHN63MC4							
	3.3	260	405.00	5900	0.84	19	**2KJ4520 - ■ BD21 - ■ ■ K1**	
	3.7	235	365.00	6000	0.93	19	**2KJ4520 - ■ BD21 - ■ ■ J1**	
	3.9	220	343.72	6000	0.99	19	**2KJ4520 - ■ BD21 - ■ ■ H1**	
	4.1	210	329.29	6100	1.0	19	**2KJ4520 - ■ BD21 - ■ ■ G1**	
	4.7	186	287.07	6200	1.2	19	**2KJ4520 - ■ BD21 - ■ ■ F1**	
	5.0	171	264.86	6200	1.3	19	**2KJ4520 - ■ BD21 - ■ ■ E1**	
	5.8	149	230.07	6300	1.5	19	**2KJ4520 - ■ BD21 - ■ ■ D1**	
	6.7	129	199.92	6400	1.7	19	**2KJ4520 - ■ BD21 - ■ ■ C1**	
	7.4	117	180.49	6400	1.9	19	**2KJ4520 - ■ BD21 - ■ ■ B1**	
	7.9	110	169.87	6400	2.0	19	**2KJ4520 - ■ BD21 - ■ ■ A1**	
	K.49-Z19-LHN63MC4							
	1.8	480	748.00	7300	0.87	26	**2KJ4522 - ■ BD21 - ■ ■ P1**	
	1.9	445	690.00	7600	0.94	26	**2KJ4522 - ■ BD21 - ■ ■ N1**	
	2.2	385	600.00	8100	1.1	26	**2KJ4522 - ■ BD21 - ■ ■ M1**	
	2.6	335	521.00	8400	1.2	26	**2KJ4522 - ■ BD21 - ■ ■ L1**	
	2.8	300	470.00	8500	1.4	26	**2KJ4522 - ■ BD21 - ■ ■ K1**	
	3.0	285	443.00	8600	1.5	26	**2KJ4522 - ■ BD21 - ■ ■ J1**	
	3.1	280	437.00	8600	1.5	26	**2KJ4522 - ■ BD21 - ■ ■ H1**	
	3.2	265	411.00	8600	1.6	26	**2KJ4522 - ■ BD21 - ■ ■ G1**	
	3.7	230	358.00	8700	1.8	26	**2KJ4522 - ■ BD21 - ■ ■ F1**	
	4.0	210	330.56	8800	2.0	26	**2KJ4522 - ■ BD21 - ■ ■ E1**	
	K.69-Z19-LHN63MC4							
	1.1	750	1 163.00	9800	0.8	33	**2KJ4524 - ■ BD21 - ■ ■ S1**	
	1.3	650	1 010.00	10500	0.92	33	**2KJ4524 - ■ BD21 - ■ ■ R1**	
	1.5	585	912.00	10800	1.0	33	**2KJ4524 - ■ BD21 - ■ ■ Q1**	
	1.6	555	858.00	10900	1.1	33	**2KJ4524 - ■ BD21 - ■ ■ P1**	
	1.8	480	748.00	11100	1.2	33	**2KJ4524 - ■ BD21 - ■ ■ N1**	
	1.9	445	690.00	11200	1.3	33	**2KJ4524 - ■ BD21 - ■ ■ M1**	
	2.2	385	600.00	11300	1.5	33	**2KJ4524 - ■ BD21 - ■ ■ L1**	
	2.6	335	521.00	11400	1.8	33	**2KJ4524 - ■ BD21 - ■ ■ K1**	
	2.8	300	470.00	11500	2.0	33	**2KJ4524 - ■ BD21 - ■ ■ J1**	
	K.79-Z19-LHN63MC4							
	0.92	930	1 444.00	13700	0.88	38	**2KJ4526 - ■ BD21 - ■ ■ S1**	
	1.1	810	1 255.00	13900	1.0	38	**2KJ4526 - ■ BD21 - ■ ■ R1**	
	1.2	730	1 133.00	14100	1.1	38	**2KJ4526 - ■ BD21 - ■ ■ Q1**	
	1.3	685	1 066.00	14200	1.2	38	**2KJ4526 - ■ BD21 - ■ ■ P1**	
	1.4	600	930.00	14400	1.4	38	**2KJ4526 - ■ BD21 - ■ ■ N1**	
	1.6	555	858.00	14400	1.5	38	**2KJ4526 - ■ BD21 - ■ ■ M1**	
	1.8	480	745.00	14400	1.7	38	**2KJ4526 - ■ BD21 - ■ ■ L1**	
	2.1	415	648.00	14400	2.0	38	**2KJ4526 - ■ BD21 - ■ ■ K1**	
	K.89-Z39-LHN63MC4							
	0.45	1 920	2 977.00	18100	0.83	62	**2KJ4528 - ■ BD21 - ■ ■ W1**	
	0.49	1 740	2 706.00	18100	0.91	62	**2KJ4528 - ■ BD21 - ■ ■ V1**	
	0.56	1 530	2 370.00	18100	1.0	62	**2KJ4528 - ■ BD21 - ■ ■ U1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**K.89-Z39-LHN63MC4**							
	0.61	1 410	2 188.00	18 100	1.1	62	**2KJ4528 - ■ BD21 - ■ ■ T1**	
	0.69	1 250	1 937.00	18 100	1.3	62	**2KJ4528 - ■ BD21 - ■ ■ S1**	
	0.83	1 040	1 612.00	18 100	1.5	62	**2KJ4528 - ■ BD21 - ■ ■ R1**	
	0.88	980	1 518.00	18 100	1.6	62	**2KJ4528 - ■ BD21 - ■ ■ Q1**	
	0.98	875	1 360.00	18 100	1.8	62	**2KJ4528 - ■ BD21 - ■ ■ P1**	
	K.109-Z39-LHN63MC4							
	0.26	3 350	5 183.00	24 500	0.87	99	**2KJ4531 - ■ BD21 - ■ ■ D2**	
	0.28	3 040	4 712.00	24 500	0.95	99	**2KJ4531 - ■ BD21 - ■ ■ C2**	
	0.33	2 600	4 031.00	24 500	1.1	99	**2KJ4531 - ■ BD21 - ■ ■ B2**	
	0.36	2 360	3 665.00	24 500	1.2	99	**2KJ4531 - ■ BD21 - ■ ■ A2**	
	0.41	2 090	3 239.00	24 500	1.4	99	**2KJ4531 - ■ BD21 - ■ ■ X1**	
	0.45	1 900	2 945.00	24 500	1.5	99	**2KJ4531 - ■ BD21 - ■ ■ W1**	
	0.52	1 660	2 579.00	24 500	1.7	99	**2KJ4531 - ■ BD21 - ■ ■ V1**	
	0.56	1 530	2 381.00	24 500	1.9	99	**2KJ4531 - ■ BD21 - ■ ■ U1**	
	K.129-D39-LHN63MC4							
	0.16	5 420	8 481.00	36 600	0.81	150	**2KJ4534 - ■ BD21 - ■ ■ C1**	
	0.18	4 750	7 425.00	37 300	0.93	150	**2KJ4534 - ■ BD21 - ■ ■ B1**	
	0.21	4 160	6 510.00	37 800	1.1	150	**2KJ4534 - ■ BD21 - ■ ■ A1**	
	K.129-Z39-LHN63MC4							
	0.23	3 710	5 743.00	38 300	1.2	150	**2KJ4533 - ■ BD21 - ■ ■ A2**	
	0.26	3 300	5 106.00	38 700	1.3	150	**2KJ4533 - ■ BD21 - ■ ■ X1**	
	0.3	2 890	4 483.00	39 100	1.5	150	**2KJ4533 - ■ BD21 - ■ ■ W1**	
	0.33	2 630	4 076.00	39 300	1.7	150	**2KJ4533 - ■ BD21 - ■ ■ V1**	
	0.38	2 250	3 487.00	39 700	2.0	150	**2KJ4533 - ■ BD21 - ■ ■ U1**	
	K.149-D49-LHN63MC4							
	0.1	8 680	13 575.00	65 000	0.92	244	**2KJ4536 - ■ BD21 - ■ ■ L1**	
	0.11	7 890	12 341.00	65 000	1.0	244	**2KJ4536 - ■ BD21 - ■ ■ K1**	
	0.12	6 970	10 908.00	65 000	1.1	244	**2KJ4536 - ■ BD21 - ■ ■ J1**	
	0.13	6 340	9 917.00	65 000	1.3	244	**2KJ4536 - ■ BD21 - ■ ■ H1**	
	0.15	5 550	8 686.00	65 000	1.4	244	**2KJ4536 - ■ BD21 - ■ ■ G1**	
	0.17	5 130	8 018.00	65 000	1.6	244	**2KJ4536 - ■ BD21 - ■ ■ F1**	
	0.19	4 540	7 099.00	65 000	1.8	244	**2KJ4536 - ■ BD21 - ■ ■ E1**	
	K.169-D49-LHN63MC4							
	0.09	9 550	14 931.00	70 000	1.4	415	**2KJ4538 - ■ BD21 - ■ ■ H1**	
	0.1	8 360	13 078.00	70 000	1.6	415	**2KJ4538 - ■ BD21 - ■ ■ G1**	
	0.11	7 720	12 072.00	70 000	1.7	415	**2KJ4538 - ■ BD21 - ■ ■ F1**	
	0.12	6 830	10 689.00	70 000	1.9	415	**2KJ4538 - ■ BD21 - ■ ■ E1**	
0.18	**B.19-LHN63MD4**							
	32	54	42.10	1 900	0.93	9	**2KJ4500 - ■ BE21 - ■ ■ A2**	
	36	48	37.28	1 900	1.1	9	**2KJ4500 - ■ BE21 - ■ ■ X1**	
	42	41	32.39	1 900	1.2	9	**2KJ4500 - ■ BE21 - ■ ■ W1**	
	46	38	29.44	1 900	1.3	9	**2KJ4500 - ■ BE21 - ■ ■ V1**	
	54	32	25.06	1 900	1.6	9	**2KJ4500 - ■ BE21 - ■ ■ U1**	
	59	29	22.78	1 900	1.7	9	**2KJ4500 - ■ BE21 - ■ ■ T1**	
	68	25	19.86	1 900	2.0	9	**2KJ4500 - ■ BE21 - ■ ■ S1**	
	76	23	17.78	1 900	2.2	9	**2KJ4500 - ■ BE21 - ■ ■ R1**	
	85	20	15.79	1 900	2.5	9	**2KJ4500 - ■ BE21 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.18	**B.19-LHN63MD4**							
	93	19	14.57	1900	2.7	9	**2KJ4500 - ■ BE21 - ■ ■ P1**	
	107	16	12.66	1900	3.1	9	**2KJ4500 - ■ BE21 - ■ ■ N1**	
	123	14	11.00	1900	3.6	9	**2KJ4500 - ■ BE21 - ■ ■ M1**	
	136	13	9.93	1900	4.0	9	**2KJ4500 - ■ BE21 - ■ ■ L1**	
	144	12	9.35	1900	4.2	9	**2KJ4500 - ■ BE21 - ■ ■ K1**	
	166	10	8.15	1900	4.5	9	**2KJ4500 - ■ BE21 - ■ ■ J1**	
	172	10	7.87	1900	3.8	9	**2KJ4500 - ■ BE21 - ■ ■ H1**	
	193	8.9	6.99	1900	4.3	9	**2KJ4500 - ■ BE21 - ■ ■ G1**	
	209	8.2	6.45	1900	4.7	9	**2KJ4500 - ■ BE21 - ■ ■ F1**	
	241	7.1	5.61	1900	5.2	9	**2KJ4500 - ■ BE21 - ■ ■ E1**	
	277	6.2	4.87	1900	5.6	9	**2KJ4500 - ■ BE21 - ■ ■ D1**	
	307	5.6	4.40	1900	6.1	9	**2KJ4500 - ■ BE21 - ■ ■ C1**	
	326	5.3	4.14	1900	6.3	9	**2KJ4500 - ■ BE21 - ■ ■ B1**	
	374	4.6	3.61	1900	6.7	9	**2KJ4500 - ■ BE21 - ■ ■ A1**	
	B.19-LHN71MD6							
	27	63	32.39	1900	0.8	11	**2KJ4500 - ■ CE21 - ■ ■ W1**	**P01**
	30	57	29.44	1900	0.88	11	**2KJ4500 - ■ CE21 - ■ ■ V1**	**P01**
	B.29-LHN63MD4							
	29	60	46.85	4200	1.8	11	**2KJ4501 - ■ BE21 - ■ ■ B2**	
	32	53	41.56	4200	2.1	11	**2KJ4501 - ■ BE21 - ■ ■ A2**	
	37	46	36.06	4200	2.4	11	**2KJ4501 - ■ BE21 - ■ ■ X1**	
	41	42	32.78	4200	2.6	11	**2KJ4501 - ■ BE21 - ■ ■ W1**	
	48	36	28.11	4200	3.1	11	**2KJ4501 - ■ BE21 - ■ ■ V1**	
	53	32	25.56	4200	3.4	11	**2KJ4501 - ■ BE21 - ■ ■ U1**	
	60	28	22.41	4200	3.9	11	**2KJ4501 - ■ BE21 - ■ ■ T1**	
	68	26	20.00	4200	4.3	11	**2KJ4501 - ■ BE21 - ■ ■ S1**	
	76	23	17.82	4200	4.8	11	**2KJ4501 - ■ BE21 - ■ ■ R1**	
	82	21	16.45	4200	5.3	11	**2KJ4501 - ■ BE21 - ■ ■ Q1**	
	94	18	14.40	4200	6.0	11	**2KJ4501 - ■ BE21 - ■ ■ P1**	
	107	16	12.63	4200	6.8	11	**2KJ4501 - ■ BE21 - ■ ■ N1**	
	118	15	11.46	4200	7.5	11	**2KJ4501 - ■ BE21 - ■ ■ M1**	
	125	14	10.78	4200	8.0	11	**2KJ4501 - ■ BE21 - ■ ■ L1**	
	142	12	9.51	4000	9.1	11	**2KJ4501 - ■ BE21 - ■ ■ K1**	
	164	10	8.25	3800	10	11	**2KJ4501 - ■ BE21 - ■ ■ J1**	
	172	10	7.84	3800	7.5	11	**2KJ4501 - ■ BE21 - ■ ■ H1**	
	183	9.4	7.38	3700	8.0	11	**2KJ4501 - ■ BE21 - ■ ■ G1**	
	207	8.3	6.51	3500	9.0	11	**2KJ4501 - ■ BE21 - ■ ■ F1**	
	239	7.2	5.65	3400	10	11	**2KJ4501 - ■ BE21 - ■ ■ E1**	
	266	6.5	5.07	3300	12	11	**2KJ4501 - ■ BE21 - ■ ■ D1**	
	282	6.1	4.78	3200	12	11	**2KJ4501 - ■ BE21 - ■ ■ C1**	
	321	5.4	4.21	3100	14	11	**2KJ4501 - ■ BE21 - ■ ■ B1**	
	B.29-LHN71MD6							
	19	90	46.85	4200	1.2	13	**2KJ4501 - ■ CE21 - ■ ■ B2**	**P01**
	21	80	41.56	4200	1.4	13	**2KJ4501 - ■ CE21 - ■ ■ A2**	**P01**
	25	70	36.06	4200	1.6	13	**2KJ4501 - ■ CE21 - ■ ■ X1**	**P01**
	27	63	32.78	4200	1.7	13	**2KJ4501 - ■ CE21 - ■ ■ W1**	**P01**

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.18	**B.39-LHN71MD6**							
	16	109	56.36	6900	2.3	18	**2KJ4502 - ■ CE21 - ■ ■ A2**	**P01**
	18	97	50.11	6900	2.2	18	**2KJ4502 - ■ CE21 - ■ ■ X1**	**P01**
	K.39-LHN63MD4							
	8.6	200	157.32	6100	1.1	16	**2KJ4504 - ■ BE21 - ■ ■ J2**	
	9.7	178	139.54	6200	1.2	16	**2KJ4504 - ■ BE21 - ■ ■ H2**	
	11	154	121.07	6300	1.4	16	**2KJ4504 - ■ BE21 - ■ ■ G2**	
	12	140	110.06	6300	1.6	16	**2KJ4504 - ■ BE21 - ■ ■ F2**	
	14	120	94.39	6400	1.8	16	**2KJ4504 - ■ BE21 - ■ ■ E2**	
	16	109	85.81	6400	2.0	16	**2KJ4504 - ■ BE21 - ■ ■ D2**	
	18	96	75.24	6500	2.3	16	**2KJ4504 - ■ BE21 - ■ ■ C2**	
	K.39-LHN71MD6							
	6.4	270	139.54	5800	0.82	18	**2KJ4504 - ■ CE21 - ■ ■ H2**	**P01**
	7.4	230	121.07	6000	0.94	18	**2KJ4504 - ■ CE21 - ■ ■ G2**	**P01**
	8.1	210	110.06	6100	1.0	18	**2KJ4504 - ■ CE21 - ■ ■ F2**	**P01**
	K.49-LHN63MD4							
	6.7	255	200.25	8600	1.6	23	**2KJ4505 - ■ BE21 - ■ ■ J2**	
	7.6	225	178.06	8700	1.9	23	**2KJ4505 - ■ BE21 - ■ ■ H2**	
	8.6	199	156.34	8800	2.1	23	**2KJ4505 - ■ BE21 - ■ ■ G2**	
	K.49-LHN71MD6							
	4.4	385	200.25	7900	1.1	26	**2KJ4505 - ■ CE21 - ■ ■ J2**	**P01**
	5.0	340	178.06	8200	1.2	26	**2KJ4505 - ■ CE21 - ■ ■ H2**	**P01**
	5.7	300	156.34	8500	1.4	26	**2KJ4505 - ■ CE21 - ■ ■ G2**	**P01**
	6.3	275	142.13	8600	1.5	26	**2KJ4505 - ■ CE21 - ■ ■ F2**	**P01**
	K.69-LHN71MD6							
	4.5	380	196.59	11300	1.6	33	**2KJ4507 - ■ CE21 - ■ ■ H2**	**P01**
	5.0	345	178.72	11400	1.7	33	**2KJ4507 - ■ CE21 - ■ ■ G2**	**P01**
	5.9	290	152.00	11500	2.0	33	**2KJ4507 - ■ CE21 - ■ ■ F2**	**P01**
	K.79-LHN71MD6							
	3.6	470	244.25	14400	1.7	38	**2KJ4508 - ■ CE21 - ■ ■ J2**	**P01**
	4.0	425	222.05	14400	1.9	38	**2KJ4508 - ■ CE21 - ■ ■ H2**	**P01**
	K.39-Z19-LHN63MD4							
	5.1	275	264.86	5800	0.8	19	**2KJ4520 - ■ BE21 - ■ ■ E1**	
	5.9	240	230.07	6000	0.92	19	**2KJ4520 - ■ BE21 - ■ ■ D1**	
	6.8	205	199.92	6100	1.1	19	**2KJ4520 - ■ BE21 - ■ ■ C1**	
	7.5	188	180.49	6200	1.2	19	**2KJ4520 - ■ BE21 - ■ ■ B1**	
	7.9	177	169.87	6200	1.2	19	**2KJ4520 - ■ BE21 - ■ ■ A1**	
	K.49-Z19-LHN63MD4							
	2.9	490	470.00	7200	0.86	26	**2KJ4522 - ■ BE21 - ■ ■ K1**	
	3.0	460	443.00	7500	0.91	26	**2KJ4522 - ■ BE21 - ■ ■ J1**	
	3.1	455	437.00	7500	0.92	26	**2KJ4522 - ■ BE21 - ■ ■ H1**	
	3.3	425	411.00	7700	0.98	26	**2KJ4522 - ■ BE21 - ■ ■ G1**	
	3.8	370	358.00	8200	1.1	26	**2KJ4522 - ■ BE21 - ■ ■ F1**	
	4.1	345	330.56	8400	1.2	26	**2KJ4522 - ■ BE21 - ■ ■ E1**	
	4.7	295	287.15	8500	1.4	26	**2KJ4522 - ■ BE21 - ■ ■ D1**	
	5.4	260	249.52	8600	1.6	26	**2KJ4522 - ■ BE21 - ■ ■ C1**	
	6.0	235	225.26	8700	1.8	26	**2KJ4522 - ■ BE21 - ■ ■ B1**	
	6.4	220	212.01	8700	1.9	26	**2KJ4522 - ■ BE21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.18	**K.69-Z19-LHN63MD4**							
	2.0	715	690.00	10100	0.83	33	**2KJ4524 - ■ BE21 - ■ ■ M1**	
	2.2	625	600.00	10700	0.96	33	**2KJ4524 - ■ BE21 - ■ ■ L1**	
	2.6	540	521.00	11000	1.1	33	**2KJ4524 - ■ BE21 - ■ ■ K1**	
	2.9	490	470.00	11100	1.2	33	**2KJ4524 - ■ BE21 - ■ ■ J1**	
	3.0	460	443.00	11100	1.3	33	**2KJ4524 - ■ BE21 - ■ ■ H1**	
	3.2	435	419.00	11200	1.4	33	**2KJ4524 - ■ BE21 - ■ ■ G1**	
	3.5	400	387.00	11300	1.5	33	**2KJ4524 - ■ BE21 - ■ ■ F1**	
	4.0	350	335.96	11400	1.7	33	**2KJ4524 - ■ BE21 - ■ ■ E1**	
	4.6	300	291.94	11500	2.0	33	**2KJ4524 - ■ BE21 - ■ ■ D1**	
	K.79-Z19-LHN63MD4							
	1.5	970	930.00	13600	0.85	38	**2KJ4526 - ■ BE21 - ■ ■ N1**	
	1.6	895	858.00	13800	0.92	38	**2KJ4526 - ■ BE21 - ■ ■ M1**	
	1.8	775	745.00	14000	1.1	38	**2KJ4526 - ■ BE21 - ■ ■ L1**	
	2.1	675	648.00	14200	1.2	38	**2KJ4526 - ■ BE21 - ■ ■ K1**	
	2.3	610	585.00	14300	1.3	38	**2KJ4526 - ■ BE21 - ■ ■ J1**	
	2.5	570	550.00	14400	1.4	38	**2KJ4526 - ■ BE21 - ■ ■ H1**	
	2.6	540	521.00	14400	1.5	38	**2KJ4526 - ■ BE21 - ■ ■ G1**	
	2.8	500	481.00	14400	1.6	38	**2KJ4526 - ■ BE21 - ■ ■ F1**	
	3.2	435	417.00	14400	1.9	38	**2KJ4526 - ■ BE21 - ■ ■ E1**	
	K.89-Z39-LHN63MD4							
	0.84	1680	1612.00	18100	0.95	62	**2KJ4528 - ■ BE21 - ■ ■ R1**	
	0.89	1580	1518.00	18100	1.0	62	**2KJ4528 - ■ BE21 - ■ ■ Q1**	
	0.99	1410	1360.00	18100	1.1	62	**2KJ4528 - ■ BE21 - ■ ■ P1**	
	1.2	1200	1158.00	18100	1.3	62	**2KJ4528 - ■ BE21 - ■ ■ N1**	
	K.109-Z39-LHN63MD4							
	0.42	3370	3239.00	24500	0.86	99	**2KJ4531 - ■ BE21 - ■ ■ X1**	
	0.46	3070	2945.00	24500	0.94	99	**2KJ4531 - ■ BE21 - ■ ■ W1**	
	0.52	2680	2579.00	24500	1.1	99	**2KJ4531 - ■ BE21 - ■ ■ V1**	
	0.57	2480	2381.00	24500	1.2	99	**2KJ4531 - ■ BE21 - ■ ■ U1**	
	0.64	2190	2108.00	24500	1.3	99	**2KJ4531 - ■ BE21 - ■ ■ T1**	
	0.77	1830	1755.00	24500	1.6	99	**2KJ4531 - ■ BE21 - ■ ■ S1**	
	0.82	1720	1651.00	24500	1.7	99	**2KJ4531 - ■ BE21 - ■ ■ R1**	
	0.91	1540	1480.00	24500	1.9	99	**2KJ4531 - ■ BE21 - ■ ■ Q1**	
	K.129-Z39-LHN63MD4							
	0.26	5320	5106.00	36700	0.83	150	**2KJ4533 - ■ BE21 - ■ ■ X1**	
	0.3	4670	4483.00	37300	0.94	150	**2KJ4533 - ■ BE21 - ■ ■ W1**	
	0.33	4250	4076.00	37700	1.0	150	**2KJ4533 - ■ BE21 - ■ ■ V1**	
	0.39	3630	3487.00	38300	1.2	150	**2KJ4533 - ■ BE21 - ■ ■ U1**	
	0.43	3300	3170.00	38700	1.3	150	**2KJ4533 - ■ BE21 - ■ ■ T1**	
	0.48	2920	2802.00	39000	1.5	150	**2KJ4533 - ■ BE21 - ■ ■ S1**	
	0.53	2650	2547.00	39300	1.7	150	**2KJ4533 - ■ BE21 - ■ ■ R1**	
	0.61	2320	2231.00	39600	1.9	150	**2KJ4533 - ■ BE21 - ■ ■ Q1**	
	0.66	2140	2060.00	39800	2.0	150	**2KJ4533 - ■ BE21 - ■ ■ P1**	
	K.149-D49-LHN63MD4							
	0.16	8960	8686.00	65000	0.89	244	**2KJ4536 - ■ BE21 - ■ ■ G1**	
	0.17	8270	8018.00	65000	0.97	244	**2KJ4536 - ■ BE21 - ■ ■ F1**	
	0.19	7320	7099.00	65000	1.1	244	**2KJ4536 - ■ BE21 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.18	**K.149-D49-LHN63MD4**							
	0.23	6 100	5 909.00	65000	1.3	244	**2KJ4536 - ■ BE21 - ■ ■ D1**	
	0.24	5 740	5 561.00	65000	1.4	244	**2KJ4536 - ■ BE21 - ■ ■ C1**	
	0.27	5 140	4 983.00	65000	1.6	244	**2KJ4536 - ■ BE21 - ■ ■ B1**	
	0.32	4 370	4 242.00	65000	1.8	244	**2KJ4536 - ■ BE21 - ■ ■ A1**	
	K.149-Z49-LHN63MD4							
	0.33	4 320	4 149.00	65000	1.8	244	**2KJ4535 - ■ BE21 - ■ ■ B2**	
	0.36	3 930	3 772.00	65000	2.0	244	**2KJ4535 - ■ BE21 - ■ ■ A2**	
	K.169-D49-LHN63MD4							
	0.09	15 400	14 931.00	70000	0.84	415	**2KJ4538 - ■ BE21 - ■ ■ H1**	
	0.1	13 500	13 078.00	70000	0.96	415	**2KJ4538 - ■ BE21 - ■ ■ G1**	
	0.11	12 400	12 072.00	70000	1.0	415	**2KJ4538 - ■ BE21 - ■ ■ F1**	
	0.13	11 000	10 689.00	70000	1.2	415	**2KJ4538 - ■ BE21 - ■ ■ E1**	
	0.15	9 180	8 896.00	70000	1.4	415	**2KJ4538 - ■ BE21 - ■ ■ D1**	
	0.16	8 640	8 373.00	70000	1.5	415	**2KJ4538 - ■ BE21 - ■ ■ C1**	
	0.18	7 740	7 502.00	70000	1.7	415	**2KJ4538 - ■ BE21 - ■ ■ B1**	
	0.21	6 590	6 387.00	70000	2.0	415	**2KJ4538 - ■ BE21 - ■ ■ A1**	
	K.169-Z49-LHN63MD4							
	0.22	6 510	6 248.00	70000	2.0	415	**2KJ4537 - ■ BE21 - ■ ■ C2**	
	K.189-D69-LHN63MD4							
	0.1	13 700	13 345.00	104000	1.4	656	**2KJ4541 - ■ BE21 - ■ ■ G1**	
	0.11	12 700	12 318.00	104000	1.5	656	**2KJ4541 - ■ BE21 - ■ ■ F1**	
	0.12	11 200	10 907.00	104000	1.7	656	**2KJ4541 - ■ BE21 - ■ ■ E1**	
0.25	**B.19-LHN71MB4**							
	42	57	32.39	1900	0.88	11	**2KJ4500 - ■ CC21 - ■ ■ W1**	
	46	52	29.44	1900	0.96	11	**2KJ4500 - ■ CC21 - ■ ■ V1**	
	54	44	25.06	1900	1.1	11	**2KJ4500 - ■ CC21 - ■ ■ U1**	
	59	40	22.78	1900	1.2	11	**2KJ4500 - ■ CC21 - ■ ■ T1**	
	68	35	19.86	1900	1.4	11	**2KJ4500 - ■ CC21 - ■ ■ S1**	
	76	31	17.78	1900	1.6	11	**2KJ4500 - ■ CC21 - ■ ■ R1**	
	86	28	15.79	1900	1.8	11	**2KJ4500 - ■ CC21 - ■ ■ Q1**	
	93	26	14.57	1900	1.9	11	**2KJ4500 - ■ CC21 - ■ ■ P1**	
	107	22	12.66	1900	2.2	11	**2KJ4500 - ■ CC21 - ■ ■ N1**	
	123	19	11.00	1900	2.6	11	**2KJ4500 - ■ CC21 - ■ ■ M1**	
	136	18	9.93	1900	2.9	11	**2KJ4500 - ■ CC21 - ■ ■ L1**	
	145	16	9.35	1900	3.0	11	**2KJ4500 - ■ CC21 - ■ ■ K1**	
	166	14	8.15	1900	3.3	11	**2KJ4500 - ■ CC21 - ■ ■ J1**	
	172	14	7.87	1900	2.7	11	**2KJ4500 - ■ CC21 - ■ ■ H1**	
	194	12	6.99	1900	3.1	11	**2KJ4500 - ■ CC21 - ■ ■ G1**	
	210	11	6.45	1900	3.4	11	**2KJ4500 - ■ CC21 - ■ ■ F1**	
	242	9.9	5.61	1900	3.7	11	**2KJ4500 - ■ CC21 - ■ ■ E1**	
	278	8.6	4.87	1900	4.1	11	**2KJ4500 - ■ CC21 - ■ ■ D1**	
	308	7.8	4.40	1900	4.4	11	**2KJ4500 - ■ CC21 - ■ ■ C1**	
	327	7.3	4.14	1900	4.5	11	**2KJ4500 - ■ CC21 - ■ ■ B1**	
	375	6.4	3.61	1900	4.9	11	**2KJ4500 - ■ CC21 - ■ ■ A1**	
	B.29-LHN71MB4							
	29	82	46.85	4200	1.3	12	**2KJ4501 - ■ CC21 - ■ ■ B2**	
	33	73	41.56	4200	1.5	12	**2KJ4501 - ■ CC21 - ■ ■ A2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**B.29-LHN71MB4**							
	38	64	36.06	4200	1.7	12	**2KJ4501 - ■ CC21 - ■ ■ X1**	
	41	58	32.78	4200	1.9	12	**2KJ4501 - ■ CC21 - ■ ■ W1**	
	48	50	28.11	4200	2.2	12	**2KJ4501 - ■ CC21 - ■ ■ V1**	
	53	45	25.56	4200	2.4	12	**2KJ4501 - ■ CC21 - ■ ■ U1**	
	60	40	22.41	4200	2.8	12	**2KJ4501 - ■ CC21 - ■ ■ T1**	
	68	35	20.00	4200	3.1	12	**2KJ4501 - ■ CC21 - ■ ■ S1**	
	76	31	17.82	4200	3.5	12	**2KJ4501 - ■ CC21 - ■ ■ R1**	
	82	29	16.45	4200	3.8	12	**2KJ4501 - ■ CC21 - ■ ■ Q1**	
	94	25	14.40	4200	4.3	12	**2KJ4501 - ■ CC21 - ■ ■ P1**	
	107	22	12.63	4200	4.9	12	**2KJ4501 - ■ CC21 - ■ ■ N1**	
	118	20	11.46	4200	5.4	12	**2KJ4501 - ■ CC21 - ■ ■ M1**	
	126	19	10.78	4100	5.8	12	**2KJ4501 - ■ CC21 - ■ ■ L1**	
	142	17	9.51	4000	6.6	12	**2KJ4501 - ■ CC21 - ■ ■ K1**	
	164	14	8.25	3800	7.6	12	**2KJ4501 - ■ CC21 - ■ ■ J1**	
	173	14	7.84	3700	5.4	12	**2KJ4501 - ■ CC21 - ■ ■ H1**	
	184	13	7.38	3700	5.8	12	**2KJ4501 - ■ CC21 - ■ ■ G1**	
	208	12	6.51	3500	6.5	12	**2KJ4501 - ■ CC21 - ■ ■ F1**	
	240	10	5.65	3400	7.5	12	**2KJ4501 - ■ CC21 - ■ ■ E1**	
	267	8.9	5.07	3300	8.3	12	**2KJ4501 - ■ CC21 - ■ ■ D1**	
	283	8.4	4.78	3200	8.8	12	**2KJ4501 - ■ CC21 - ■ ■ C1**	
	322	7.4	4.21	3100	10	12	**2KJ4501 - ■ CC21 - ■ ■ B1**	
	371	6.4	3.65	2900	11	12	**2KJ4501 - ■ CC21 - ■ ■ A1**	
	B.29-LHN71MF6							
	19	127	46.85	4000	0.87	14	**2KJ4501 - ■ CG21 - ■ ■ B2**	**P01**
	21	113	41.56	4100	0.98	14	**2KJ4501 - ■ CG21 - ■ ■ A2**	**P01**
	24	98	36.06	4200	1.1	14	**2KJ4501 - ■ CG21 - ■ ■ X1**	**P01**
	27	89	32.78	4200	1.2	14	**2KJ4501 - ■ CG21 - ■ ■ W1**	**P01**
	B.39-LHN71MB4							
	27	88	50.11	6900	2.4	17	**2KJ4502 - ■ CC21 - ■ ■ X1**	
	B.39-LHN71MF6							
	16	153	56.36	6900	1.6	19	**2KJ4502 - ■ CG21 - ■ ■ A2**	**P01**
	18	136	50.11	6900	1.5	19	**2KJ4502 - ■ CG21 - ■ ■ X1**	**P01**
	20	119	44.00	6900	2.1	19	**2KJ4502 - ■ CG21 - ■ ■ W1**	**P01**
	22	109	40.00	6900	2.1	19	**2KJ4502 - ■ CG21 - ■ ■ V1**	**P01**
	K.39-LHN71MB4							
	9.7	245	139.54	5900	0.89	18	**2KJ4504 - ■ CC21 - ■ ■ H2**	
	11	210	121.07	6100	1.0	18	**2KJ4504 - ■ CC21 - ■ ■ G2**	
	12	194	110.06	6100	1.1	18	**2KJ4504 - ■ CC21 - ■ ■ F2**	
	14	166	94.39	6200	1.3	18	**2KJ4504 - ■ CC21 - ■ ■ E2**	
	16	151	85.81	6300	1.5	18	**2KJ4504 - ■ CC21 - ■ ■ D2**	
	18	133	75.24	6400	1.7	18	**2KJ4504 - ■ CC21 - ■ ■ C2**	
	20	118	67.16	6400	1.9	18	**2KJ4504 - ■ CC21 - ■ ■ B2**	
	23	105	59.85	6500	2.1	18	**2KJ4504 - ■ CC21 - ■ ■ A2**	
	25	97	55.25	6500	2.3	18	**2KJ4504 - ■ CC21 - ■ ■ X1**	
	K.49-LHN71MB4							
	6.8	350	200.25	8300	1.2	25	**2KJ4505 - ■ CC21 - ■ ■ J2**	
	7.6	310	178.06	8500	1.3	25	**2KJ4505 - ■ CC21 - ■ ■ H2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**K.49-LHN71MB4**							
	8.7	275	156.34	8600	1.5	25	**2KJ4505 - ■ CC21 - ■ ■ G2**	
	9.5	250	142.13	8700	1.7	25	**2KJ4505 - ■ CC21 - ■ ■ F2**	
	11	210	121.60	8800	2.0	25	**2KJ4505 - ■ CC21 - ■ ■ E2**	
	12	195	110.55	8800	2.2	25	**2KJ4505 - ■ CC21 - ■ ■ D2**	
	K.49-LHN71MF6							
	4.9	480	178.06	7300	0.87	27	**2KJ4505 - ■ CG21 - ■ ■ H2**	**P01**
	5.6	420	156.34	7800	0.99	27	**2KJ4505 - ■ CG21 - ■ ■ G2**	**P01**
	6.2	385	142.13	8100	1.1	27	**2KJ4505 - ■ CG21 - ■ ■ F2**	**P01**
	K.69-LHN71MB4							
	6.9	345	196.59	11400	1.7	32	**2KJ4507 - ■ CC21 - ■ ■ H2**	
	7.6	315	178.72	11500	1.9	32	**2KJ4507 - ■ CC21 - ■ ■ G2**	
	K.69-LHN71MF6							
	4.5	530	196.59	11000	1.1	34	**2KJ4507 - ■ CG21 - ■ ■ H2**	**P01**
	4.9	485	178.72	11100	1.2	34	**2KJ4507 - ■ CG21 - ■ ■ G2**	**P01**
	5.8	410	152.00	11300	1.5	34	**2KJ4507 - ■ CG21 - ■ ■ F2**	**P01**
	6.4	375	138.18	11300	1.6	34	**2KJ4507 - ■ CG21 - ■ ■ E2**	**P01**
	K.79-LHN71MB4							
	5.5	430	244.25	14400	1.9	37	**2KJ4508 - ■ CC21 - ■ ■ J2**	
	6.1	390	222.05	14400	2.1	37	**2KJ4508 - ■ CC21 - ■ ■ H2**	
	K.79-LHN71MF6							
	3.6	660	244.25	14200	1.2	39	**2KJ4508 - ■ CG21 - ■ ■ J2**	**P01**
	4.0	600	222.05	14400	1.4	39	**2KJ4508 - ■ CG21 - ■ ■ H2**	**P01**
	4.7	510	188.85	14400	1.6	39	**2KJ4508 - ■ CG21 - ■ ■ G2**	**P01**
	5.1	465	171.69	14400	1.8	39	**2KJ4508 - ■ CG21 - ■ ■ F2**	**P01**
	K.39-Z19-LHN71MB4							
	7.7	260	180.49	5900	0.83	21	**2KJ4520 - ■ CC21 - ■ ■ B1**	
	8.2	245	169.87	5900	0.88	21	**2KJ4520 - ■ CC21 - ■ ■ A1**	
	K.49-Z19-LHN71MB4							
	3.9	520	358.00	7000	0.8	28	**2KJ4522 - ■ CC21 - ■ ■ F1**	
	4.2	480	330.56	7300	0.87	28	**2KJ4522 - ■ CC21 - ■ ■ E1**	
	4.9	420	287.15	7800	1.0	28	**2KJ4522 - ■ CC21 - ■ ■ D1**	
	5.6	365	249.52	8200	1.1	28	**2KJ4522 - ■ CC21 - ■ ■ C1**	
	6.2	330	225.26	8400	1.3	28	**2KJ4522 - ■ CC21 - ■ ■ B1**	
	6.6	310	212.01	8500	1.4	28	**2KJ4522 - ■ CC21 - ■ ■ A1**	
	K.69-Z19-LHN71MB4							
	3.0	685	470.00	10300	0.87	35	**2KJ4524 - ■ CC21 - ■ ■ J1**	
	3.1	645	443.00	10600	0.92	35	**2KJ4524 - ■ CC21 - ■ ■ H1**	
	3.3	610	419.00	10800	0.98	35	**2KJ4524 - ■ CC21 - ■ ■ G1**	
	3.6	565	387.00	10900	1.1	35	**2KJ4524 - ■ CC21 - ■ ■ F1**	
	4.2	490	335.96	11100	1.2	35	**2KJ4524 - ■ CC21 - ■ ■ E1**	
	4.8	425	291.94	11200	1.4	35	**2KJ4524 - ■ CC21 - ■ ■ D1**	
	5.3	385	263.55	11300	1.6	35	**2KJ4524 - ■ CC21 - ■ ■ C1**	
	5.6	360	248.05	11400	1.7	35	**2KJ4524 - ■ CC21 - ■ ■ B1**	
	6.5	315	216.25	11500	1.9	35	**2KJ4524 - ■ CC21 - ■ ■ A1**	
	K.79-Z19-LHN71MB4							
	2.2	945	648.00	13700	0.86	40	**2KJ4526 - ■ CC21 - ■ ■ K1**	
	2.4	855	585.00	13900	0.96	40	**2KJ4526 - ■ CC21 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**K.79-Z19-LHN71MB4**							
	2.5	805	550.00	14000	1.0	40	**2KJ4526 - ■ CC21 - ■ ■ H1**	
	2.7	760	521.00	14000	1.1	40	**2KJ4526 - ■ CC21 - ■ ■ G1**	
	2.9	705	481.00	14200	1.2	40	**2KJ4526 - ■ CC21 - ■ ■ F1**	
	3.3	610	417.00	14300	1.3	40	**2KJ4526 - ■ CC21 - ■ ■ E1**	
	3.8	530	363.00	14400	1.5	40	**2KJ4526 - ■ CC21 - ■ ■ D1**	
	4.3	480	327.46	14400	1.7	40	**2KJ4526 - ■ CC21 - ■ ■ C1**	
	4.5	450	308.19	14400	1.8	40	**2KJ4526 - ■ CC21 - ■ ■ B1**	
	5.2	390	268.68	14400	2.1	40	**2KJ4526 - ■ CC21 - ■ ■ A1**	
	K.89-Z39-LHN71MB4							
	1.0	1 990	1 360.00	18100	0.8	64	**2KJ4528 - ■ CC21 - ■ ■ P1**	
	1.2	1 690	1 158.00	18100	0.94	64	**2KJ4528 - ■ CC21 - ■ ■ N1**	
	2.0	1 030	705.00	18100	1.5	64	**2KJ4528 - ■ CC21 - ■ ■ K1**	
	2.1	970	663.00	18100	1.6	64	**2KJ4528 - ■ CC21 - ■ ■ J1**	
	2.3	870	594.00	18100	1.8	64	**2KJ4528 - ■ CC21 - ■ ■ H1**	
	K.109-Z39-LHN71MB4							
	0.59	3 480	2 381.00	24500	0.83	101	**2KJ4531 - ■ CC21 - ■ ■ U1**	
	0.66	3 080	2 108.00	24500	0.94	101	**2KJ4531 - ■ CC21 - ■ ■ T1**	
	0.79	2 570	1 755.00	24500	1.1	101	**2KJ4531 - ■ CC21 - ■ ■ S1**	
	0.84	2 410	1 651.00	24500	1.2	101	**2KJ4531 - ■ CC21 - ■ ■ R1**	
	0.94	2 160	1 480.00	24500	1.3	101	**2KJ4531 - ■ CC21 - ■ ■ Q1**	
	1.1	1 840	1 260.00	24500	1.6	101	**2KJ4531 - ■ CC21 - ■ ■ P1**	
	K.129-Z39-LHN71MB4							
	0.4	5 100	3 487.00	36900	0.86	152	**2KJ4533 - ■ CC21 - ■ ■ U1**	
	0.44	4 640	3 170.00	37400	0.95	152	**2KJ4533 - ■ CC21 - ■ ■ T1**	
	0.5	4 100	2 802.00	37900	1.1	152	**2KJ4533 - ■ CC21 - ■ ■ S1**	
	0.55	3 730	2 547.00	38200	1.2	152	**2KJ4533 - ■ CC21 - ■ ■ R1**	
	0.63	3 260	2 231.00	38700	1.3	152	**2KJ4533 - ■ CC21 - ■ ■ Q1**	
	0.68	3 010	2 060.00	39000	1.5	152	**2KJ4533 - ■ CC21 - ■ ■ P1**	
	0.76	2 670	1 824.00	39300	1.6	152	**2KJ4533 - ■ CC21 - ■ ■ N1**	
	0.92	2 220	1 518.00	39700	2.0	152	**2KJ4533 - ■ CC21 - ■ ■ M1**	
	K.149-D49-LHN71MB4							
	0.24	8 560	5 909.00	65000	0.93	246	**2KJ4536 - ■ CC21 - ■ ■ D1**	
	0.25	8 060	5 561.00	65000	0.99	246	**2KJ4536 - ■ CC21 - ■ ■ C1**	
	0.28	7 220	4 983.00	65000	1.1	246	**2KJ4536 - ■ CC21 - ■ ■ B1**	
	0.33	6 150	4 242.00	65000	1.3	246	**2KJ4536 - ■ CC21 - ■ ■ A1**	
	K.149-Z49-LHN71MB4							
	0.34	6 070	4 149.00	65000	1.3	246	**2KJ4535 - ■ CC21 - ■ ■ B2**	
	0.37	5 520	3 772.00	65000	1.4	246	**2KJ4535 - ■ CC21 - ■ ■ A2**	
	0.43	4 690	3 208.00	65000	1.7	246	**2KJ4535 - ■ CC21 - ■ ■ X1**	
	0.48	4 270	2 917.00	65000	1.9	246	**2KJ4535 - ■ CC21 - ■ ■ W1**	
	K.169-D49-LHN71MB4							
	0.13	15 500	10 689.00	70000	0.84	417	**2KJ4538 - ■ CC21 - ■ ■ E1**	
	0.16	12 900	8 896.00	70000	1.0	417	**2KJ4538 - ■ CC21 - ■ ■ D1**	
	0.17	12 100	8 373.00	70000	1.1	417	**2KJ4538 - ■ CC21 - ■ ■ C1**	
	0.19	10 800	7 502.00	70000	1.2	417	**2KJ4538 - ■ CC21 - ■ ■ B1**	
	0.22	9 260	6 387.00	70000	1.4	417	**2KJ4538 - ■ CC21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.25	**K.169-Z49-LHN71MB4**							
	0.22	9 150	6 248.00	70000	1.4	417	**2KJ4537 - ■ CC21 - ■ ■ C2**	
	0.25	8 320	5 680.00	70000	1.6	417	**2KJ4537 - ■ CC21 - ■ ■ B2**	
	0.29	7 070	4 831.00	70000	1.8	417	**2KJ4537 - ■ CC21 - ■ ■ A2**	
	0.32	6 430	4 391.00	70000	2.0	417	**2KJ4537 - ■ CC21 - ■ ■ X1**	
	K.189-D69-LHN71MB4							
	0.1	19 300	13 345.00	104000	1.0	658	**2KJ4541 - ■ CC21 - ■ ■ G1**	
	0.11	17 800	12 318.00	104000	1.1	658	**2KJ4541 - ■ CC21 - ■ ■ F1**	
	0.13	15 800	10 907.00	104000	1.2	658	**2KJ4541 - ■ CC21 - ■ ■ E1**	
	0.15	13 100	9 078.00	104000	1.5	658	**2KJ4541 - ■ CC21 - ■ ■ D1**	
	0.16	12 300	8 544.00	104000	1.6	658	**2KJ4541 - ■ CC21 - ■ ■ C1**	
	0.18	11 100	7 655.00	104000	1.8	658	**2KJ4541 - ■ CC21 - ■ ■ B1**	
0.37	**B.19-LHN71MD4**							
	60	59	22.78	1900	0.84	11	**2KJ4500 - ■ CE21 - ■ ■ T1**	
	68	52	19.86	1900	0.97	11	**2KJ4500 - ■ CE21 - ■ ■ S1**	
	76	46	17.78	1900	1.1	11	**2KJ4500 - ■ CE21 - ■ ■ R1**	
	86	41	15.79	1900	1.2	11	**2KJ4500 - ■ CE21 - ■ ■ Q1**	
	93	38	14.57	1900	1.3	11	**2KJ4500 - ■ CE21 - ■ ■ P1**	
	107	33	12.66	1900	1.5	11	**2KJ4500 - ■ CE21 - ■ ■ N1**	
	124	29	11.00	1900	1.7	11	**2KJ4500 - ■ CE21 - ■ ■ M1**	
	137	26	9.93	1900	1.9	11	**2KJ4500 - ■ CE21 - ■ ■ L1**	
	145	24	9.35	1900	2.1	11	**2KJ4500 - ■ CE21 - ■ ■ K1**	
	167	21	8.15	1900	2.2	11	**2KJ4500 - ■ CE21 - ■ ■ J1**	
	173	20	7.87	1900	1.9	11	**2KJ4500 - ■ CE21 - ■ ■ H1**	
	195	18	6.99	1900	2.1	11	**2KJ4500 - ■ CE21 - ■ ■ G1**	
	211	17	6.45	1900	2.3	11	**2KJ4500 - ■ CE21 - ■ ■ F1**	
	242	15	5.61	1900	2.5	11	**2KJ4500 - ■ CE21 - ■ ■ E1**	
	279	13	4.87	1900	2.8	11	**2KJ4500 - ■ CE21 - ■ ■ D1**	
	309	11	4.40	1900	3.0	11	**2KJ4500 - ■ CE21 - ■ ■ C1**	
	329	11	4.14	1900	3.1	11	**2KJ4500 - ■ CE21 - ■ ■ B1**	
	377	9.4	3.61	1900	3.3	11	**2KJ4500 - ■ CE21 - ■ ■ A1**	
	B.29-LHN71MD4							
	29	122	46.85	4000	0.9	13	**2KJ4501 - ■ CE21 - ■ ■ B2**	
	33	108	41.56	4100	1.0	13	**2KJ4501 - ■ CE21 - ■ ■ A2**	
	38	94	36.06	4200	1.2	13	**2KJ4501 - ■ CE21 - ■ ■ X1**	
	41	85	32.78	4200	1.3	13	**2KJ4501 - ■ CE21 - ■ ■ W1**	
	48	73	28.11	4200	1.5	13	**2KJ4501 - ■ CE21 - ■ ■ V1**	
	53	66	25.56	4200	1.7	13	**2KJ4501 - ■ CE21 - ■ ■ U1**	
	61	58	22.41	4200	1.9	13	**2KJ4501 - ■ CE21 - ■ ■ T1**	
	68	52	20.00	4200	2.1	13	**2KJ4501 - ■ CE21 - ■ ■ S1**	
	76	46	17.82	4200	2.4	13	**2KJ4501 - ■ CE21 - ■ ■ R1**	
	83	43	16.45	4200	2.6	13	**2KJ4501 - ■ CE21 - ■ ■ Q1**	
	94	37	14.40	4200	2.9	13	**2KJ4501 - ■ CE21 - ■ ■ P1**	
	108	33	12.63	4200	3.4	13	**2KJ4501 - ■ CE21 - ■ ■ N1**	
	119	30	11.46	4100	3.7	13	**2KJ4501 - ■ CE21 - ■ ■ M1**	
	126	28	10.78	4000	3.9	13	**2KJ4501 - ■ CE21 - ■ ■ L1**	
	143	25	9.51	3900	4.5	13	**2KJ4501 - ■ CE21 - ■ ■ K1**	
	165	21	8.25	3700	5.1	13	**2KJ4501 - ■ CE21 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.37	**B.29-LHN71MD4**							
	173	20	7.84	3700	3.7	13	**2KJ4501 - ■ CE21 - ■ ■ H1**	
	184	19	7.38	3600	3.9	13	**2KJ4501 - ■ CE21 - ■ ■ G1**	
	209	17	6.51	3400	4.4	13	**2KJ4501 - ■ CE21 - ■ ■ F1**	
	241	15	5.65	3300	5.1	13	**2KJ4501 - ■ CE21 - ■ ■ E1**	
	268	13	5.07	3200	5.6	13	**2KJ4501 - ■ CE21 - ■ ■ D1**	
	285	12	4.78	3200	6.0	13	**2KJ4501 - ■ CE21 - ■ ■ C1**	
	323	11	4.21	3000	6.8	13	**2KJ4501 - ■ CE21 - ■ ■ B1**	
	373	9.5	3.65	2900	7.7	13	**2KJ4501 - ■ CE21 - ■ ■ A1**	
	B.39-LHN71MD4							
	24	146	56.36	6900	1.7	18	**2KJ4502 - ■ CE21 - ■ ■ A2**	
	27	130	50.11	6900	1.6	18	**2KJ4502 - ■ CE21 - ■ ■ X1**	
	31	114	44.00	6900	2.2	18	**2KJ4502 - ■ CE21 - ■ ■ W1**	
	34	104	40.00	6900	2.2	18	**2KJ4502 - ■ CE21 - ■ ■ V1**	
	K.39-LHN71MD4							
	14	245	94.39	5900	0.9	18	**2KJ4504 - ■ CE21 - ■ ■ E2**	
	16	220	85.81	6000	0.99	18	**2KJ4504 - ■ CE21 - ■ ■ D2**	
	18	195	75.24	6100	1.1	18	**2KJ4504 - ■ CE21 - ■ ■ C2**	
	20	174	67.16	6200	1.3	18	**2KJ4504 - ■ CE21 - ■ ■ B2**	
	23	155	59.85	6300	1.4	18	**2KJ4504 - ■ CE21 - ■ ■ A2**	
	25	144	55.25	6300	1.5	18	**2KJ4504 - ■ CE21 - ■ ■ X1**	
	28	126	48.37	6400	1.8	18	**2KJ4504 - ■ CE21 - ■ ■ W1**	
	32	110	42.41	6400	2.0	18	**2KJ4504 - ■ CE21 - ■ ■ V1**	
	35	100	38.48	6500	2.2	18	**2KJ4504 - ■ CE21 - ■ ■ U1**	
	38	94	36.21	6500	2.3	18	**2KJ4504 - ■ CE21 - ■ ■ T1**	
	43	83	31.92	6400	2.7	18	**2KJ4504 - ■ CE21 - ■ ■ S1**	
	K.49-LHN71MD4							
	6.8	520	200.25	7000	0.81	26	**2KJ4505 - ■ CE21 - ■ ■ J2**	
	7.6	460	178.06	7500	0.91	26	**2KJ4505 - ■ CE21 - ■ ■ H2**	
	8.7	405	156.34	7900	1.0	26	**2KJ4505 - ■ CE21 - ■ ■ G2**	
	9.6	365	142.13	8200	1.1	26	**2KJ4505 - ■ CE21 - ■ ■ F2**	
	11	315	121.60	8500	1.3	26	**2KJ4505 - ■ CE21 - ■ ■ E2**	
	12	285	110.55	8600	1.5	26	**2KJ4505 - ■ CE21 - ■ ■ D2**	
	14	250	97.71	8700	1.7	26	**2KJ4505 - ■ CE21 - ■ ■ C2**	
	15	230	88.83	8700	1.8	26	**2KJ4505 - ■ CE21 - ■ ■ B2**	
	17	200	77.81	8800	2.1	26	**2KJ4505 - ■ CE21 - ■ ■ A2**	
	19	187	71.82	8600	2.3	26	**2KJ4505 - ■ CE21 - ■ ■ X1**	
	K.69-LHN71MD4							
	6.9	510	196.59	11000	1.2	33	**2KJ4507 - ■ CE21 - ■ ■ H2**	
	7.6	460	178.72	11100	1.3	33	**2KJ4507 - ■ CE21 - ■ ■ G2**	
	8.9	395	152.00	11300	1.5	33	**2KJ4507 - ■ CE21 - ■ ■ F2**	
	9.8	355	138.18	11400	1.7	33	**2KJ4507 - ■ CE21 - ■ ■ E2**	
	11	320	123.29	11500	1.9	33	**2KJ4507 - ■ CE21 - ■ ■ D2**	
	12	285	110.55	11600	2.1	33	**2KJ4507 - ■ CE21 - ■ ■ C2**	
	K.79-LHN71MD4							
	5.6	635	244.25	14300	1.3	38	**2KJ4508 - ■ CE21 - ■ ■ J2**	
	6.1	575	222.05	14400	1.4	38	**2KJ4508 - ■ CE21 - ■ ■ H2**	
	7.2	490	188.85	14400	1.7	38	**2KJ4508 - ■ CE21 - ■ ■ G2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.37	**K.79-LHN71MD4**							
	7.9	445	171.69	14400	1.8	38	**2KJ4508 - ■ CE21 - ■ ■ F2**	
	8.9	395	153.18	14400	2.1	38	**2KJ4508 - ■ CE21 - ■ ■ E2**	
	K.49-Z19-LHN71MD4							
	6.0	515	225.26	7000	0.81	28	**2KJ4522 - ■ CE21 - ■ ■ B1**	
	6.4	485	212.01	7300	0.86	28	**2KJ4522 - ■ CE21 - ■ ■ A1**	
	K.69-Z19-LHN71MD4							
	4.7	670	291.94	10400	0.89	35	**2KJ4524 - ■ CE21 - ■ ■ D1**	
	5.2	605	263.55	10800	0.99	35	**2KJ4524 - ■ CE21 - ■ ■ C1**	
	5.5	570	248.05	10900	1.0	35	**2KJ4524 - ■ CE21 - ■ ■ B1**	
	6.3	495	216.25	11100	1.2	35	**2KJ4524 - ■ CE21 - ■ ■ A1**	
	K.79-Z19-LHN71MD4							
	3.3	960	417.00	13700	0.85	40	**2KJ4526 - ■ CE21 - ■ ■ E1**	
	3.7	835	363.00	13900	0.98	40	**2KJ4526 - ■ CE21 - ■ ■ D1**	
	4.2	750	327.46	14100	1.1	40	**2KJ4526 - ■ CE21 - ■ ■ C1**	
	4.4	710	308.19	14100	1.2	40	**2KJ4526 - ■ CE21 - ■ ■ B1**	
	5.1	615	268.68	14300	1.3	40	**2KJ4526 - ■ CE21 - ■ ■ A1**	
	K.89-Z39-LHN71MD4							
	1.9	1 620	705.00	18100	0.99	65	**2KJ4528 - ■ CE21 - ■ ■ K1**	
	2.1	1 520	663.00	18100	1.0	65	**2KJ4528 - ■ CE21 - ■ ■ J1**	
	2.3	1 360	594.00	18100	1.2	65	**2KJ4528 - ■ CE21 - ■ ■ H1**	
	2.7	1 160	506.00	18100	1.4	65	**2KJ4528 - ■ CE21 - ■ ■ G1**	
	2.9	1 090	476.00	18100	1.5	65	**2KJ4528 - ■ CE21 - ■ ■ F1**	
	3.0	1 030	448.00	18100	1.6	65	**2KJ4528 - ■ CE21 - ■ ■ E1**	
	3.4	920	401.00	18100	1.7	65	**2KJ4528 - ■ CE21 - ■ ■ D1**	
	4.0	785	341.78	18100	2.0	65	**2KJ4528 - ■ CE21 - ■ ■ C1**	
	K.109-Z39-LHN71MD4							
	0.92	3 410	1 480.00	24500	0.85	102	**2KJ4531 - ■ CE21 - ■ ■ Q1**	
	1.1	2 900	1 260.00	24500	1.0	102	**2KJ4531 - ■ CE21 - ■ ■ P1**	
	1.8	1 760	767.00	24500	1.6	102	**2KJ4531 - ■ CE21 - ■ ■ L1**	
	1.9	1 660	722.00	24500	1.7	102	**2KJ4531 - ■ CE21 - ■ ■ K1**	
	2.1	1 490	647.00	24500	1.9	102	**2KJ4531 - ■ CE21 - ■ ■ J1**	
	K.129-Z39-LHN71MD4							
	0.61	5 140	2 231.00	36900	0.86	152	**2KJ4533 - ■ CE21 - ■ ■ Q1**	
	0.66	4 740	2 060.00	37300	0.93	152	**2KJ4533 - ■ CE21 - ■ ■ P1**	
	0.75	4 200	1 824.00	37800	1.0	152	**2KJ4533 - ■ CE21 - ■ ■ N1**	
	0.9	3 490	1 518.00	38500	1.3	152	**2KJ4533 - ■ CE21 - ■ ■ M1**	
	0.95	3 290	1 429.00	38700	1.3	152	**2KJ4533 - ■ CE21 - ■ ■ L1**	
	1.1	2 940	1 280.00	39000	1.5	152	**2KJ4533 - ■ CE21 - ■ ■ K1**	
	1.2	2 510	1 090.00	39400	1.8	152	**2KJ4533 - ■ CE21 - ■ ■ J1**	
	K.149-D49-LHN71MD4							
	0.32	9 670	4 242.00	65000	0.83	247	**2KJ4536 - ■ CE21 - ■ ■ A1**	
	K.149-Z49-LHN71MD4							
	0.33	9 550	4 149.00	65000	0.84	246	**2KJ4535 - ■ CE21 - ■ ■ B2**	
	0.36	8 690	3 772.00	65000	0.92	246	**2KJ4535 - ■ CE21 - ■ ■ A2**	
	0.42	7 390	3 208.00	65000	1.1	246	**2KJ4535 - ■ CE21 - ■ ■ X1**	
	0.47	6 720	2 917.00	65000	1.2	246	**2KJ4535 - ■ CE21 - ■ ■ W1**	
	0.52	5 990	2 602.00	65000	1.3	246	**2KJ4535 - ■ CE21 - ■ ■ V1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.37	**K.149-Z49-LHN71MD4**							
	0.58	5 370	2 333.00	65000	1.5	246	**2KJ4535 - ■ CE21 - ■ ■ U1**	
	0.65	4 840	2 103.00	65000	1.7	246	**2KJ4535 - ■ CE21 - ■ ■ T1**	
	0.7	4 470	1 941.00	65000	1.8	246	**2KJ4535 - ■ CE21 - ■ ■ S1**	
	0.77	4 080	1 772.00	65000	2.0	246	**2KJ4535 - ■ CE21 - ■ ■ R1**	
	K.169-D49-LHN71MD4							
	0.21	14 500	6 387.00	70000	0.89	418	**2KJ4538 - ■ CE21 - ■ ■ A1**	
	K.169-Z49-LHN71MD4							
	0.22	14 300	6 248.00	70000	0.9	417	**2KJ4537 - ■ CE21 - ■ ■ C2**	
	0.24	13 000	5 680.00	70000	0.99	417	**2KJ4537 - ■ CE21 - ■ ■ B2**	
	0.28	11 100	4 831.00	70000	1.2	417	**2KJ4537 - ■ CE21 - ■ ■ A2**	
	0.31	10 100	4 391.00	70000	1.3	417	**2KJ4537 - ■ CE21 - ■ ■ X1**	
	0.35	9 020	3 918.00	70000	1.4	417	**2KJ4537 - ■ CE21 - ■ ■ W1**	
	0.39	8 090	3 513.00	70000	1.6	417	**2KJ4537 - ■ CE21 - ■ ■ V1**	
	0.43	7 290	3 167.00	70000	1.8	417	**2KJ4537 - ■ CE21 - ■ ■ U1**	
	0.47	6 730	2 923.00	70000	1.9	417	**2KJ4537 - ■ CE21 - ■ ■ T1**	
	K.189-D69-LHN71MD4							
	0.15	20 700	9 078.00	104000	0.94	659	**2KJ4541 - ■ CE21 - ■ ■ D1**	
	0.16	19 400	8 544.00	104000	1.0	659	**2KJ4541 - ■ CE21 - ■ ■ C1**	
	0.18	17 400	7 655.00	104000	1.1	659	**2KJ4541 - ■ CE21 - ■ ■ B1**	
	0.21	14 800	6 517.00	104000	1.3	659	**2KJ4541 - ■ CE21 - ■ ■ A1**	
	K.189-Z69-LHN71MD4							
	0.21	14 600	6 375.00	104000	1.3	658	**2KJ4540 - ■ CE21 - ■ ■ C2**	
	0.23	13 300	5 795.00	104000	1.5	658	**2KJ4540 - ■ CE21 - ■ ■ B2**	
	0.28	11 300	4 929.00	104000	1.7	658	**2KJ4540 - ■ CE21 - ■ ■ A2**	
	0.3	10 300	4 481.00	104000	1.9	658	**2KJ4540 - ■ CE21 - ■ ■ X1**	
0.55	**B.19-LHN71ME4**							
	85	62	15.79	1900	0.8	12	**2KJ4500 - ■ CF21 - ■ ■ Q1**	
	92	57	14.57	1900	0.87	12	**2KJ4500 - ■ CF21 - ■ ■ P1**	
	105	50	12.66	1900	1.0	12	**2KJ4500 - ■ CF21 - ■ ■ N1**	
	121	43	11.00	1900	1.2	12	**2KJ4500 - ■ CF21 - ■ ■ M1**	
	134	39	9.93	1900	1.3	12	**2KJ4500 - ■ CF21 - ■ ■ L1**	
	143	37	9.35	1900	1.4	12	**2KJ4500 - ■ CF21 - ■ ■ K1**	
	164	32	8.15	1900	1.5	12	**2KJ4500 - ■ CF21 - ■ ■ J1**	
	170	31	7.87	1900	1.2	12	**2KJ4500 - ■ CF21 - ■ ■ H1**	
	191	28	6.99	1900	1.4	12	**2KJ4500 - ■ CF21 - ■ ■ G1**	
	207	25	6.45	1900	1.5	12	**2KJ4500 - ■ CF21 - ■ ■ F1**	
	238	22	5.61	1900	1.7	12	**2KJ4500 - ■ CF21 - ■ ■ E1**	
	274	19	4.87	1900	1.8	12	**2KJ4500 - ■ CF21 - ■ ■ D1**	
	303	17	4.40	1900	2.0	12	**2KJ4500 - ■ CF21 - ■ ■ C1**	
	322	16	4.14	1900	2.0	12	**2KJ4500 - ■ CF21 - ■ ■ B1**	
	370	14	3.61	1800	2.2	12	**2KJ4500 - ■ CF21 - ■ ■ A1**	
	B.29-LHN71ME4							
	41	129	32.78	4000	0.85	13	**2KJ4501 - ■ CF21 - ■ ■ W1**	
	47	111	28.11	4100	0.99	13	**2KJ4501 - ■ CF21 - ■ ■ V1**	
	52	101	25.56	4100	1.1	13	**2KJ4501 - ■ CF21 - ■ ■ U1**	
	60	88	22.41	4200	1.2	13	**2KJ4501 - ■ CF21 - ■ ■ T1**	
	67	79	20.00	4200	1.4	13	**2KJ4501 - ■ CF21 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**B.29-LHN71ME4**							
	75	70	17.82	4200	1.6	13	**2KJ4501 - ■ CF21 - ■ ■ R1**	
	81	65	16.45	4200	1.7	13	**2KJ4501 - ■ CF21 - ■ ■ Q1**	
	93	57	14.40	4200	1.9	13	**2KJ4501 - ■ CF21 - ■ ■ P1**	
	106	50	12.63	4100	2.2	13	**2KJ4501 - ■ CF21 - ■ ■ N1**	
	116	45	11.46	4000	2.4	13	**2KJ4501 - ■ CF21 - ■ ■ M1**	
	124	42	10.78	3900	2.6	13	**2KJ4501 - ■ CF21 - ■ ■ L1**	
	140	37	9.51	3800	2.9	13	**2KJ4501 - ■ CF21 - ■ ■ K1**	
	162	32	8.25	3700	3.4	13	**2KJ4501 - ■ CF21 - ■ ■ J1**	
	170	31	7.84	3600	2.4	13	**2KJ4501 - ■ CF21 - ■ ■ H1**	
	181	29	7.38	3500	2.6	13	**2KJ4501 - ■ CF21 - ■ ■ G1**	
	205	26	6.51	3400	2.9	13	**2KJ4501 - ■ CF21 - ■ ■ F1**	
	236	22	5.65	3200	3.4	13	**2KJ4501 - ■ CF21 - ■ ■ E1**	
	263	20	5.07	3200	3.7	13	**2KJ4501 - ■ CF21 - ■ ■ D1**	
	279	19	4.78	3100	3.9	13	**2KJ4501 - ■ CF21 - ■ ■ C1**	
	317	17	4.21	3000	4.5	13	**2KJ4501 - ■ CF21 - ■ ■ B1**	
	366	14	3.65	2900	5.1	13	**2KJ4501 - ■ CF21 - ■ ■ A1**	
	B.39-LHN71ME4							
	24	220	56.36	6900	1.1	18	**2KJ4502 - ■ CF21 - ■ ■ A2**	
	27	197	50.11	6900	1.1	18	**2KJ4502 - ■ CF21 - ■ ■ X1**	
	30	173	44.00	6900	1.4	18	**2KJ4502 - ■ CF21 - ■ ■ W1**	
	33	157	40.00	6900	1.5	18	**2KJ4502 - ■ CF21 - ■ ■ V1**	
	39	135	34.22	6900	1.9	18	**2KJ4502 - ■ CF21 - ■ ■ U1**	
	43	122	31.11	6900	2.0	18	**2KJ4502 - ■ CF21 - ■ ■ T1**	
	49	108	27.50	6900	2.3	18	**2KJ4502 - ■ CF21 - ■ ■ S1**	
	53	98	25.00	6900	2.5	18	**2KJ4502 - ■ CF21 - ■ ■ R1**	
	61	86	21.90	6900	2.9	18	**2KJ4502 - ■ CF21 - ■ ■ Q1**	
	66	80	20.21	6900	3.1	18	**2KJ4502 - ■ CF21 - ■ ■ P1**	
	K.39-LHN71ME4							
	20	260	67.16	5900	0.83	19	**2KJ4504 - ■ CF21 - ■ ■ B2**	
	22	235	59.85	6000	0.93	19	**2KJ4504 - ■ CF21 - ■ ■ A2**	
	24	215	55.25	6100	1.0	19	**2KJ4504 - ■ CF21 - ■ ■ X1**	
	28	190	48.37	6100	1.2	19	**2KJ4504 - ■ CF21 - ■ ■ W1**	
	31	167	42.41	6200	1.3	19	**2KJ4504 - ■ CF21 - ■ ■ V1**	
	35	151	38.48	6300	1.5	19	**2KJ4504 - ■ CF21 - ■ ■ U1**	
	37	142	36.21	6300	1.5	19	**2KJ4504 - ■ CF21 - ■ ■ T1**	
	42	126	31.92	6100	1.8	19	**2KJ4504 - ■ CF21 - ■ ■ S1**	
	48	109	27.70	5900	2.0	19	**2KJ4504 - ■ CF21 - ■ ■ R1**	
	50	106	26.89	5900	2.1	19	**2KJ4504 - ■ CF21 - ■ ■ Q1**	
	56	94	23.97	5700	2.3	19	**2KJ4504 - ■ CF21 - ■ ■ P1**	
	60	87	22.12	5600	2.5	19	**2KJ4504 - ■ CF21 - ■ ■ N1**	
	69	76	19.37	5400	2.9	19	**2KJ4504 - ■ CF21 - ■ ■ M1**	
	B.49-LHN71ME4							
	23	230	59.28	11000	1.9	24	**2KJ4503 - ■ CF21 - ■ ■ C2**	
	25	210	53.89	11000	2.1	24	**2KJ4503 - ■ CF21 - ■ ■ B2**	
	29	180	45.83	10600	2.5	24	**2KJ4503 - ■ CF21 - ■ ■ A2**	
	K.49-LHN71ME4							
	11	475	121.60	7300	0.88	26	**2KJ4505 - ■ CF21 - ■ ■ E2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**K.49-LHN71ME4**							
	12	435	110.55	7700	0.97	26	**2KJ4505 - ■ CF21 - ■ ■ D2**	
	14	380	97.71	8100	1.1	26	**2KJ4505 - ■ CF21 - ■ ■ C2**	
	15	345	88.83	8200	1.2	26	**2KJ4505 - ■ CF21 - ■ ■ B2**	
	17	305	77.81	8000	1.4	26	**2KJ4505 - ■ CF21 - ■ ■ A2**	
	19	280	71.82	8000	1.5	26	**2KJ4505 - ■ CF21 - ■ ■ X1**	
	21	250	63.59	7800	1.7	26	**2KJ4505 - ■ CF21 - ■ ■ W1**	
	25	205	52.93	7600	2.0	26	**2KJ4505 - ■ CF21 - ■ ■ V1**	
	27	196	49.82	7500	2.1	26	**2KJ4505 - ■ CF21 - ■ ■ U1**	
	30	176	44.63	7300	2.4	26	**2KJ4505 - ■ CF21 - ■ ■ T1**	
	K.69-LHN71ME4							
	7.5	700	178.72	10200	0.85	33	**2KJ4507 - ■ CF21 - ■ ■ G2**	
	8.8	595	152.00	10800	1.0	33	**2KJ4507 - ■ CF21 - ■ ■ F2**	
	9.7	540	138.18	11000	1.1	33	**2KJ4507 - ■ CF21 - ■ ■ E2**	
	11	485	123.29	11100	1.2	33	**2KJ4507 - ■ CF21 - ■ ■ D2**	
	12	435	110.55	11200	1.4	33	**2KJ4507 - ■ CF21 - ■ ■ C2**	
	13	390	99.64	11300	1.5	33	**2KJ4507 - ■ CF21 - ■ ■ B2**	
	15	360	91.98	11400	1.7	33	**2KJ4507 - ■ CF21 - ■ ■ A2**	
	16	330	83.96	11400	1.8	33	**2KJ4507 - ■ CF21 - ■ ■ X1**	
	19	270	69.67	11600	2.2	33	**2KJ4507 - ■ CF21 - ■ ■ W1**	
	20	255	65.57	11600	2.3	33	**2KJ4507 - ■ CF21 - ■ ■ V1**	
	K.79-LHN71ME4							
	5.5	960	244.25	13700	0.85	38	**2KJ4508 - ■ CF21 - ■ ■ J2**	
	6.0	870	222.05	13800	0.94	38	**2KJ4508 - ■ CF21 - ■ ■ H2**	
	7.1	740	188.85	14100	1.1	38	**2KJ4508 - ■ CF21 - ■ ■ G2**	
	7.8	675	171.69	14200	1.2	38	**2KJ4508 - ■ CF21 - ■ ■ F2**	
	8.7	600	153.18	14400	1.4	38	**2KJ4508 - ■ CF21 - ■ ■ E2**	
	9.7	540	137.35	14400	1.5	38	**2KJ4508 - ■ CF21 - ■ ■ D2**	
	11	485	123.80	14400	1.7	38	**2KJ4508 - ■ CF21 - ■ ■ C2**	
	12	450	114.28	14400	1.8	38	**2KJ4508 - ■ CF21 - ■ ■ B2**	
	13	410	104.32	14400	2.0	38	**2KJ4508 - ■ CF21 - ■ ■ A2**	
	K.89-LHN71ME4							
	5.8	910	231.80	18100	1.8	59	**2KJ4510 - ■ CF21 - ■ ■ K2**	
	6.3	825	210.72	18100	1.9	59	**2KJ4510 - ■ CF21 - ■ ■ J2**	
	B.19-LHN80MD4E							
	90	58	15.79	1900	0.86	15	**2KJ4500 - ■ DD22 - ■ ■ Q1**	
	97	54	14.57	1900	0.93	15	**2KJ4500 - ■ DD22 - ■ ■ P1**	
	112	47	12.66	1900	1.1	15	**2KJ4500 - ■ DD22 - ■ ■ N1**	
	129	41	11.00	1900	1.2	15	**2KJ4500 - ■ DD22 - ■ ■ M1**	
	143	37	9.93	1900	1.4	15	**2KJ4500 - ■ DD22 - ■ ■ L1**	
	152	35	9.35	1900	1.4	15	**2KJ4500 - ■ DD22 - ■ ■ K1**	
	174	30	8.15	1900	1.6	15	**2KJ4500 - ■ DD22 - ■ ■ J1**	
	180	29	7.87	1900	1.3	15	**2KJ4500 - ■ DD22 - ■ ■ H1**	
	203	26	6.99	1900	1.5	15	**2KJ4500 - ■ DD22 - ■ ■ G1**	
	220	24	6.45	1900	1.6	15	**2KJ4500 - ■ DD22 - ■ ■ F1**	
	253	21	5.61	1900	1.8	15	**2KJ4500 - ■ DD22 - ■ ■ E1**	
	292	18	4.87	1900	1.9	15	**2KJ4500 - ■ DD22 - ■ ■ D1**	
	323	16	4.40	1900	2.1	15	**2KJ4500 - ■ DD22 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**B.19-LHN80MD4E**							
	343	15	4.14	1900	2.2	15	**2KJ4500 - ■ DD22 - ■ ■ B1**	
	393	13	3.61	1800	2.3	15	**2KJ4500 - ■ DD22 - ■ ■ A1**	
	B.29-LHN80MD4E							
	39	133	36.06	3900	0.82	17	**2KJ4501 - ■ DD22 - ■ ■ X1**	
	43	121	32.78	4000	0.91	17	**2KJ4501 - ■ DD22 - ■ ■ W1**	
	51	104	28.11	4100	1.1	17	**2KJ4501 - ■ DD22 - ■ ■ V1**	
	56	94	25.56	4200	1.2	17	**2KJ4501 - ■ DD22 - ■ ■ U1**	
	63	83	22.41	4200	1.3	17	**2KJ4501 - ■ DD22 - ■ ■ T1**	
	71	74	20.00	4200	1.5	17	**2KJ4501 - ■ DD22 - ■ ■ S1**	
	80	66	17.82	4200	1.7	17	**2KJ4501 - ■ DD22 - ■ ■ R1**	
	86	61	16.45	4200	1.8	17	**2KJ4501 - ■ DD22 - ■ ■ Q1**	
	99	53	14.40	4200	2.1	17	**2KJ4501 - ■ DD22 - ■ ■ P1**	
	112	47	12.63	4000	2.4	17	**2KJ4501 - ■ DD22 - ■ ■ N1**	
	124	42	11.46	3900	2.6	17	**2KJ4501 - ■ DD22 - ■ ■ M1**	
	132	40	10.78	3900	2.8	17	**2KJ4501 - ■ DD22 - ■ ■ L1**	
	149	35	9.51	3700	3.1	17	**2KJ4501 - ■ DD22 - ■ ■ K1**	
	172	30	8.25	3600	3.6	17	**2KJ4501 - ■ DD22 - ■ ■ J1**	
	181	29	7.84	3500	2.6	17	**2KJ4501 - ■ DD22 - ■ ■ H1**	
	192	27	7.38	3400	2.7	17	**2KJ4501 - ■ DD22 - ■ ■ G1**	
	218	24	6.51	3300	3.1	17	**2KJ4501 - ■ DD22 - ■ ■ F1**	
	251	21	5.65	3200	3.6	17	**2KJ4501 - ■ DD22 - ■ ■ E1**	
	280	19	5.07	3100	3.9	17	**2KJ4501 - ■ DD22 - ■ ■ D1**	
	297	18	4.78	3100	4.2	17	**2KJ4501 - ■ DD22 - ■ ■ C1**	
	337	16	4.21	2900	4.8	17	**2KJ4501 - ■ DD22 - ■ ■ B1**	
	389	14	3.65	2800	5.4	17	**2KJ4501 - ■ DD22 - ■ ■ A1**	
	B.39-LHN80MD4E							
	28	185	50.11	6900	1.1	22	**2KJ4502 - ■ DD22 - ■ ■ X1**	
	32	163	44.00	6900	1.5	22	**2KJ4502 - ■ DD22 - ■ ■ W1**	
	36	148	40.00	6900	1.6	22	**2KJ4502 - ■ DD22 - ■ ■ V1**	
	41	127	34.22	6900	2.0	22	**2KJ4502 - ■ DD22 - ■ ■ U1**	
	46	115	31.11	6900	2.2	22	**2KJ4502 - ■ DD22 - ■ ■ T1**	
	52	102	27.50	6900	2.5	22	**2KJ4502 - ■ DD22 - ■ ■ S1**	
	57	92	25.00	6900	2.7	22	**2KJ4502 - ■ DD22 - ■ ■ R1**	
	B.39-LHN80MH6E							
	20	260	44.00	6900	0.96	23	**2KJ4502 - ■ DG22 - ■ ■ W1**	**P01**
	22	235	40.00	6900	0.97	23	**2KJ4502 - ■ DG22 - ■ ■ V1**	**P01**
	26	200	34.22	6900	1.2	23	**2KJ4502 - ■ DG22 - ■ ■ U1**	**P01**
	60	88	14.90	6900	2.8	23	**2KJ4502 - ■ DG22 - ■ ■ M1**	**P01**
	63	83	14.02	6900	3.0	23	**2KJ4502 - ■ DG22 - ■ ■ L1**	**P01**
	K.39-LHN80MD4E							
	21	245	67.16	5000	0.89	23	**2KJ4504 - ■ DD22 - ■ ■ B2**	
	24	220	59.85	5100	0.99	23	**2KJ4504 - ■ DD22 - ■ ■ A2**	
	26	200	55.25	5200	1.1	23	**2KJ4504 - ■ DD22 - ■ ■ X1**	
	29	179	48.37	5300	1.2	23	**2KJ4504 - ■ DD22 - ■ ■ W1**	
	33	157	42.41	5300	1.4	23	**2KJ4504 - ■ DD22 - ■ ■ V1**	
	37	142	38.48	5400	1.5	23	**2KJ4504 - ■ DD22 - ■ ■ U1**	
	39	134	36.21	5400	1.6	23	**2KJ4504 - ■ DD22 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**K.39-LHN80MD4E**							
	44	118	31.92	5500	1.9	23	**2KJ4504 - ■ DD22 - ■ ■ S1**	
	51	102	27.70	5500	2.1	23	**2KJ4504 - ■ DD22 - ■ ■ R1**	
	53	100	26.89	5500	2.2	23	**2KJ4504 - ■ DD22 - ■ ■ Q1**	
	59	89	23.97	5600	2.5	23	**2KJ4504 - ■ DD22 - ■ ■ P1**	
	64	82	22.12	5500	2.7	23	**2KJ4504 - ■ DD22 - ■ ■ N1**	
	73	72	19.37	5300	3.1	23	**2KJ4504 - ■ DD22 - ■ ■ M1**	
	K.39-LHN80MH6E							
	89	59	10.04	5200	3.1	24	**2KJ4504 - ■ DG22 - ■ ■ F1**	**P01**
	101	52	8.81	5000	3.5	24	**2KJ4504 - ■ DG22 - ■ ■ E1**	**P01**
	B.49-LHN80MD4E							
	24	215	59.28	11000	2.1	28	**2KJ4503 - ■ DD22 - ■ ■ C2**	
	26	199	53.89	10800	2.3	28	**2KJ4503 - ■ DD22 - ■ ■ B2**	
	B.49-LHN80MH6E							
	15	350	59.28	11500	1.3	29	**2KJ4503 - ■ DG22 - ■ ■ C2**	**P01**
	17	315	53.89	11500	1.4	29	**2KJ4503 - ■ DG22 - ■ ■ B2**	**P01**
	19	270	45.83	11500	1.7	29	**2KJ4503 - ■ DG22 - ■ ■ A2**	**P01**
	21	245	41.67	11500	1.8	29	**2KJ4503 - ■ DG22 - ■ ■ X1**	**P01**
	27	197	33.33	11300	2.3	29	**2KJ4503 - ■ DG22 - ■ ■ V1**	**P01**
	30	177	30.05	10900	2.5	29	**2KJ4503 - ■ DG22 - ■ ■ U1**	**P01**
	K.49-LHN80MD4E							
	10	525	142.13	4000	0.8	30	**2KJ4505 - ■ DD22 - ■ ■ F2**	
	12	450	121.60	4600	0.93	30	**2KJ4505 - ■ DD22 - ■ ■ E2**	
	13	405	110.55	5000	1.0	30	**2KJ4505 - ■ DD22 - ■ ■ D2**	
	15	360	97.71	5400	1.2	30	**2KJ4505 - ■ DD22 - ■ ■ C2**	
	16	325	88.83	5600	1.3	30	**2KJ4505 - ■ DD22 - ■ ■ B2**	
	18	285	77.81	6000	1.5	30	**2KJ4505 - ■ DD22 - ■ ■ A2**	
	20	265	71.82	6100	1.6	30	**2KJ4505 - ■ DD22 - ■ ■ X1**	
	22	235	63.59	6400	1.8	30	**2KJ4505 - ■ DD22 - ■ ■ W1**	
	27	196	52.93	6700	2.1	30	**2KJ4505 - ■ DD22 - ■ ■ V1**	
	29	184	49.82	6800	2.3	30	**2KJ4505 - ■ DD22 - ■ ■ U1**	
	32	165	44.63	6900	2.5	30	**2KJ4505 - ■ DD22 - ■ ■ T1**	
	K.69-LHN80MD4E							
	7.2	725	196.59	6000	0.83	37	**2KJ4507 - ■ DD22 - ■ ■ H2**	
	7.9	660	178.72	6500	0.91	37	**2KJ4507 - ■ DD22 - ■ ■ G2**	
	9.3	560	152.00	7200	1.1	37	**2KJ4507 - ■ DD22 - ■ ■ F2**	
	10	510	138.18	7600	1.2	37	**2KJ4507 - ■ DD22 - ■ ■ E2**	
	12	455	123.29	8000	1.3	37	**2KJ4507 - ■ DD22 - ■ ■ D2**	
	13	405	110.55	8400	1.5	37	**2KJ4507 - ■ DD22 - ■ ■ C2**	
	14	365	99.64	8700	1.6	37	**2KJ4507 - ■ DD22 - ■ ■ B2**	
	15	340	91.98	8900	1.8	37	**2KJ4507 - ■ DD22 - ■ ■ A2**	
	17	310	83.96	9100	1.9	37	**2KJ4507 - ■ DD22 - ■ ■ X1**	
	20	255	69.67	9500	2.3	37	**2KJ4507 - ■ DD22 - ■ ■ W1**	
	K.79-LHN80MD4E							
	5.8	900	244.25	11700	0.91	42	**2KJ4508 - ■ DD22 - ■ ■ J2**	
	6.4	820	222.05	11900	1.0	42	**2KJ4508 - ■ DD22 - ■ ■ H2**	
	7.5	695	188.85	12100	1.2	42	**2KJ4508 - ■ DD22 - ■ ■ G2**	
	8.3	635	171.69	12200	1.3	42	**2KJ4508 - ■ DD22 - ■ ■ F2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**K.79-LHN80MD4E**							
	9.3	565	153.18	12300	1.4	42	**2KJ4508 - ■ DD22 - ■ ■ E2**	
	10	505	137.35	12400	1.6	42	**2KJ4508 - ■ DD22 - ■ ■ D2**	
	11	455	123.80	12500	1.8	42	**2KJ4508 - ■ DD22 - ■ ■ C2**	
	12	420	114.28	12600	1.9	42	**2KJ4508 - ■ DD22 - ■ ■ B2**	
	14	385	104.32	12600	2.1	42	**2KJ4508 - ■ DD22 - ■ ■ A2**	
	K.79-LHN80MH6E							
	5.2	1 010	171.69	12200	0.81	41	**2KJ4508 - ■ DG22 - ■ ■ F2**	**P01**
	K.89-LHN80MD4E							
	6.1	855	231.80	18100	1.9	63	**2KJ4510 - ■ DD22 - ■ ■ K2**	
	6.7	775	210.72	18100	2.1	63	**2KJ4510 - ■ DD22 - ■ ■ J2**	
	K.89-LHN80MH6E							
	3.8	1 360	231.80	18100	1.2	64	**2KJ4510 - ■ DG22 - ■ ■ K2**	**P01**
	4.2	1 240	210.72	18100	1.3	64	**2KJ4510 - ■ DG22 - ■ ■ J2**	**P01**
	4.7	1 110	189.01	18100	1.4	64	**2KJ4510 - ■ DG22 - ■ ■ H2**	**P01**
	5.2	1 000	169.94	18100	1.6	64	**2KJ4510 - ■ DG22 - ■ ■ G2**	**P01**
	5.8	905	153.70	18100	1.8	64	**2KJ4510 - ■ DG22 - ■ ■ F2**	**P01**
	K.79-Z19-LHN71ME4							
	4.9	970	268.68	13600	0.84	41	**2KJ4526 - ■ CF21 - ■ ■ A1**	
	K.89-Z39-LHN71ME4							
	2.6	1 830	506.00	18100	0.87	65	**2KJ4528 - ■ CF21 - ■ ■ G1**	
	2.8	1 720	476.00	18100	0.93	65	**2KJ4528 - ■ CF21 - ■ ■ F1**	
	2.9	1 620	448.00	18100	0.98	65	**2KJ4528 - ■ CF21 - ■ ■ E1**	
	3.3	1 450	401.00	18100	1.1	65	**2KJ4528 - ■ CF21 - ■ ■ D1**	
	3.8	1 230	341.78	18100	1.3	65	**2KJ4528 - ■ CF21 - ■ ■ C1**	
	K.69-Z19-LHN80MD4E							
	6.6	725	216.25	10000	0.83	39	**2KJ4524 - ■ DD22 - ■ ■ A1**	
	K.79-Z19-LHN80MD4E							
	5.3	900	268.68	13800	0.91	44	**2KJ4526 - ■ DD22 - ■ ■ A1**	
	K.89-Z39-LHN80MD4E							
	2.4	1 990	594.00	18100	0.8	69	**2KJ4528 - ■ DD22 - ■ ■ H1**	
	2.8	1 690	506.00	18100	0.94	69	**2KJ4528 - ■ DD22 - ■ ■ G1**	
	3.0	1 590	476.00	18100	1.0	69	**2KJ4528 - ■ DD22 - ■ ■ F1**	
	3.2	1 500	448.00	18100	1.1	69	**2KJ4528 - ■ DD22 - ■ ■ E1**	
	3.5	1 340	401.00	18100	1.2	69	**2KJ4528 - ■ DD22 - ■ ■ D1**	
	4.2	1 140	341.78	18100	1.4	69	**2KJ4528 - ■ DD22 - ■ ■ C1**	
	4.8	980	292.96	18100	1.6	69	**2KJ4528 - ■ DD22 - ■ ■ B1**	
	5.6	845	252.27	18100	1.9	69	**2KJ4528 - ■ DD22 - ■ ■ A1**	
	K.109-Z39-LHN71ME4							
	1.7	2 780	767.00	24500	1.0	102	**2KJ4531 - ■ CF21 - ■ ■ L1**	
	1.8	2 610	722.00	24500	1.1	102	**2KJ4531 - ■ CF21 - ■ ■ K1**	
	2.0	2 340	647.00	24500	1.2	102	**2KJ4531 - ■ CF21 - ■ ■ J1**	
	2.4	1 990	551.00	24500	1.5	102	**2KJ4531 - ■ CF21 - ■ ■ H1**	
	3.1	1 550	428.00	24500	1.9	102	**2KJ4531 - ■ CF21 - ■ ■ F1**	
	3.3	1 460	403.00	24500	2.0	102	**2KJ4531 - ■ CF21 - ■ ■ E1**	
	K.129-Z39-LHN71ME4							
	0.87	5 500	1 518.00	36500	0.8	153	**2KJ4533 - ■ CF21 - ■ ■ M1**	
	0.92	5 180	1 429.00	36800	0.85	153	**2KJ4533 - ■ CF21 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**K.129-Z39-LHN71ME4**							
	1.0	4 640	1 280.00	37 400	0.95	153	**2KJ4533 - ■ CF21 - ■ ■ K1**	
	1.2	3 950	1 090.00	38 000	1.1	153	**2KJ4533 - ■ CF21 - ■ ■ J1**	
	2.0	2 400	664.00	39 500	1.8	153	**2KJ4533 - ■ CF21 - ■ ■ F1**	
	2.1	2 260	625.00	39 700	1.9	153	**2KJ4533 - ■ CF21 - ■ ■ E1**	
	K.149-Z49-LHN71ME4							
	0.51	9 430	2 602.00	65 000	0.85	247	**2KJ4535 - ■ CF21 - ■ ■ V1**	
	0.56	8 450	2 333.00	65 000	0.95	247	**2KJ4535 - ■ CF21 - ■ ■ U1**	
	0.63	7 620	2 103.00	65 000	1.0	247	**2KJ4535 - ■ CF21 - ■ ■ T1**	
	0.68	7 030	1 941.00	65 000	1.1	247	**2KJ4535 - ■ CF21 - ■ ■ S1**	
	0.74	6 420	1 772.00	65 000	1.2	247	**2KJ4535 - ■ CF21 - ■ ■ R1**	
	0.89	5 330	1 470.00	65 000	1.5	247	**2KJ4535 - ■ CF21 - ■ ■ Q1**	
	0.95	5 010	1 384.00	65 000	1.6	247	**2KJ4535 - ■ CF21 - ■ ■ P1**	
	1.0	4 730	1 307.00	65 000	1.7	247	**2KJ4535 - ■ CF21 - ■ ■ N1**	
	1.2	4 030	1 112.00	65 000	2.0	247	**2KJ4535 - ■ CF21 - ■ ■ M1**	
	K.169-Z49-LHN71ME4							
	0.3	15 900	4 391.00	70 000	0.82	418	**2KJ4537 - ■ CF21 - ■ ■ X1**	
	0.34	14 200	3 918.00	70 000	0.92	418	**2KJ4537 - ■ CF21 - ■ ■ W1**	
	0.37	12 700	3 513.00	70 000	1.0	418	**2KJ4537 - ■ CF21 - ■ ■ V1**	
	0.42	11 400	3 167.00	70 000	1.1	418	**2KJ4537 - ■ CF21 - ■ ■ U1**	
	0.45	10 500	2 923.00	70 000	1.2	418	**2KJ4537 - ■ CF21 - ■ ■ T1**	
	0.49	9 670	2 668.00	70 000	1.3	418	**2KJ4537 - ■ CF21 - ■ ■ S1**	
	0.59	8 020	2 214.00	70 000	1.6	418	**2KJ4537 - ■ CF21 - ■ ■ R1**	
	0.63	7 550	2 084.00	70 000	1.7	418	**2KJ4537 - ■ CF21 - ■ ■ Q1**	
	0.67	7 130	1 968.00	70 000	1.8	418	**2KJ4537 - ■ CF21 - ■ ■ P1**	
	K.189-D69-LHN71ME4							
	0.2	23 300	6 517.00	104 000	0.83	659	**2KJ4541 - ■ CF21 - ■ ■ A1**	
	K.189-Z69-LHN71ME4							
	0.21	23 100	6 375.00	104 000	0.84	659	**2KJ4540 - ■ CF21 - ■ ■ C2**	
	0.23	21 000	5 795.00	104 000	0.93	659	**2KJ4540 - ■ CF21 - ■ ■ B2**	
	0.27	17 800	4 929.00	104 000	1.1	659	**2KJ4540 - ■ CF21 - ■ ■ A2**	
	0.29	16 200	4 481.00	104 000	1.2	659	**2KJ4540 - ■ CF21 - ■ ■ X1**	
	0.33	14 400	3 998.00	104 000	1.3	659	**2KJ4540 - ■ CF21 - ■ ■ W1**	
	0.37	12 900	3 585.00	104 000	1.5	659	**2KJ4540 - ■ CF21 - ■ ■ V1**	
	0.41	11 700	3 231.00	104 000	1.7	659	**2KJ4540 - ■ CF21 - ■ ■ U1**	
	0.44	10 800	2 983.00	104 000	1.8	659	**2KJ4540 - ■ CF21 - ■ ■ T1**	
	0.48	9 870	2 723.00	104 000	2.0	659	**2KJ4540 - ■ CF21 - ■ ■ S1**	
	K.109-Z39-LHN80MD4E							
	1.3	3 620	1 080.00	24 500	0.8	106	**2KJ4531 - ■ DD22 - ■ ■ N1**	
	1.5	3 120	930.00	24 500	0.93	106	**2KJ4531 - ■ DD22 - ■ ■ M1**	
	1.9	2 570	767.00	24 500	1.1	106	**2KJ4531 - ■ DD22 - ■ ■ L1**	
	2.0	2 420	722.00	24 500	1.2	106	**2KJ4531 - ■ DD22 - ■ ■ K1**	
	2.2	2 170	647.00	24 500	1.3	106	**2KJ4531 - ■ DD22 - ■ ■ J1**	
	2.6	1 850	551.00	24 500	1.6	106	**2KJ4531 - ■ DD22 - ■ ■ H1**	
	2.7	1 740	519.00	24 500	1.7	106	**2KJ4531 - ■ DD22 - ■ ■ G1**	
	3.3	1 430	428.00	24 500	2.0	106	**2KJ4531 - ■ DD22 - ■ ■ F1**	
	K.129-Z39-LHN80MD4E							
	0.94	5 090	1 518.00	36 900	0.86	157	**2KJ4533 - ■ DD22 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**K.129-Z39-LHN80MD4E**							
	0.99	4 790	1 429.00	37 200	0.92	157	**2KJ4533 - ■ DD22 - ■ ■ L1**	
	1.1	4 290	1 280.00	37 700	1.0	157	**2KJ4533 - ■ DD22 - ■ ■ K1**	
	1.3	3 660	1 090.00	38 300	1.2	157	**2KJ4533 - ■ DD22 - ■ ■ J1**	
	1.5	3 130	934.00	38 800	1.4	157	**2KJ4533 - ■ DD22 - ■ ■ H1**	
	1.8	2 700	804.00	39 300	1.6	157	**2KJ4533 - ■ DD22 - ■ ■ G1**	
	2.1	2 230	664.00	39 700	2.0	157	**2KJ4533 - ■ DD22 - ■ ■ F1**	
	K.149-Z49-LHN80MD4E							
	0.49	9 790	2 917.00	65 000	0.82	251	**2KJ4535 - ■ DD22 - ■ ■ W1**	
	0.55	8 730	2 602.00	65 000	0.92	251	**2KJ4535 - ■ DD22 - ■ ■ V1**	
	0.61	7 830	2 333.00	65 000	1.0	251	**2KJ4535 - ■ DD22 - ■ ■ U1**	
	0.68	7 060	2 103.00	65 000	1.1	251	**2KJ4535 - ■ DD22 - ■ ■ T1**	
	0.73	6 510	1 941.00	65 000	1.2	251	**2KJ4535 - ■ DD22 - ■ ■ S1**	
	0.8	5 950	1 772.00	65 000	1.3	251	**2KJ4535 - ■ DD22 - ■ ■ R1**	
	0.97	4 930	1 470.00	65 000	1.6	251	**2KJ4535 - ■ DD22 - ■ ■ Q1**	
	1.0	4 640	1 384.00	65 000	1.7	251	**2KJ4535 - ■ DD22 - ■ ■ P1**	
	1.1	4 380	1 307.00	65 000	1.8	251	**2KJ4535 - ■ DD22 - ■ ■ N1**	
	K.169-Z49-LHN80MD4E							
	0.29	16 200	4 831.00	70 000	0.8	422	**2KJ4537 - ■ DD22 - ■ ■ A2**	
	0.32	14 700	4 391.00	70 000	0.88	422	**2KJ4537 - ■ DD22 - ■ ■ X1**	
	0.36	13 100	3 918.00	70 000	0.99	422	**2KJ4537 - ■ DD22 - ■ ■ W1**	
	0.4	11 700	3 513.00	70 000	1.1	422	**2KJ4537 - ■ DD22 - ■ ■ V1**	
	0.45	10 600	3 167.00	70 000	1.2	422	**2KJ4537 - ■ DD22 - ■ ■ U1**	
	0.49	9 810	2 923.00	70 000	1.3	422	**2KJ4537 - ■ DD22 - ■ ■ T1**	
	0.53	8 950	2 668.00	70 000	1.5	422	**2KJ4537 - ■ DD22 - ■ ■ S1**	
	0.64	7 430	2 214.00	70 000	1.7	422	**2KJ4537 - ■ DD22 - ■ ■ R1**	
	0.68	6 990	2 084.00	70 000	1.9	422	**2KJ4537 - ■ DD22 - ■ ■ Q1**	
	0.72	6 600	1 968.00	70 000	2.0	422	**2KJ4537 - ■ DD22 - ■ ■ P1**	
	K.189-D69-LHN80MD4E							
	0.22	21 600	6 517.00	104 000	0.9	663	**2KJ4541 - ■ DD22 - ■ ■ A1**	
	K.189-Z69-LHN80MD4E							
	0.22	21 400	6 375.00	104 000	0.91	663	**2KJ4540 - ■ DD22 - ■ ■ C2**	
	0.25	19 400	5 795.00	104 000	1.0	663	**2KJ4540 - ■ DD22 - ■ ■ B2**	
	0.29	16 500	4 929.00	104 000	1.2	663	**2KJ4540 - ■ DD22 - ■ ■ A2**	
	0.32	15 000	4 481.00	104 000	1.3	663	**2KJ4540 - ■ DD22 - ■ ■ X1**	
	0.36	13 400	3 998.00	104 000	1.5	663	**2KJ4540 - ■ DD22 - ■ ■ W1**	
	0.4	12 000	3 585.00	104 000	1.6	663	**2KJ4540 - ■ DD22 - ■ ■ V1**	
	0.44	10 800	3 231.00	104 000	1.8	663	**2KJ4540 - ■ DD22 - ■ ■ U1**	
	0.48	10 000	2 983.00	104 000	1.9	663	**2KJ4540 - ■ DD22 - ■ ■ T1**	
0.75	**B.19-LHN80MG4E**							
	129	56	11.00	1900	0.9	22	**2KJ4500 - ■ DF22 - ■ ■ M1**	
	143	50	9.93	1900	1.0	22	**2KJ4500 - ■ DF22 - ■ ■ L1**	
	152	47	9.35	1900	1.1	22	**2KJ4500 - ■ DF22 - ■ ■ K1**	
	174	41	8.15	1900	1.1	22	**2KJ4500 - ■ DF22 - ■ ■ J1**	
	180	40	7.87	1900	0.96	22	**2KJ4500 - ■ DF22 - ■ ■ H1**	
	203	35	6.99	1900	1.1	22	**2KJ4500 - ■ DF22 - ■ ■ G1**	
	220	32	6.45	1900	1.2	22	**2KJ4500 - ■ DF22 - ■ ■ F1**	
	253	28	5.61	1900	1.3	22	**2KJ4500 - ■ DF22 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**B.19-LHN80MG4E**							
	292	25	4.87	1900	1.4	22	**2KJ4500 - ■ DF22 - ■ ■ D1**	
	323	22	4.4	1900	1.5	22	**2KJ4500 - ■ DF22 - ■ ■ C1**	
	343	21	4.14	1900	1.6	22	**2KJ4500 - ■ DF22 - ■ ■ B1**	
	393	18	3.61	1800	1.7	22	**2KJ4500 - ■ DF22 - ■ ■ A1**	
	B.29-LHN80MG4E							
	56	129	25.56	4200	0.85	24	**2KJ4501 - ■ DF22 - ■ ■ U1**	
	63	113	22.41	4200	0.97	24	**2KJ4501 - ■ DF22 - ■ ■ T1**	
	71	101	20.00	4200	1.1	24	**2KJ4501 - ■ DF22 - ■ ■ S1**	
	80	90	17.82	4200	1.2	24	**2KJ4501 - ■ DF22 - ■ ■ R1**	
	86	83	16.45	4200	1.3	24	**2KJ4501 - ■ DF22 - ■ ■ Q1**	
	99	73	14.4	4200	1.5	24	**2KJ4501 - ■ DF22 - ■ ■ P1**	
	112	64	12.63	4000	1.7	24	**2KJ4501 - ■ DF22 - ■ ■ N1**	
	124	58	11.46	3900	1.9	24	**2KJ4501 - ■ DF22 - ■ ■ M1**	
	132	54	10.78	3900	2.0	24	**2KJ4501 - ■ DF22 - ■ ■ L1**	
	149	48	9.51	3700	2.3	24	**2KJ4501 - ■ DF22 - ■ ■ K1**	
	172	42	8.25	3600	2.6	24	**2KJ4501 - ■ DF22 - ■ ■ J1**	
	181	40	7.84	3500	1.9	24	**2KJ4501 - ■ DF22 - ■ ■ H1**	
	192	37	7.38	3400	2.0	24	**2KJ4501 - ■ DF22 - ■ ■ G1**	
	218	33	6.51	3300	2.3	24	**2KJ4501 - ■ DF22 - ■ ■ F1**	
	251	28	5.65	3200	2.6	24	**2KJ4501 - ■ DF22 - ■ ■ E1**	
	280	26	5.07	3100	2.9	24	**2KJ4501 - ■ DF22 - ■ ■ D1**	
	297	24	4.78	3100	3.1	24	**2KJ4501 - ■ DF22 - ■ ■ C1**	
	337	21	4.21	2900	3.5	24	**2KJ4501 - ■ DF22 - ■ ■ B1**	
	389	18	3.65	2800	4.0	24	**2KJ4501 - ■ DF22 - ■ ■ A1**	
	B.39-LHN80MG4E							
	28	250	50.11	6900	0.83	29	**2KJ4502 - ■ DF22 - ■ ■ X1**	
	32	220	44.00	6900	1.1	29	**2KJ4502 - ■ DF22 - ■ ■ W1**	
	36	200	40.00	6900	1.1	29	**2KJ4502 - ■ DF22 - ■ ■ V1**	
	41	173	34.22	6900	1.4	29	**2KJ4502 - ■ DF22 - ■ ■ U1**	
	46	157	31.11	6900	1.6	29	**2KJ4502 - ■ DF22 - ■ ■ T1**	
	52	139	27.5	6900	1.8	29	**2KJ4502 - ■ DF22 - ■ ■ S1**	
	57	126	25.00	6900	2.0	29	**2KJ4502 - ■ DF22 - ■ ■ R1**	
	65	110	21.9	6900	2.3	29	**2KJ4502 - ■ DF22 - ■ ■ Q1**	
	70	102	20.21	6900	2.5	29	**2KJ4502 - ■ DF22 - ■ ■ P1**	
	79	90	17.9	6900	2.8	29	**2KJ4502 - ■ DF22 - ■ ■ N1**	
	95	75	14.9	6900	3.3	29	**2KJ4502 - ■ DF22 - ■ ■ M1**	
	101	71	14.02	6900	3.5	29	**2KJ4502 - ■ DF22 - ■ ■ L1**	
	B.39-LHN90SH6E							
	27	260	34.22	6900	0.96	36	**2KJ4502 - ■ EC22 - ■ ■ U1**	**P01**
	K.39-LHN80MG4E							
	29	240	48.37	5300	0.9	29	**2KJ4504 - ■ DF22 - ■ ■ W1**	
	33	210	42.41	5300	1.0	29	**2KJ4504 - ■ DF22 - ■ ■ V1**	
	37	194	38.48	5400	1.1	29	**2KJ4504 - ■ DF22 - ■ ■ U1**	
	39	183	36.21	5400	1.2	29	**2KJ4504 - ■ DF22 - ■ ■ T1**	
	44	161	31.92	5500	1.4	29	**2KJ4504 - ■ DF22 - ■ ■ S1**	
	51	140	27.70	5500	1.6	29	**2KJ4504 - ■ DF22 - ■ ■ R1**	
	53	136	26.89	5500	1.6	29	**2KJ4504 - ■ DF22 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**K.39-LHN80MG4E**							
	59	121	23.97	5600	1.8	29	**2KJ4504 - ■ DF22 - ■ ■ P1**	
	64	112	22.12	5500	2.0	29	**2KJ4504 - ■ DF22 - ■ ■ N1**	
	73	98	19.37	5300	2.3	29	**2KJ4504 - ■ DF22 - ■ ■ M1**	
	84	86	16.98	5100	2.6	29	**2KJ4504 - ■ DF22 - ■ ■ L1**	
	92	78	15.41	5000	2.8	29	**2KJ4504 - ■ DF22 - ■ ■ K1**	
	98	73	14.50	4900	3.0	29	**2KJ4504 - ■ DF22 - ■ ■ J1**	
	111	64	12.78	4800	3.4	29	**2KJ4504 - ■ DF22 - ■ ■ H1**	
	141	51	10.04	4400	3.6	29	**2KJ4504 - ■ DF22 - ■ ■ F1**	
	161	44	8.81	4200	4.1	29	**2KJ4504 - ■ DF22 - ■ ■ E1**	
	K.39-LHN90SH6E							
	26	275	36.21	5400	0.8	37	**2KJ4504 - ■ EC22 - ■ ■ T1**	**P01**
	B.49-LHN80MG4E							
	24	295	59.28	11000	1.5	35	**2KJ4503 - ■ DF22 - ■ ■ C2**	
	26	270	53.89	10800	1.7	35	**2KJ4503 - ■ DF22 - ■ ■ B2**	
	31	230	45.83	10300	1.9	35	**2KJ4503 - ■ DF22 - ■ ■ A2**	
	34	210	41.67	10100	2.1	35	**2KJ4503 - ■ DF22 - ■ ■ X1**	
	38	188	37.18	9800	2.4	35	**2KJ4503 - ■ DF22 - ■ ■ W1**	
	43	168	33.33	9500	2.7	35	**2KJ4503 - ■ DF22 - ■ ■ V1**	
	B.49-LHN90SH6E							
	16	450	59.28	11500	1.0	41	**2KJ4503 - ■ EC22 - ■ ■ C2**	**P01**
	17	410	53.89	11500	1.1	41	**2KJ4503 - ■ EC22 - ■ ■ B2**	**P01**
	21	345	45.83	11500	1.3	41	**2KJ4503 - ■ EC22 - ■ ■ A2**	**P01**
	23	315	41.67	11500	1.4	41	**2KJ4503 - ■ EC22 - ■ ■ X1**	**P01**
	K.49-LHN80MG4E							
	15	490	97.71	5400	0.85	37	**2KJ4505 - ■ DF22 - ■ ■ C2**	
	16	445	88.83	5600	0.94	37	**2KJ4505 - ■ DF22 - ■ ■ B2**	
	18	390	77.81	6000	1.1	37	**2KJ4505 - ■ DF22 - ■ ■ A2**	
	20	360	71.82	6100	1.2	37	**2KJ4505 - ■ DF22 - ■ ■ X1**	
	22	320	63.59	6400	1.3	37	**2KJ4505 - ■ DF22 - ■ ■ W1**	
	27	265	52.93	6700	1.6	37	**2KJ4505 - ■ DF22 - ■ ■ V1**	
	29	250	49.82	6800	1.7	37	**2KJ4505 - ■ DF22 - ■ ■ U1**	
	32	225	44.63	6900	1.9	37	**2KJ4505 - ■ DF22 - ■ ■ T1**	
	37	192	38.00	6900	2.2	37	**2KJ4505 - ■ DF22 - ■ ■ S1**	
	44	164	32.57	6700	2.6	37	**2KJ4505 - ■ DF22 - ■ ■ R1**	
	K.69-LHN80MG4E							
	10	695	138.18	7600	0.86	44	**2KJ4507 - ■ DF22 - ■ ■ E2**	
	12	620	123.29	8000	0.96	44	**2KJ4507 - ■ DF22 - ■ ■ D2**	
	13	555	110.55	8400	1.1	44	**2KJ4507 - ■ DF22 - ■ ■ C2**	
	14	500	99.64	8700	1.2	44	**2KJ4507 - ■ DF22 - ■ ■ B2**	
	15	460	91.98	8900	1.3	44	**2KJ4507 - ■ DF22 - ■ ■ A2**	
	17	420	83.96	9100	1.4	44	**2KJ4507 - ■ DF22 - ■ ■ X1**	
	20	350	69.67	9500	1.7	44	**2KJ4507 - ■ DF22 - ■ ■ W1**	
	22	330	65.57	9600	1.8	44	**2KJ4507 - ■ DF22 - ■ ■ V1**	
	23	310	61.93	9700	1.9	44	**2KJ4507 - ■ DF22 - ■ ■ U1**	
	27	265	52.69	9900	2.3	44	**2KJ4507 - ■ DF22 - ■ ■ T1**	
	K.79-LHN80MG4E							
	7.5	950	188.85	12100	0.86	49	**2KJ4508 - ■ DF22 - ■ ■ G2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**K.79-LHN80MG4E**							
	8.3	865	171.69	12200	0.95	49	**2KJ4508 - ■ DF22 - ■ ■ F2**	
	9.3	770	153.18	12300	1.1	49	**2KJ4508 - ■ DF22 - ■ ■ E2**	
	10	690	137.35	12400	1.2	49	**2KJ4508 - ■ DF22 - ■ ■ D2**	
	11	620	123.80	12500	1.3	49	**2KJ4508 - ■ DF22 - ■ ■ C2**	
	12	575	114.28	12600	1.4	49	**2KJ4508 - ■ DF22 - ■ ■ B2**	
	14	525	104.32	12600	1.6	49	**2KJ4508 - ■ DF22 - ■ ■ A2**	
	16	435	86.56	12800	1.9	49	**2KJ4508 - ■ DF22 - ■ ■ X1**	
	17	410	81.47	12800	2.0	49	**2KJ4508 - ■ DF22 - ■ ■ W1**	
	18	385	76.94	12800	2.1	49	**2KJ4508 - ■ DF22 - ■ ■ V1**	
	K.89-LHN80MG4E							
	6.1	1 160	231.80	18100	1.4	70	**2KJ4510 - ■ DF22 - ■ ■ K2**	
	6.7	1 060	210.72	18100	1.5	70	**2KJ4510 - ■ DF22 - ■ ■ J2**	
	7.5	950	189.01	18100	1.7	70	**2KJ4510 - ■ DF22 - ■ ■ H2**	
	8.4	855	169.94	18100	1.9	70	**2KJ4510 - ■ DF22 - ■ ■ G2**	
	9.2	775	153.70	18100	2.1	70	**2KJ4510 - ■ DF22 - ■ ■ F2**	
	10	715	141.88	18100	2.2	70	**2KJ4510 - ■ DF22 - ■ ■ E2**	
	K.89-LHN90SH6E							
	4.1	1 760	231.80	18100	0.91	77	**2KJ4510 - ■ EC22 - ■ ■ K2**	**P01**
	4.5	1 600	210.72	18100	1.0	77	**2KJ4510 - ■ EC22 - ■ ■ J2**	**P01**
	5.0	1 440	189.01	18100	1.1	77	**2KJ4510 - ■ EC22 - ■ ■ H2**	**P01**
	5.5	1 290	169.94	18100	1.2	77	**2KJ4510 - ■ EC22 - ■ ■ G2**	**P01**
	K.109-LHN90SH6E							
	4.3	1 650	216.65	24500	1.8	114	**2KJ4511 - ■ EC22 - ■ ■ H2**	**P01**
	4.8	1 490	195.60	24500	1.9	114	**2KJ4511 - ■ EC22 - ■ ■ G2**	**P01**
	5.3	1 350	177.43	24500	2.1	114	**2KJ4511 - ■ EC22 - ■ ■ F2**	**P01**
	K.89-Z39-LHN80MG4E							
	3.5	1 850	401.00	18100	0.86	76	**2KJ4528 - ■ DF22 - ■ ■ D1**	
	4.2	1 580	341.78	18100	1.0	76	**2KJ4528 - ■ DF22 - ■ ■ C1**	
	4.8	1 350	292.96	18100	1.2	76	**2KJ4528 - ■ DF22 - ■ ■ B1**	
	5.6	1 170	252.27	18100	1.4	76	**2KJ4528 - ■ DF22 - ■ ■ A1**	
	K.109-Z39-LHN80MG4E							
	1.9	3 550	767.00	24500	0.82	112	**2KJ4531 - ■ DF22 - ■ ■ L1**	
	2.0	3 340	722.00	24500	0.87	112	**2KJ4531 - ■ DF22 - ■ ■ K1**	
	2.2	3 000	647.00	24500	0.97	112	**2KJ4531 - ■ DF22 - ■ ■ J1**	
	2.6	2 550	551.00	24500	1.1	112	**2KJ4531 - ■ DF22 - ■ ■ H1**	
	2.7	2 400	519.00	24500	1.2	112	**2KJ4531 - ■ DF22 - ■ ■ G1**	
	3.3	1 980	428.00	24500	1.5	112	**2KJ4531 - ■ DF22 - ■ ■ F1**	
	3.5	1 860	403.00	24500	1.6	112	**2KJ4531 - ■ DF22 - ■ ■ E1**	
	3.9	1 670	361.00	24500	1.7	112	**2KJ4531 - ■ DF22 - ■ ■ D1**	
	4.6	1 420	307.54	24500	2.0	112	**2KJ4531 - ■ DF22 - ■ ■ C1**	
	K.129-Z39-LHN80MG4E							
	1.3	5 050	1 090.00	37000	0.87	163	**2KJ4533 - ■ DF22 - ■ ■ J1**	
	1.5	4 330	934.00	37700	1.0	163	**2KJ4533 - ■ DF22 - ■ ■ H1**	
	1.8	3 720	804.00	38300	1.2	163	**2KJ4533 - ■ DF22 - ■ ■ G1**	
	2.1	3 070	664.00	38900	1.4	163	**2KJ4533 - ■ DF22 - ■ ■ F1**	
	2.3	2 890	625.00	39100	1.5	163	**2KJ4533 - ■ DF22 - ■ ■ E1**	
	2.5	2 590	560.00	39400	1.7	163	**2KJ4533 - ■ DF22 - ■ ■ D1**	
	3.0	2 200	476.00	39700	2.0	163	**2KJ4533 - ■ DF22 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**K.149-Z49-LHN80MG4E**							
	0.68	9 750	2 103.00	65000	0.82	258	**2KJ4535 - ■ DF22 - ■ ■ T1**	
	0.73	9 000	1 941.00	65000	0.89	258	**2KJ4535 - ■ DF22 - ■ ■ S1**	
	0.8	8 210	1 772.00	65000	0.97	258	**2KJ4535 - ■ DF22 - ■ ■ R1**	
	0.97	6 810	1 470.00	65000	1.2	258	**2KJ4535 - ■ DF22 - ■ ■ Q1**	
	1.0	6 410	1 384.00	65000	1.2	258	**2KJ4535 - ■ DF22 - ■ ■ P1**	
	1.1	6 060	1 307.00	65000	1.3	258	**2KJ4535 - ■ DF22 - ■ ■ N1**	
	1.3	5 150	1 112.00	65000	1.6	258	**2KJ4535 - ■ DF22 - ■ ■ M1**	
	1.5	4 410	953.00	65000	1.8	258	**2KJ4535 - ■ DF22 - ■ ■ L1**	
	K.169-Z49-LHN80MG4E							
	0.4	16 200	3 513.00	70000	0.8	429	**2KJ4537 - ■ DF22 - ■ ■ V1**	
	0.45	14 600	3 167.00	70000	0.89	429	**2KJ4537 - ■ DF22 - ■ ■ U1**	
	0.49	13 500	2 923.00	70000	0.96	429	**2KJ4537 - ■ DF22 - ■ ■ T1**	
	0.53	12 300	2 668.00	70000	1.1	429	**2KJ4537 - ■ DF22 - ■ ■ S1**	
	0.64	10 200	2 214.00	70000	1.3	429	**2KJ4537 - ■ DF22 - ■ ■ R1**	
	0.68	9 660	2 084.00	70000	1.3	429	**2KJ4537 - ■ DF22 - ■ ■ Q1**	
	0.72	9 120	1 968.00	70000	1.4	429	**2KJ4537 - ■ DF22 - ■ ■ P1**	
	0.85	7 760	1 675.00	70000	1.7	429	**2KJ4537 - ■ DF22 - ■ ■ N1**	
	0.99	6 650	1 435.00	70000	2.0	429	**2KJ4537 - ■ DF22 - ■ ■ M1**	
	K.189-Z69-LHN80MG4E							
	0.29	22 800	4 929.00	104000	0.85	670	**2KJ4540 - ■ DF22 - ■ ■ A2**	
	0.32	20 700	4 481.00	104000	0.94	670	**2KJ4540 - ■ DF22 - ■ ■ X1**	
	0.36	18 500	3 998.00	104000	1.1	670	**2KJ4540 - ■ DF22 - ■ ■ W1**	
	0.4	16 600	3 585.00	104000	1.2	670	**2KJ4540 - ■ DF22 - ■ ■ V1**	
	0.44	14 900	3 231.00	104000	1.3	670	**2KJ4540 - ■ DF22 - ■ ■ U1**	
	0.48	13 800	2 983.00	104000	1.4	670	**2KJ4540 - ■ DF22 - ■ ■ T1**	
	0.52	12 600	2 723.00	104000	1.5	670	**2KJ4540 - ■ DF22 - ■ ■ S1**	
	0.63	10 400	2 259.00	104000	1.9	670	**2KJ4540 - ■ DF22 - ■ ■ R1**	
	0.67	9 850	2 126.00	104000	2.0	670	**2KJ4540 - ■ DF22 - ■ ■ Q1**	
1.1	**B.29-LHN90SH4E**							
	80	132	17.82	4200	0.83	31	**2KJ4501 - ■ EL22 - ■ ■ R1**	
	86	122	16.45	4200	0.9	31	**2KJ4501 - ■ EL22 - ■ ■ Q1**	
	99	107	14.40	4200	1.0	31	**2KJ4501 - ■ EL22 - ■ ■ P1**	
	112	93	12.63	4000	1.2	31	**2KJ4501 - ■ EL22 - ■ ■ N1**	
	124	85	11.46	3900	1.3	31	**2KJ4501 - ■ EL22 - ■ ■ M1**	
	132	80	10.78	3900	1.4	31	**2KJ4501 - ■ EL22 - ■ ■ L1**	
	149	70	9.51	3700	1.6	31	**2KJ4501 - ■ EL22 - ■ ■ K1**	
	172	61	8.25	3600	1.8	31	**2KJ4501 - ■ EL22 - ■ ■ J1**	
	181	58	7.84	3500	1.3	31	**2KJ4501 - ■ EL22 - ■ ■ H1**	
	192	55	7.38	3400	1.4	31	**2KJ4501 - ■ EL22 - ■ ■ G1**	
	218	48	6.51	3300	1.6	31	**2KJ4501 - ■ EL22 - ■ ■ F1**	
	251	42	5.65	3200	1.8	31	**2KJ4501 - ■ EL22 - ■ ■ E1**	
	280	38	5.07	3100	2.0	31	**2KJ4501 - ■ EL22 - ■ ■ D1**	
	297	35	4.78	3100	2.1	31	**2KJ4501 - ■ EL22 - ■ ■ C1**	
	337	31	4.21	2900	2.4	31	**2KJ4501 - ■ EL22 - ■ ■ B1**	
	389	27	3.65	2800	2.7	31	**2KJ4501 - ■ EL22 - ■ ■ A1**	
	B.39-LHN90SH4E							
	41	250	34.22	6900	0.99	36	**2KJ4502 - ■ EL22 - ■ ■ U1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**B.39-LHN90SH4E**							
	46	230	31.11	6900	1.1	36	**2KJ4502 - ■ EL22 - ■ ■ T1**	
	52	200	27.50	6900	1.2	36	**2KJ4502 - ■ EL22 - ■ ■ S1**	
	57	185	25.00	6900	1.4	36	**2KJ4502 - ■ EL22 - ■ ■ R1**	
	65	162	21.90	6900	1.5	36	**2KJ4502 - ■ EL22 - ■ ■ Q1**	
	70	150	20.21	6900	1.7	36	**2KJ4502 - ■ EL22 - ■ ■ P1**	
	79	132	17.90	6900	1.9	36	**2KJ4502 - ■ EL22 - ■ ■ N1**	
	95	110	14.90	6900	2.3	36	**2KJ4502 - ■ EL22 - ■ ■ M1**	
	101	104	14.02	6900	2.4	36	**2KJ4502 - ■ EL22 - ■ ■ L1**	
	113	93	12.56	6800	2.7	36	**2KJ4502 - ■ EL22 - ■ ■ K1**	
	133	79	10.69	6500	3.0	36	**2KJ4502 - ■ EL22 - ■ ■ J1**	
	155	68	9.17	6200	3.4	36	**2KJ4502 - ■ EL22 - ■ ■ H1**	
	180	58	7.89	5900	3.8	36	**2KJ4502 - ■ EL22 - ■ ■ G1**	
	215	49	6.60	5600	4.1	36	**2KJ4502 - ■ EL22 - ■ ■ F1**	
	229	46	6.21	5500	4.4	36	**2KJ4502 - ■ EL22 - ■ ■ E1**	
	K.39-LHN90SH4E							
	39	265	36.21	5400	0.82	37	**2KJ4504 - ■ EL22 - ■ ■ T1**	
	44	235	31.92	5500	0.93	37	**2KJ4504 - ■ EL22 - ■ ■ S1**	
	51	205	27.70	5500	1.1	37	**2KJ4504 - ■ EL22 - ■ ■ R1**	
	53	199	26.89	5500	1.1	37	**2KJ4504 - ■ EL22 - ■ ■ Q1**	
	59	177	23.97	5600	1.2	37	**2KJ4504 - ■ EL22 - ■ ■ P1**	
	64	164	22.12	5500	1.3	37	**2KJ4504 - ■ EL22 - ■ ■ N1**	
	73	143	19.37	5300	1.5	37	**2KJ4504 - ■ EL22 - ■ ■ M1**	
	84	126	16.98	5100	1.8	37	**2KJ4504 - ■ EL22 - ■ ■ L1**	
	92	114	15.41	5000	1.9	37	**2KJ4504 - ■ EL22 - ■ ■ K1**	
	98	107	14.50	4900	2.1	37	**2KJ4504 - ■ EL22 - ■ ■ J1**	
	111	94	12.78	4800	2.3	37	**2KJ4504 - ■ EL22 - ■ ■ H1**	
	128	82	11.09	4600	2.7	37	**2KJ4504 - ■ EL22 - ■ ■ G1**	
	141	74	10.04	4400	2.5	37	**2KJ4504 - ■ EL22 - ■ ■ F1**	
	161	65	8.81	4200	2.8	37	**2KJ4504 - ■ EL22 - ■ ■ E1**	
	178	59	7.99	4100	3.0	37	**2KJ4504 - ■ EL22 - ■ ■ D1**	
	189	56	7.52	4100	3.1	37	**2KJ4504 - ■ EL22 - ■ ■ C1**	
	214	49	6.63	3900	3.3	37	**2KJ4504 - ■ EL22 - ■ ■ B1**	
	247	42	5.75	3700	3.5	37	**2KJ4504 - ■ EL22 - ■ ■ A1**	
	B.49-LHN90LK6E							
	21	505	45.83	11500	0.89	42	**2KJ4503 - ■ EQ22 - ■ ■ A2**	**P01**
	23	460	41.67	11500	0.98	42	**2KJ4503 - ■ EQ22 - ■ ■ X1**	**P01**
	B.49-LHN90SH4E							
	24	435	59.28	11000	1.0	41	**2KJ4503 - ■ EL22 - ■ ■ C2**	
	26	395	53.89	10800	1.1	41	**2KJ4503 - ■ EL22 - ■ ■ B2**	
	31	335	45.83	10300	1.3	41	**2KJ4503 - ■ EL22 - ■ ■ A2**	
	34	305	41.67	10100	1.5	41	**2KJ4503 - ■ EL22 - ■ ■ X1**	
	38	275	37.18	9800	1.6	41	**2KJ4503 - ■ EL22 - ■ ■ W1**	
	43	245	33.33	9500	1.8	41	**2KJ4503 - ■ EL22 - ■ ■ V1**	
	47	220	30.05	9200	2.0	41	**2KJ4503 - ■ EL22 - ■ ■ U1**	
	51	205	27.74	9000	2.2	41	**2KJ4503 - ■ EL22 - ■ ■ T1**	
	56	187	25.32	8800	2.4	41	**2KJ4503 - ■ EL22 - ■ ■ S1**	
	68	155	21.01	8300	2.9	41	**2KJ4503 - ■ EL22 - ■ ■ R1**	
	72	146	19.77	8200	3.1	41	**2KJ4503 - ■ EL22 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.49-LHN90SH4E**							
	22	470	63.59	6400	0.89	43	**2KJ4505 - ■ EL22 - ■ ■ W1**	
	27	390	52.93	6700	1.1	43	**2KJ4505 - ■ EL22 - ■ ■ V1**	
	29	365	49.82	6800	1.1	43	**2KJ4505 - ■ EL22 - ■ ■ U1**	
	32	330	44.63	6900	1.3	43	**2KJ4505 - ■ EL22 - ■ ■ T1**	
	37	280	38.00	6900	1.5	43	**2KJ4505 - ■ EL22 - ■ ■ S1**	
	44	240	32.57	6700	1.7	43	**2KJ4505 - ■ EL22 - ■ ■ R1**	
	51	205	28.05	6400	2.0	43	**2KJ4505 - ■ EL22 - ■ ■ Q1**	
	54	195	26.30	6300	2.2	43	**2KJ4505 - ■ EL22 - ■ ■ P1**	
	61	172	23.28	6100	2.4	43	**2KJ4505 - ■ EL22 - ■ ■ N1**	
	73	143	19.38	5800	2.9	43	**2KJ4505 - ■ EL22 - ■ ■ M1**	
	78	135	18.24	5700	3.1	43	**2KJ4505 - ■ EL22 - ■ ■ L1**	
	146	72	9.75	4800	3.8	43	**2KJ4505 - ■ EL22 - ■ ■ F1**	
	155	68	9.18	4700	4.0	43	**2KJ4505 - ■ EL22 - ■ ■ E1**	
	173	61	8.22	4500	4.2	43	**2KJ4505 - ■ EL22 - ■ ■ D1**	
	K.69-LHN90SH4E							
	14	735	99.64	8700	0.81	50	**2KJ4507 - ■ EL22 - ■ ■ B2**	
	15	680	91.98	8900	0.88	50	**2KJ4507 - ■ EL22 - ■ ■ A2**	
	17	620	83.96	9100	0.97	50	**2KJ4507 - ■ EL22 - ■ ■ X1**	
	20	515	69.67	9500	1.2	50	**2KJ4507 - ■ EL22 - ■ ■ W1**	
	22	485	65.57	9600	1.2	50	**2KJ4507 - ■ EL22 - ■ ■ V1**	
	23	455	61.93	9700	1.3	50	**2KJ4507 - ■ EL22 - ■ ■ U1**	
	27	390	52.69	9900	1.5	50	**2KJ4507 - ■ EL22 - ■ ■ T1**	
	31	330	45.14	10100	1.8	50	**2KJ4507 - ■ EL22 - ■ ■ S1**	
	36	290	39.69	10200	2.0	50	**2KJ4507 - ■ EL22 - ■ ■ R1**	
	42	245	33.48	9800	2.3	50	**2KJ4507 - ■ EL22 - ■ ■ Q1**	
	49	215	29.18	9400	2.6	50	**2KJ4507 - ■ EL22 - ■ ■ P1**	
	K.79-LHN90SH4E							
	10	1 010	137.35	12400	0.81	55	**2KJ4508 - ■ EL22 - ■ ■ D2**	
	11	915	123.80	12500	0.9	55	**2KJ4508 - ■ EL22 - ■ ■ C2**	
	12	845	114.28	12600	0.97	55	**2KJ4508 - ■ EL22 - ■ ■ B2**	
	14	770	104.32	12600	1.1	55	**2KJ4508 - ■ EL22 - ■ ■ A2**	
	16	640	86.56	12800	1.3	55	**2KJ4508 - ■ EL22 - ■ ■ X1**	
	17	600	81.47	12800	1.4	55	**2KJ4508 - ■ EL22 - ■ ■ W1**	
	18	565	76.94	12800	1.4	55	**2KJ4508 - ■ EL22 - ■ ■ V1**	
	22	480	65.47	12900	1.7	55	**2KJ4508 - ■ EL22 - ■ ■ U1**	
	25	415	56.08	13000	2.0	55	**2KJ4508 - ■ EL22 - ■ ■ T1**	
	29	365	49.31	13000	2.2	55	**2KJ4508 - ■ EL22 - ■ ■ S1**	
	34	305	41.60	13100	2.6	55	**2KJ4508 - ■ EL22 - ■ ■ R1**	
	K.89-LHN90LK6E							
	5.6	1 870	169.94	18100	0.85	78	**2KJ4510 - ■ EQ22 - ■ ■ G2**	**P01**
	K.89-LHN90SH4E							
	6.1	1 710	231.80	18100	0.93	77	**2KJ4510 - ■ EL22 - ■ ■ K2**	
	6.7	1 550	210.72	18100	1.0	77	**2KJ4510 - ■ EL22 - ■ ■ J2**	
	7.5	1 390	189.01	18100	1.1	77	**2KJ4510 - ■ EL22 - ■ ■ H2**	
	8.4	1 250	169.94	18100	1.3	77	**2KJ4510 - ■ EL22 - ■ ■ G2**	
	9.2	1 130	153.70	18100	1.4	77	**2KJ4510 - ■ EL22 - ■ ■ F2**	
	10	1 050	141.88	18100	1.5	77	**2KJ4510 - ■ EL22 - ■ ■ E2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.89-LHN90SH4E**							
	11	960	129.96	18 100	1.7	77	**2KJ4510 - ■ EL22 - ■ ■ D2**	
	13	805	109.04	18 100	2.0	77	**2KJ4510 - ■ EL22 - ■ ■ C2**	
	14	755	102.63	18 100	2.1	77	**2KJ4510 - ■ EL22 - ■ ■ B2**	
	K.109-LHN90LK6E							
	4.4	2 390	216.65	24 500	1.2	115	**2KJ4511 - ■ EQ22 - ■ ■ H2**	**P01**
	4.9	2 160	195.60	24 500	1.3	115	**2KJ4511 - ■ EQ22 - ■ ■ G2**	**P01**
	5.4	1 960	177.43	24 500	1.5	115	**2KJ4511 - ■ EQ22 - ■ ■ F2**	**P01**
	5.8	1 810	163.78	24 500	1.6	115	**2KJ4511 - ■ EQ22 - ■ ■ E2**	**P01**
	6.4	1 640	148.88	24 500	1.8	115	**2KJ4511 - ■ EQ22 - ■ ■ D2**	**P01**
	K.109-LHN90SH4E							
	6.6	1 600	216.65	24 500	1.8	114	**2KJ4511 - ■ EL22 - ■ ■ H2**	
	7.3	1 440	195.60	24 500	2.0	114	**2KJ4511 - ■ EL22 - ■ ■ G2**	
	K.129-LHN90LK6E							
	4.2	2 520	228.30	35 200	1.7	165	**2KJ4512 - ■ EQ22 - ■ ■ J2**	**P01**
	4.5	2 330	210.74	35 200	1.9	165	**2KJ4512 - ■ EQ22 - ■ ■ H2**	**P01**
	K.89-Z39-LHN90SH4E							
	5.6	1 730	252.27	18 100	0.92	83	**2KJ4528 - ■ EL22 - ■ ■ A1**	
	K.109-Z39-LHN90SH4E							
	2.7	3 560	519.00	24 500	0.81	120	**2KJ4531 - ■ EL22 - ■ ■ G1**	
	3.3	2 940	428.00	24 500	0.99	120	**2KJ4531 - ■ EL22 - ■ ■ F1**	
	3.5	2 770	403.00	24 500	1.0	120	**2KJ4531 - ■ EL22 - ■ ■ E1**	
	3.9	2 480	361.00	24 500	1.2	120	**2KJ4531 - ■ EL22 - ■ ■ D1**	
	4.6	2 110	307.54	24 500	1.4	120	**2KJ4531 - ■ EL22 - ■ ■ C1**	
	5.4	1 810	263.61	24 500	1.6	120	**2KJ4531 - ■ EL22 - ■ ■ B1**	
	6.3	1 560	227.00	24 500	1.9	120	**2KJ4531 - ■ EL22 - ■ ■ A1**	
	K.129-Z39-LHN90SH4E							
	1.8	5 520	804.00	36 500	0.8	171	**2KJ4533 - ■ EL22 - ■ ■ G1**	
	2.1	4 560	664.00	37 400	0.96	171	**2KJ4533 - ■ EL22 - ■ ■ F1**	
	2.3	4 290	625.00	37 700	1.0	171	**2KJ4533 - ■ EL22 - ■ ■ E1**	
	2.5	3 850	560.00	38 100	1.1	171	**2KJ4533 - ■ EL22 - ■ ■ D1**	
	3.0	3 270	476.00	38 700	1.3	171	**2KJ4533 - ■ EL22 - ■ ■ C1**	
	3.5	2 800	408.00	39 200	1.6	171	**2KJ4533 - ■ EL22 - ■ ■ B1**	
	4.0	2 420	352.00	39 500	1.8	171	**2KJ4533 - ■ EL22 - ■ ■ A1**	
	K.149-Z49-LHN90SH4E							
	1.0	9 510	1 384.00	65 000	0.84	263	**2KJ4535 - ■ EL22 - ■ ■ P1**	
	1.1	8 980	1 307.00	65 000	0.89	263	**2KJ4535 - ■ EL22 - ■ ■ N1**	
	1.3	7 640	1 112.00	65 000	1.0	263	**2KJ4535 - ■ EL22 - ■ ■ M1**	
	1.5	6 550	953.00	65 000	1.2	263	**2KJ4535 - ■ EL22 - ■ ■ L1**	
	1.7	5 760	838.00	65 000	1.4	263	**2KJ4535 - ■ EL22 - ■ ■ K1**	
	2.0	4 860	707.00	65 000	1.6	263	**2KJ4535 - ■ EL22 - ■ ■ J1**	
	2.3	4 180	608.00	65 000	1.9	263	**2KJ4535 - ■ EL22 - ■ ■ G1**	
	2.3	4 230	616.00	65 000	1.9	263	**2KJ4535 - ■ EL22 - ■ ■ H1**	
	2.5	3 940	574.00	65 000	2.0	263	**2KJ4535 - ■ EL22 - ■ ■ F1**	
	K.169-Z49-LHN90SH4E							
	0.64	15 200	2 214.00	70 000	0.85	434	**2KJ4537 - ■ EL22 - ■ ■ R1**	
	0.68	14 300	2 084.00	70 000	0.91	434	**2KJ4537 - ■ EL22 - ■ ■ Q1**	
	0.72	13 500	1 968.00	70 000	0.96	434	**2KJ4537 - ■ EL22 - ■ ■ P1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.169-Z49-LHN90SH4E**							
	0.85	11 500	1 675.00	70000	1.1	434	**2KJ4537 - ■ EL22 - ■ ■ N1**	
	0.99	9 860	1 435.00	70000	1.3	434	**2KJ4537 - ■ EL22 - ■ ■ M1**	
	1.1	8 670	1 261.00	70000	1.5	434	**2KJ4537 - ■ EL22 - ■ ■ L1**	
	1.3	7 310	1 064.00	70000	1.8	434	**2KJ4537 - ■ EL22 - ■ ■ K1**	
	1.5	6 370	927.00	70000	2.0	434	**2KJ4537 - ■ EL22 - ■ ■ J1**	
	K.189-Z69-LHN90SH4E							
	0.44	22 200	3 231.00	104000	0.88	675	**2KJ4540 - ■ EL22 - ■ ■ U1**	
	0.48	20 500	2 983.00	104000	0.95	675	**2KJ4540 - ■ EL22 - ■ ■ T1**	
	0.52	18 700	2 723.00	104000	1.0	675	**2KJ4540 - ■ EL22 - ■ ■ S1**	
	0.63	15 500	2 259.00	104000	1.3	675	**2KJ4540 - ■ EL22 - ■ ■ R1**	
	0.67	14 600	2 126.00	104000	1.3	675	**2KJ4540 - ■ EL22 - ■ ■ Q1**	
	0.71	13 800	2 008.00	104000	1.4	675	**2KJ4540 - ■ EL22 - ■ ■ P1**	
	0.83	11 700	1 709.00	104000	1.7	675	**2KJ4540 - ■ EL22 - ■ ■ N1**	
	0.97	10 000	1 464.00	104000	1.9	675	**2KJ4540 - ■ EL22 - ■ ■ M1**	
1.5	**B.29-LHN90LJ4E**							
	112	127	12.63	4000	0.86	32	**2KJ4501 - ■ EP22 - ■ ■ N1**	
	124	116	11.46	3900	0.95	32	**2KJ4501 - ■ EP22 - ■ ■ M1**	
	132	109	10.78	3900	1.0	32	**2KJ4501 - ■ EP22 - ■ ■ L1**	
	149	96	9.51	3700	1.1	32	**2KJ4501 - ■ EP22 - ■ ■ K1**	
	172	83	8.25	3600	1.3	32	**2KJ4501 - ■ EP22 - ■ ■ J1**	
	181	79	7.84	3500	0.95	32	**2KJ4501 - ■ EP22 - ■ ■ H1**	
	192	74	7.38	3400	1.0	32	**2KJ4501 - ■ EP22 - ■ ■ G1**	
	218	66	6.51	3300	1.1	32	**2KJ4501 - ■ EP22 - ■ ■ F1**	
	251	57	5.65	3200	1.3	32	**2KJ4501 - ■ EP22 - ■ ■ E1**	
	280	51	5.07	3100	1.4	32	**2KJ4501 - ■ EP22 - ■ ■ D1**	
	297	48	4.78	3100	1.5	32	**2KJ4501 - ■ EP22 - ■ ■ C1**	
	337	42	4.21	2900	1.7	32	**2KJ4501 - ■ EP22 - ■ ■ B1**	
	389	37	3.65	2800	2.0	32	**2KJ4501 - ■ EP22 - ■ ■ A1**	
	B.39-LHN90LJ4E							
	46	310	31.11	6900	0.8	37	**2KJ4502 - ■ EP22 - ■ ■ T1**	
	52	275	27.50	6900	0.9	37	**2KJ4502 - ■ EP22 - ■ ■ S1**	
	57	250	25.00	6900	0.99	37	**2KJ4502 - ■ EP22 - ■ ■ R1**	
	65	220	21.90	6900	1.1	37	**2KJ4502 - ■ EP22 - ■ ■ Q1**	
	70	200	20.21	6900	1.2	37	**2KJ4502 - ■ EP22 - ■ ■ P1**	
	79	181	17.90	6900	1.4	37	**2KJ4502 - ■ EP22 - ■ ■ N1**	
	95	150	14.90	6900	1.7	37	**2KJ4502 - ■ EP22 - ■ ■ M1**	
	101	141	14.02	6900	1.8	37	**2KJ4502 - ■ EP22 - ■ ■ L1**	
	113	127	12.56	6800	2.0	37	**2KJ4502 - ■ EP22 - ■ ■ K1**	
	133	108	10.69	6500	2.2	37	**2KJ4502 - ■ EP22 - ■ ■ J1**	
	155	92	9.17	6200	2.5	37	**2KJ4502 - ■ EP22 - ■ ■ H1**	
	180	80	7.89	5900	2.8	37	**2KJ4502 - ■ EP22 - ■ ■ G1**	
	215	67	6.60	5600	3.0	37	**2KJ4502 - ■ EP22 - ■ ■ F1**	
	229	63	6.21	5500	3.2	37	**2KJ4502 - ■ EP22 - ■ ■ E1**	
	255	56	5.56	5300	3.6	37	**2KJ4502 - ■ EP22 - ■ ■ D1**	
	300	48	4.74	5100	4.2	37	**2KJ4502 - ■ EP22 - ■ ■ C1**	
	350	41	4.06	4800	4.9	37	**2KJ4502 - ■ EP22 - ■ ■ B1**	
	406	35	3.50	4600	5.4	37	**2KJ4502 - ■ EP22 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**K.39-LHN90LJ4E**							
	53	270	26.89	5500	0.81	38	**2KJ4504 - ■ EP22 - ■ ■ Q1**	
	59	240	23.97	5600	0.91	38	**2KJ4504 - ■ EP22 - ■ ■ P1**	
	64	220	22.12	5500	0.99	38	**2KJ4504 - ■ EP22 - ■ ■ N1**	
	73	195	19.37	5300	1.1	38	**2KJ4504 - ■ EP22 - ■ ■ M1**	
	84	171	16.98	5100	1.3	38	**2KJ4504 - ■ EP22 - ■ ■ L1**	
	92	155	15.41	5000	1.4	38	**2KJ4504 - ■ EP22 - ■ ■ K1**	
	98	146	14.50	4900	1.5	38	**2KJ4504 - ■ EP22 - ■ ■ J1**	
	111	129	12.78	4800	1.7	38	**2KJ4504 - ■ EP22 - ■ ■ H1**	
	128	112	11.09	4600	2.0	38	**2KJ4504 - ■ EP22 - ■ ■ G1**	
	141	101	10.04	4400	1.8	38	**2KJ4504 - ■ EP22 - ■ ■ F1**	
	161	89	8.81	4200	2.1	38	**2KJ4504 - ■ EP22 - ■ ■ E1**	
	178	81	7.99	4100	2.2	38	**2KJ4504 - ■ EP22 - ■ ■ D1**	
	189	76	7.52	4100	2.3	38	**2KJ4504 - ■ EP22 - ■ ■ C1**	
	214	67	6.63	3900	2.4	38	**2KJ4504 - ■ EP22 - ■ ■ B1**	
	247	58	5.75	3700	2.6	38	**2KJ4504 - ■ EP22 - ■ ■ A1**	
	B.49-LHN90LJ4E							
	26	540	53.89	10800	0.83	42	**2KJ4503 - ■ EP22 - ■ ■ B2**	
	31	460	45.83	10300	0.97	42	**2KJ4503 - ■ EP22 - ■ ■ A2**	
	34	420	41.67	10100	1.1	42	**2KJ4503 - ■ EP22 - ■ ■ X1**	
	38	375	37.18	9800	1.2	42	**2KJ4503 - ■ EP22 - ■ ■ W1**	
	43	335	33.33	9500	1.3	42	**2KJ4503 - ■ EP22 - ■ ■ V1**	
	47	300	30.05	9200	1.5	42	**2KJ4503 - ■ EP22 - ■ ■ U1**	
	51	280	27.74	9000	1.6	42	**2KJ4503 - ■ EP22 - ■ ■ T1**	
	56	255	25.32	8800	1.8	42	**2KJ4503 - ■ EP22 - ■ ■ S1**	
	68	210	21.01	8300	2.1	42	**2KJ4503 - ■ EP22 - ■ ■ R1**	
	72	199	19.77	8200	2.3	42	**2KJ4503 - ■ EP22 - ■ ■ Q1**	
	76	188	18.67	8000	2.4	42	**2KJ4503 - ■ EP22 - ■ ■ P1**	
	89	160	15.89	7700	2.8	42	**2KJ4503 - ■ EP22 - ■ ■ N1**	
	104	137	13.61	7300	3.3	42	**2KJ4503 - ■ EP22 - ■ ■ M1**	
	119	121	11.97	7000	3.7	42	**2KJ4503 - ■ EP22 - ■ ■ L1**	
	171	84	8.29	6300	3.9	42	**2KJ4503 - ■ EP22 - ■ ■ H1**	
	182	79	7.8	6200	4.2	42	**2KJ4503 - ■ EP22 - ■ ■ G1**	
	K.49-LHN90LJ4E							
	29	500	49.82	6800	0.84	44	**2KJ4505 - ■ EP22 - ■ ■ U1**	
	32	450	44.63	6900	0.93	44	**2KJ4505 - ■ EP22 - ■ ■ T1**	
	37	380	38.00	6900	1.1	44	**2KJ4505 - ■ EP22 - ■ ■ S1**	
	44	325	32.57	6700	1.3	44	**2KJ4505 - ■ EP22 - ■ ■ R1**	
	51	280	28.05	6400	1.5	44	**2KJ4505 - ■ EP22 - ■ ■ Q1**	
	54	265	26.30	6300	1.6	44	**2KJ4505 - ■ EP22 - ■ ■ P1**	
	61	235	23.28	6100	1.8	44	**2KJ4505 - ■ EP22 - ■ ■ N1**	
	73	196	19.38	5800	2.1	44	**2KJ4505 - ■ EP22 - ■ ■ M1**	
	78	184	18.24	5700	2.3	44	**2KJ4505 - ■ EP22 - ■ ■ L1**	
	87	165	16.34	5600	2.5	44	**2KJ4505 - ■ EP22 - ■ ■ K1**	
	102	140	13.91	5300	3.0	44	**2KJ4505 - ■ EP22 - ■ ■ J1**	
	119	120	11.93	5100	3.5	44	**2KJ4505 - ■ EP22 - ■ ■ H1**	
	146	98	9.75	4800	2.8	44	**2KJ4505 - ■ EP22 - ■ ■ F1**	
	155	93	9.18	4700	2.9	44	**2KJ4505 - ■ EP22 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**K.49-LHN90LJ4E**							
	173	83	8.22	4500	3.1	44	**2KJ4505 - ■ EP22 - ■ ■ D1**	
	203	71	7.00	4300	3.4	44	**2KJ4505 - ■ EP22 - ■ ■ C1**	
	237	60	6.00	4100	3.7	44	**2KJ4505 - ■ EP22 - ■ ■ B1**	
	275	52	5.17	3900	4.0	44	**2KJ4505 - ■ EP22 - ■ ■ A1**	
	K.69-LHN90LJ4E							
	20	700	69.67	9500	0.85	51	**2KJ4507 - ■ EP22 - ■ ■ W1**	
	22	660	65.57	9600	0.91	51	**2KJ4507 - ■ EP22 - ■ ■ V1**	
	23	625	61.93	9700	0.96	51	**2KJ4507 - ■ EP22 - ■ ■ U1**	
	27	530	52.69	9900	1.1	51	**2KJ4507 - ■ EP22 - ■ ■ T1**	
	31	455	45.14	10100	1.3	51	**2KJ4507 - ■ EP22 - ■ ■ S1**	
	36	400	39.69	10200	1.5	51	**2KJ4507 - ■ EP22 - ■ ■ R1**	
	42	335	33.48	9800	1.7	51	**2KJ4507 - ■ EP22 - ■ ■ Q1**	
	49	290	29.18	9400	1.9	51	**2KJ4507 - ■ EP22 - ■ ■ P1**	
	55	260	26.05	9100	2.3	51	**2KJ4507 - ■ EP22 - ■ ■ N1**	
	58	245	24.52	8900	2.4	51	**2KJ4507 - ■ EP22 - ■ ■ M1**	
	61	230	23.15	8800	2.5	51	**2KJ4507 - ■ EP22 - ■ ■ L1**	
	72	199	19.70	8400	2.8	51	**2KJ4507 - ■ EP22 - ■ ■ K1**	
	84	170	16.88	8000	3.1	51	**2KJ4507 - ■ EP22 - ■ ■ J1**	
	96	150	14.84	7700	3.4	51	**2KJ4507 - ■ EP22 - ■ ■ H1**	
	152	94	9.34	6600	3.9	51	**2KJ4507 - ■ EP22 - ■ ■ E1**	
	K.79-LHN90LJ4E							
	16	870	86.56	12800	0.94	56	**2KJ4508 - ■ EP22 - ■ ■ X1**	
	17	820	81.47	12800	1.0	56	**2KJ4508 - ■ EP22 - ■ ■ W1**	
	18	775	76.94	12800	1.1	56	**2KJ4508 - ■ EP22 - ■ ■ V1**	
	22	660	65.47	12900	1.2	56	**2KJ4508 - ■ EP22 - ■ ■ U1**	
	25	565	56.08	13000	1.4	56	**2KJ4508 - ■ EP22 - ■ ■ T1**	
	29	495	49.31	13000	1.6	56	**2KJ4508 - ■ EP22 - ■ ■ S1**	
	34	420	41.60	13100	1.9	56	**2KJ4508 - ■ EP22 - ■ ■ R1**	
	39	365	36.26	13100	2.1	56	**2KJ4508 - ■ EP22 - ■ ■ Q1**	
	43	330	32.78	13100	2.5	56	**2KJ4508 - ■ EP22 - ■ ■ P1**	
	52	270	27.20	13100	2.9	56	**2KJ4508 - ■ EP22 - ■ ■ N1**	
	K.89-LHN90LJ4E							
	7.5	1 900	189.01	18100	0.84	78	**2KJ4510 - ■ EP22 - ■ ■ H2**	
	8.4	1 710	169.94	18100	0.93	78	**2KJ4510 - ■ EP22 - ■ ■ G2**	
	9.2	1 550	153.70	18100	1.0	78	**2KJ4510 - ■ EP22 - ■ ■ F2**	
	10	1 430	141.88	18100	1.1	78	**2KJ4510 - ■ EP22 - ■ ■ E2**	
	11	1 310	129.96	18100	1.2	78	**2KJ4510 - ■ EP22 - ■ ■ D2**	
	13	1 100	109.04	18100	1.5	78	**2KJ4510 - ■ EP22 - ■ ■ C2**	
	14	1 030	102.63	18100	1.5	78	**2KJ4510 - ■ EP22 - ■ ■ B2**	
	15	950	94.16	18100	1.7	78	**2KJ4510 - ■ EP22 - ■ ■ A2**	
	17	830	82.25	18100	1.9	78	**2KJ4510 - ■ EP22 - ■ ■ X1**	
	19	740	73.64	18100	2.2	78	**2KJ4510 - ■ EP22 - ■ ■ W1**	
	K.109-LHN90LJ4E							
	6.6	2 180	216.65	24500	1.3	115	**2KJ4511 - ■ EP22 - ■ ■ H2**	
	7.3	1 970	195.60	24500	1.5	115	**2KJ4511 - ■ EP22 - ■ ■ G2**	
	8.0	1 790	177.43	24500	1.6	115	**2KJ4511 - ■ EP22 - ■ ■ F2**	
	8.7	1 650	163.78	24500	1.8	115	**2KJ4511 - ■ EP22 - ■ ■ E2**	
	9.5	1 500	148.88	24500	1.9	115	**2KJ4511 - ■ EP22 - ■ ■ D2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**K.129-LHN90LJ4E**							
	6.2	2 300	228.30	35200	1.9	165	**2KJ4512 - ■ EP22 - ■ ■ J2**	
	6.7	2 120	210.74	35200	2.1	165	**2KJ4512 - ■ EP22 - ■ ■ H2**	
	K.109-LHN100LD6E							
	4.4	3 260	216.65	24500	0.89	123	**2KJ4511 - ■ FL22 - ■ ■ H2**	**P01**
	4.9	2 940	195.60	24500	0.98	123	**2KJ4511 - ■ FL22 - ■ ■ G2**	**P01**
	5.4	2 670	177.43	24500	1.1	123	**2KJ4511 - ■ FL22 - ■ ■ F2**	**P01**
	5.8	2 470	163.78	24500	1.2	123	**2KJ4511 - ■ FL22 - ■ ■ E2**	**P01**
	6.4	2 240	148.88	24500	1.3	123	**2KJ4511 - ■ FL22 - ■ ■ D2**	**P01**
	K.129-LHN100LD6E							
	4.2	3 440	228.30	35200	1.3	174	**2KJ4512 - ■ FL22 - ■ ■ J2**	**P01**
	4.5	3 170	210.74	35200	1.4	174	**2KJ4512 - ■ FL22 - ■ ■ H2**	**P01**
	4.9	2 920	194.04	35300	1.5	174	**2KJ4512 - ■ FL22 - ■ ■ G2**	**P01**
	5.7	2 490	165.47	35400	1.8	174	**2KJ4512 - ■ FL22 - ■ ■ F2**	**P01**
	K.109-Z39-LHN90LJ4E							
	3.9	3 400	361.00	24500	0.85	121	**2KJ4531 - ■ EP22 - ■ ■ D1**	
	4.6	2 900	307.54	24500	1.0	121	**2KJ4531 - ■ EP22 - ■ ■ C1**	
	5.4	2 480	263.61	24500	1.2	121	**2KJ4531 - ■ EP22 - ■ ■ B1**	
	6.3	2 140	227.00	24500	1.4	121	**2KJ4531 - ■ EP22 - ■ ■ A1**	
	K.129-Z39-LHN90LJ4E							
	2.5	5 280	560.00	36700	0.83	172	**2KJ4533 - ■ EP22 - ■ ■ D1**	
	3.0	4 490	476.00	37500	0.98	172	**2KJ4533 - ■ EP22 - ■ ■ C1**	
	3.5	3 840	408.00	38100	1.1	172	**2KJ4533 - ■ EP22 - ■ ■ B1**	
	4.0	3 320	352.00	38600	1.3	172	**2KJ4533 - ■ EP22 - ■ ■ A1**	
	K.149-Z49-LHN90LJ4E							
	1.5	8 990	953.00	65000	0.89	264	**2KJ4535 - ■ EP22 - ■ ■ L1**	
	1.7	7 900	838.00	65000	1.0	264	**2KJ4535 - ■ EP22 - ■ ■ K1**	
	2.0	6 670	707.00	65000	1.2	264	**2KJ4535 - ■ EP22 - ■ ■ J1**	
	2.3	5 730	608.00	65000	1.4	264	**2KJ4535 - ■ EP22 - ■ ■ G1**	
	2.3	5 810	616.00	65000	1.4	264	**2KJ4535 - ■ EP22 - ■ ■ H1**	
	2.5	5 410	574.00	65000	1.5	264	**2KJ4535 - ■ EP22 - ■ ■ F1**	
	2.9	4 600	488.00	65000	1.7	264	**2KJ4535 - ■ EP22 - ■ ■ E1**	
	3.4	3 940	418.00	65000	2.0	264	**2KJ4535 - ■ EP22 - ■ ■ D1**	
	K.169-Z49-LHN90LJ4E							
	0.85	15 800	1 675.00	70000	0.82	435	**2KJ4537 - ■ EP22 - ■ ■ N1**	
	0.99	13 500	1 435.00	70000	0.96	435	**2KJ4537 - ■ EP22 - ■ ■ M1**	
	1.1	11 800	1 261.00	70000	1.1	435	**2KJ4537 - ■ EP22 - ■ ■ L1**	
	1.3	10 000	1 064.00	70000	1.3	435	**2KJ4537 - ■ EP22 - ■ ■ K1**	
	1.5	8 740	927.00	70000	1.5	435	**2KJ4537 - ■ EP22 - ■ ■ J1**	
	1.6	8 150	864.00	70000	1.6	435	**2KJ4537 - ■ EP22 - ■ ■ G1**	
	1.6	8 630	915.00	70000	1.5	435	**2KJ4537 - ■ EP22 - ■ ■ H1**	
	1.9	6 930	735.00	70000	1.9	435	**2KJ4537 - ■ EP22 - ■ ■ F1**	
	K.189-Z69-LHN90LJ4E							
	0.63	21 300	2 259.00	104000	0.92	676	**2KJ4540 - ■ EP22 - ■ ■ R1**	
	0.67	20 000	2 126.00	104000	0.97	676	**2KJ4540 - ■ EP22 - ■ ■ Q1**	
	0.71	18 900	2 008.00	104000	1.0	676	**2KJ4540 - ■ EP22 - ■ ■ P1**	
	0.83	16 100	1 709.00	104000	1.2	676	**2KJ4540 - ■ EP22 - ■ ■ N1**	
	0.97	13 800	1 464.00	104000	1.4	676	**2KJ4540 - ■ EP22 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**K.189-Z69-LHN90LJ4E**							
	1.1	12 100	1 287.00	104000	1.6	676	**2KJ4540 - ■ EP22 - ■ ■ L1**	
	1.3	10 200	1 086.00	104000	1.9	676	**2KJ4540 - ■ EP22 - ■ ■ K1**	
2.2	**B.29-LHN100LD4E**							
	174	121	8.25	3600	0.91	40	**2KJ4501 - ■ FL22 - ■ ■ J1**	
	254	83	5.65	3200	0.91	40	**2KJ4501 - ■ FL22 - ■ ■ E1**	
	283	74	5.07	3100	1.0	40	**2KJ4501 - ■ FL22 - ■ ■ D1**	
	300	70	4.78	3000	1.1	40	**2KJ4501 - ■ FL22 - ■ ■ C1**	
	341	62	4.21	2900	1.2	40	**2KJ4501 - ■ FL22 - ■ ■ B1**	
	393	53	3.65	2800	1.4	40	**2KJ4501 - ■ FL22 - ■ ■ A1**	
	B.39-LHN100LD4E							
	71	295	20.21	6900	0.84	45	**2KJ4502 - ■ FL22 - ■ ■ P1**	
	80	260	17.90	6900	0.95	45	**2KJ4502 - ■ FL22 - ■ ■ N1**	
	96	215	14.90	6900	1.1	45	**2KJ4502 - ■ FL22 - ■ ■ M1**	
	102	205	14.02	6900	1.2	45	**2KJ4502 - ■ FL22 - ■ ■ L1**	
	114	184	12.56	6800	1.4	45	**2KJ4502 - ■ FL22 - ■ ■ K1**	
	134	157	10.69	6500	1.5	45	**2KJ4502 - ■ FL22 - ■ ■ J1**	
	156	134	9.17	6200	1.7	45	**2KJ4502 - ■ FL22 - ■ ■ H1**	
	182	116	7.89	5900	1.9	45	**2KJ4502 - ■ FL22 - ■ ■ G1**	
	217	97	6.60	5600	2.1	45	**2KJ4502 - ■ FL22 - ■ ■ F1**	
	231	91	6.21	5500	2.2	45	**2KJ4502 - ■ FL22 - ■ ■ E1**	
	258	81	5.56	5300	2.5	45	**2KJ4502 - ■ FL22 - ■ ■ D1**	
	303	69	4.74	5000	2.9	45	**2KJ4502 - ■ FL22 - ■ ■ C1**	
	353	59	4.06	4800	3.4	45	**2KJ4502 - ■ FL22 - ■ ■ B1**	
	410	51	3.50	4600	3.7	45	**2KJ4502 - ■ FL22 - ■ ■ A1**	
	K.39-LHN100LD4E							
	85	245	16.98	5100	0.88	45	**2KJ4504 - ■ FL22 - ■ ■ L1**	
	93	225	15.41	5000	0.98	45	**2KJ4504 - ■ FL22 - ■ ■ K1**	
	99	210	14.50	4900	1.0	45	**2KJ4504 - ■ FL22 - ■ ■ J1**	
	112	187	12.78	4700	1.2	45	**2KJ4504 - ■ FL22 - ■ ■ H1**	
	129	162	11.09	4600	1.4	45	**2KJ4504 - ■ FL22 - ■ ■ G1**	
	143	147	10.04	4400	1.3	45	**2KJ4504 - ■ FL22 - ■ ■ F1**	
	163	129	8.81	4200	1.4	45	**2KJ4504 - ■ FL22 - ■ ■ E1**	
	180	117	7.99	4100	1.5	45	**2KJ4504 - ■ FL22 - ■ ■ D1**	
	191	110	7.52	4000	1.6	45	**2KJ4504 - ■ FL22 - ■ ■ C1**	
	216	97	6.63	3900	1.7	45	**2KJ4504 - ■ FL22 - ■ ■ B1**	
	250	84	5.75	3700	1.8	45	**2KJ4504 - ■ FL22 - ■ ■ A1**	
	B.49-LHN100LD4E							
	39	540	37.18	9700	0.83	52	**2KJ4503 - ■ FL22 - ■ ■ W1**	
	43	485	33.33	9500	0.92	52	**2KJ4503 - ■ FL22 - ■ ■ V1**	
	48	440	30.05	9200	1.0	52	**2KJ4503 - ■ FL22 - ■ ■ U1**	
	52	405	27.74	9000	1.1	52	**2KJ4503 - ■ FL22 - ■ ■ T1**	
	57	370	25.32	8800	1.2	52	**2KJ4503 - ■ FL22 - ■ ■ S1**	
	68	305	21.01	8300	1.5	52	**2KJ4503 - ■ FL22 - ■ ■ R1**	
	73	285	19.77	8200	1.6	52	**2KJ4503 - ■ FL22 - ■ ■ Q1**	
	77	270	18.67	8000	1.6	52	**2KJ4503 - ■ FL22 - ■ ■ P1**	
	90	230	15.89	7600	1.9	52	**2KJ4503 - ■ FL22 - ■ ■ N1**	
	105	199	13.61	7300	2.3	52	**2KJ4503 - ■ FL22 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**B.49-LHN100LD4E**							
	120	175	11.97	7000	2.6	52	**2KJ4503 - ■ FL22 - ■ ■ L1**	
	142	148	10.1	6700	3.0	52	**2KJ4503 - ■ FL22 - ■ ■ K1**	
	163	129	8.8	6400	3.5	52	**2KJ4503 - ■ FL22 - ■ ■ J1**	
	173	121	8.29	6300	2.7	52	**2KJ4503 - ■ FL22 - ■ ■ H1**	
	184	114	7.8	6200	2.9	52	**2KJ4503 - ■ FL22 - ■ ■ G1**	
	195	108	7.37	6000	3.1	52	**2KJ4503 - ■ FL22 - ■ ■ F1**	
	229	92	6.27	5700	3.6	52	**2KJ4503 - ■ FL22 - ■ ■ E1**	
	267	79	5.37	5500	4.2	52	**2KJ4503 - ■ FL22 - ■ ■ D1**	
	304	69	4.72	5200	4.8	52	**2KJ4503 - ■ FL22 - ■ ■ C1**	
	K.49-LHN100LD4E							
	44	475	32.57	6600	0.88	55	**2KJ4505 - ■ FL22 - ■ ■ R1**	
	51	410	28.05	6400	1.0	55	**2KJ4505 - ■ FL22 - ■ ■ Q1**	
	55	385	26.30	6300	1.1	55	**2KJ4505 - ■ FL22 - ■ ■ P1**	
	62	340	23.28	6100	1.2	55	**2KJ4505 - ■ FL22 - ■ ■ N1**	
	74	280	19.38	5800	1.5	55	**2KJ4505 - ■ FL22 - ■ ■ M1**	
	79	265	18.24	5700	1.6	55	**2KJ4505 - ■ FL22 - ■ ■ L1**	
	88	235	16.34	5500	1.8	55	**2KJ4505 - ■ FL22 - ■ ■ K1**	
	103	200	13.91	5300	2.1	55	**2KJ4505 - ■ FL22 - ■ ■ J1**	
	120	175	11.93	5100	2.4	55	**2KJ4505 - ■ FL22 - ■ ■ H1**	
	140	150	10.27	4900	2.8	55	**2KJ4505 - ■ FL22 - ■ ■ G1**	
	147	143	9.75	4800	1.9	55	**2KJ4505 - ■ FL22 - ■ ■ F1**	
	156	134	9.18	4700	2.0	55	**2KJ4505 - ■ FL22 - ■ ■ E1**	
	175	120	8.22	4500	2.1	55	**2KJ4505 - ■ FL22 - ■ ■ D1**	
	205	102	7.00	4300	2.3	55	**2KJ4505 - ■ FL22 - ■ ■ C1**	
	239	88	6.00	4100	2.6	55	**2KJ4505 - ■ FL22 - ■ ■ B1**	
	278	76	5.17	3900	2.8	55	**2KJ4505 - ■ FL22 - ■ ■ A1**	
	K.69-LHN100LD4E							
	32	660	45.14	10100	0.91	61	**2KJ4507 - ■ FL22 - ■ ■ S1**	
	36	580	39.69	10200	1.0	61	**2KJ4507 - ■ FL22 - ■ ■ R1**	
	43	490	33.48	9700	1.2	61	**2KJ4507 - ■ FL22 - ■ ■ Q1**	
	49	425	29.18	9400	1.3	61	**2KJ4507 - ■ FL22 - ■ ■ P1**	
	55	380	26.05	9100	1.6	61	**2KJ4507 - ■ FL22 - ■ ■ N1**	
	59	355	24.52	8900	1.7	61	**2KJ4507 - ■ FL22 - ■ ■ M1**	
	62	335	23.15	8800	1.7	61	**2KJ4507 - ■ FL22 - ■ ■ L1**	
	73	285	19.70	8400	1.9	61	**2KJ4507 - ■ FL22 - ■ ■ K1**	
	85	245	16.88	8000	2.1	61	**2KJ4507 - ■ FL22 - ■ ■ J1**	
	97	215	14.84	7700	2.4	61	**2KJ4507 - ■ FL22 - ■ ■ H1**	
	115	183	12.52	7300	2.7	61	**2KJ4507 - ■ FL22 - ■ ■ G1**	
	132	160	10.91	7000	2.9	61	**2KJ4507 - ■ FL22 - ■ ■ F1**	
	154	137	9.34	6600	2.7	61	**2KJ4507 - ■ FL22 - ■ ■ E1**	
	179	117	8.01	6300	3.1	61	**2KJ4507 - ■ FL22 - ■ ■ D1**	
	204	103	7.04	6100	3.5	61	**2KJ4507 - ■ FL22 - ■ ■ C1**	
	242	87	5.94	5700	4.0	61	**2KJ4507 - ■ FL22 - ■ ■ B1**	
	277	76	5.18	5500	4.4	61	**2KJ4507 - ■ FL22 - ■ ■ A1**	
	K.79-LHN100LD4E							
	22	955	65.47	12900	0.86	67	**2KJ4508 - ■ FL22 - ■ ■ U1**	
	26	820	56.08	13000	1.0	67	**2KJ4508 - ■ FL22 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**K.79-LHN100LD4E**							
	29	720	49.31	13000	1.1	67	**2KJ4508 - ■ FL22 - ■ ■ S1**	
	34	605	41.60	13100	1.3	67	**2KJ4508 - ■ FL22 - ■ ■ R1**	
	40	530	36.26	13100	1.5	67	**2KJ4508 - ■ FL22 - ■ ■ Q1**	
	44	480	32.78	13100	1.7	67	**2KJ4508 - ■ FL22 - ■ ■ P1**	
	53	395	27.20	13100	2.0	67	**2KJ4508 - ■ FL22 - ■ ■ N1**	
	56	375	25.60	13200	2.1	67	**2KJ4508 - ■ FL22 - ■ ■ M1**	
	59	350	24.17	13200	2.2	67	**2KJ4508 - ■ FL22 - ■ ■ L1**	
	70	300	20.57	13200	2.5	67	**2KJ4508 - ■ FL22 - ■ ■ K1**	
	81	255	17.62	13200	2.8	67	**2KJ4508 - ■ FL22 - ■ ■ J1**	
	93	225	15.49	13200	3.1	67	**2KJ4508 - ■ FL22 - ■ ■ H1**	
	110	191	13.07	13200	3.5	67	**2KJ4508 - ■ FL22 - ■ ■ G1**	
	137	154	10.51	13300	2.9	67	**2KJ4508 - ■ FL22 - ■ ■ E1**	
	159	132	9.01	13300	3.4	67	**2KJ4508 - ■ FL22 - ■ ■ D1**	
	181	116	7.92	13300	3.9	67	**2KJ4508 - ■ FL22 - ■ ■ C1**	
	K.89-LHN100LD4E							
	11	1 900	129.96	18100	0.84	88	**2KJ4510 - ■ FL22 - ■ ■ D2**	
	13	1 590	109.04	18100	1.0	88	**2KJ4510 - ■ FL22 - ■ ■ C2**	
	14	1 500	102.63	18100	1.1	88	**2KJ4510 - ■ FL22 - ■ ■ B2**	
	15	1 370	94.16	18100	1.2	88	**2KJ4510 - ■ FL22 - ■ ■ A2**	
	17	1 200	82.25	18100	1.3	88	**2KJ4510 - ■ FL22 - ■ ■ X1**	
	19	1 070	73.64	18100	1.5	88	**2KJ4510 - ■ FL22 - ■ ■ W1**	
	22	940	64.39	18100	1.7	88	**2KJ4510 - ■ FL22 - ■ ■ V1**	
	26	805	55.27	18100	2.0	88	**2KJ4510 - ■ FL22 - ■ ■ U1**	
	29	715	48.85	18100	2.2	88	**2KJ4510 - ■ FL22 - ■ ■ T1**	
	35	605	41.54	18100	2.6	88	**2KJ4510 - ■ FL22 - ■ ■ S1**	
	K.109-LHN112MC6							
	6.3	3 340	148.88	24500	0.87	141	**2KJ4511 - ■ GH21 - ■ ■ D2**	**P01**
	K.129-LHN112MC6							
	4.1	5 130	228.30	36900	0.86	191	**2KJ4512 - ■ GH21 - ■ ■ J2**	**P01**
	4.4	4 730	210.74	37300	0.93	191	**2KJ4512 - ■ GH21 - ■ ■ H2**	**P01**
	4.8	4 360	194.04	37600	1.0	191	**2KJ4512 - ■ GH21 - ■ ■ G2**	**P01**
	5.7	3 710	165.47	38300	1.2	191	**2KJ4512 - ■ GH21 - ■ ■ F2**	**P01**
	6.0	3 500	155.74	38500	1.3	191	**2KJ4512 - ■ GH21 - ■ ■ E2**	**P01**
	K.149-LHN112MC6							
	3.9	5 320	237.03	65000	1.5	275	**2KJ4513 - ■ GH21 - ■ ■ J2**	**P01**
	4.6	4 550	202.86	65000	1.8	275	**2KJ4513 - ■ GH21 - ■ ■ H2**	**P01**
	4.9	4 290	190.92	65000	1.9	275	**2KJ4513 - ■ GH21 - ■ ■ G2**	**P01**
	5.2	4 020	178.97	65000	2.0	275	**2KJ4513 - ■ GH21 - ■ ■ F2**	**P01**
	K.109-LHN100LD4E							
	6.6	3 170	216.65	24500	0.91	123	**2KJ4511 - ■ FL22 - ■ ■ H2**	
	7.3	2 860	195.60	24500	1.0	123	**2KJ4511 - ■ FL22 - ■ ■ G2**	
	8.1	2 590	177.43	24500	1.1	123	**2KJ4511 - ■ FL22 - ■ ■ F2**	
	8.8	2 390	163.78	24500	1.2	123	**2KJ4511 - ■ FL22 - ■ ■ E2**	
	9.6	2 180	148.88	24500	1.3	123	**2KJ4511 - ■ FL22 - ■ ■ D2**	
	11	1 840	126.07	24500	1.6	123	**2KJ4511 - ■ FL22 - ■ ■ C2**	
	12	1 730	118.65	24500	1.7	123	**2KJ4511 - ■ FL22 - ■ ■ B2**	
	13	1 600	109.57	24500	1.8	123	**2KJ4511 - ■ FL22 - ■ ■ A2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**K.109-LHN100LD4E**							
	15	1 420	97.49	24500	2.0	123	**2KJ4511 - ■ FL22 - ■ ■ X1**	
	17	1 260	86.59	24500	2.3	123	**2KJ4511 - ■ FL22 - ■ ■ W1**	
	K.129-LHN100LD4E							
	6.3	3 340	228.30	35200	1.3	174	**2KJ4512 - ■ FL22 - ■ ■ J2**	
	6.8	3 080	210.74	35200	1.4	174	**2KJ4512 - ■ FL22 - ■ ■ H2**	
	7.4	2 840	194.04	35300	1.5	174	**2KJ4512 - ■ FL22 - ■ ■ G2**	
	8.7	2 420	165.47	35400	1.8	174	**2KJ4512 - ■ FL22 - ■ ■ F2**	
	9.2	2 280	155.74	35400	1.9	174	**2KJ4512 - ■ FL22 - ■ ■ E2**	
	9.9	2 110	144.53	35400	2.1	174	**2KJ4512 - ■ FL22 - ■ ■ D2**	
	K.109-Z39-LHN100LD4E							
	5.4	3 620	263.61	24500	0.8	128	**2KJ4531 - ■ FL22 - ■ ■ B1**	
	6.3	3 120	227.00	24500	0.93	128	**2KJ4531 - ■ FL22 - ■ ■ A1**	
	K.129-Z39-LHN100LD4E							
	4.1	4 840	352.00	37200	0.91	179	**2KJ4533 - ■ FL22 - ■ ■ A1**	
	K.149-Z49-LHN100LD4E							
	2.0	9 730	707.00	65000	0.82	275	**2KJ4535 - ■ FL22 - ■ ■ J1**	
	2.3	8 470	616.00	65000	0.94	275	**2KJ4535 - ■ FL22 - ■ ■ H1**	
	2.4	8 360	608.00	65000	0.96	275	**2KJ4535 - ■ FL22 - ■ ■ G1**	
	2.5	7 900	574.00	65000	1.0	275	**2KJ4535 - ■ FL22 - ■ ■ F1**	
	2.9	6 710	488.00	65000	1.2	275	**2KJ4535 - ■ FL22 - ■ ■ E1**	
	3.4	5 750	418.00	65000	1.4	275	**2KJ4535 - ■ FL22 - ■ ■ D1**	
	3.9	5 060	368.00	65000	1.6	275	**2KJ4535 - ■ FL22 - ■ ■ C1**	
	4.6	4 270	310.31	65000	1.9	275	**2KJ4535 - ■ FL22 - ■ ■ B1**	
	5.3	3 720	270.46	65000	2.1	275	**2KJ4535 - ■ FL22 - ■ ■ A1**	
	K.169-Z49-LHN100LD4E							
	1.3	14 600	1 064.00	70000	0.89	446	**2KJ4537 - ■ FL22 - ■ ■ K1**	
	1.5	12 700	927.00	70000	1.0	446	**2KJ4537 - ■ FL22 - ■ ■ J1**	
	1.6	12 500	915.00	70000	1.0	446	**2KJ4537 - ■ FL22 - ■ ■ H1**	
	1.7	11 800	864.00	70000	1.1	446	**2KJ4537 - ■ FL22 - ■ ■ G1**	
	2.0	10 100	735.00	70000	1.3	446	**2KJ4537 - ■ FL22 - ■ ■ F1**	
	2.3	8 670	630.00	70000	1.5	446	**2KJ4537 - ■ FL22 - ■ ■ E1**	
	2.6	7 620	554.00	70000	1.7	446	**2KJ4537 - ■ FL22 - ■ ■ D1**	
	3.1	6 420	467.00	70000	2.0	446	**2KJ4537 - ■ FL22 - ■ ■ C1**	
	K.189-Z69-LHN100LD4E							
	0.84	23 500	1 709.00	104000	0.83	687	**2KJ4540 - ■ FL22 - ■ ■ N1**	
	0.98	20 100	1 464.00	104000	0.97	687	**2KJ4540 - ■ FL22 - ■ ■ M1**	
	1.1	17 700	1 287.00	104000	1.1	687	**2KJ4540 - ■ FL22 - ■ ■ L1**	
	1.3	14 900	1 086.00	104000	1.3	687	**2KJ4540 - ■ FL22 - ■ ■ K1**	
	1.5	13 000	946.00	104000	1.5	687	**2KJ4540 - ■ FL22 - ■ ■ J1**	
	1.6	12 200	889.00	104000	1.6	687	**2KJ4540 - ■ FL22 - ■ ■ H1**	
	1.9	10 400	756.00	104000	1.9	687	**2KJ4540 - ■ FL22 - ■ ■ G1**	
3	**B.29-LHN100LJ4E**							
	341	84	4.21	2900	0.88	39	**2KJ4501 - ■ FM22 - ■ ■ B1**	
	393	73	3.65	2800	1.0	39	**2KJ4501 - ■ FM22 - ■ ■ A1**	
	B.39-LHN100LJ4E							
	96	295	14.90	6900	0.84	44	**2KJ4502 - ■ FM22 - ■ ■ M1**	
	102	280	14.02	6900	0.89	44	**2KJ4502 - ■ FM22 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**B.39-LHN100LJ4E**							
	114	250	12.56	6800	1.0	44	**2KJ4502 - ■ FM22 - ■ ■ K1**	
	134	210	10.69	6500	1.1	44	**2KJ4502 - ■ FM22 - ■ ■ J1**	
	156	183	9.17	6200	1.3	44	**2KJ4502 - ■ FM22 - ■ ■ H1**	
	182	158	7.89	5900	1.4	44	**2KJ4502 - ■ FM22 - ■ ■ G1**	
	217	132	6.60	5600	1.5	44	**2KJ4502 - ■ FM22 - ■ ■ F1**	
	231	124	6.21	5500	1.6	44	**2KJ4502 - ■ FM22 - ■ ■ E1**	
	258	111	5.56	5300	1.8	44	**2KJ4502 - ■ FM22 - ■ ■ D1**	
	303	95	4.74	5000	2.1	44	**2KJ4502 - ■ FM22 - ■ ■ C1**	
	353	81	4.06	4800	2.5	44	**2KJ4502 - ■ FM22 - ■ ■ B1**	
	410	70	3.50	4600	2.7	44	**2KJ4502 - ■ FM22 - ■ ■ A1**	
	K.39-LHN100LJ4E							
	112	255	12.78	4700	0.86	44	**2KJ4504 - ■ FM22 - ■ ■ H1**	
	129	220	11.09	4600	0.99	44	**2KJ4504 - ■ FM22 - ■ ■ G1**	
	143	200	10.04	4400	0.92	44	**2KJ4504 - ■ FM22 - ■ ■ F1**	
	163	176	8.81	4200	1.0	44	**2KJ4504 - ■ FM22 - ■ ■ E1**	
	180	160	7.99	4100	1.1	44	**2KJ4504 - ■ FM22 - ■ ■ D1**	
	191	150	7.52	4000	1.1	44	**2KJ4504 - ■ FM22 - ■ ■ C1**	
	216	132	6.63	3900	1.2	44	**2KJ4504 - ■ FM22 - ■ ■ B1**	
	250	115	5.75	3700	1.3	44	**2KJ4504 - ■ FM22 - ■ ■ A1**	
	B.49-LHN100LJ4E							
	52	550	27.74	9000	0.81	51	**2KJ4503 - ■ FM22 - ■ ■ T1**	
	57	505	25.32	8800	0.89	51	**2KJ4503 - ■ FM22 - ■ ■ S1**	
	68	415	21.01	8300	1.1	51	**2KJ4503 - ■ FM22 - ■ ■ R1**	
	73	395	19.77	8200	1.1	51	**2KJ4503 - ■ FM22 - ■ ■ Q1**	
	77	370	18.67	8000	1.2	51	**2KJ4503 - ■ FM22 - ■ ■ P1**	
	90	315	15.89	7600	1.4	51	**2KJ4503 - ■ FM22 - ■ ■ N1**	
	105	270	13.61	7300	1.7	51	**2KJ4503 - ■ FM22 - ■ ■ M1**	
	120	235	11.97	7000	1.9	51	**2KJ4503 - ■ FM22 - ■ ■ L1**	
	142	200	10.10	6700	2.2	51	**2KJ4503 - ■ FM22 - ■ ■ K1**	
	163	176	8.8	6400	2.6	51	**2KJ4503 - ■ FM22 - ■ ■ J1**	
	173	166	8.29	6300	2.0	51	**2KJ4503 - ■ FM22 - ■ ■ H1**	
	184	156	7.8	6200	2.1	51	**2KJ4503 - ■ FM22 - ■ ■ G1**	
	195	147	7.37	6000	2.2	51	**2KJ4503 - ■ FM22 - ■ ■ F1**	
	229	125	6.27	5700	2.6	51	**2KJ4503 - ■ FM22 - ■ ■ E1**	
	267	107	5.37	5500	3.1	51	**2KJ4503 - ■ FM22 - ■ ■ D1**	
	304	94	4.72	5200	3.5	51	**2KJ4503 - ■ FM22 - ■ ■ C1**	
	361	80	3.98	5000	4.2	51	**2KJ4503 - ■ FM22 - ■ ■ B1**	
	414	69	3.47	4700	4.7	51	**2KJ4503 - ■ FM22 - ■ ■ A1**	
	K.49-LHN100LJ4E							
	55	525	26.30	6300	0.8	54	**2KJ4505 - ■ FM22 - ■ ■ P1**	
	62	465	23.28	6100	0.9	54	**2KJ4505 - ■ FM22 - ■ ■ N1**	
	74	385	19.38	5800	1.1	54	**2KJ4505 - ■ FM22 - ■ ■ M1**	
	79	360	18.24	5700	1.2	54	**2KJ4505 - ■ FM22 - ■ ■ L1**	
	88	325	16.34	5500	1.3	54	**2KJ4505 - ■ FM22 - ■ ■ K1**	
	103	275	13.91	5300	1.5	54	**2KJ4505 - ■ FM22 - ■ ■ J1**	
	120	235	11.93	5100	1.8	54	**2KJ4505 - ■ FM22 - ■ ■ H1**	
	140	205	10.27	4900	2.0	54	**2KJ4505 - ■ FM22 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**K.49-LHN100LJ4E**							
	147	195	9.75	4800	1.4	54	**2KJ4505 - ■ FM22 - ■ ■ F1**	
	156	183	9.18	4700	1.5	54	**2KJ4505 - ■ FM22 - ■ ■ E1**	
	175	164	8.22	4500	1.6	54	**2KJ4505 - ■ FM22 - ■ ■ D1**	
	205	140	7.00	4300	1.7	54	**2KJ4505 - ■ FM22 - ■ ■ C1**	
	239	120	6.00	4100	1.9	54	**2KJ4505 - ■ FM22 - ■ ■ B1**	
	278	103	5.17	3900	2.0	54	**2KJ4505 - ■ FM22 - ■ ■ A1**	
	K.69-LHN100LJ4E							
	43	665	33.48	9700	0.87	60	**2KJ4507 - ■ FM22 - ■ ■ Q1**	
	49	580	29.18	9400	0.95	60	**2KJ4507 - ■ FM22 - ■ ■ P1**	
	55	520	26.05	9100	1.2	60	**2KJ4507 - ■ FM22 - ■ ■ N1**	
	59	490	24.52	8900	1.2	60	**2KJ4507 - ■ FM22 - ■ ■ M1**	
	62	460	23.15	8800	1.3	60	**2KJ4507 - ■ FM22 - ■ ■ L1**	
	73	390	19.70	8400	1.4	60	**2KJ4507 - ■ FM22 - ■ ■ K1**	
	85	335	16.88	8000	1.6	60	**2KJ4507 - ■ FM22 - ■ ■ J1**	
	97	295	14.84	7700	1.7	60	**2KJ4507 - ■ FM22 - ■ ■ H1**	
	115	250	12.52	7300	2.0	60	**2KJ4507 - ■ FM22 - ■ ■ G1**	
	132	215	10.91	7000	2.2	60	**2KJ4507 - ■ FM22 - ■ ■ F1**	
	154	186	9.34	6600	2.0	60	**2KJ4507 - ■ FM22 - ■ ■ E1**	
	179	160	8.01	6300	2.3	60	**2KJ4507 - ■ FM22 - ■ ■ D1**	
	204	141	7.04	6100	2.6	60	**2KJ4507 - ■ FM22 - ■ ■ C1**	
	242	119	5.94	5700	2.9	60	**2KJ4507 - ■ FM22 - ■ ■ B1**	
	277	103	5.18	5500	3.2	60	**2KJ4507 - ■ FM22 - ■ ■ A1**	
	K.79-LHN100LJ4E							
	29	980	49.31	13000	0.83	66	**2KJ4508 - ■ FM22 - ■ ■ S1**	
	34	830	41.60	13100	0.96	66	**2KJ4508 - ■ FM22 - ■ ■ R1**	
	40	720	36.26	13100	1.1	66	**2KJ4508 - ■ FM22 - ■ ■ Q1**	
	44	650	32.78	13100	1.3	66	**2KJ4508 - ■ FM22 - ■ ■ P1**	
	53	540	27.20	13100	1.5	66	**2KJ4508 - ■ FM22 - ■ ■ N1**	
	56	510	25.60	13200	1.5	66	**2KJ4508 - ■ FM22 - ■ ■ M1**	
	59	480	24.17	13200	1.6	66	**2KJ4508 - ■ FM22 - ■ ■ L1**	
	70	410	20.57	13200	1.8	66	**2KJ4508 - ■ FM22 - ■ ■ K1**	
	81	350	17.62	13200	2.0	66	**2KJ4508 - ■ FM22 - ■ ■ J1**	
	93	305	15.49	13200	2.2	66	**2KJ4508 - ■ FM22 - ■ ■ H1**	
	110	260	13.07	13200	2.5	66	**2KJ4508 - ■ FM22 - ■ ■ G1**	
	126	225	11.39	13300	2.8	66	**2KJ4508 - ■ FM22 - ■ ■ F1**	
	137	210	10.51	13300	2.1	66	**2KJ4508 - ■ FM22 - ■ ■ E1**	
	159	180	9.01	13300	2.5	66	**2KJ4508 - ■ FM22 - ■ ■ D1**	
	181	158	7.92	13300	2.8	66	**2KJ4508 - ■ FM22 - ■ ■ C1**	
	215	133	6.68	13300	3.4	66	**2KJ4508 - ■ FM22 - ■ ■ B1**	
	247	116	5.82	12700	3.7	66	**2KJ4508 - ■ FM22 - ■ ■ A1**	
	K.89-LHN100LJ4E							
	15	1 880	94.16	18100	0.85	87	**2KJ4510 - ■ FM22 - ■ ■ A2**	
	17	1 640	82.25	18100	0.97	87	**2KJ4510 - ■ FM22 - ■ ■ X1**	
	19	1 470	73.64	18100	1.1	87	**2KJ4510 - ■ FM22 - ■ ■ W1**	
	22	1 280	64.39	18100	1.2	87	**2KJ4510 - ■ FM22 - ■ ■ V1**	
	26	1 100	55.27	18100	1.4	87	**2KJ4510 - ■ FM22 - ■ ■ U1**	
	29	975	48.85	18100	1.6	87	**2KJ4510 - ■ FM22 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**K.89-LHN100LJ4E**							
	35	825	41.54	18100	1.9	87	**2KJ4510 - ■ FM22 - ■ ■ S1**	
	37	780	39.29	18100	2.0	87	**2KJ4510 - ■ FM22 - ■ ■ R1**	
	44	655	32.96	18100	2.4	87	**2KJ4510 - ■ FM22 - ■ ■ Q1**	
	46	620	31.03	18100	2.6	87	**2KJ4510 - ■ FM22 - ■ ■ P1**	
	50	565	28.46	18100	2.8	87	**2KJ4510 - ■ FM22 - ■ ■ N1**	
	K.129-LHN132SC6							
	5.8	4 930	165.47	37100	0.89	213	**2KJ4512 - ■ HE21 - ■ ■ F2**	**P01**
	K.149-LHN132SC6							
	4.1	7 070	237.03	65000	1.1	296	**2KJ4513 - ■ HE21 - ■ ■ J2**	**P01**
	4.7	6 050	202.86	65000	1.3	296	**2KJ4513 - ■ HE21 - ■ ■ H2**	**P01**
	5.0	5 690	190.92	65000	1.4	296	**2KJ4513 - ■ HE21 - ■ ■ G2**	**P01**
	5.4	5 340	178.97	65000	1.5	296	**2KJ4513 - ■ HE21 - ■ ■ F2**	**P01**
	K.169-LHN132SC6							
	4.3	6 660	223.30	70000	2.0	466	**2KJ4514 - ■ HE21 - ■ ■ F2**	**P01**
	K.109-LHN100LJ4E							
	8.1	3 540	177.43	24500	0.82	122	**2KJ4511 - ■ FM22 - ■ ■ F2**	
	8.8	3 270	163.78	24500	0.89	122	**2KJ4511 - ■ FM22 - ■ ■ E2**	
	9.6	2 970	148.88	24500	0.98	122	**2KJ4511 - ■ FM22 - ■ ■ D2**	
	11	2 510	126.07	24500	1.2	122	**2KJ4511 - ■ FM22 - ■ ■ C2**	
	12	2 360	118.65	24500	1.2	122	**2KJ4511 - ■ FM22 - ■ ■ B2**	
	13	2 180	109.57	24500	1.3	122	**2KJ4511 - ■ FM22 - ■ ■ A2**	
	15	1 940	97.49	24500	1.5	122	**2KJ4511 - ■ FM22 - ■ ■ X1**	
	17	1 720	86.59	24500	1.7	122	**2KJ4511 - ■ FM22 - ■ ■ W1**	
	19	1 540	77.51	24500	1.9	122	**2KJ4511 - ■ FM22 - ■ ■ V1**	
	22	1 320	66.26	24500	2.2	122	**2KJ4511 - ■ FM22 - ■ ■ U1**	
	K.129-LHN100LJ4E							
	6.3	4 550	228.30	35200	0.97	173	**2KJ4512 - ■ FM22 - ■ ■ J2**	
	6.8	4 200	210.74	35200	1.0	173	**2KJ4512 - ■ FM22 - ■ ■ H2**	
	7.4	3 870	194.04	35300	1.1	173	**2KJ4512 - ■ FM22 - ■ ■ G2**	
	8.7	3 300	165.47	35400	1.3	173	**2KJ4512 - ■ FM22 - ■ ■ F2**	
	9.2	3 100	155.74	35400	1.4	173	**2KJ4512 - ■ FM22 - ■ ■ E2**	
	9.9	2 880	144.53	35400	1.5	173	**2KJ4512 - ■ FM22 - ■ ■ D2**	
	11	2 550	127.77	35500	1.7	173	**2KJ4512 - ■ FM22 - ■ ■ C2**	
	13	2 270	114.06	35500	1.9	173	**2KJ4512 - ■ FM22 - ■ ■ B2**	
	14	2 040	102.64	35600	2.1	173	**2KJ4512 - ■ FM22 - ■ ■ A2**	
	K.149-LHN100LJ4E							
	6.1	4 730	237.03	62000	1.7	256	**2KJ4513 - ■ FM22 - ■ ■ J2**	
	7.1	4 050	202.86	62100	2.0	256	**2KJ4513 - ■ FM22 - ■ ■ H2**	
	7.5	3 810	190.92	62200	2.1	256	**2KJ4513 - ■ FM22 - ■ ■ G2**	
	K.149-Z49-LHN100LJ4E							
	2.9	9 180	488.00	65000	0.87	274	**2KJ4535 - ■ FM22 - ■ ■ E1**	
	3.4	7 870	418.00	65000	1.0	274	**2KJ4535 - ■ FM22 - ■ ■ D1**	
	3.9	6 920	368.00	65000	1.2	274	**2KJ4535 - ■ FM22 - ■ ■ C1**	
	4.6	5 840	310.31	65000	1.4	274	**2KJ4535 - ■ FM22 - ■ ■ B1**	
	5.3	5 090	270.46	65000	1.6	274	**2KJ4535 - ■ FM22 - ■ ■ A1**	
	K.169-Z49-LHN100LJ4E							
	1.7	16 200	864.00	70000	0.8	445	**2KJ4537 - ■ FM22 - ■ ■ G1**	

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Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**K.169-Z49-LHN100LJ4E**							
	2.0	13 800	735.00	70000	0.94	445	**2KJ4537 - ■ FM22 - ■ ■ F1**	
	2.3	11 800	630.00	70000	1.1	445	**2KJ4537 - ■ FM22 - ■ ■ E1**	
	2.6	10 400	554.00	70000	1.2	445	**2KJ4537 - ■ FM22 - ■ ■ D1**	
	3.1	8 790	467.00	70000	1.5	445	**2KJ4537 - ■ FM22 - ■ ■ C1**	
	3.4	7 830	416.00	70000	1.7	445	**2KJ4537 - ■ FM22 - ■ ■ B1**	
	4.0	6 830	363.00	70000	1.9	445	**2KJ4537 - ■ FM22 - ■ ■ A1**	
	K.189-Z69-LHN100LJ4E							
	1.1	24 200	1 287.00	104000	0.8	686	**2KJ4540 - ■ FM22 - ■ ■ L1**	
	1.3	20 400	1 086.00	104000	0.95	686	**2KJ4540 - ■ FM22 - ■ ■ K1**	
	1.5	17 800	946.00	104000	1.1	686	**2KJ4540 - ■ FM22 - ■ ■ J1**	
	1.6	16 700	889.00	104000	1.2	686	**2KJ4540 - ■ FM22 - ■ ■ H1**	
	1.9	14 200	756.00	104000	1.4	686	**2KJ4540 - ■ FM22 - ■ ■ G1**	
	2.2	12 200	648.00	104000	1.6	686	**2KJ4540 - ■ FM22 - ■ ■ F1**	
	2.5	10 700	570.00	104000	1.8	686	**2KJ4540 - ■ FM22 - ■ ■ E1**	
4	**B.39-LHN112MF4**							
	135	280	10.69	4600	0.85	67	**2KJ4502 - ■ GJ21 - ■ ■ J1**	
	158	240	9.17	4600	0.95	67	**2KJ4502 - ■ GJ21 - ■ ■ H1**	
	183	205	7.89	4500	1.1	67	**2KJ4502 - ■ GJ21 - ■ ■ G1**	
	219	174	6.60	4600	1.1	67	**2KJ4502 - ■ GJ21 - ■ ■ F1**	
	233	164	6.21	4500	1.2	67	**2KJ4502 - ■ GJ21 - ■ ■ E1**	
	260	147	5.56	4400	1.4	67	**2KJ4502 - ■ GJ21 - ■ ■ D1**	
	305	125	4.74	4300	1.6	67	**2KJ4502 - ■ GJ21 - ■ ■ C1**	
	356	107	4.06	4100	1.9	67	**2KJ4502 - ■ GJ21 - ■ ■ B1**	
	413	92	3.50	4000	2.1	67	**2KJ4502 - ■ GJ21 - ■ ■ A1**	
	K.39-LHN112MF4							
	181	210	7.99	2200	0.83	68	**2KJ4504 - ■ GJ21 - ■ ■ D1**	
	192	199	7.52	2200	0.86	68	**2KJ4504 - ■ GJ21 - ■ ■ C1**	
	218	175	6.63	2300	0.92	68	**2KJ4504 - ■ GJ21 - ■ ■ B1**	
	251	152	5.75	2400	0.99	68	**2KJ4504 - ■ GJ21 - ■ ■ A1**	
	B.49-LHN112MF4							
	69	555	21.01	5100	0.81	72	**2KJ4503 - ■ GJ21 - ■ ■ R1**	
	73	520	19.77	5200	0.86	72	**2KJ4503 - ■ GJ21 - ■ ■ Q1**	
	77	490	18.67	5200	0.91	72	**2KJ4503 - ■ GJ21 - ■ ■ P1**	
	91	420	15.89	5200	1.1	72	**2KJ4503 - ■ GJ21 - ■ ■ N1**	
	106	360	13.61	5200	1.3	72	**2KJ4503 - ■ GJ21 - ■ ■ M1**	
	121	315	11.97	5200	1.4	72	**2KJ4503 - ■ GJ21 - ■ ■ L1**	
	143	265	10.10	5100	1.7	72	**2KJ4503 - ■ GJ21 - ■ ■ K1**	
	164	230	8.80	5100	1.9	72	**2KJ4503 - ■ GJ21 - ■ ■ J1**	
	174	215	8.29	5200	1.5	72	**2KJ4503 - ■ GJ21 - ■ ■ H1**	
	185	205	7.80	5100	1.6	72	**2KJ4503 - ■ GJ21 - ■ ■ G1**	
	196	195	7.37	5100	1.7	72	**2KJ4503 - ■ GJ21 - ■ ■ F1**	
	230	166	6.27	4900	2.0	72	**2KJ4503 - ■ GJ21 - ■ ■ E1**	
	269	142	5.37	4700	2.3	72	**2KJ4503 - ■ GJ21 - ■ ■ D1**	
	306	125	4.72	4600	2.6	72	**2KJ4503 - ■ GJ21 - ■ ■ C1**	
	363	105	3.98	4400	3.1	72	**2KJ4503 - ■ GJ21 - ■ ■ B1**	
	416	92	3.47	4300	3.5	72	**2KJ4503 - ■ GJ21 - ■ ■ A1**	

Article No. supplement		
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Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.49-LHN112MF4**							
	75	510	19.38	2400	0.82	75	**2KJ4505 - ■ GJ21 - ■ ■ M1**	
	79	480	18.24	2500	0.87	75	**2KJ4505 - ■ GJ21 - ■ ■ L1**	
	88	430	16.34	2700	0.97	75	**2KJ4505 - ■ GJ21 - ■ ■ K1**	
	104	365	13.91	2900	1.1	75	**2KJ4505 - ■ GJ21 - ■ ■ J1**	
	121	315	11.93	3000	1.3	75	**2KJ4505 - ■ GJ21 - ■ ■ H1**	
	141	270	10.27	3000	1.5	75	**2KJ4505 - ■ GJ21 - ■ ■ G1**	
	148	255	9.75	2900	1.1	75	**2KJ4505 - ■ GJ21 - ■ ■ F1**	
	157	240	9.18	3000	1.1	75	**2KJ4505 - ■ GJ21 - ■ ■ E1**	
	176	215	8.22	3000	1.2	75	**2KJ4505 - ■ GJ21 - ■ ■ D1**	
	206	185	7.00	3000	1.3	75	**2KJ4505 - ■ GJ21 - ■ ■ C1**	
	241	159	6.00	3000	1.4	75	**2KJ4505 - ■ GJ21 - ■ ■ B1**	
	279	137	5.17	2900	1.5	75	**2KJ4505 - ■ GJ21 - ■ ■ A1**	
	K.69-LHN112MF4							
	55	685	26.05	4900	0.87	81	**2KJ4507 - ■ GJ21 - ■ ■ N1**	
	59	645	24.52	5000	0.92	81	**2KJ4507 - ■ GJ21 - ■ ■ M1**	
	62	610	23.15	5000	0.96	81	**2KJ4507 - ■ GJ21 - ■ ■ L1**	
	73	520	19.70	5200	1.1	81	**2KJ4507 - ■ GJ21 - ■ ■ K1**	
	86	445	16.88	5300	1.2	81	**2KJ4507 - ■ GJ21 - ■ ■ J1**	
	97	390	14.84	5300	1.3	81	**2KJ4507 - ■ GJ21 - ■ ■ H1**	
	115	330	12.52	5300	1.5	81	**2KJ4507 - ■ GJ21 - ■ ■ G1**	
	132	285	10.91	5300	1.6	81	**2KJ4507 - ■ GJ21 - ■ ■ F1**	
	155	245	9.34	4700	1.5	81	**2KJ4507 - ■ GJ21 - ■ ■ E1**	
	180	210	8.01	4700	1.7	81	**2KJ4507 - ■ GJ21 - ■ ■ D1**	
	205	186	7.04	4600	2.0	81	**2KJ4507 - ■ GJ21 - ■ ■ C1**	
	243	157	5.94	4500	2.2	81	**2KJ4507 - ■ GJ21 - ■ ■ B1**	
	279	137	5.18	4400	2.4	81	**2KJ4507 - ■ GJ21 - ■ ■ A1**	
	K.79-LHN112MF4							
	40	955	36.26	13700	0.8	87	**2KJ4508 - ■ GJ21 - ■ ■ Q1**	
	44	865	32.78	13800	0.95	87	**2KJ4508 - ■ GJ21 - ■ ■ P1**	
	53	715	27.20	14100	1.1	87	**2KJ4508 - ■ GJ21 - ■ ■ N1**	
	56	675	25.60	14200	1.2	87	**2KJ4508 - ■ GJ21 - ■ ■ M1**	
	60	635	24.17	14300	1.2	87	**2KJ4508 - ■ GJ21 - ■ ■ L1**	
	70	540	20.57	14400	1.4	87	**2KJ4508 - ■ GJ21 - ■ ■ K1**	
	82	465	17.62	14400	1.5	87	**2KJ4508 - ■ GJ21 - ■ ■ J1**	
	93	405	15.49	14400	1.7	87	**2KJ4508 - ■ GJ21 - ■ ■ H1**	
	111	345	13.07	14400	1.9	87	**2KJ4508 - ■ GJ21 - ■ ■ G1**	
	127	300	11.39	14000	2.1	87	**2KJ4508 - ■ GJ21 - ■ ■ F1**	
	137	275	10.51	13700	1.6	87	**2KJ4508 - ■ GJ21 - ■ ■ E1**	
	160	235	9.01	13200	1.9	87	**2KJ4508 - ■ GJ21 - ■ ■ D1**	
	182	205	7.92	12800	2.1	87	**2KJ4508 - ■ GJ21 - ■ ■ C1**	
	216	177	6.68	12300	2.6	87	**2KJ4508 - ■ GJ21 - ■ ■ B1**	
	248	154	5.82	11900	2.8	87	**2KJ4508 - ■ GJ21 - ■ ■ A1**	
	K.89-LHN112MF4							
	20	1 940	73.64	18100	0.82	107	**2KJ4510 - ■ GJ21 - ■ ■ W1**	
	22	1 700	64.39	18100	0.94	107	**2KJ4510 - ■ GJ21 - ■ ■ V1**	
	26	1 460	55.27	18100	1.1	107	**2KJ4510 - ■ GJ21 - ■ ■ U1**	
	30	1 290	48.85	18100	1.2	107	**2KJ4510 - ■ GJ21 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.89-LHN112MF4**							
	35	1 090	41.54	18 100	1.4	107	**2KJ4510 - ■ GJ21 - ■ ■ S1**	
	37	1 030	39.29	18 100	1.5	107	**2KJ4510 - ■ GJ21 - ■ ■ R1**	
	44	870	32.96	18 100	1.8	107	**2KJ4510 - ■ GJ21 - ■ ■ Q1**	
	47	820	31.03	18 100	2.0	107	**2KJ4510 - ■ GJ21 - ■ ■ P1**	
	51	750	28.46	18 100	2.1	107	**2KJ4510 - ■ GJ21 - ■ ■ N1**	
	58	655	24.86	18 100	2.4	107	**2KJ4510 - ■ GJ21 - ■ ■ M1**	
	65	585	22.26	18 100	2.7	107	**2KJ4510 - ■ GJ21 - ■ ■ L1**	
	74	510	19.46	18 100	3.0	107	**2KJ4510 - ■ GJ21 - ■ ■ K1**	
	137	275	10.51	18 100	3.0	107	**2KJ4510 - ■ GJ21 - ■ ■ E1**	
	160	235	9.02	18 100	3.4	107	**2KJ4510 - ■ GJ21 - ■ ■ D1**	
	181	210	7.97	18 000	3.7	107	**2KJ4510 - ■ GJ21 - ■ ■ C1**	
	213	179	6.78	17 300	4.0	107	**2KJ4510 - ■ GJ21 - ■ ■ B1**	
	249	154	5.81	16 600	4.4	107	**2KJ4510 - ■ GJ21 - ■ ■ A1**	
	K.109-LHN112MF4							
	11	3 330	126.07	24 500	0.87	143	**2KJ4511 - ■ GJ21 - ■ ■ C2**	
	12	3 130	118.65	24 500	0.92	143	**2KJ4511 - ■ GJ21 - ■ ■ B2**	
	13	2 890	109.57	24 500	1.0	143	**2KJ4511 - ■ GJ21 - ■ ■ A2**	
	15	2 570	97.49	24 500	1.1	143	**2KJ4511 - ■ GJ21 - ■ ■ X1**	
	17	2 280	86.59	24 500	1.3	143	**2KJ4511 - ■ GJ21 - ■ ■ W1**	
	19	2 040	77.51	24 500	1.4	143	**2KJ4511 - ■ GJ21 - ■ ■ V1**	
	22	1 750	66.26	24 500	1.7	143	**2KJ4511 - ■ GJ21 - ■ ■ U1**	
	24	1 560	59.17	24 500	1.9	143	**2KJ4511 - ■ GJ21 - ■ ■ T1**	
	28	1 380	52.29	24 500	2.1	143	**2KJ4511 - ■ GJ21 - ■ ■ S1**	
	31	1 210	45.89	24 500	2.4	143	**2KJ4511 - ■ GJ21 - ■ ■ R1**	
	K.129-LHN112MF4							
	7.4	5 130	194.04	36 900	0.86	193	**2KJ4512 - ■ GJ21 - ■ ■ G2**	
	8.7	4 370	165.47	37 600	1.0	193	**2KJ4512 - ■ GJ21 - ■ ■ F2**	
	9.3	4 110	155.74	37 900	1.1	193	**2KJ4512 - ■ GJ21 - ■ ■ E2**	
	10	3 820	144.53	38 200	1.2	193	**2KJ4512 - ■ GJ21 - ■ ■ D2**	
	11	3 370	127.77	38 600	1.3	193	**2KJ4512 - ■ GJ21 - ■ ■ C2**	
	13	3 010	114.06	39 000	1.5	193	**2KJ4512 - ■ GJ21 - ■ ■ B2**	
	14	2 710	102.64	39 200	1.6	193	**2KJ4512 - ■ GJ21 - ■ ■ A2**	
	16	2 350	89.09	39 600	1.9	193	**2KJ4512 - ■ GJ21 - ■ ■ X1**	
	18	2 110	80.12	39 800	2.1	193	**2KJ4512 - ■ GJ21 - ■ ■ W1**	
	21	1 850	70.03	40 000	2.4	193	**2KJ4512 - ■ GJ21 - ■ ■ V1**	
	K.149-LHN112MF4							
	6.1	6 260	237.03	65 000	1.3	277	**2KJ4513 - ■ GJ21 - ■ ■ J2**	
	7.1	5 360	202.86	65 000	1.5	277	**2KJ4513 - ■ GJ21 - ■ ■ H2**	
	7.6	5 040	190.92	65 000	1.6	277	**2KJ4513 - ■ GJ21 - ■ ■ G2**	
	8.1	4 730	178.97	65 000	1.7	277	**2KJ4513 - ■ GJ21 - ■ ■ F2**	
	9.1	4 190	158.65	65 000	1.9	277	**2KJ4513 - ■ GJ21 - ■ ■ E2**	
	10	3 720	140.93	65 000	2.1	277	**2KJ4513 - ■ GJ21 - ■ ■ D2**	
	K.149-LHN132MB6							
	4.1	9 430	237.03	65 000	0.85	299	**2KJ4513 - ■ HH21 - ■ ■ J2**	**P01**
	4.7	8 070	202.86	65 000	0.99	299	**2KJ4513 - ■ HH21 - ■ ■ H2**	**P01**
	5.0	7 590	190.92	65 000	1.1	299	**2KJ4513 - ■ HH21 - ■ ■ G2**	**P01**
	5.4	7 120	178.97	65 000	1.1	299	**2KJ4513 - ■ HH21 - ■ ■ F2**	**P01**

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.169-LHN132MB6**							
	4.3	8 880	223.30	70000	1.5	469	**2KJ4514 - ■ HH21 - ■ ■ F2**	**P01**
	4.6	8 290	208.35	70000	1.6	469	**2KJ4514 - ■ HH21 - ■ ■ E2**	**P01**
	5.2	7 370	185.23	70000	1.8	469	**2KJ4514 - ■ HH21 - ■ ■ D2**	**P01**
	5.8	6 610	166.31	70000	2.0	469	**2KJ4514 - ■ HH21 - ■ ■ C2**	**P01**
5.5	**B.49-LHN132SH4**							
	106	495	13.61	4300	0.91	93	**2KJ4503 - ■ HF21 - ■ ■ M1**	
	121	435	11.97	4400	1.0	93	**2KJ4503 - ■ HF21 - ■ ■ L1**	
	143	365	10.10	4500	1.2	93	**2KJ4503 - ■ HF21 - ■ ■ K1**	
	164	320	8.80	4500	1.4	93	**2KJ4503 - ■ HF21 - ■ ■ J1**	
	174	300	8.29	4700	1.1	93	**2KJ4503 - ■ HF21 - ■ ■ H1**	
	185	280	7.80	4700	1.2	93	**2KJ4503 - ■ HF21 - ■ ■ G1**	
	196	265	7.37	4600	1.2	93	**2KJ4503 - ■ HF21 - ■ ■ F1**	
	230	225	6.27	4500	1.4	93	**2KJ4503 - ■ HF21 - ■ ■ E1**	
	269	195	5.37	4400	1.7	93	**2KJ4503 - ■ HF21 - ■ ■ D1**	
	306	172	4.72	4300	1.9	93	**2KJ4503 - ■ HF21 - ■ ■ C1**	
	363	145	3.98	4200	2.3	93	**2KJ4503 - ■ HF21 - ■ ■ B1**	
	416	126	3.47	4100	2.6	93	**2KJ4503 - ■ HF21 - ■ ■ A1**	
	K.49-LHN132SH4							
	104	505	13.91	1800	0.83	96	**2KJ4505 - ■ HF21 - ■ ■ J1**	
	121	430	11.93	2100	0.97	96	**2KJ4505 - ■ HF21 - ■ ■ H1**	
	141	370	10.27	2300	1.1	96	**2KJ4505 - ■ HF21 - ■ ■ G1**	
	157	330	9.18	2200	0.81	96	**2KJ4505 - ■ HF21 - ■ ■ E1**	
	176	295	8.22	2300	0.85	96	**2KJ4505 - ■ HF21 - ■ ■ D1**	
	206	250	7.00	2400	0.94	96	**2KJ4505 - ■ HF21 - ■ ■ C1**	
	241	215	6.00	2500	1.0	96	**2KJ4505 - ■ HF21 - ■ ■ B1**	
	279	188	5.17	2500	1.1	96	**2KJ4505 - ■ HF21 - ■ ■ A1**	
	K.69-LHN132SH4							
	86	610	16.88	4100	0.86	102	**2KJ4507 - ■ HF21 - ■ ■ J1**	
	97	535	14.84	4300	0.95	102	**2KJ4507 - ■ HF21 - ■ ■ H1**	
	115	455	12.52	4400	1.1	102	**2KJ4507 - ■ HF21 - ■ ■ G1**	
	132	395	10.91	4500	1.2	102	**2KJ4507 - ■ HF21 - ■ ■ F1**	
	155	340	9.34	3900	1.1	102	**2KJ4507 - ■ HF21 - ■ ■ E1**	
	180	290	8.01	4000	1.3	102	**2KJ4507 - ■ HF21 - ■ ■ D1**	
	205	255	7.04	4000	1.4	102	**2KJ4507 - ■ HF21 - ■ ■ C1**	
	243	215	5.94	4000	1.6	102	**2KJ4507 - ■ HF21 - ■ ■ B1**	
	279	188	5.18	4000	1.8	102	**2KJ4507 - ■ HF21 - ■ ■ A1**	
	K.79-LHN132SH4							
	53	985	27.20	13600	0.81	108	**2KJ4508 - ■ HF21 - ■ ■ N1**	
	56	930	25.60	13700	0.84	108	**2KJ4508 - ■ HF21 - ■ ■ M1**	
	60	875	24.17	13800	0.88	108	**2KJ4508 - ■ HF21 - ■ ■ L1**	
	70	745	20.57	14100	0.99	108	**2KJ4508 - ■ HF21 - ■ ■ K1**	
	82	640	17.62	14300	1.1	108	**2KJ4508 - ■ HF21 - ■ ■ J1**	
	93	560	15.49	14000	1.2	108	**2KJ4508 - ■ HF21 - ■ ■ H1**	
	111	475	13.07	13700	1.4	108	**2KJ4508 - ■ HF21 - ■ ■ G1**	
	127	410	11.39	13400	1.6	108	**2KJ4508 - ■ HF21 - ■ ■ F1**	
	137	380	10.51	13000	1.2	108	**2KJ4508 - ■ HF21 - ■ ■ E1**	
	160	325	9.01	12600	1.4	108	**2KJ4508 - ■ HF21 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**K.79-LHN132SH4**							
	182	285	7.92	12300	1.6	108	**2KJ4508 - ■ HF21 - ■ ■ C1**	
	216	240	6.68	11900	1.9	108	**2KJ4508 - ■ HF21 - ■ ■ B1**	
	248	210	5.82	11600	2.0	108	**2KJ4508 - ■ HF21 - ■ ■ A1**	
	K.89-LHN132SH4							
	26	2 000	55.27	18100	0.8	129	**2KJ4510 - ■ HF21 - ■ ■ U1**	
	30	1 770	48.85	18100	0.9	129	**2KJ4510 - ■ HF21 - ■ ■ T1**	
	35	1 510	41.54	18100	1.0	129	**2KJ4510 - ■ HF21 - ■ ■ S1**	
	37	1 420	39.29	18100	1.1	129	**2KJ4510 - ■ HF21 - ■ ■ R1**	
	44	1 190	32.96	18100	1.3	129	**2KJ4510 - ■ HF21 - ■ ■ Q1**	
	47	1 120	31.03	18100	1.4	129	**2KJ4510 - ■ HF21 - ■ ■ P1**	
	51	1 030	28.46	18100	1.5	129	**2KJ4510 - ■ HF21 - ■ ■ N1**	
	58	900	24.86	18100	1.8	129	**2KJ4510 - ■ HF21 - ■ ■ M1**	
	65	805	22.26	18100	2.0	129	**2KJ4510 - ■ HF21 - ■ ■ L1**	
	74	705	19.46	18100	2.2	129	**2KJ4510 - ■ HF21 - ■ ■ K1**	
	86	605	16.71	18100	2.4	129	**2KJ4510 - ■ HF21 - ■ ■ J1**	
	98	535	14.77	18100	2.6	129	**2KJ4510 - ■ HF21 - ■ ■ H1**	
	115	455	12.56	18100	2.9	129	**2KJ4510 - ■ HF21 - ■ ■ G1**	
	134	390	10.76	18100	3.2	129	**2KJ4510 - ■ HF21 - ■ ■ F1**	
	137	380	10.51	18100	2.2	129	**2KJ4510 - ■ HF21 - ■ ■ E1**	
	160	325	9.02	18100	2.4	129	**2KJ4510 - ■ HF21 - ■ ■ D1**	
	181	290	7.97	17600	2.7	129	**2KJ4510 - ■ HF21 - ■ ■ C1**	
	213	245	6.78	16900	2.9	129	**2KJ4510 - ■ HF21 - ■ ■ B1**	
	249	210	5.81	16300	3.2	129	**2KJ4510 - ■ HF21 - ■ ■ A1**	
	K.109-LHN132SH4							
	15	3 540	97.49	24500	0.82	165	**2KJ4511 - ■ HF21 - ■ ■ X1**	
	17	3 140	86.59	24500	0.92	165	**2KJ4511 - ■ HF21 - ■ ■ W1**	
	19	2 810	77.51	24500	1.0	165	**2KJ4511 - ■ HF21 - ■ ■ V1**	
	22	2 400	66.26	24500	1.2	165	**2KJ4511 - ■ HF21 - ■ ■ U1**	
	24	2 150	59.17	24500	1.3	165	**2KJ4511 - ■ HF21 - ■ ■ T1**	
	28	1 900	52.29	24500	1.5	165	**2KJ4511 - ■ HF21 - ■ ■ S1**	
	31	1 660	45.89	24500	1.7	165	**2KJ4511 - ■ HF21 - ■ ■ R1**	
	36	1 450	39.95	24500	1.9	165	**2KJ4511 - ■ HF21 - ■ ■ Q1**	
	42	1 240	34.15	24500	2.2	165	**2KJ4511 - ■ HF21 - ■ ■ P1**	
	49	1 060	29.23	24500	2.5	165	**2KJ4511 - ■ HF21 - ■ ■ N1**	
	58	905	24.98	24500	2.6	165	**2KJ4511 - ■ HF21 - ■ ■ M1**	
	65	810	22.31	24500	2.9	165	**2KJ4511 - ■ HF21 - ■ ■ L1**	
	138	380	10.45	21500	3.3	165	**2KJ4511 - ■ HF21 - ■ ■ E1**	
	158	330	9.17	20800	3.8	165	**2KJ4511 - ■ HF21 - ■ ■ D1**	
	K.129-LHN132SH4							
	10	5 250	144.53	36800	0.84	214	**2KJ4512 - ■ HF21 - ■ ■ D2**	
	11	4 640	127.77	37400	0.95	214	**2KJ4512 - ■ HF21 - ■ ■ C2**	
	13	4 140	114.06	37800	1.1	214	**2KJ4512 - ■ HF21 - ■ ■ B2**	
	14	3 730	102.64	38200	1.2	214	**2KJ4512 - ■ HF21 - ■ ■ A2**	
	16	3 230	89.09	38700	1.4	214	**2KJ4512 - ■ HF21 - ■ ■ X1**	
	18	2 910	80.12	39000	1.5	214	**2KJ4512 - ■ HF21 - ■ ■ W1**	
	21	2 540	70.03	39400	1.7	214	**2KJ4512 - ■ HF21 - ■ ■ V1**	
	23	2 270	62.49	39700	1.9	214	**2KJ4512 - ■ HF21 - ■ ■ U1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**K.129-LHN132SH4**							
	26	2 000	55.05	39900	2.2	214	**2KJ4512 - ■ HF21 - ■ ■ T1**	
	30	1 750	48.24	40000	2.5	214	**2KJ4512 - ■ HF21 - ■ ■ S1**	
	K.149-LHN132ML6							
	5.4	9 790	178.97	65000	0.82	306	**2KJ4513 - ■ HL21 - ■ ■ F2**	**P01**
	K.149-LHN132SH4							
	6.1	8 610	237.03	65000	0.93	297	**2KJ4513 - ■ HF21 - ■ ■ J2**	
	7.1	7 370	202.86	65000	1.1	297	**2KJ4513 - ■ HF21 - ■ ■ H2**	
	7.6	6 940	190.92	65000	1.2	297	**2KJ4513 - ■ HF21 - ■ ■ G2**	
	8.1	6 500	178.97	65000	1.2	297	**2KJ4513 - ■ HF21 - ■ ■ F2**	
	9.1	5 760	158.65	65000	1.4	297	**2KJ4513 - ■ HF21 - ■ ■ E2**	
	10	5 120	140.93	65000	1.6	297	**2KJ4513 - ■ HF21 - ■ ■ D2**	
	11	4 620	127.16	65000	1.7	297	**2KJ4513 - ■ HF21 - ■ ■ C2**	
	13	4 090	112.68	65000	2.0	297	**2KJ4513 - ■ HF21 - ■ ■ B2**	
	14	3 620	99.79	65000	2.2	297	**2KJ4513 - ■ HF21 - ■ ■ A2**	
	K.169-LHN132ML6							
	4.3	12 200	223.30	70000	1.1	476	**2KJ4514 - ■ HL21 - ■ ■ F2**	**P01**
	4.6	11 400	208.35	70000	1.1	476	**2KJ4514 - ■ HL21 - ■ ■ E2**	**P01**
	5.2	10 100	185.23	70000	1.3	476	**2KJ4514 - ■ HL21 - ■ ■ D2**	**P01**
	5.8	9 090	166.31	70000	1.4	476	**2KJ4514 - ■ HL21 - ■ ■ C2**	**P01**
	K.169-LHN132SH4							
	6.5	8 110	223.30	70000	1.6	467	**2KJ4514 - ■ HF21 - ■ ■ F2**	
	6.9	7 570	208.35	70000	1.7	467	**2KJ4514 - ■ HF21 - ■ ■ E2**	
	7.8	6 730	185.23	70000	1.9	467	**2KJ4514 - ■ HF21 - ■ ■ D2**	
	K.189-LHN132ML6							
	4.8	10 900	199.51	104000	1.7	706	**2KJ4515 - ■ HL21 - ■ ■ W1**	**P01**
	5.4	9 760	178.49	104000	2.0	706	**2KJ4515 - ■ HL21 - ■ ■ V1**	**P01**
7.5	**B.49-LHN132MKA4**							
	144	495	10.10	3600	0.9	108	**2KJ4503 - ■ HJ21 - ■ ■ K1**	
	165	435	8.80	3700	1.0	108	**2KJ4503 - ■ HJ21 - ■ ■ J1**	
	175	405	8.29	4100	0.81	108	**2KJ4503 - ■ HJ21 - ■ ■ H1**	
	186	385	7.80	4000	0.86	108	**2KJ4503 - ■ HJ21 - ■ ■ G1**	
	197	360	7.37	4100	0.91	108	**2KJ4503 - ■ HJ21 - ■ ■ F1**	
	231	310	6.27	4000	1.1	108	**2KJ4503 - ■ HJ21 - ■ ■ E1**	
	270	265	5.37	4000	1.2	108	**2KJ4503 - ■ HJ21 - ■ ■ D1**	
	307	230	4.72	4000	1.4	108	**2KJ4503 - ■ HJ21 - ■ ■ C1**	
	364	197	3.98	3900	1.7	108	**2KJ4503 - ■ HJ21 - ■ ■ B1**	
	418	171	3.47	3800	1.9	108	**2KJ4503 - ■ HJ21 - ■ ■ A1**	
	K.49-LHN132MKA4							
	141	505	10.27	1200	0.82	111	**2KJ4505 - ■ HJ21 - ■ ■ G1**	
	280	255	5.17	2000	0.82	111	**2KJ4505 - ■ HJ21 - ■ ■ A1**	
	K.69-LHN132MKA4							
	133	535	10.91	3500	0.87	117	**2KJ4507 - ■ HJ21 - ■ ■ F1**	
	155	460	9.34	2800	0.8	117	**2KJ4507 - ■ HJ21 - ■ ■ E1**	
	181	395	8.01	3000	0.92	117	**2KJ4507 - ■ HJ21 - ■ ■ D1**	
	206	345	7.04	3200	1.0	117	**2KJ4507 - ■ HJ21 - ■ ■ C1**	
	244	290	5.94	3300	1.2	117	**2KJ4507 - ■ HJ21 - ■ ■ B1**	
	280	255	5.18	3400	1.3	117	**2KJ4507 - ■ HJ21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**K.79-LHN132MKA4**							
	82	870	17.62	12900	0.82	123	**2KJ4508 - ■ HJ21 - ■ ■ J1**	
	94	765	15.49	12900	0.91	123	**2KJ4508 - ■ HJ21 - ■ ■ H1**	
	111	645	13.07	12700	1.0	123	**2KJ4508 - ■ HJ21 - ■ ■ G1**	
	127	560	11.39	12500	1.1	123	**2KJ4508 - ■ HJ21 - ■ ■ F1**	
	138	515	10.51	12200	0.86	123	**2KJ4508 - ■ HJ21 - ■ ■ E1**	
	161	445	9.01	11900	1.0	123	**2KJ4508 - ■ HJ21 - ■ ■ D1**	
	183	390	7.92	11700	1.2	123	**2KJ4508 - ■ HJ21 - ■ ■ C1**	
	217	330	6.68	11300	1.4	123	**2KJ4508 - ■ HJ21 - ■ ■ B1**	
	249	285	5.82	11100	1.5	123	**2KJ4508 - ■ HJ21 - ■ ■ A1**	
	K.89-LHN132MKA4							
	37	1 940	39.29	18100	0.82	144	**2KJ4510 - ■ HJ21 - ■ ■ R1**	
	44	1 620	32.96	18100	0.98	144	**2KJ4510 - ■ HJ21 - ■ ■ Q1**	
	47	1 530	31.03	18100	1.0	144	**2KJ4510 - ■ HJ21 - ■ ■ P1**	
	51	1 400	28.46	18100	1.1	144	**2KJ4510 - ■ HJ21 - ■ ■ N1**	
	58	1 220	24.86	18100	1.3	144	**2KJ4510 - ■ HJ21 - ■ ■ M1**	
	65	1 100	22.26	18100	1.5	144	**2KJ4510 - ■ HJ21 - ■ ■ L1**	
	75	960	19.46	18100	1.6	144	**2KJ4510 - ■ HJ21 - ■ ■ K1**	
	87	825	16.71	18100	1.8	144	**2KJ4510 - ■ HJ21 - ■ ■ J1**	
	98	730	14.77	18100	1.9	144	**2KJ4510 - ■ HJ21 - ■ ■ H1**	
	115	620	12.56	18100	2.1	144	**2KJ4510 - ■ HJ21 - ■ ■ G1**	
	135	530	10.76	18100	2.4	144	**2KJ4510 - ■ HJ21 - ■ ■ F1**	
	138	515	10.51	17900	1.6	144	**2KJ4510 - ■ HJ21 - ■ ■ E1**	
	161	445	9.02	17400	1.8	144	**2KJ4510 - ■ HJ21 - ■ ■ D1**	
	182	390	7.97	17000	2.0	144	**2KJ4510 - ■ HJ21 - ■ ■ C1**	
	214	335	6.78	16400	2.1	144	**2KJ4510 - ■ HJ21 - ■ ■ B1**	
	250	285	5.81	15900	2.4	144	**2KJ4510 - ■ HJ21 - ■ ■ A1**	
	K.109-LHN132MKA4							
	22	3 270	66.26	24500	0.89	180	**2KJ4511 - ■ HJ21 - ■ ■ U1**	
	25	2 920	59.17	24500	0.99	180	**2KJ4511 - ■ HJ21 - ■ ■ T1**	
	28	2 580	52.29	24500	1.1	180	**2KJ4511 - ■ HJ21 - ■ ■ S1**	
	32	2 260	45.89	24500	1.3	180	**2KJ4511 - ■ HJ21 - ■ ■ R1**	
	36	1 970	39.95	24500	1.4	180	**2KJ4511 - ■ HJ21 - ■ ■ Q1**	
	42	1 680	34.15	24500	1.6	180	**2KJ4511 - ■ HJ21 - ■ ■ P1**	
	50	1 440	29.23	24500	1.8	180	**2KJ4511 - ■ HJ21 - ■ ■ N1**	
	58	1 230	24.98	24500	1.9	180	**2KJ4511 - ■ HJ21 - ■ ■ M1**	
	65	1 100	22.31	24500	2.2	180	**2KJ4511 - ■ HJ21 - ■ ■ L1**	
	74	970	19.71	24300	2.4	180	**2KJ4511 - ■ HJ21 - ■ ■ K1**	
	84	855	17.30	23600	2.8	180	**2KJ4511 - ■ HJ21 - ■ ■ J1**	
	96	740	15.06	23000	3.1	180	**2KJ4511 - ■ HJ21 - ■ ■ H1**	
	113	635	12.87	22200	3.5	180	**2KJ4511 - ■ HJ21 - ■ ■ G1**	
	139	515	10.45	20900	2.4	180	**2KJ4511 - ■ HJ21 - ■ ■ E1**	
	158	450	9.17	20300	2.8	180	**2KJ4511 - ■ HJ21 - ■ ■ D1**	
	181	395	7.99	19600	3.2	180	**2KJ4511 - ■ HJ21 - ■ ■ C1**	
	212	335	6.83	18900	3.9	180	**2KJ4511 - ■ HJ21 - ■ ■ B1**	
	248	285	5.84	18200	4.5	180	**2KJ4511 - ■ HJ21 - ■ ■ A1**	
	K.129-LHN132MKA4							
	14	5 070	102.64	36900	0.87	229	**2KJ4512 - ■ HJ21 - ■ ■ A2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**K.129-LHN132MKA4**							
	16	4 400	89.09	37600	1.0	229	**2KJ4512 - ■ HJ21 - ■ ■ X1**	
	18	3 950	80.12	38000	1.1	229	**2KJ4512 - ■ HJ21 - ■ ■ W1**	
	21	3 450	70.03	38500	1.3	229	**2KJ4512 - ■ HJ21 - ■ ■ V1**	
	23	3 080	62.49	38900	1.4	229	**2KJ4512 - ■ HJ21 - ■ ■ U1**	
	26	2 710	55.05	39200	1.6	229	**2KJ4512 - ■ HJ21 - ■ ■ T1**	
	30	2 380	48.24	39300	1.8	229	**2KJ4512 - ■ HJ21 - ■ ■ S1**	
	34	2 070	42.04	38400	2.1	229	**2KJ4512 - ■ HJ21 - ■ ■ R1**	
	38	1 890	38.37	37800	2.3	229	**2KJ4512 - ■ HJ21 - ■ ■ Q1**	
	44	1 630	33.03	36800	2.7	229	**2KJ4512 - ■ HJ21 - ■ ■ P1**	
	46	1 550	31.55	36500	2.8	229	**2KJ4512 - ■ HJ21 - ■ ■ N1**	
	K.149-LHN132MKA4							
	7.1	10 000	202.86	64900	0.8	312	**2KJ4513 - ■ HJ21 - ■ ■ H2**	
	7.6	9 430	190.92	65000	0.85	312	**2KJ4513 - ■ HJ21 - ■ ■ G2**	
	8.1	8 840	178.97	65000	0.9	312	**2KJ4513 - ■ HJ21 - ■ ■ F2**	
	9.1	7 830	158.65	65000	1.0	312	**2KJ4513 - ■ HJ21 - ■ ■ E2**	
	10	6 960	140.93	65000	1.1	312	**2KJ4513 - ■ HJ21 - ■ ■ D2**	
	11	6 280	127.16	65000	1.3	312	**2KJ4513 - ■ HJ21 - ■ ■ C2**	
	13	5 560	112.68	65000	1.4	312	**2KJ4513 - ■ HJ21 - ■ ■ B2**	
	15	4 920	99.79	64200	1.6	312	**2KJ4513 - ■ HJ21 - ■ ■ A2**	
	16	4 380	88.81	63000	1.8	312	**2KJ4513 - ■ HJ21 - ■ ■ X1**	
	18	3 930	79.59	61800	2.0	312	**2KJ4513 - ■ HJ21 - ■ ■ W1**	
	21	3 480	70.56	60500	2.3	312	**2KJ4513 - ■ HJ21 - ■ ■ V1**	
	K.169-LHN132MKA4							
	6.5	11 000	223.30	70000	1.2	482	**2KJ4514 - ■ HJ21 - ■ ■ F2**	
	7.0	10 200	208.35	70000	1.3	482	**2KJ4514 - ■ HJ21 - ■ ■ E2**	
	7.8	9 150	185.23	70000	1.4	482	**2KJ4514 - ■ HJ21 - ■ ■ D2**	
	8.7	8 210	166.31	70000	1.6	482	**2KJ4514 - ■ HJ21 - ■ ■ C2**	
	9.6	7 430	150.55	70000	1.7	482	**2KJ4514 - ■ HJ21 - ■ ■ B2**	
	11	6 530	132.24	70000	2.0	482	**2KJ4514 - ■ HJ21 - ■ ■ A2**	
	12	5 910	119.83	70000	2.2	482	**2KJ4514 - ■ HJ21 - ■ ■ X1**	
	K.189-LHN132MKA4							
	7.3	9 850	199.51	104000	1.9	712	**2KJ4515 - ■ HJ21 - ■ ■ W1**	
9.2	**B.49-LHN132MKB4**							
	164	535	8.80	3000	0.84	108	**2KJ4503 - ■ HT21 - ■ ■ J1**	
	230	380	6.27	3500	0.87	108	**2KJ4503 - ■ HT21 - ■ ■ E1**	
	269	325	5.37	3700	1.0	108	**2KJ4503 - ■ HT21 - ■ ■ D1**	
	306	285	4.72	3700	1.1	108	**2KJ4503 - ■ HT21 - ■ ■ C1**	
	363	240	3.98	3600	1.4	108	**2KJ4503 - ■ HT21 - ■ ■ B1**	
	416	210	3.47	3600	1.5	108	**2KJ4503 - ■ HT21 - ■ ■ A1**	
	K.69-LHN132MKB4							
	205	425	7.04	2500	0.85	117	**2KJ4507 - ■ HT21 - ■ ■ C1**	
	243	360	5.94	2700	0.96	117	**2KJ4507 - ■ HT21 - ■ ■ B1**	
	279	315	5.18	2900	1.0	117	**2KJ4507 - ■ HT21 - ■ ■ A1**	
	K.79-LHN132MKB4							
	111	795	13.07	11800	0.84	123	**2KJ4508 - ■ HT21 - ■ ■ G1**	
	127	690	11.39	11800	0.93	123	**2KJ4508 - ■ HT21 - ■ ■ F1**	
	160	545	9.01	11300	0.82	123	**2KJ4508 - ■ HT21 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**K.79-LHN132MKB4**							
	182	480	7.92	11100	0.93	123	**2KJ4508 - ■ HT21 - ■ ■ C1**	
	216	405	6.68	10900	1.1	123	**2KJ4508 - ■ HT21 - ■ ■ B1**	
	248	350	5.82	10700	1.2	123	**2KJ4508 - ■ HT21 - ■ ■ A1**	
	K.89-LHN132MKB4							
	44	2 000	32.96	18100	0.8	144	**2KJ4510 - ■ HT21 - ■ ■ Q1**	
	47	1 880	31.03	18100	0.85	144	**2KJ4510 - ■ HT21 - ■ ■ P1**	
	51	1 730	28.46	18100	0.92	144	**2KJ4510 - ■ HT21 - ■ ■ N1**	
	58	1 510	24.86	18100	1.1	144	**2KJ4510 - ■ HT21 - ■ ■ M1**	
	65	1 350	22.26	18100	1.2	144	**2KJ4510 - ■ HT21 - ■ ■ L1**	
	74	1 180	19.46	18100	1.3	144	**2KJ4510 - ■ HT21 - ■ ■ K1**	
	86	1 010	16.71	18100	1.5	144	**2KJ4510 - ■ HT21 - ■ ■ J1**	
	98	895	14.77	18100	1.6	144	**2KJ4510 - ■ HT21 - ■ ■ H1**	
	115	760	12.56	18100	1.7	144	**2KJ4510 - ■ HT21 - ■ ■ G1**	
	134	650	10.76	18100	1.9	144	**2KJ4510 - ■ HT21 - ■ ■ F1**	
	137	635	10.51	17300	1.3	144	**2KJ4510 - ■ HT21 - ■ ■ E1**	
	160	545	9.02	16900	1.5	144	**2KJ4510 - ■ HT21 - ■ ■ D1**	
	181	485	7.97	16500	1.6	144	**2KJ4510 - ■ HT21 - ■ ■ C1**	
	213	410	6.78	16000	1.7	144	**2KJ4510 - ■ HT21 - ■ ■ B1**	
	249	350	5.81	15500	1.9	144	**2KJ4510 - ■ HT21 - ■ ■ A1**	
	K.109-LHN132MKB4							
	24	3 590	59.17	24500	0.81	180	**2KJ4511 - ■ HT21 - ■ ■ T1**	
	28	3 170	52.29	24500	0.91	180	**2KJ4511 - ■ HT21 - ■ ■ S1**	
	31	2 790	45.89	24500	1.0	180	**2KJ4511 - ■ HT21 - ■ ■ R1**	
	36	2 420	39.95	24500	1.2	180	**2KJ4511 - ■ HT21 - ■ ■ Q1**	
	42	2 070	34.15	24500	1.3	180	**2KJ4511 - ■ HT21 - ■ ■ P1**	
	49	1 770	29.23	24500	1.5	180	**2KJ4511 - ■ HT21 - ■ ■ N1**	
	58	1 510	24.98	24300	1.6	180	**2KJ4511 - ■ HT21 - ■ ■ M1**	
	65	1 350	22.31	23900	1.8	180	**2KJ4511 - ■ HT21 - ■ ■ L1**	
	73	1 190	19.71	23500	2.0	180	**2KJ4511 - ■ HT21 - ■ ■ K1**	
	84	1 050	17.30	22900	2.3	180	**2KJ4511 - ■ HT21 - ■ ■ J1**	
	96	915	15.06	22300	2.5	180	**2KJ4511 - ■ HT21 - ■ ■ H1**	
	112	780	12.87	21700	2.8	180	**2KJ4511 - ■ HT21 - ■ ■ G1**	
	131	670	11.02	21000	3.1	180	**2KJ4511 - ■ HT21 - ■ ■ F1**	
	138	635	10.45	20400	2.0	180	**2KJ4511 - ■ HT21 - ■ ■ E1**	
	158	555	9.17	19800	2.3	180	**2KJ4511 - ■ HT21 - ■ ■ D1**	
	181	485	7.99	19200	2.6	180	**2KJ4511 - ■ HT21 - ■ ■ C1**	
	212	415	6.83	18500	3.1	180	**2KJ4511 - ■ HT21 - ■ ■ B1**	
	247	355	5.84	17900	3.7	180	**2KJ4511 - ■ HT21 - ■ ■ A1**	
	K.129-LHN132MKB4							
	16	5 410	89.09	36600	0.81	229	**2KJ4512 - ■ HT21 - ■ ■ X1**	
	18	4 870	80.12	37100	0.9	229	**2KJ4512 - ■ HT21 - ■ ■ W1**	
	21	4 250	70.03	37700	1.0	229	**2KJ4512 - ■ HT21 - ■ ■ V1**	
	23	3 800	62.49	38200	1.2	229	**2KJ4512 - ■ HT21 - ■ ■ U1**	
	26	3 340	55.05	38000	1.3	229	**2KJ4512 - ■ HT21 - ■ ■ T1**	
	30	2 930	48.24	37500	1.5	229	**2KJ4512 - ■ HT21 - ■ ■ S1**	
	34	2 550	42.04	36800	1.7	229	**2KJ4512 - ■ HT21 - ■ ■ R1**	
	38	2 330	38.37	36400	1.9	229	**2KJ4512 - ■ HT21 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**K.129-LHN132MKB4**							
	44	2 000	33.03	35500	2.2	229	**2KJ4512 - ■ HT21 - ■ ■ P1**	
	46	1 910	31.55	35300	2.3	229	**2KJ4512 - ■ HT21 - ■ ■ N1**	
	52	1 670	27.58	34400	2.6	229	**2KJ4512 - ■ HT21 - ■ ■ M1**	
	59	1 490	24.61	33700	2.9	229	**2KJ4512 - ■ HT21 - ■ ■ L1**	
	K.149-LHN132MKB4							
	9.1	9 640	158.65	62700	0.83	312	**2KJ4513 - ■ HT21 - ■ ■ E2**	
	10	8 560	140.93	62600	0.93	312	**2KJ4513 - ■ HT21 - ■ ■ D2**	
	11	7 730	127.16	62300	1.0	312	**2KJ4513 - ■ HT21 - ■ ■ C2**	
	13	6 850	112.68	61800	1.2	312	**2KJ4513 - ■ HT21 - ■ ■ B2**	
	14	6 060	99.79	61100	1.3	312	**2KJ4513 - ■ HT21 - ■ ■ A2**	
	16	5 400	88.81	60300	1.5	312	**2KJ4513 - ■ HT21 - ■ ■ X1**	
	18	4 830	79.59	59400	1.7	312	**2KJ4513 - ■ HT21 - ■ ■ W1**	
	20	4 290	70.56	58300	1.9	312	**2KJ4513 - ■ HT21 - ■ ■ V1**	
	23	3 780	62.28	57200	2.1	312	**2KJ4513 - ■ HT21 - ■ ■ U1**	
	26	3 330	54.76	55900	2.4	312	**2KJ4513 - ■ HT21 - ■ ■ T1**	
	K.169-LHN132MKB4							
	6.5	13 500	223.30	70000	0.96	482	**2KJ4514 - ■ HT21 - ■ ■ F2**	
	6.9	12 600	208.35	70000	1.0	482	**2KJ4514 - ■ HT21 - ■ ■ E2**	
	7.8	11 200	185.23	70000	1.2	482	**2KJ4514 - ■ HT21 - ■ ■ D2**	
	8.7	10 100	166.31	70000	1.3	482	**2KJ4514 - ■ HT21 - ■ ■ C2**	
	9.6	9 150	150.55	70000	1.4	482	**2KJ4514 - ■ HT21 - ■ ■ B2**	
	11	8 040	132.24	70000	1.6	482	**2KJ4514 - ■ HT21 - ■ ■ A2**	
	12	7 280	119.83	70000	1.8	482	**2KJ4514 - ■ HT21 - ■ ■ X1**	
	14	6 480	106.72	70000	2.0	482	**2KJ4514 - ■ HT21 - ■ ■ W1**	
	15	5 820	95.83	70000	2.2	482	**2KJ4514 - ■ HT21 - ■ ■ V1**	
	K.189-LHN132MKB4							
	7.2	12 100	199.51	104000	1.6	712	**2KJ4515 - ■ HT21 - ■ ■ W1**	
	8.1	10 800	178.49	104000	1.8	712	**2KJ4515 - ■ HT21 - ■ ■ V1**	
	9.0	9 780	160.98	104000	2.0	712	**2KJ4515 - ■ HT21 - ■ ■ U1**	
11	**K.89-LHN160MK4**							
	59	1 790	24.86	18100	0.89	188	**2KJ4510 - ■ JQ21 - ■ ■ M1**	
	65	1 600	22.26	18100	1.0	188	**2KJ4510 - ■ JQ21 - ■ ■ L1**	
	75	1 400	19.46	18100	1.1	188	**2KJ4510 - ■ JQ21 - ■ ■ K1**	
	87	1 200	16.71	18100	1.2	188	**2KJ4510 - ■ JQ21 - ■ ■ J1**	
	99	1 060	14.77	18100	1.3	188	**2KJ4510 - ■ JQ21 - ■ ■ H1**	
	116	905	12.56	17800	1.5	188	**2KJ4510 - ■ JQ21 - ■ ■ G1**	
	135	775	10.76	17400	1.6	188	**2KJ4510 - ■ JQ21 - ■ ■ F1**	
	138	755	10.51	16600	1.1	188	**2KJ4510 - ■ JQ21 - ■ ■ E1**	
	161	650	9.02	16200	1.2	188	**2KJ4510 - ■ JQ21 - ■ ■ D1**	
	183	575	7.97	15900	1.3	188	**2KJ4510 - ■ JQ21 - ■ ■ C1**	
	215	490	6.78	15500	1.5	188	**2KJ4510 - ■ JQ21 - ■ ■ B1**	
	250	415	5.81	15100	1.6	188	**2KJ4510 - ■ JQ21 - ■ ■ A1**	
	K.109-LHN160MK4							
	32	3 310	45.89	23500	0.88	225	**2KJ4511 - ■ JQ21 - ■ ■ R1**	
	36	2 880	39.95	23600	0.98	225	**2KJ4511 - ■ JQ21 - ■ ■ Q1**	
	43	2 460	34.15	23600	1.1	225	**2KJ4511 - ■ JQ21 - ■ ■ P1**	
	50	2 110	29.23	23400	1.2	225	**2KJ4511 - ■ JQ21 - ■ ■ N1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**K.109-LHN160MK4**							
	58	1 800	24.98	23200	1.3	225	**2KJ4511 - ■ JQ21 - ■ ■ M1**	
	65	1 610	22.31	22900	1.5	225	**2KJ4511 - ■ JQ21 - ■ ■ L1**	
	74	1 420	19.71	22500	1.7	225	**2KJ4511 - ■ JQ21 - ■ ■ K1**	
	84	1 240	17.30	22200	1.9	225	**2KJ4511 - ■ JQ21 - ■ ■ J1**	
	97	1 080	15.06	21700	2.1	225	**2KJ4511 - ■ JQ21 - ■ ■ H1**	
	113	925	12.87	21100	2.4	225	**2KJ4511 - ■ JQ21 - ■ ■ G1**	
	132	795	11.02	20400	2.6	225	**2KJ4511 - ■ JQ21 - ■ ■ F1**	
	139	750	10.45	19800	1.7	225	**2KJ4511 - ■ JQ21 - ■ ■ E1**	
	159	660	9.17	19300	1.9	225	**2KJ4511 - ■ JQ21 - ■ ■ D1**	
	182	575	7.99	18800	2.2	225	**2KJ4511 - ■ JQ21 - ■ ■ C1**	
	213	490	6.83	18200	2.6	225	**2KJ4511 - ■ JQ21 - ■ ■ B1**	
	249	420	5.84	17600	3.1	225	**2KJ4511 - ■ JQ21 - ■ ■ A1**	
	K.129-LHN160MK4							
	21	5 050	70.03	35700	0.87	273	**2KJ4512 - ■ JQ21 - ■ ■ V1**	
	23	4 510	62.49	35800	0.98	273	**2KJ4512 - ■ JQ21 - ■ ■ U1**	
	26	3 970	55.05	35700	1.1	273	**2KJ4512 - ■ JQ21 - ■ ■ T1**	
	30	3 480	48.24	35500	1.3	273	**2KJ4512 - ■ JQ21 - ■ ■ S1**	
	35	3 030	42.04	35100	1.4	273	**2KJ4512 - ■ JQ21 - ■ ■ R1**	
	38	2 770	38.37	34800	1.6	273	**2KJ4512 - ■ JQ21 - ■ ■ Q1**	
	44	2 380	33.03	34200	1.8	273	**2KJ4512 - ■ JQ21 - ■ ■ P1**	
	46	2 270	31.55	33900	1.9	273	**2KJ4512 - ■ JQ21 - ■ ■ N1**	
	53	1 990	27.58	33300	2.2	273	**2KJ4512 - ■ JQ21 - ■ ■ M1**	
	59	1 770	24.61	32700	2.5	273	**2KJ4512 - ■ JQ21 - ■ ■ L1**	
	67	1 560	21.68	31900	2.7	273	**2KJ4512 - ■ JQ21 - ■ ■ K1**	
	77	1 370	19.00	31100	3.0	273	**2KJ4512 - ■ JQ21 - ■ ■ J1**	
	123	850	11.80	28100	3.3	273	**2KJ4512 - ■ JQ21 - ■ ■ E1**	
	141	745	10.34	27300	3.8	273	**2KJ4512 - ■ JQ21 - ■ ■ D1**	
	K.149-LHN160MK4							
	11	9 180	127.16	58100	0.87	356	**2KJ4513 - ■ JQ21 - ■ ■ C2**	
	13	8 130	112.68	58000	0.98	356	**2KJ4513 - ■ JQ21 - ■ ■ B2**	
	15	7 200	99.79	57700	1.1	356	**2KJ4513 - ■ JQ21 - ■ ■ A2**	
	16	6 410	88.81	57300	1.2	356	**2KJ4513 - ■ JQ21 - ■ ■ X1**	
	18	5 740	79.59	56700	1.4	356	**2KJ4513 - ■ JQ21 - ■ ■ W1**	
	21	5 090	70.56	55900	1.6	356	**2KJ4513 - ■ JQ21 - ■ ■ V1**	
	23	4 490	62.28	55000	1.8	356	**2KJ4513 - ■ JQ21 - ■ ■ U1**	
	27	3 950	54.76	54000	2.0	356	**2KJ4513 - ■ JQ21 - ■ ■ T1**	
	29	3 580	49.60	53100	2.2	356	**2KJ4513 - ■ JQ21 - ■ ■ S1**	
	34	3 110	43.18	51900	2.6	356	**2KJ4513 - ■ JQ21 - ■ ■ R1**	
	K.169-LHN160MK4							
	6.5	16 100	223.30	70000	0.81	524	**2KJ4514 - ■ JQ21 - ■ ■ F2**	
	7.0	15 000	208.35	70000	0.86	524	**2KJ4514 - ■ JQ21 - ■ ■ E2**	
	7.9	13 300	185.23	70000	0.97	524	**2KJ4514 - ■ JQ21 - ■ ■ D2**	
	8.7	12 000	166.31	70000	1.1	524	**2KJ4514 - ■ JQ21 - ■ ■ C2**	
	9.7	10 800	150.55	70000	1.2	524	**2KJ4514 - ■ JQ21 - ■ ■ B2**	
	11	9 540	132.24	70000	1.4	524	**2KJ4514 - ■ JQ21 - ■ ■ A2**	
	12	8 650	119.83	70000	1.5	524	**2KJ4514 - ■ JQ21 - ■ ■ X1**	
	14	7 700	106.72	70000	1.7	524	**2KJ4514 - ■ JQ21 - ■ ■ W1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
11	**K.169-LHN160MK4**							
	15	6 910	95.83	70000	1.9	524	**2KJ4514 - ■ JQ21 - ■ ■ V1**	
	17	6 170	85.51	70000	2.1	524	**2KJ4514 - ■ JQ21 - ■ ■ U1**	
	K.189-LHN160MK4							
	7.3	14 400	199.51	104000	1.3	755	**2KJ4515 - ■ JQ21 - ■ ■ W1**	
	8.2	12 800	178.49	104000	1.5	755	**2KJ4515 - ■ JQ21 - ■ ■ V1**	
	9.0	11 600	160.98	104000	1.7	755	**2KJ4515 - ■ JQ21 - ■ ■ U1**	
	10	10 200	142.28	104000	1.9	755	**2KJ4515 - ■ JQ21 - ■ ■ T1**	
	11	9 390	130.05	104000	2.1	755	**2KJ4515 - ■ JQ21 - ■ ■ S1**	
15	**K.89-LHN160LH4**							
	75	1 910	19.46	16300	0.81	202	**2KJ4510 - ■ JT21 - ■ ■ K1**	
	87	1 640	16.71	16400	0.9	202	**2KJ4510 - ■ JT21 - ■ ■ J1**	
	99	1 450	14.77	16400	0.98	202	**2KJ4510 - ■ JT21 - ■ ■ H1**	
	116	1 230	12.56	16300	1.1	202	**2KJ4510 - ■ JT21 - ■ ■ G1**	
	135	1 050	10.76	16200	1.2	202	**2KJ4510 - ■ JT21 - ■ ■ F1**	
	138	1 030	10.51	15000	0.82	202	**2KJ4510 - ■ JT21 - ■ ■ E1**	
	161	885	9.02	14900	0.9	202	**2KJ4510 - ■ JT21 - ■ ■ D1**	
	183	785	7.97	14700	0.98	202	**2KJ4510 - ■ JT21 - ■ ■ C1**	
	215	665	6.78	14500	1.1	202	**2KJ4510 - ■ JT21 - ■ ■ B1**	
	250	570	5.81	14200	1.2	202	**2KJ4510 - ■ JT21 - ■ ■ A1**	
	K.109-LHN160LH4							
	43	3 360	34.15	20200	0.81	239	**2KJ4511 - ■ JT21 - ■ ■ P1**	
	50	2 870	29.23	20600	0.91	239	**2KJ4511 - ■ JT21 - ■ ■ N1**	
	58	2 450	24.98	20700	0.97	239	**2KJ4511 - ■ JT21 - ■ ■ M1**	
	65	2 190	22.31	20700	1.1	239	**2KJ4511 - ■ JT21 - ■ ■ L1**	
	74	1 940	19.71	20600	1.2	239	**2KJ4511 - ■ JT21 - ■ ■ K1**	
	84	1 700	17.30	20400	1.4	239	**2KJ4511 - ■ JT21 - ■ ■ J1**	
	97	1 480	15.06	20100	1.6	239	**2KJ4511 - ■ JT21 - ■ ■ H1**	
	113	1 260	12.87	19800	1.7	239	**2KJ4511 - ■ JT21 - ■ ■ G1**	
	132	1 080	11.02	19400	1.9	239	**2KJ4511 - ■ JT21 - ■ ■ F1**	
	139	1 020	10.45	18700	1.2	239	**2KJ4511 - ■ JT21 - ■ ■ E1**	
	159	900	9.17	18300	1.4	239	**2KJ4511 - ■ JT21 - ■ ■ D1**	
	182	785	7.99	17900	1.6	239	**2KJ4511 - ■ JT21 - ■ ■ C1**	
	213	670	6.83	17400	1.9	239	**2KJ4511 - ■ JT21 - ■ ■ B1**	
	249	575	5.84	16900	2.3	239	**2KJ4511 - ■ JT21 - ■ ■ A1**	
	K.129-LHN160LH4							
	26	5 420	55.05	30800	0.81	287	**2KJ4512 - ■ JT21 - ■ ■ T1**	
	30	4 740	48.24	31200	0.93	287	**2KJ4512 - ■ JT21 - ■ ■ S1**	
	35	4 130	42.04	31300	1.1	287	**2KJ4512 - ■ JT21 - ■ ■ R1**	
	38	3 770	38.37	31300	1.2	287	**2KJ4512 - ■ JT21 - ■ ■ Q1**	
	44	3 250	33.03	31200	1.4	287	**2KJ4512 - ■ JT21 - ■ ■ P1**	
	46	3 100	31.55	31100	1.4	287	**2KJ4512 - ■ JT21 - ■ ■ N1**	
	53	2 710	27.58	30800	1.6	287	**2KJ4512 - ■ JT21 - ■ ■ M1**	
	59	2 420	24.61	30400	1.8	287	**2KJ4512 - ■ JT21 - ■ ■ L1**	
	67	2 130	21.68	30000	2.0	287	**2KJ4512 - ■ JT21 - ■ ■ K1**	
	77	1 870	19.00	29400	2.2	287	**2KJ4512 - ■ JT21 - ■ ■ J1**	
	88	1 630	16.56	28800	2.5	287	**2KJ4512 - ■ JT21 - ■ ■ H1**	
	96	1 480	15.11	28400	2.6	287	**2KJ4512 - ■ JT21 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**K.129-LHN160LH4**							
	112	1 280	13.01	27600	3.0	287	**2KJ4512 - ■ JT21 - ■ ■ F1**	
	123	1 160	11.80	27100	2.4	287	**2KJ4512 - ■ JT21 - ■ ■ E1**	
	141	1 010	10.34	26400	2.8	287	**2KJ4512 - ■ JT21 - ■ ■ D1**	
	161	885	9.01	25600	3.1	287	**2KJ4512 - ■ JT21 - ■ ■ C1**	
	177	805	8.22	25100	3.3	287	**2KJ4512 - ■ JT21 - ■ ■ B1**	
	206	695	7.08	24200	3.6	287	**2KJ4512 - ■ JT21 - ■ ■ A1**	
	K.149-LHN160LH4							
	15	9 820	99.79	50400	0.81	370	**2KJ4513 - ■ JT21 - ■ ■ A2**	
	16	8 740	88.81	50800	0.91	370	**2KJ4513 - ■ JT21 - ■ ■ X1**	
	18	7 830	79.59	50900	1.0	370	**2KJ4513 - ■ JT21 - ■ ■ W1**	
	21	6 940	70.56	50800	1.2	370	**2KJ4513 - ■ JT21 - ■ ■ V1**	
	23	6 130	62.28	50500	1.3	370	**2KJ4513 - ■ JT21 - ■ ■ U1**	
	27	5 390	54.76	50000	1.5	370	**2KJ4513 - ■ JT21 - ■ ■ T1**	
	29	4 880	49.60	49500	1.6	370	**2KJ4513 - ■ JT21 - ■ ■ S1**	
	34	4 250	43.18	48700	1.9	370	**2KJ4513 - ■ JT21 - ■ ■ R1**	
	41	3 480	35.40	47300	2.3	370	**2KJ4513 - ■ JT21 - ■ ■ Q1**	
	45	3 180	32.33	46600	2.4	370	**2KJ4513 - ■ JT21 - ■ ■ P1**	
	51	2 820	28.66	45700	2.7	370	**2KJ4513 - ■ JT21 - ■ ■ N1**	
	58	2 490	25.30	44600	3.0	370	**2KJ4513 - ■ JT21 - ■ ■ M1**	
	103	1 390	14.15	39200	3.0	370	**2KJ4513 - ■ JT21 - ■ ■ G1**	
	117	1 220	12.44	38100	3.3	370	**2KJ4513 - ■ JT21 - ■ ■ F1**	
	129	1 100	11.26	37200	3.6	370	**2KJ4513 - ■ JT21 - ■ ■ E1**	
	148	965	9.81	36000	4.0	370	**2KJ4513 - ■ JT21 - ■ ■ D1**	
	K.169-LHN160LH4							
	9.7	14 800	150.55	70000	0.88	538	**2KJ4514 - ■ JT21 - ■ ■ B2**	
	11	13 000	132.24	70000	1.0	538	**2KJ4514 - ■ JT21 - ■ ■ A2**	
	12	11 700	119.83	70000	1.1	538	**2KJ4514 - ■ JT21 - ■ ■ X1**	
	14	10 500	106.72	70000	1.2	538	**2KJ4514 - ■ JT21 - ■ ■ W1**	
	15	9 430	95.83	70000	1.4	538	**2KJ4514 - ■ JT21 - ■ ■ V1**	
	17	8 410	85.51	70000	1.5	538	**2KJ4514 - ■ JT21 - ■ ■ U1**	
	19	7 500	76.23	70000	1.7	538	**2KJ4514 - ■ JT21 - ■ ■ T1**	
	22	6 650	67.61	70000	2.0	538	**2KJ4514 - ■ JT21 - ■ ■ S1**	
	23	6 110	62.07	70000	2.1	538	**2KJ4514 - ■ JT21 - ■ ■ R1**	
	27	5 380	54.68	70000	2.4	538	**2KJ4514 - ■ JT21 - ■ ■ Q1**	
	K.189-LHN160LH4							
	7.3	19 600	199.51	104000	0.97	769	**2KJ4515 - ■ JT21 - ■ ■ W1**	
	8.2	17 500	178.49	104000	1.1	769	**2KJ4515 - ■ JT21 - ■ ■ V1**	
	9.0	15 800	160.98	104000	1.2	769	**2KJ4515 - ■ JT21 - ■ ■ U1**	
	10	14 000	142.28	104000	1.4	769	**2KJ4515 - ■ JT21 - ■ ■ T1**	
	11	12 800	130.05	104000	1.5	769	**2KJ4515 - ■ JT21 - ■ ■ S1**	
	12	11 500	117.00	104000	1.7	769	**2KJ4515 - ■ JT21 - ■ ■ R1**	
	14	10 200	104.56	104000	1.9	769	**2KJ4515 - ■ JT21 - ■ ■ Q1**	
	15	9 300	94.55	104000	2.1	769	**2KJ4515 - ■ JT21 - ■ ■ P1**	
18.5	**K.109-LHN180MK4**							
	66	2 690	22.31	18700	0.88	277	**2KJ4511 - ■ KK21 - ■ ■ L1**	
	74	2 370	19.71	18900	1.0	277	**2KJ4511 - ■ KK21 - ■ ■ K1**	
	85	2 080	17.30	18900	1.2	277	**2KJ4511 - ■ KK21 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**K.109-LHN180MK4**							
	97	1 810	15.06	18900	1.3	277	**2KJ4511 - ■ KK21 - ■ ■ H1**	
	114	1 550	12.87	18600	1.4	277	**2KJ4511 - ■ KK21 - ■ ■ G1**	
	133	1 320	11.02	18400	1.6	277	**2KJ4511 - ■ KK21 - ■ ■ F1**	
	140	1 260	10.45	17600	1.0	277	**2KJ4511 - ■ KK21 - ■ ■ E1**	
	160	1 100	9.17	17400	1.1	277	**2KJ4511 - ■ KK21 - ■ ■ D1**	
	183	960	7.99	17100	1.3	277	**2KJ4511 - ■ KK21 - ■ ■ C1**	
	214	820	6.83	16700	1.6	277	**2KJ4511 - ■ KK21 - ■ ■ B1**	
	251	700	5.84	16300	1.8	277	**2KJ4511 - ■ KK21 - ■ ■ A1**	
	K.129-LHN180MK4							
	35	5 070	42.04	28000	0.87	326	**2KJ4512 - ■ KK21 - ■ ■ R1**	
	38	4 620	38.37	28400	0.95	326	**2KJ4512 - ■ KK21 - ■ ■ Q1**	
	44	3 980	33.03	28600	1.1	326	**2KJ4512 - ■ KK21 - ■ ■ P1**	
	46	3 800	31.55	28600	1.2	326	**2KJ4512 - ■ KK21 - ■ ■ N1**	
	53	3 320	27.58	28600	1.3	326	**2KJ4512 - ■ KK21 - ■ ■ M1**	
	60	2 960	24.61	28500	1.5	326	**2KJ4512 - ■ KK21 - ■ ■ L1**	
	68	2 610	21.68	28300	1.6	326	**2KJ4512 - ■ KK21 - ■ ■ K1**	
	77	2 290	19.00	27900	1.8	326	**2KJ4512 - ■ KK21 - ■ ■ J1**	
	88	1 990	16.56	27500	2.0	326	**2KJ4512 - ■ KK21 - ■ ■ H1**	
	97	1 820	15.11	27100	2.2	326	**2KJ4512 - ■ KK21 - ■ ■ G1**	
	113	1 560	13.01	26600	2.4	326	**2KJ4512 - ■ KK21 - ■ ■ F1**	
	124	1 420	11.80	26100	2.0	326	**2KJ4512 - ■ KK21 - ■ ■ E1**	
	142	1 240	10.34	25500	2.3	326	**2KJ4512 - ■ KK21 - ■ ■ D1**	
	163	1 080	9.01	24900	2.5	326	**2KJ4512 - ■ KK21 - ■ ■ C1**	
	178	990	8.22	24400	2.7	326	**2KJ4512 - ■ KK21 - ■ ■ B1**	
	207	850	7.08	23700	3.0	326	**2KJ4512 - ■ KK21 - ■ ■ A1**	
	K.149-LHN180MK4							
	18	9 590	79.59	45800	0.83	408	**2KJ4513 - ■ KK21 - ■ ■ W1**	
	21	8 500	70.56	46300	0.94	408	**2KJ4513 - ■ KK21 - ■ ■ V1**	
	24	7 510	62.28	46500	1.1	408	**2KJ4513 - ■ KK21 - ■ ■ U1**	
	27	6 600	54.76	46400	1.2	408	**2KJ4513 - ■ KK21 - ■ ■ T1**	
	30	5 980	49.60	46300	1.3	408	**2KJ4513 - ■ KK21 - ■ ■ S1**	
	34	5 200	43.18	45900	1.5	408	**2KJ4513 - ■ KK21 - ■ ■ R1**	
	41	4 260	35.40	45000	1.8	408	**2KJ4513 - ■ KK21 - ■ ■ Q1**	
	45	3 890	32.33	44500	2.0	408	**2KJ4513 - ■ KK21 - ■ ■ P1**	
	51	3 450	28.66	43800	2.2	408	**2KJ4513 - ■ KK21 - ■ ■ N1**	
	58	3 050	25.30	42900	2.4	408	**2KJ4513 - ■ KK21 - ■ ■ M1**	
	66	2 680	22.25	42000	2.7	408	**2KJ4513 - ■ KK21 - ■ ■ L1**	
	73	2 430	20.15	41300	2.9	408	**2KJ4513 - ■ KK21 - ■ ■ K1**	
	84	2 110	17.54	40200	3.3	408	**2KJ4513 - ■ KK21 - ■ ■ J1**	
	104	1 700	14.15	38200	2.4	408	**2KJ4513 - ■ KK21 - ■ ■ G1**	
	118	1 500	12.44	37200	2.7	408	**2KJ4513 - ■ KK21 - ■ ■ F1**	
	130	1 350	11.26	36400	2.9	408	**2KJ4513 - ■ KK21 - ■ ■ E1**	
	149	1 180	9.81	35200	3.3	408	**2KJ4513 - ■ KK21 - ■ ■ D1**	
	182	970	8.04	33600	3.8	408	**2KJ4513 - ■ KK21 - ■ ■ C1**	
	215	820	6.82	32300	4.4	408	**2KJ4513 - ■ KK21 - ■ ■ B1**	
	K.169-LHN180MK4							
	12	14 400	119.83	70000	0.9	579	**2KJ4514 - ■ KK21 - ■ ■ X1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**K.169-LHN180MK4**							
	14	12 800	106.72	70000	1.0	579	**2KJ4514 - ■ KK21 - ■ ■ W1**	
	15	11 500	95.83	70000	1.1	579	**2KJ4514 - ■ KK21 - ■ ■ V1**	
	17	10 300	85.51	70000	1.3	579	**2KJ4514 - ■ KK21 - ■ ■ U1**	
	19	9 190	76.23	70000	1.4	579	**2KJ4514 - ■ KK21 - ■ ■ T1**	
	22	8 150	67.61	70000	1.6	579	**2KJ4514 - ■ KK21 - ■ ■ S1**	
	24	7 480	62.07	70000	1.7	579	**2KJ4514 - ■ KK21 - ■ ■ R1**	
	27	6 590	54.68	70000	2.0	579	**2KJ4514 - ■ KK21 - ■ ■ Q1**	
	33	5 410	44.86	70000	2.4	579	**2KJ4514 - ■ KK21 - ■ ■ P1**	
	K.189-LHN180MK4							
	11	15 600	130.05	104000	1.2	808	**2KJ4515 - ■ KK21 - ■ ■ S1**	
	13	14 100	117.00	104000	1.4	808	**2KJ4515 - ■ KK21 - ■ ■ R1**	
	14	12 600	104.56	104000	1.5	808	**2KJ4515 - ■ KK21 - ■ ■ Q1**	
	15	11 400	94.55	104000	1.7	808	**2KJ4515 - ■ KK21 - ■ ■ P1**	
	18	10 000	83.44	104000	1.9	808	**2KJ4515 - ■ KK21 - ■ ■ N1**	
	20	8 960	74.35	104000	2.2	808	**2KJ4515 - ■ KK21 - ■ ■ M1**	
	22	8 120	67.36	104000	2.4	808	**2KJ4515 - ■ KK21 - ■ ■ L1**	
22	**K.109-LHN180LH4**							
	74	2 820	19.71	17200	0.84	286	**2KJ4511 - ■ KM21 - ■ ■ K1**	
	85	2 480	17.30	17400	0.97	286	**2KJ4511 - ■ KM21 - ■ ■ J1**	
	97	2 160	15.06	17500	1.1	286	**2KJ4511 - ■ KM21 - ■ ■ H1**	
	114	1 840	12.87	17600	1.2	286	**2KJ4511 - ■ KM21 - ■ ■ G1**	
	133	1 580	11.02	17400	1.3	286	**2KJ4511 - ■ KM21 - ■ ■ F1**	
	140	1 490	10.45	16600	0.84	286	**2KJ4511 - ■ KM21 - ■ ■ E1**	
	160	1 310	9.17	16500	0.97	286	**2KJ4511 - ■ KM21 - ■ ■ D1**	
	183	1 140	7.99	16300	1.1	286	**2KJ4511 - ■ KM21 - ■ ■ C1**	
	214	980	6.83	16000	1.3	286	**2KJ4511 - ■ KM21 - ■ ■ B1**	
	251	835	5.84	15700	1.6	286	**2KJ4511 - ■ KM21 - ■ ■ A1**	
	K.129-LHN180LH4							
	38	5 500	38.37	25300	0.8	335	**2KJ4512 - ■ KM21 - ■ ■ Q1**	
	44	4 730	33.03	26000	0.93	335	**2KJ4512 - ■ KM21 - ■ ■ P1**	
	46	4 520	31.55	26200	0.97	335	**2KJ4512 - ■ KM21 - ■ ■ N1**	
	53	3 950	27.58	26500	1.1	335	**2KJ4512 - ■ KM21 - ■ ■ M1**	
	60	3 520	24.61	26600	1.2	335	**2KJ4512 - ■ KM21 - ■ ■ L1**	
	68	3 100	21.68	26600	1.4	335	**2KJ4512 - ■ KM21 - ■ ■ K1**	
	77	2 720	19.00	26400	1.5	335	**2KJ4512 - ■ KM21 - ■ ■ J1**	
	88	2 370	16.56	26200	1.7	335	**2KJ4512 - ■ KM21 - ■ ■ H1**	
	97	2 160	15.11	26000	1.8	335	**2KJ4512 - ■ KM21 - ■ ■ G1**	
	113	1 860	13.01	25500	2.0	335	**2KJ4512 - ■ KM21 - ■ ■ F1**	
	124	1 690	11.80	25200	1.7	335	**2KJ4512 - ■ KM21 - ■ ■ E1**	
	142	1 480	10.34	24700	1.9	335	**2KJ4512 - ■ KM21 - ■ ■ D1**	
	163	1 290	9.01	24100	2.1	335	**2KJ4512 - ■ KM21 - ■ ■ C1**	
	178	1 170	8.22	23800	2.3	335	**2KJ4512 - ■ KM21 - ■ ■ B1**	
	207	1 010	7.08	23100	2.5	335	**2KJ4512 - ■ KM21 - ■ ■ A1**	
	K.149-LHN180LH4							
	24	8 930	62.28	42500	0.9	417	**2KJ4513 - ■ KM21 - ■ ■ U1**	
	27	7 850	54.76	43000	1.0	417	**2KJ4513 - ■ KM21 - ■ ■ T1**	
	30	7 110	49.60	43100	1.1	417	**2KJ4513 - ■ KM21 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**K.149-LHN180LH4**							
	34	6 190	43.18	43100	1.3	417	**2KJ4513 - ■ KM21 - ■ ■ R1**	
	41	5 070	35.40	42800	1.5	417	**2KJ4513 - ■ KM21 - ■ ■ Q1**	
	45	4 630	32.33	42500	1.7	417	**2KJ4513 - ■ KM21 - ■ ■ P1**	
	51	4 110	28.66	41900	1.9	417	**2KJ4513 - ■ KM21 - ■ ■ N1**	
	58	3 620	25.30	41300	2.0	417	**2KJ4513 - ■ KM21 - ■ ■ M1**	
	66	3 190	22.25	40600	2.3	417	**2KJ4513 - ■ KM21 - ■ ■ L1**	
	73	2 890	20.15	40000	2.4	417	**2KJ4513 - ■ KM21 - ■ ■ K1**	
	84	2 510	17.54	39100	2.7	417	**2KJ4513 - ■ KM21 - ■ ■ J1**	
	102	2 060	14.38	37700	3.2	417	**2KJ4513 - ■ KM21 - ■ ■ H1**	
	104	2 020	14.15	37300	2.0	417	**2KJ4513 - ■ KM21 - ■ ■ G1**	
	118	1 780	12.44	36300	2.3	417	**2KJ4513 - ■ KM21 - ■ ■ F1**	
	130	1 610	11.26	35600	2.4	417	**2KJ4513 - ■ KM21 - ■ ■ E1**	
	149	1 400	9.81	34600	2.7	417	**2KJ4513 - ■ KM21 - ■ ■ D1**	
	182	1 150	8.04	33100	3.2	417	**2KJ4513 - ■ KM21 - ■ ■ C1**	
	215	975	6.82	31800	3.7	417	**2KJ4513 - ■ KM21 - ■ ■ B1**	
	K.169-LHN180LH4							
	14	15 300	106.72	70000	0.85	588	**2KJ4514 - ■ KM21 - ■ ■ W1**	
	15	13 700	95.83	70000	0.95	588	**2KJ4514 - ■ KM21 - ■ ■ V1**	
	17	12 200	85.51	70000	1.1	588	**2KJ4514 - ■ KM21 - ■ ■ U1**	
	19	10 900	76.23	70000	1.2	588	**2KJ4514 - ■ KM21 - ■ ■ T1**	
	22	9 690	67.61	70000	1.3	588	**2KJ4514 - ■ KM21 - ■ ■ S1**	
	24	8 900	62.07	70000	1.5	588	**2KJ4514 - ■ KM21 - ■ ■ R1**	
	27	7 840	54.68	70000	1.7	588	**2KJ4514 - ■ KM21 - ■ ■ Q1**	
	33	6 430	44.86	70000	2.0	588	**2KJ4514 - ■ KM21 - ■ ■ P1**	
	37	5 640	39.33	69200	2.3	588	**2KJ4514 - ■ KM21 - ■ ■ N1**	
	K.189-LHN180LH4							
	11	18 600	130.05	104000	1.0	817	**2KJ4515 - ■ KM21 - ■ ■ S1**	
	13	16 700	117.00	104000	1.2	817	**2KJ4515 - ■ KM21 - ■ ■ R1**	
	14	14 900	104.56	104000	1.3	817	**2KJ4515 - ■ KM21 - ■ ■ Q1**	
	15	13 500	94.55	104000	1.4	817	**2KJ4515 - ■ KM21 - ■ ■ P1**	
	18	11 900	83.44	104000	1.6	817	**2KJ4515 - ■ KM21 - ■ ■ N1**	
	20	10 600	74.35	104000	1.8	817	**2KJ4515 - ■ KM21 - ■ ■ M1**	
	22	9 660	67.36	104000	2.0	817	**2KJ4515 - ■ KM21 - ■ ■ L1**	
	24	8 680	60.58	104000	2.2	817	**2KJ4515 - ■ KM21 - ■ ■ K1**	
30	**K.129-LHN200LM4**							
	53	5 390	27.58	21600	0.82	412	**2KJ4512 - ■ LM21 - ■ ■ M1**	
	60	4 810	24.61	22200	0.91	412	**2KJ4512 - ■ LM21 - ■ ■ L1**	
	68	4 240	21.68	22700	1.0	412	**2KJ4512 - ■ LM21 - ■ ■ K1**	
	77	3 710	19.00	23100	1.1	412	**2KJ4512 - ■ LM21 - ■ ■ J1**	
	88	3 230	16.56	23300	1.2	412	**2KJ4512 - ■ LM21 - ■ ■ H1**	
	97	2 950	15.11	23300	1.3	412	**2KJ4512 - ■ LM21 - ■ ■ G1**	
	113	2 540	13.01	23200	1.5	412	**2KJ4512 - ■ LM21 - ■ ■ F1**	
	124	2 300	11.80	23100	1.2	412	**2KJ4512 - ■ LM21 - ■ ■ E1**	
	142	2 020	10.34	22800	1.4	412	**2KJ4512 - ■ LM21 - ■ ■ D1**	
	163	1 760	9.01	22500	1.6	412	**2KJ4512 - ■ LM21 - ■ ■ C1**	
	178	1 600	8.22	22300	1.7	412	**2KJ4512 - ■ LM21 - ■ ■ B1**	
	207	1 380	7.08	21800	1.8	412	**2KJ4512 - ■ LM21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**K.149-LHN200LM4**							
	30	9 700	49.60	35900	0.82	493	**2KJ4513 - ■ LM21 - ■ ■ S1**	
	34	8 440	43.18	36800	0.95	493	**2KJ4513 - ■ LM21 - ■ ■ R1**	
	41	6 920	35.40	37600	1.1	493	**2KJ4513 - ■ LM21 - ■ ■ Q1**	
	45	6 320	32.33	37700	1.2	493	**2KJ4513 - ■ LM21 - ■ ■ P1**	
	51	5 600	28.66	37800	1.4	493	**2KJ4513 - ■ LM21 - ■ ■ N1**	
	58	4 940	25.30	37700	1.5	493	**2KJ4513 - ■ LM21 - ■ ■ M1**	
	66	4 350	22.25	37400	1.7	493	**2KJ4513 - ■ LM21 - ■ ■ L1**	
	73	3 940	20.15	37000	1.8	493	**2KJ4513 - ■ LM21 - ■ ■ K1**	
	84	3 430	17.54	36500	2.0	493	**2KJ4513 - ■ LM21 - ■ ■ J1**	
	102	2 810	14.38	35600	2.4	493	**2KJ4513 - ■ LM21 - ■ ■ H1**	
	104	2 760	14.15	35100	1.5	493	**2KJ4513 - ■ LM21 - ■ ■ G1**	
	118	2 430	12.44	34400	1.7	493	**2KJ4513 - ■ LM21 - ■ ■ F1**	
	130	2 200	11.26	33900	1.8	493	**2KJ4513 - ■ LM21 - ■ ■ E1**	
	149	1 910	9.81	33100	2.0	493	**2KJ4513 - ■ LM21 - ■ ■ D1**	
	182	1 570	8.04	31900	2.4	493	**2KJ4513 - ■ LM21 - ■ ■ C1**	
	215	1 330	6.82	30800	2.7	493	**2KJ4513 - ■ LM21 - ■ ■ B1**	
	K.169-LHN200LM4							
	19	14 900	76.23	65800	0.87	664	**2KJ4514 - ■ LM21 - ■ ■ T1**	
	22	13 200	67.61	66200	0.98	664	**2KJ4514 - ■ LM21 - ■ ■ S1**	
	24	12 100	62.07	66300	1.1	664	**2KJ4514 - ■ LM21 - ■ ■ R1**	
	27	10 600	54.68	66300	1.2	664	**2KJ4514 - ■ LM21 - ■ ■ Q1**	
	33	8 770	44.86	65300	1.5	664	**2KJ4514 - ■ LM21 - ■ ■ P1**	
	37	7 690	39.33	64500	1.7	664	**2KJ4514 - ■ LM21 - ■ ■ N1**	
	48	6 010	30.75	62500	2.2	664	**2KJ4514 - ■ LM21 - ■ ■ M1**	
	50	5 750	29.43	62100	2.3	664	**2KJ4514 - ■ LM21 - ■ ■ L1**	
	54	5 280	27.02	61300	2.5	664	**2KJ4514 - ■ LM21 - ■ ■ K1**	
	62	4 650	23.80	60000	2.8	664	**2KJ4514 - ■ LM21 - ■ ■ J1**	
	120	2 380	12.20	51100	2.8	664	**2KJ4514 - ■ LM21 - ■ ■ E1**	
	146	1 950	10.01	49000	3.3	664	**2KJ4514 - ■ LM21 - ■ ■ D1**	
	167	1 710	8.78	47600	3.7	664	**2KJ4514 - ■ LM21 - ■ ■ C1**	
	K.189-LHN200LM4							
	13	22 800	117.00	104000	0.85	894	**2KJ4515 - ■ LM21 - ■ ■ R1**	
	14	20 400	104.56	104000	0.95	894	**2KJ4515 - ■ LM21 - ■ ■ Q1**	
	15	18 400	94.55	104000	1.1	894	**2KJ4515 - ■ LM21 - ■ ■ P1**	
	18	16 300	83.44	104000	1.2	894	**2KJ4515 - ■ LM21 - ■ ■ N1**	
	20	14 500	74.35	104000	1.3	894	**2KJ4515 - ■ LM21 - ■ ■ M1**	
	22	13 100	67.36	104000	1.5	894	**2KJ4515 - ■ LM21 - ■ ■ L1**	
	24	11 800	60.58	104000	1.6	894	**2KJ4515 - ■ LM21 - ■ ■ K1**	
	29	9 840	50.34	104000	2.0	894	**2KJ4515 - ■ LM21 - ■ ■ J1**	
	33	8 750	44.76	104000	2.2	894	**2KJ4515 - ■ LM21 - ■ ■ H1**	
37	**K.129-LHN225S4**							
	68	5 170	21.68	19400	0.82	412	**2KJ4512 - ■ ME21 - ■ ■ K1**	
	78	4 530	19.00	20100	0.91	412	**2KJ4512 - ■ ME21 - ■ ■ J1**	
	89	3 950	16.56	20700	1.0	412	**2KJ4512 - ■ ME21 - ■ ■ H1**	
	98	3 600	15.11	21000	1.1	412	**2KJ4512 - ■ ME21 - ■ ■ G1**	
	114	3 100	13.01	21200	1.2	412	**2KJ4512 - ■ ME21 - ■ ■ F1**	
	125	2 810	11.80	21200	1.0	412	**2KJ4512 - ■ ME21 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
37	**K.129-LHN225S4**							
	143	2 460	10.34	21200	1.2	412	**2KJ4512 - ■ ME21 - ■ ■ D1**	
	164	2 150	9.01	21100	1.3	412	**2KJ4512 - ■ ME21 - ■ ■ C1**	
	180	1 960	8.22	21000	1.4	412	**2KJ4512 - ■ ME21 - ■ ■ B1**	
	209	1 690	7.08	20700	1.5	412	**2KJ4512 - ■ ME21 - ■ ■ A1**	
	K.149-LHN225S4							
	42	8 450	35.40	33100	0.93	492	**2KJ4513 - ■ ME21 - ■ ■ Q1**	
	46	7 710	32.33	33700	1.0	492	**2KJ4513 - ■ ME21 - ■ ■ P1**	
	52	6 840	28.66	34100	1.1	492	**2KJ4513 - ■ ME21 - ■ ■ N1**	
	58	6 040	25.30	34400	1.2	492	**2KJ4513 - ■ ME21 - ■ ■ M1**	
	67	5 310	22.25	34500	1.4	492	**2KJ4513 - ■ ME21 - ■ ■ L1**	
	73	4 810	20.15	34500	1.5	492	**2KJ4513 - ■ ME21 - ■ ■ K1**	
	84	4 180	17.54	34300	1.6	492	**2KJ4513 - ■ ME21 - ■ ■ J1**	
	103	3 430	14.38	33700	1.9	492	**2KJ4513 - ■ ME21 - ■ ■ H1**	
	105	3 370	14.15	33200	1.2	492	**2KJ4513 - ■ ME21 - ■ ■ G1**	
	119	2 970	12.44	32700	1.4	492	**2KJ4513 - ■ ME21 - ■ ■ F1**	
	131	2 680	11.26	32300	1.5	492	**2KJ4513 - ■ ME21 - ■ ■ E1**	
	151	2 340	9.81	31700	1.6	492	**2KJ4513 - ■ ME21 - ■ ■ D1**	
	184	1 920	8.04	30700	1.9	492	**2KJ4513 - ■ ME21 - ■ ■ C1**	
	217	1 620	6.82	29800	2.2	492	**2KJ4513 - ■ ME21 - ■ ■ B1**	
	K.169-LHN225S4							
	22	16 100	67.61	59200	0.81	656	**2KJ4514 - ■ ME21 - ■ ■ S1**	
	24	14 800	62.07	59700	0.88	656	**2KJ4514 - ■ ME21 - ■ ■ R1**	
	27	13 000	54.68	60400	1.0	656	**2KJ4514 - ■ ME21 - ■ ■ Q1**	
	33	10 700	44.86	60500	1.2	656	**2KJ4514 - ■ ME21 - ■ ■ P1**	
	38	9 390	39.33	60300	1.4	656	**2KJ4514 - ■ ME21 - ■ ■ N1**	
	48	7 340	30.75	59200	1.8	656	**2KJ4514 - ■ ME21 - ■ ■ M1**	
	50	7 020	29.43	58900	1.9	656	**2KJ4514 - ■ ME21 - ■ ■ L1**	
	55	6 450	27.02	58400	2.0	656	**2KJ4514 - ■ ME21 - ■ ■ K1**	
	62	5 680	23.80	57400	2.3	656	**2KJ4514 - ■ ME21 - ■ ■ J1**	
	76	4 660	19.53	55700	2.7	656	**2KJ4514 - ■ ME21 - ■ ■ H1**	
	86	4 080	17.12	54500	3.0	656	**2KJ4514 - ■ ME21 - ■ ■ G1**	
	121	2 910	12.20	49400	2.3	656	**2KJ4514 - ■ ME21 - ■ ■ E1**	
	148	2 390	10.01	47600	2.7	656	**2KJ4514 - ■ ME21 - ■ ■ D1**	
	169	2 090	8.78	46400	3.0	656	**2KJ4514 - ■ ME21 - ■ ■ C1**	
	216	1 630	6.86	43900	3.7	656	**2KJ4514 - ■ ME21 - ■ ■ B1**	
	K.189-LHN225S4							
	16	22 500	94.55	104000	0.86	881	**2KJ4515 - ■ ME21 - ■ ■ P1**	
	18	19 900	83.44	104000	0.98	881	**2KJ4515 - ■ ME21 - ■ ■ N1**	
	20	17 700	74.35	104000	1.1	881	**2KJ4515 - ■ ME21 - ■ ■ M1**	
	22	16 000	67.36	104000	1.2	881	**2KJ4515 - ■ ME21 - ■ ■ L1**	
	24	14 400	60.58	104000	1.3	881	**2KJ4515 - ■ ME21 - ■ ■ K1**	
	29	12 000	50.34	104000	1.6	881	**2KJ4515 - ■ ME21 - ■ ■ J1**	
	33	10 600	44.76	104000	1.8	881	**2KJ4515 - ■ ME21 - ■ ■ H1**	
	41	8 510	35.67	104000	2.3	881	**2KJ4515 - ■ ME21 - ■ ■ G1**	
	52	6 770	28.39	104000	2.9	881	**2KJ4515 - ■ ME21 - ■ ■ F1**	
	K.129-LHN225S4E							
	68	5 170	21.68	35800	0.82	412	**2KJ4512 - ■ ME22 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
37	**K.129-LHN225S4E**							
	78	4 530	19.00	35800	0.91	412	**2KJ4512 - ■ ME22 - ■ ■ J1**	
	89	3 950	16.56	35800	1.0	412	**2KJ4512 - ■ ME22 - ■ ■ H1**	
	98	3 600	15.11	35900	1.1	412	**2KJ4512 - ■ ME22 - ■ ■ G1**	
	114	3 100	13.01	35900	1.2	412	**2KJ4512 - ■ ME22 - ■ ■ F1**	
	125	2 810	11.80	35900	1.0	412	**2KJ4512 - ■ ME22 - ■ ■ E1**	
	143	2 460	10.34	35900	1.2	412	**2KJ4512 - ■ ME22 - ■ ■ D1**	
	164	2 150	9.01	35000	1.3	412	**2KJ4512 - ■ ME22 - ■ ■ C1**	
	180	1 960	8.22	34000	1.4	412	**2KJ4512 - ■ ME22 - ■ ■ B1**	
	209	1 690	7.08	32500	1.5	412	**2KJ4512 - ■ ME22 - ■ ■ A1**	
	K.149-LHN225S4E							
	42	8 450	35.40	62600	0.93	492	**2KJ4513 - ■ ME22 - ■ ■ Q1**	
	46	7 710	32.33	62600	1.0	492	**2KJ4513 - ■ ME22 - ■ ■ P1**	
	52	6 840	28.66	62600	1.1	492	**2KJ4513 - ■ ME22 - ■ ■ N1**	
	58	6 040	25.30	62600	1.2	492	**2KJ4513 - ■ ME22 - ■ ■ M1**	
	67	5 310	22.25	60500	1.4	492	**2KJ4513 - ■ ME22 - ■ ■ L1**	
	73	4 810	20.15	58800	1.5	492	**2KJ4513 - ■ ME22 - ■ ■ K1**	
	84	4 180	17.54	56400	1.6	492	**2KJ4513 - ■ ME22 - ■ ■ J1**	
	103	3 430	14.38	53200	1.9	492	**2KJ4513 - ■ ME22 - ■ ■ H1**	
	105	3 370	14.15	52900	1.2	492	**2KJ4513 - ■ ME22 - ■ ■ G1**	
	119	2 970	12.44	50900	1.4	492	**2KJ4513 - ■ ME22 - ■ ■ F1**	
	131	2 680	11.26	49400	1.5	492	**2KJ4513 - ■ ME22 - ■ ■ E1**	
	151	2 340	9.81	47400	1.6	492	**2KJ4513 - ■ ME22 - ■ ■ D1**	
	184	1 920	8.04	44700	1.9	492	**2KJ4513 - ■ ME22 - ■ ■ C1**	
	217	1 620	6.82	42500	2.2	492	**2KJ4513 - ■ ME22 - ■ ■ B1**	
	K.169-LHN225S4E							
	22	16 100	67.61	70000	0.81	656	**2KJ4514 - ■ ME22 - ■ ■ S1**	
	24	14 800	62.07	70000	0.88	656	**2KJ4514 - ■ ME22 - ■ ■ R1**	
	27	13 000	54.68	70000	1.0	656	**2KJ4514 - ■ ME22 - ■ ■ Q1**	
	33	10 700	44.86	70000	1.2	656	**2KJ4514 - ■ ME22 - ■ ■ P1**	
	38	9 390	39.33	70000	1.4	656	**2KJ4514 - ■ ME22 - ■ ■ N1**	
	48	7 340	30.75	70000	1.8	656	**2KJ4514 - ■ ME22 - ■ ■ M1**	
	50	7 020	29.43	70000	1.9	656	**2KJ4514 - ■ ME22 - ■ ■ L1**	
	55	6 450	27.02	70000	2.0	656	**2KJ4514 - ■ ME22 - ■ ■ K1**	
	62	5 680	23.80	70000	2.3	656	**2KJ4514 - ■ ME22 - ■ ■ J1**	
	76	4 660	19.53	70000	2.7	656	**2KJ4514 - ■ ME22 - ■ ■ H1**	
	86	4 080	17.12	70000	3.0	656	**2KJ4514 - ■ ME22 - ■ ■ G1**	
	121	2 910	12.20	70000	2.3	656	**2KJ4514 - ■ ME22 - ■ ■ E1**	
	148	2 390	10.01	66900	2.7	656	**2KJ4514 - ■ ME22 - ■ ■ D1**	
	169	2 090	8.78	64400	3.0	656	**2KJ4514 - ■ ME22 - ■ ■ C1**	
	216	1 630	6.86	59800	3.7	656	**2KJ4514 - ■ ME22 - ■ ■ B1**	
	K.189-LHN225S4E							
	16	22 500	94.55	104000	0.86	881	**2KJ4515 - ■ ME22 - ■ ■ P1**	
	18	19 900	83.44	104000	0.98	881	**2KJ4515 - ■ ME22 - ■ ■ N1**	
	20	17 700	74.35	104000	1.1	881	**2KJ4515 - ■ ME22 - ■ ■ M1**	
	22	16 000	67.36	104000	1.2	881	**2KJ4515 - ■ ME22 - ■ ■ L1**	
	24	14 400	60.58	104000	1.3	881	**2KJ4515 - ■ ME22 - ■ ■ K1**	
	29	12 000	50.34	104000	1.6	881	**2KJ4515 - ■ ME22 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
37	**K.189-LHN225S4E**							
	33	10 600	44.76	104000	1.8	881	**2KJ4515 - ■ ME22 - ■ ■ H1**	
	41	8 510	35.67	104000	2.3	881	**2KJ4515 - ■ ME22 - ■ ■ G1**	
	52	6 770	28.39	104000	2.9	881	**2KJ4515 - ■ ME22 - ■ ■ F1**	
45	**K.129-LHN225M4**							
	89	4 800	16.56	17800	0.84	470	**2KJ4512 - ■ MP21 - ■ ■ H1**	
	98	4 380	15.11	18300	0.9	470	**2KJ4512 - ■ MP21 - ■ ■ G1**	
	114	3 770	13.01	18900	1.0	470	**2KJ4512 - ■ MP21 - ■ ■ F1**	
	125	3 420	11.80	19200	0.83	470	**2KJ4512 - ■ MP21 - ■ ■ E1**	
	143	3 000	10.34	19400	0.95	470	**2KJ4512 - ■ MP21 - ■ ■ D1**	
	164	2 610	9.01	19500	1.1	470	**2KJ4512 - ■ MP21 - ■ ■ C1**	
	180	2 380	8.22	19500	1.1	470	**2KJ4512 - ■ MP21 - ■ ■ B1**	
	209	2 050	7.08	19500	1.2	470	**2KJ4512 - ■ MP21 - ■ ■ A1**	
	K.149-LHN225M4							
	46	9 380	32.33	29000	0.83	553	**2KJ4513 - ■ MP21 - ■ ■ P1**	
	52	8 320	28.66	30000	0.92	553	**2KJ4513 - ■ MP21 - ■ ■ N1**	
	58	7 340	25.30	30800	1.0	553	**2KJ4513 - ■ MP21 - ■ ■ M1**	
	67	6 460	22.25	31300	1.1	553	**2KJ4513 - ■ MP21 - ■ ■ L1**	
	73	5 850	20.15	31600	1.2	553	**2KJ4513 - ■ MP21 - ■ ■ K1**	
	84	5 090	17.54	31700	1.4	553	**2KJ4513 - ■ MP21 - ■ ■ J1**	
	103	4 170	14.38	31600	1.6	553	**2KJ4513 - ■ MP21 - ■ ■ H1**	
	105	4 100	14.15	31000	1.0	553	**2KJ4513 - ■ MP21 - ■ ■ G1**	
	119	3 610	12.44	30800	1.1	553	**2KJ4513 - ■ MP21 - ■ ■ F1**	
	131	3 270	11.26	30600	1.2	553	**2KJ4513 - ■ MP21 - ■ ■ E1**	
	151	2 840	9.81	30200	1.4	553	**2KJ4513 - ■ MP21 - ■ ■ D1**	
	184	2 330	8.04	29500	1.6	553	**2KJ4513 - ■ MP21 - ■ ■ C1**	
	217	1 980	6.82	28800	1.8	553	**2KJ4513 - ■ MP21 - ■ ■ B1**	
	K.169-LHN225M4							
	27	15 800	54.68	53900	0.82	725	**2KJ4514 - ■ MP21 - ■ ■ Q1**	
	33	13 000	44.86	55200	1.0	725	**2KJ4514 - ■ MP21 - ■ ■ P1**	
	38	11 400	39.33	55600	1.1	725	**2KJ4514 - ■ MP21 - ■ ■ N1**	
	48	8 920	30.75	55500	1.5	725	**2KJ4514 - ■ MP21 - ■ ■ M1**	
	50	8 540	29.43	55400	1.5	725	**2KJ4514 - ■ MP21 - ■ ■ L1**	
	55	7 840	27.02	55100	1.7	725	**2KJ4514 - ■ MP21 - ■ ■ K1**	
	62	6 910	23.80	54500	1.9	725	**2KJ4514 - ■ MP21 - ■ ■ J1**	
	76	5 670	19.53	53400	2.2	725	**2KJ4514 - ■ MP21 - ■ ■ H1**	
	86	4 970	17.12	52400	2.5	725	**2KJ4514 - ■ MP21 - ■ ■ G1**	
	111	3 880	13.39	50400	3.1	725	**2KJ4514 - ■ MP21 - ■ ■ F1**	
	121	3 540	12.20	47600	1.9	725	**2KJ4514 - ■ MP21 - ■ ■ E1**	
	148	2 900	10.01	46100	2.2	725	**2KJ4514 - ■ MP21 - ■ ■ D1**	
	169	2 540	8.78	45100	2.5	725	**2KJ4514 - ■ MP21 - ■ ■ C1**	
	216	1 990	6.86	42900	3.1	725	**2KJ4514 - ■ MP21 - ■ ■ B1**	
	K.189-LHN225M4							
	18	24 200	83.44	104000	0.8	952	**2KJ4515 - ■ MP21 - ■ ■ N1**	
	20	21 500	74.35	104000	0.9	952	**2KJ4515 - ■ MP21 - ■ ■ M1**	
	22	19 500	67.36	104000	1.0	952	**2KJ4515 - ■ MP21 - ■ ■ L1**	
	24	17 500	60.58	104000	1.1	952	**2KJ4515 - ■ MP21 - ■ ■ K1**	
	29	14 600	50.34	104000	1.3	952	**2KJ4515 - ■ MP21 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
45	**K.189-LHN225M4**							
	33	12 900	44.76	104000	1.5	952	**2KJ4515 - ■ MP21 - ■ ■ H1**	
	41	10 300	35.67	104000	1.9	952	**2KJ4515 - ■ MP21 - ■ ■ G1**	
	52	8 240	28.39	103900	2.4	952	**2KJ4515 - ■ MP21 - ■ ■ F1**	
	58	7 360	25.37	101700	2.6	952	**2KJ4515 - ■ MP21 - ■ ■ E1**	
	K.129-LHN225M4E							
	89	4 800	16.56	35800	0.84	470	**2KJ4512 - ■ MP22 - ■ ■ H1**	
	98	4 380	15.11	35900	0.9	470	**2KJ4512 - ■ MP22 - ■ ■ G1**	
	114	3 770	13.01	35900	1.0	470	**2KJ4512 - ■ MP22 - ■ ■ F1**	
	125	3 420	11.80	35900	0.83	470	**2KJ4512 - ■ MP22 - ■ ■ E1**	
	143	3 000	10.34	35900	0.95	470	**2KJ4512 - ■ MP22 - ■ ■ D1**	
	164	2 610	9.01	35000	1.1	470	**2KJ4512 - ■ MP22 - ■ ■ C1**	
	180	2 380	8.22	34000	1.1	470	**2KJ4512 - ■ MP22 - ■ ■ B1**	
	209	2 050	7.08	32500	1.2	470	**2KJ4512 - ■ MP22 - ■ ■ A1**	
	K.149-LHN225M4E							
	46	9 380	32.33	62600	0.83	553	**2KJ4513 - ■ MP22 - ■ ■ P1**	
	52	8 320	28.66	62600	0.92	553	**2KJ4513 - ■ MP22 - ■ ■ N1**	
	58	7 340	25.30	62600	1.0	553	**2KJ4513 - ■ MP22 - ■ ■ M1**	
	67	6 460	22.25	60500	1.1	553	**2KJ4513 - ■ MP22 - ■ ■ L1**	
	73	5 850	20.15	58800	1.2	553	**2KJ4513 - ■ MP22 - ■ ■ K1**	
	84	5 090	17.54	56400	1.4	553	**2KJ4513 - ■ MP22 - ■ ■ J1**	
	103	4 170	14.38	53200	1.6	553	**2KJ4513 - ■ MP22 - ■ ■ H1**	
	105	4 100	14.15	52900	1.0	553	**2KJ4513 - ■ MP22 - ■ ■ G1**	
	119	3 610	12.44	50900	1.1	553	**2KJ4513 - ■ MP22 - ■ ■ F1**	
	131	3 270	11.26	49400	1.2	553	**2KJ4513 - ■ MP22 - ■ ■ E1**	
	151	2 840	9.81	47400	1.4	553	**2KJ4513 - ■ MP22 - ■ ■ D1**	
	184	2 330	8.04	44700	1.6	553	**2KJ4513 - ■ MP22 - ■ ■ C1**	
	217	1 980	6.82	42500	1.8	553	**2KJ4513 - ■ MP22 - ■ ■ B1**	
	K.169-LHN225M4E							
	27	15 800	54.68	70000	0.82	725	**2KJ4514 - ■ MP22 - ■ ■ Q1**	
	33	13 000	44.86	70000	1.0	725	**2KJ4514 - ■ MP22 - ■ ■ P1**	
	38	11 400	39.33	70000	1.1	725	**2KJ4514 - ■ MP22 - ■ ■ N1**	
	48	8 920	30.75	70000	1.5	725	**2KJ4514 - ■ MP22 - ■ ■ M1**	
	50	8 540	29.43	70000	1.5	725	**2KJ4514 - ■ MP22 - ■ ■ L1**	
	55	7 840	27.02	70000	1.7	725	**2KJ4514 - ■ MP22 - ■ ■ K1**	
	62	6 910	23.80	70000	1.9	725	**2KJ4514 - ■ MP22 - ■ ■ J1**	
	76	5 670	19.53	70000	2.2	725	**2KJ4514 - ■ MP22 - ■ ■ H1**	
	86	4 970	17.12	70000	2.5	725	**2KJ4514 - ■ MP22 - ■ ■ G1**	
	111	3 880	13.39	70000	3.1	725	**2KJ4514 - ■ MP22 - ■ ■ F1**	
	121	3 540	12.20	70000	1.9	725	**2KJ4514 - ■ MP22 - ■ ■ E1**	
	148	2 900	10.01	66900	2.2	725	**2KJ4514 - ■ MP22 - ■ ■ D1**	
	169	2 540	8.78	64400	2.5	725	**2KJ4514 - ■ MP22 - ■ ■ C1**	
	216	1 990	6.86	59800	3.1	725	**2KJ4514 - ■ MP22 - ■ ■ B1**	
	K.189-LHN225M4E							
	18	24 200	83.44	104000	0.8	952	**2KJ4515 - ■ MP22 - ■ ■ N1**	
	20	21 500	74.35	104000	0.9	952	**2KJ4515 - ■ MP22 - ■ ■ M1**	
	22	19 500	67.36	104000	1.0	952	**2KJ4515 - ■ MP22 - ■ ■ L1**	
	24	17 500	60.58	104000	1.1	952	**2KJ4515 - ■ MP22 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
45	**K.189-LHN225M4E**							
	29	14 600	50.34	104000	1.3	952	**2KJ4515 - ■ MP22 - ■ ■ J1**	
	33	12 900	44.76	104000	1.5	952	**2KJ4515 - ■ MP22 - ■ ■ H1**	
	41	10 300	35.67	104000	1.9	952	**2KJ4515 - ■ MP22 - ■ ■ G1**	
	52	8 240	28.39	104000	2.4	952	**2KJ4515 - ■ MP22 - ■ ■ F1**	
	58	7 360	25.37	104000	2.6	952	**2KJ4515 - ■ MP22 - ■ ■ E1**	
55	**K.149-LHN250M4**							
	58	9 000	25.30	26200	0.82	592	**2KJ4513 - ■ NL21 - ■ ■ M1**	
	66	7 920	22.25	27300	0.91	592	**2KJ4513 - ■ NL21 - ■ ■ L1**	
	73	7 170	20.15	27900	0.99	592	**2KJ4513 - ■ NL21 - ■ ■ K1**	
	84	6 240	17.54	28600	1.1	592	**2KJ4513 - ■ NL21 - ■ ■ J1**	
	103	5 120	14.38	29000	1.3	592	**2KJ4513 - ■ NL21 - ■ ■ H1**	
	104	5 030	14.15	28300	0.82	592	**2KJ4513 - ■ NL21 - ■ ■ G1**	
	119	4 430	12.44	28500	0.91	592	**2KJ4513 - ■ NL21 - ■ ■ F1**	
	131	4 010	11.26	28500	0.99	592	**2KJ4513 - ■ NL21 - ■ ■ E1**	
	150	3 490	9.81	28400	1.1	592	**2KJ4513 - ■ NL21 - ■ ■ D1**	
	183	2 860	8.04	28000	1.3	592	**2KJ4513 - ■ NL21 - ■ ■ C1**	
	216	2 420	6.82	27500	1.5	592	**2KJ4513 - ■ NL21 - ■ ■ B1**	
	K.169-LHN250M4							
	33	15 900	44.86	48500	0.81	756	**2KJ4514 - ■ NL21 - ■ ■ P1**	
	38	14 000	39.33	49600	0.93	756	**2KJ4514 - ■ NL21 - ■ ■ N1**	
	48	10 900	30.75	51000	1.2	756	**2KJ4514 - ■ NL21 - ■ ■ M1**	
	50	10 400	29.43	51200	1.2	756	**2KJ4514 - ■ NL21 - ■ ■ L1**	
	55	9 620	27.02	51100	1.4	756	**2KJ4514 - ■ NL21 - ■ ■ K1**	
	62	8 470	23.80	51000	1.5	756	**2KJ4514 - ■ NL21 - ■ ■ J1**	
	76	6 950	19.53	50400	1.8	756	**2KJ4514 - ■ NL21 - ■ ■ H1**	
	86	6 090	17.12	49900	2.0	756	**2KJ4514 - ■ NL21 - ■ ■ G1**	
	110	4 760	13.39	48400	2.5	756	**2KJ4514 - ■ NL21 - ■ ■ F1**	
	121	4 340	12.20	45400	1.6	756	**2KJ4514 - ■ NL21 - ■ ■ E1**	
	147	3 560	10.01	44300	1.8	756	**2KJ4514 - ■ NL21 - ■ ■ D1**	
	168	3 120	8.78	43500	2.0	756	**2KJ4514 - ■ NL21 - ■ ■ C1**	
	215	2 440	6.86	41700	2.5	756	**2KJ4514 - ■ NL21 - ■ ■ B1**	
	K.189-LHN250M4							
	22	23 900	67.36	104000	0.81	981	**2KJ4515 - ■ NL21 - ■ ■ L1**	
	24	21 500	60.58	104000	0.9	981	**2KJ4515 - ■ NL21 - ■ ■ K1**	
	29	17 900	50.34	104000	1.1	981	**2KJ4515 - ■ NL21 - ■ ■ J1**	
	33	15 900	44.76	104000	1.2	981	**2KJ4515 - ■ NL21 - ■ ■ H1**	
	41	12 700	35.67	103400	1.5	981	**2KJ4515 - ■ NL21 - ■ ■ G1**	
	52	10 100	28.39	100200	1.9	981	**2KJ4515 - ■ NL21 - ■ ■ F1**	
	58	9 030	25.37	98400	2.2	981	**2KJ4515 - ■ NL21 - ■ ■ E1**	
	70	7 510	21.09	95200	2.6	981	**2KJ4515 - ■ NL21 - ■ ■ D1**	
	79	6 670	18.75	93100	2.9	981	**2KJ4515 - ■ NL21 - ■ ■ C1**	
	K.149-LHN250M4E							
	58	8 970	25.30	62600	0.83	602	**2KJ4513 - ■ NL22 - ■ ■ M1**	
	67	7 890	22.25	60500	0.91	602	**2KJ4513 - ■ NL22 - ■ ■ L1**	
	73	7 150	20.15	58800	0.99	602	**2KJ4513 - ■ NL22 - ■ ■ K1**	
	84	6 220	17.54	56400	1.1	602	**2KJ4513 - ■ NL22 - ■ ■ J1**	
	103	5 100	14.38	53200	1.3	602	**2KJ4513 - ■ NL22 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
55	**K.149-LHN250M4E**							
	105	5 020	14.15	52900	0.82	602	**2KJ4513 - ■ NL22 - ■ ■ G1**	
	119	4 410	12.44	50900	0.91	602	**2KJ4513 - ■ NL22 - ■ ■ F1**	
	131	3 990	11.26	49400	0.99	602	**2KJ4513 - ■ NL22 - ■ ■ E1**	
	151	3 480	9.81	47400	1.1	602	**2KJ4513 - ■ NL22 - ■ ■ D1**	
	184	2 850	8.04	44700	1.3	602	**2KJ4513 - ■ NL22 - ■ ■ C1**	
	217	2 420	6.82	42500	1.5	602	**2KJ4513 - ■ NL22 - ■ ■ B1**	
	K.169-LHN250M4E							
	33	15 900	44.86	70000	0.82	766	**2KJ4514 - ■ NL22 - ■ ■ P1**	
	38	13 900	39.33	70000	0.93	766	**2KJ4514 - ■ NL22 - ■ ■ N1**	
	48	10 900	30.75	70000	1.2	766	**2KJ4514 - ■ NL22 - ■ ■ M1**	
	50	10 400	29.43	70000	1.2	766	**2KJ4514 - ■ NL22 - ■ ■ L1**	
	55	9 580	27.02	70000	1.4	766	**2KJ4514 - ■ NL22 - ■ ■ K1**	
	62	8 440	23.80	70000	1.5	766	**2KJ4514 - ■ NL22 - ■ ■ J1**	
	76	6 930	19.53	70000	1.8	766	**2KJ4514 - ■ NL22 - ■ ■ H1**	
	86	6 070	17.12	70000	2.0	766	**2KJ4514 - ■ NL22 - ■ ■ G1**	
	111	4 750	13.39	70000	2.5	766	**2KJ4514 - ■ NL22 - ■ ■ F1**	
	121	4 330	12.20	70000	1.6	766	**2KJ4514 - ■ NL22 - ■ ■ E1**	
	148	3 550	10.01	66900	1.8	766	**2KJ4514 - ■ NL22 - ■ ■ D1**	
	169	3 110	8.78	64400	2.0	766	**2KJ4514 - ■ NL22 - ■ ■ C1**	
	216	2 430	6.86	59800	2.5	766	**2KJ4514 - ■ NL22 - ■ ■ B1**	
	K.189-LHN250M4E							
	22	23 900	67.36	104000	0.82	991	**2KJ4515 - ■ NL22 - ■ ■ L1**	
	24	21 500	60.58	104000	0.91	991	**2KJ4515 - ■ NL22 - ■ ■ K1**	
	29	17 800	50.34	104000	1.1	991	**2KJ4515 - ■ NL22 - ■ ■ J1**	
	33	15 800	44.76	104000	1.2	991	**2KJ4515 - ■ NL22 - ■ ■ H1**	
	41	12 600	35.67	104000	1.5	991	**2KJ4515 - ■ NL22 - ■ ■ G1**	
	52	10 000	28.39	104000	1.9	991	**2KJ4515 - ■ NL22 - ■ ■ F1**	
	58	9 000	25.37	104000	2.2	991	**2KJ4515 - ■ NL22 - ■ ■ E1**	
	70	7 480	21.09	104000	2.6	991	**2KJ4515 - ■ NL22 - ■ ■ D1**	
	79	6 650	18.75	104000	2.9	991	**2KJ4515 - ■ NL22 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**B.19-LEN80MD4E**							
	90	58	15.79	1900	0.86	21	**2KJ4500 - ■ DC32 - ■ ■ Q1**	
	98	54	14.57	1900	0.93	21	**2KJ4500 - ■ DC32 - ■ ■ P1**	
	113	47	12.66	1900	1.1	21	**2KJ4500 - ■ DC32 - ■ ■ N1**	
	130	40	11.00	1900	1.2	21	**2KJ4500 - ■ DC32 - ■ ■ M1**	
	144	37	9.93	1900	1.4	21	**2KJ4500 - ■ DC32 - ■ ■ L1**	
	152	34	9.35	1900	1.5	21	**2KJ4500 - ■ DC32 - ■ ■ K1**	
	175	30	8.15	1900	1.6	21	**2KJ4500 - ■ DC32 - ■ ■ J1**	
	181	29	7.87	1900	1.3	21	**2KJ4500 - ■ DC32 - ■ ■ H1**	
	204	26	6.99	1900	1.5	21	**2KJ4500 - ■ DC32 - ■ ■ G1**	
	221	24	6.45	1900	1.6	21	**2KJ4500 - ■ DC32 - ■ ■ F1**	
	254	21	5.61	1900	1.8	21	**2KJ4500 - ■ DC32 - ■ ■ E1**	
	293	18	4.87	1900	1.9	21	**2KJ4500 - ■ DC32 - ■ ■ D1**	
	324	16	4.40	1900	2.1	21	**2KJ4500 - ■ DC32 - ■ ■ C1**	
	344	15	4.14	1900	2.2	21	**2KJ4500 - ■ DC32 - ■ ■ B1**	
	395	13	3.61	1800	2.3	21	**2KJ4500 - ■ DC32 - ■ ■ A1**	
	B.29-LEN80MD4E							
	40	133	36.06	4000	0.83	23	**2KJ4501 - ■ DC32 - ■ ■ X1**	
	43	121	32.78	4000	0.91	23	**2KJ4501 - ■ DC32 - ■ ■ W1**	
	51	104	28.11	4100	1.1	23	**2KJ4501 - ■ DC32 - ■ ■ V1**	
	56	94	25.56	4200	1.2	23	**2KJ4501 - ■ DC32 - ■ ■ U1**	
	64	83	22.41	4200	1.3	23	**2KJ4501 - ■ DC32 - ■ ■ T1**	
	71	74	20.00	4200	1.5	23	**2KJ4501 - ■ DC32 - ■ ■ S1**	
	80	66	17.82	4200	1.7	23	**2KJ4501 - ■ DC32 - ■ ■ R1**	
	87	61	16.45	4200	1.8	23	**2KJ4501 - ■ DC32 - ■ ■ Q1**	
	99	53	14.40	4200	2.1	23	**2KJ4501 - ■ DC32 - ■ ■ P1**	
	113	47	12.63	4000	2.4	23	**2KJ4501 - ■ DC32 - ■ ■ N1**	
	124	42	11.46	3900	2.6	23	**2KJ4501 - ■ DC32 - ■ ■ M1**	
	132	40	10.78	3900	2.8	23	**2KJ4501 - ■ DC32 - ■ ■ L1**	
	150	35	9.51	3700	3.1	23	**2KJ4501 - ■ DC32 - ■ ■ K1**	
	173	30	8.25	3600	3.6	23	**2KJ4501 - ■ DC32 - ■ ■ J1**	
	182	29	7.84	3500	2.6	23	**2KJ4501 - ■ DC32 - ■ ■ H1**	
	193	27	7.38	3400	2.8	23	**2KJ4501 - ■ DC32 - ■ ■ G1**	
	219	24	6.51	3300	3.1	23	**2KJ4501 - ■ DC32 - ■ ■ F1**	
	252	21	5.65	3200	3.6	23	**2KJ4501 - ■ DC32 - ■ ■ E1**	
	281	19	5.07	3100	4.0	23	**2KJ4501 - ■ DC32 - ■ ■ D1**	
	298	18	4.78	3100	4.2	23	**2KJ4501 - ■ DC32 - ■ ■ C1**	
	338	16	4.21	2900	4.8	23	**2KJ4501 - ■ DC32 - ■ ■ B1**	
	390	14	3.65	2800	5.4	23	**2KJ4501 - ■ DC32 - ■ ■ A1**	
	B.39-LEN80MD4E							
	28	185	50.11	6900	1.1	28	**2KJ4502 - ■ DC32 - ■ ■ X1**	
	32	162	44.00	6900	1.5	28	**2KJ4502 - ■ DC32 - ■ ■ W1**	
	36	147	40.00	6900	1.6	28	**2KJ4502 - ■ DC32 - ■ ■ V1**	
	42	126	34.22	6900	2.0	28	**2KJ4502 - ■ DC32 - ■ ■ U1**	
	46	115	31.11	6900	2.2	28	**2KJ4502 - ■ DC32 - ■ ■ T1**	
	52	101	27.50	6900	2.5	28	**2KJ4502 - ■ DC32 - ■ ■ S1**	
	57	92	25.00	6900	2.7	28	**2KJ4502 - ■ DC32 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**K.39-LEN80MD4E**							
	21	245	67.16	5900	0.89	28	**2KJ4504 - ■ DC32 - ■ ■ B2**	
	24	220	59.85	6000	1.0	28	**2KJ4504 - ■ DC32 - ■ ■ A2**	
	26	200	55.25	6100	1.1	28	**2KJ4504 - ■ DC32 - ■ ■ X1**	
	29	178	48.37	6200	1.2	28	**2KJ4504 - ■ DC32 - ■ ■ W1**	
	34	156	42.41	6300	1.4	28	**2KJ4504 - ■ DC32 - ■ ■ V1**	
	37	142	38.48	6200	1.6	28	**2KJ4504 - ■ DC32 - ■ ■ U1**	
	39	133	36.21	6200	1.6	28	**2KJ4504 - ■ DC32 - ■ ■ T1**	
	45	118	31.92	6000	1.9	28	**2KJ4504 - ■ DC32 - ■ ■ S1**	
	51	102	27.70	5800	2.2	28	**2KJ4504 - ■ DC32 - ■ ■ R1**	
	53	99	26.89	5800	2.2	28	**2KJ4504 - ■ DC32 - ■ ■ Q1**	
	59	88	23.97	5600	2.5	28	**2KJ4504 - ■ DC32 - ■ ■ P1**	
	64	82	22.12	5500	2.7	28	**2KJ4504 - ■ DC32 - ■ ■ N1**	
	74	71	19.37	5300	3.1	28	**2KJ4504 - ■ DC32 - ■ ■ M1**	
	B.49-LEN80MD4E							
	24	215	59.28	11100	2.1	34	**2KJ4503 - ■ DC32 - ■ ■ C2**	
	26	199	53.89	10800	2.3	34	**2KJ4503 - ■ DC32 - ■ ■ B2**	
	B.49-LEN80MK6E							
	15	345	59.28	11400	1.3	35	**2KJ4503 - ■ DF32 - ■ ■ C2**	**P01**
	17	315	53.89	11500	1.4	35	**2KJ4503 - ■ DF32 - ■ ■ B2**	**P01**
	20	265	45.83	11500	1.7	35	**2KJ4503 - ■ DF32 - ■ ■ A2**	**P01**
	21	245	41.67	11400	1.8	35	**2KJ4503 - ■ DF32 - ■ ■ X1**	**P01**
	K.49-LEN80MD4E							
	10	520	142.13	7000	0.8	36	**2KJ4505 - ■ DC32 - ■ ■ F2**	
	12	445	121.60	7600	0.94	36	**2KJ4505 - ■ DC32 - ■ ■ E2**	
	13	405	110.55	7900	1.0	36	**2KJ4505 - ■ DC32 - ■ ■ D2**	
	15	360	97.71	8200	1.2	36	**2KJ4505 - ■ DC32 - ■ ■ C2**	
	16	325	88.83	8100	1.3	36	**2KJ4505 - ■ DC32 - ■ ■ B2**	
	18	285	77.81	8000	1.5	36	**2KJ4505 - ■ DC32 - ■ ■ A2**	
	20	265	71.82	7900	1.6	36	**2KJ4505 - ■ DC32 - ■ ■ X1**	
	22	230	63.59	7700	1.8	36	**2KJ4505 - ■ DC32 - ■ ■ W1**	
	27	195	52.93	7400	2.2	36	**2KJ4505 - ■ DC32 - ■ ■ V1**	
	29	184	49.82	7400	2.3	36	**2KJ4505 - ■ DC32 - ■ ■ U1**	
	K.69-LEN80MD4E							
	7.2	725	196.59	10000	0.83	43	**2KJ4507 - ■ DC32 - ■ ■ H2**	
	8.0	655	178.72	10500	0.91	43	**2KJ4507 - ■ DC32 - ■ ■ G2**	
	9.4	560	152.00	10900	1.1	43	**2KJ4507 - ■ DC32 - ■ ■ F2**	
	10	505	138.18	11000	1.2	43	**2KJ4507 - ■ DC32 - ■ ■ E2**	
	12	450	123.29	11200	1.3	43	**2KJ4507 - ■ DC32 - ■ ■ D2**	
	13	405	110.55	11300	1.5	43	**2KJ4507 - ■ DC32 - ■ ■ C2**	
	14	365	99.64	11400	1.6	43	**2KJ4507 - ■ DC32 - ■ ■ B2**	
	15	335	91.98	11400	1.8	43	**2KJ4507 - ■ DC32 - ■ ■ A2**	
	17	305	83.96	11500	1.9	43	**2KJ4507 - ■ DC32 - ■ ■ X1**	
	20	255	69.67	11600	2.3	43	**2KJ4507 - ■ DC32 - ■ ■ W1**	
	K.79-LEN80MD4E							
	5.8	900	244.25	13800	0.91	48	**2KJ4508 - ■ DC32 - ■ ■ J2**	
	6.4	815	222.05	13900	1.0	48	**2KJ4508 - ■ DC32 - ■ ■ H2**	
	7.5	695	188.85	14200	1.2	48	**2KJ4508 - ■ DC32 - ■ ■ G2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**K.79-LEN80MD4E**							
	8.3	630	171.69	14300	1.3	48	**2KJ4508 - ■ DC32 - ■ ■ F2**	
	9.3	565	153.18	14400	1.5	48	**2KJ4508 - ■ DC32 - ■ ■ E2**	
	10	505	137.35	14400	1.6	48	**2KJ4508 - ■ DC32 - ■ ■ D2**	
	12	420	114.28	14400	1.9	48	**2KJ4508 - ■ DC32 - ■ ■ B2**	
	12	455	123.80	14400	1.8	48	**2KJ4508 - ■ DC32 - ■ ■ C2**	
	14	385	104.32	14400	2.1	48	**2KJ4508 - ■ DC32 - ■ ■ A2**	
	K.79-LEN80MK6E							
	5.2	1 000	171.69	13600	0.81	49	**2KJ4508 - ■ DF32 - ■ ■ F2**	**P01**
	K.89-LEN80MD4E							
	6.1	850	231.80	18100	1.9	69	**2KJ4510 - ■ DC32 - ■ ■ K2**	
	6.8	775	210.72	18100	2.1	69	**2KJ4510 - ■ DC32 - ■ ■ J2**	
	K.89-LEN80MK6E							
	3.9	1 360	231.80	18100	1.2	70	**2KJ4510 - ■ DF32 - ■ ■ K2**	**P01**
	4.2	1 230	210.72	18100	1.3	70	**2KJ4510 - ■ DF32 - ■ ■ J2**	**P01**
	4.7	1 100	189.01	18100	1.4	70	**2KJ4510 - ■ DF32 - ■ ■ H2**	**P01**
	5.3	995	169.94	18100	1.6	70	**2KJ4510 - ■ DF32 - ■ ■ G2**	**P01**
	5.8	900	153.70	18100	1.8	70	**2KJ4510 - ■ DF32 - ■ ■ F2**	**P01**
	K.69-Z19-LEN80MD4E							
	6.6	720	216.25	10000	0.83	45	**2KJ4524 - ■ DC32 - ■ ■ A1**	
	K.79-Z19-LEN80MD4E							
	4.6	1 030	308.19	13500	0.8	50	**2KJ4526 - ■ DC32 - ■ ■ B1**	
	5.3	895	268.68	13800	0.91	50	**2KJ4526 - ■ DC32 - ■ ■ A1**	
	K.89-Z39-LEN80MD4E							
	2.4	1 980	594.00	18100	0.81	75	**2KJ4528 - ■ DC32 - ■ ■ H1**	
	2.8	1 690	506.00	18100	0.95	75	**2KJ4528 - ■ DC32 - ■ ■ G1**	
	3.0	1 590	476.00	18100	1.0	75	**2KJ4528 - ■ DC32 - ■ ■ F1**	
	3.2	1 490	448.00	18100	1.1	75	**2KJ4528 - ■ DC32 - ■ ■ E1**	
	3.6	1 340	401.00	18100	1.2	75	**2KJ4528 - ■ DC32 - ■ ■ D1**	
	4.2	1 140	341.78	18100	1.4	75	**2KJ4528 - ■ DC32 - ■ ■ C1**	
	4.9	980	292.96	18100	1.6	75	**2KJ4528 - ■ DC32 - ■ ■ B1**	
	5.6	840	252.27	18100	1.9	75	**2KJ4528 - ■ DC32 - ■ ■ A1**	
	K.109-Z39-LEN80MD4E							
	1.3	3 610	1 080.00	24500	0.8	111	**2KJ4531 - ■ DC32 - ■ ■ N1**	
	1.5	3 110	930.00	24500	0.93	111	**2KJ4531 - ■ DC32 - ■ ■ M1**	
	1.9	2 560	767.00	24500	1.1	111	**2KJ4531 - ■ DC32 - ■ ■ L1**	
	2.0	2 410	722.00	24500	1.2	111	**2KJ4531 - ■ DC32 - ■ ■ K1**	
	2.2	2 160	647.00	24500	1.3	111	**2KJ4531 - ■ DC32 - ■ ■ J1**	
	2.6	1 840	551.00	24500	1.6	111	**2KJ4531 - ■ DC32 - ■ ■ H1**	
	2.7	1 730	519.00	24500	1.7	111	**2KJ4531 - ■ DC32 - ■ ■ G1**	
	3.3	1 430	428.00	24500	2.0	111	**2KJ4531 - ■ DC32 - ■ ■ F1**	
	K.129-Z39-LEN80MD4E							
	0.94	5 070	1 518.00	36900	0.87	162	**2KJ4533 - ■ DC32 - ■ ■ M1**	
	1.0	4 780	1 429.00	37200	0.92	162	**2KJ4533 - ■ DC32 - ■ ■ L1**	
	1.1	4 280	1 280.00	37700	1.0	162	**2KJ4533 - ■ DC32 - ■ ■ K1**	
	1.3	3 640	1 090.00	38300	1.2	162	**2KJ4533 - ■ DC32 - ■ ■ J1**	
	1.5	3 120	934.00	38800	1.4	162	**2KJ4533 - ■ DC32 - ■ ■ H1**	
	1.8	2 690	804.00	39300	1.6	162	**2KJ4533 - ■ DC32 - ■ ■ G1**	
	2.1	2 220	664.00	39700	2.0	162	**2KJ4533 - ■ DC32 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**K.149-Z49-LEN80MD4E**							
	0.49	9 760	2 917.00	65000	0.82	256	**2KJ4535 - ■ DC32 - ■ ■ W1**	
	0.55	8 700	2 602.00	65000	0.92	256	**2KJ4535 - ■ DC32 - ■ ■ V1**	
	0.61	7 800	2 333.00	65000	1.0	256	**2KJ4535 - ■ DC32 - ■ ■ U1**	
	0.68	7 030	2 103.00	65000	1.1	256	**2KJ4535 - ■ DC32 - ■ ■ T1**	
	0.73	6 490	1 941.00	65000	1.2	256	**2KJ4535 - ■ DC32 - ■ ■ S1**	
	0.8	5 920	1 772.00	65000	1.3	256	**2KJ4535 - ■ DC32 - ■ ■ R1**	
	0.97	4 910	1 470.00	65000	1.6	256	**2KJ4535 - ■ DC32 - ■ ■ Q1**	
	1.0	4 630	1 384.00	65000	1.7	256	**2KJ4535 - ■ DC32 - ■ ■ P1**	
	1.1	4 370	1 307.00	65000	1.8	256	**2KJ4535 - ■ DC32 - ■ ■ N1**	
	K.169-Z49-LEN80MD4E							
	0.29	16 100	4 831.00	70000	0.8	427	**2KJ4537 - ■ DC32 - ■ ■ A2**	
	0.32	14 600	4 391.00	70000	0.88	427	**2KJ4537 - ■ DC32 - ■ ■ X1**	
	0.36	13 100	3 918.00	70000	0.99	427	**2KJ4537 - ■ DC32 - ■ ■ W1**	
	0.41	11 700	3 513.00	70000	1.1	427	**2KJ4537 - ■ DC32 - ■ ■ V1**	
	0.45	10 500	3 167.00	70000	1.2	427	**2KJ4537 - ■ DC32 - ■ ■ U1**	
	0.49	9 780	2 923.00	70000	1.3	427	**2KJ4537 - ■ DC32 - ■ ■ T1**	
	0.53	8 920	2 668.00	70000	1.5	427	**2KJ4537 - ■ DC32 - ■ ■ S1**	
	0.64	7 400	2 214.00	70000	1.8	427	**2KJ4537 - ■ DC32 - ■ ■ R1**	
	0.68	6 970	2 084.00	70000	1.9	427	**2KJ4537 - ■ DC32 - ■ ■ Q1**	
	0.72	6 580	1 968.00	70000	2.0	427	**2KJ4537 - ■ DC32 - ■ ■ P1**	
	K.189-D69-LEN80MD4E							
	0.22	21 500	6 517.00	104000	0.9	669	**2KJ4541 - ■ DC32 - ■ ■ A1**	
	K.189-Z69-LEN80MD4E							
	0.22	21 300	6 375.00	104000	0.91	669	**2KJ4540 - ■ DC32 - ■ ■ C2**	
	0.25	19 300	5 795.00	104000	1.0	669	**2KJ4540 - ■ DC32 - ■ ■ B2**	
	0.29	16 400	4 929.00	104000	1.2	669	**2KJ4540 - ■ DC32 - ■ ■ A2**	
	0.32	14 900	4 481.00	104000	1.3	669	**2KJ4540 - ■ DC32 - ■ ■ X1**	
	0.36	13 300	3 998.00	104000	1.5	669	**2KJ4540 - ■ DC32 - ■ ■ W1**	
	0.4	11 900	3 585.00	104000	1.6	669	**2KJ4540 - ■ DC32 - ■ ■ V1**	
	0.44	10 800	3 231.00	104000	1.8	669	**2KJ4540 - ■ DC32 - ■ ■ U1**	
	0.48	9 980	2 983.00	104000	2.0	669	**2KJ4540 - ■ DC32 - ■ ■ T1**	
0.75	**B.19-LEN80MH4E**							
	131	55	11.00	1900	0.91	23	**2KJ4500 - ■ DE32 - ■ ■ M1**	
	145	49	9.93	1900	1.0	23	**2KJ4500 - ■ DE32 - ■ ■ L1**	
	154	46	9.35	1900	1.1	23	**2KJ4500 - ■ DE32 - ■ ■ K1**	
	177	40	8.15	1900	1.2	23	**2KJ4500 - ■ DE32 - ■ ■ J1**	
	183	39	7.87	1900	0.97	23	**2KJ4500 - ■ DE32 - ■ ■ H1**	
	206	35	6.99	1900	1.1	23	**2KJ4500 - ■ DE32 - ■ ■ G1**	
	223	32	6.45	1900	1.2	23	**2KJ4500 - ■ DE32 - ■ ■ F1**	
	257	28	5.61	1900	1.3	23	**2KJ4500 - ■ DE32 - ■ ■ E1**	
	296	24	4.87	1900	1.4	23	**2KJ4500 - ■ DE32 - ■ ■ D1**	
	327	22	4.40	1800	1.6	23	**2KJ4500 - ■ DE32 - ■ ■ C1**	
	348	21	4.14	1800	1.6	23	**2KJ4500 - ■ DE32 - ■ ■ B1**	
	399	18	3.61	1700	1.7	23	**2KJ4500 - ■ DE32 - ■ ■ A1**	
	B.29-LEN80MH4E							
	56	127	25.56	4000	0.87	24	**2KJ4501 - ■ DE32 - ■ ■ U1**	
	64	111	22.41	4100	0.99	24	**2KJ4501 - ■ DE32 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**B.29-LEN80MH4E**							
	72	100	20.00	4100	1.1	24	**2KJ4501 - ■ DE32 - ■ ■ S1**	
	81	89	17.82	4200	1.2	24	**2KJ4501 - ■ DE32 - ■ ■ R1**	
	88	82	16.45	4100	1.3	24	**2KJ4501 - ■ DE32 - ■ ■ Q1**	
	100	72	14.40	4000	1.5	24	**2KJ4501 - ■ DE32 - ■ ■ P1**	
	114	63	12.63	3900	1.8	24	**2KJ4501 - ■ DE32 - ■ ■ N1**	
	126	57	11.46	3800	1.9	24	**2KJ4501 - ■ DE32 - ■ ■ M1**	
	134	54	10.78	3700	2.1	24	**2KJ4501 - ■ DE32 - ■ ■ L1**	
	151	47	9.51	3600	2.3	24	**2KJ4501 - ■ DE32 - ■ ■ K1**	
	175	41	8.25	3500	2.7	24	**2KJ4501 - ■ DE32 - ■ ■ J1**	
	184	39	7.84	3400	1.9	24	**2KJ4501 - ■ DE32 - ■ ■ H1**	
	195	37	7.38	3300	2.0	24	**2KJ4501 - ■ DE32 - ■ ■ G1**	
	221	32	6.51	3200	2.3	24	**2KJ4501 - ■ DE32 - ■ ■ F1**	
	255	28	5.65	3100	2.7	24	**2KJ4501 - ■ DE32 - ■ ■ E1**	
	284	25	5.07	3000	2.9	24	**2KJ4501 - ■ DE32 - ■ ■ D1**	
	301	24	4.78	3000	3.1	24	**2KJ4501 - ■ DE32 - ■ ■ C1**	
	342	21	4.21	2900	3.5	24	**2KJ4501 - ■ DE32 - ■ ■ B1**	
	395	18	3.65	2800	4.0	24	**2KJ4501 - ■ DE32 - ■ ■ A1**	
	B.39-LEN80MH4E							
	29	245	50.11	6900	0.84	29	**2KJ4502 - ■ DE32 - ■ ■ X1**	
	33	215	44.00	6900	1.1	29	**2KJ4502 - ■ DE32 - ■ ■ W1**	
	36	199	40.00	6900	1.2	29	**2KJ4502 - ■ DE32 - ■ ■ V1**	
	42	170	34.22	6900	1.5	29	**2KJ4502 - ■ DE32 - ■ ■ U1**	
	46	155	31.11	6900	1.6	29	**2KJ4502 - ■ DE32 - ■ ■ T1**	
	52	137	27.50	6900	1.8	29	**2KJ4502 - ■ DE32 - ■ ■ S1**	
	58	124	25.00	6900	2.0	29	**2KJ4502 - ■ DE32 - ■ ■ R1**	
	66	109	21.90	6900	2.3	29	**2KJ4502 - ■ DE32 - ■ ■ Q1**	
	71	101	20.21	6900	2.5	29	**2KJ4502 - ■ DE32 - ■ ■ P1**	
	80	89	17.90	6900	2.8	29	**2KJ4502 - ■ DE32 - ■ ■ N1**	
	97	74	14.90	6900	3.4	29	**2KJ4502 - ■ DE32 - ■ ■ M1**	
	B.39-LEN90SH6E							
	27	260	34.22	6900	0.95	36	**2KJ4502 - ■ EC32 - ■ ■ U1**	**P01**
	K.39-LEN80MH4E							
	26	275	55.25	5800	0.8	30	**2KJ4504 - ■ DE32 - ■ ■ X1**	
	30	240	48.37	5900	0.91	30	**2KJ4504 - ■ DE32 - ■ ■ W1**	
	34	210	42.41	5900	1.0	30	**2KJ4504 - ■ DE32 - ■ ■ V1**	
	37	191	38.48	5800	1.1	30	**2KJ4504 - ■ DE32 - ■ ■ U1**	
	40	180	36.21	5700	1.2	30	**2KJ4504 - ■ DE32 - ■ ■ T1**	
	45	159	31.92	5600	1.4	30	**2KJ4504 - ■ DE32 - ■ ■ S1**	
	52	138	27.70	5500	1.6	30	**2KJ4504 - ■ DE32 - ■ ■ R1**	
	54	134	26.89	5400	1.6	30	**2KJ4504 - ■ DE32 - ■ ■ Q1**	
	60	119	23.97	5300	1.8	30	**2KJ4504 - ■ DE32 - ■ ■ P1**	
	65	110	22.12	5200	2.0	30	**2KJ4504 - ■ DE32 - ■ ■ N1**	
	74	96	19.37	5100	2.3	30	**2KJ4504 - ■ DE32 - ■ ■ M1**	
	85	84	16.98	4900	2.6	30	**2KJ4504 - ■ DE32 - ■ ■ L1**	
	93	77	15.41	4800	2.9	30	**2KJ4504 - ■ DE32 - ■ ■ K1**	
	99	72	14.50	4800	3.1	30	**2KJ4504 - ■ DE32 - ■ ■ J1**	
	113	64	12.78	4600	3.5	30	**2KJ4504 - ■ DE32 - ■ ■ H1**	
	143	50	10.04	4300	3.7	30	**2KJ4504 - ■ DE32 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**B.49-LEN80MH4E**							
	24	295	59.28	10500	1.5	36	**2KJ4503 - ■ DE32 - ■ ■ C2**	
	27	265	53.89	10300	1.7	36	**2KJ4503 - ■ DE32 - ■ ■ B2**	
	31	225	45.83	10000	2.0	36	**2KJ4503 - ■ DE32 - ■ ■ A2**	
	35	205	41.67	9700	2.2	36	**2KJ4503 - ■ DE32 - ■ ■ X1**	
	39	185	37.18	9500	2.4	36	**2KJ4503 - ■ DE32 - ■ ■ W1**	
	43	166	33.33	9200	2.7	36	**2KJ4503 - ■ DE32 - ■ ■ V1**	
	B.49-LEN90SH6E							
	16	450	59.28	11200	0.99	41	**2KJ4503 - ■ EC32 - ■ ■ C2**	**P01**
	17	410	53.89	11300	1.1	41	**2KJ4503 - ■ EC32 - ■ ■ B2**	**P01**
	20	350	45.83	10900	1.3	41	**2KJ4503 - ■ EC32 - ■ ■ A2**	**P01**
	22	315	41.67	10700	1.4	41	**2KJ4503 - ■ EC32 - ■ ■ X1**	**P01**
	B.49-LEN90SS6P							
	16	450	59.28	11200	1.0	31	**2KJ4503 - ■ ED33 - ■ ■ C2**	**P01**
	17	410	53.89	11200	1.1	31	**2KJ4503 - ■ ED33 - ■ ■ B2**	**P01**
	21	345	45.83	10900	1.3	31	**2KJ4503 - ■ ED33 - ■ ■ A2**	**P01**
	K.49-LEN80MH4E							
	15	485	97.71	7200	0.86	38	**2KJ4505 - ■ DE32 - ■ ■ C2**	
	16	440	88.83	7200	0.95	38	**2KJ4505 - ■ DE32 - ■ ■ B2**	
	19	385	77.81	7200	1.1	38	**2KJ4505 - ■ DE32 - ■ ■ A2**	
	20	355	71.82	7100	1.2	38	**2KJ4505 - ■ DE32 - ■ ■ X1**	
	23	315	63.59	7000	1.3	38	**2KJ4505 - ■ DE32 - ■ ■ W1**	
	27	260	52.93	6900	1.6	38	**2KJ4505 - ■ DE32 - ■ ■ V1**	
	29	245	49.82	6800	1.7	38	**2KJ4505 - ■ DE32 - ■ ■ U1**	
	32	220	44.63	6700	1.9	38	**2KJ4505 - ■ DE32 - ■ ■ T1**	
	38	189	38.00	6500	2.2	38	**2KJ4505 - ■ DE32 - ■ ■ S1**	
	44	162	32.57	6300	2.6	38	**2KJ4505 - ■ DE32 - ■ ■ R1**	
	K.69-LEN80MH4E							
	10	685	138.18	10300	0.87	45	**2KJ4507 - ■ DE32 - ■ ■ E2**	
	12	610	123.29	10800	0.98	45	**2KJ4507 - ■ DE32 - ■ ■ D2**	
	13	550	110.55	10900	1.1	45	**2KJ4507 - ■ DE32 - ■ ■ C2**	
	14	495	99.64	11100	1.2	45	**2KJ4507 - ■ DE32 - ■ ■ B2**	
	16	455	91.98	11200	1.3	45	**2KJ4507 - ■ DE32 - ■ ■ A2**	
	17	415	83.96	11200	1.4	45	**2KJ4507 - ■ DE32 - ■ ■ X1**	
	21	345	69.67	11100	1.7	45	**2KJ4507 - ■ DE32 - ■ ■ W1**	
	22	325	65.57	11000	1.8	45	**2KJ4507 - ■ DE32 - ■ ■ V1**	
	23	305	61.93	10900	1.9	45	**2KJ4507 - ■ DE32 - ■ ■ U1**	
	27	260	52.69	10500	2.3	45	**2KJ4507 - ■ DE32 - ■ ■ T1**	
	K.79-LEN80MH4E							
	7.6	935	188.85	13700	0.87	50	**2KJ4508 - ■ DE32 - ■ ■ G2**	
	8.4	850	171.69	13900	0.96	50	**2KJ4508 - ■ DE32 - ■ ■ F2**	
	9.4	760	153.18	14000	1.1	50	**2KJ4508 - ■ DE32 - ■ ■ E2**	
	10	680	137.35	14200	1.2	50	**2KJ4508 - ■ DE32 - ■ ■ D2**	
	12	615	123.80	14300	1.3	50	**2KJ4508 - ■ DE32 - ■ ■ C2**	
	13	565	114.28	14400	1.4	50	**2KJ4508 - ■ DE32 - ■ ■ B2**	
	14	515	104.32	14400	1.6	50	**2KJ4508 - ■ DE32 - ■ ■ A2**	
	17	430	86.56	14400	1.9	50	**2KJ4508 - ■ DE32 - ■ ■ X1**	
	18	405	81.47	14400	2.0	50	**2KJ4508 - ■ DE32 - ■ ■ W1**	
	19	380	76.94	14400	2.1	50	**2KJ4508 - ■ DE32 - ■ ■ V1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**K.89-LEN80MH4E**							
	6.2	1 150	231.80	18 100	1.4	70	**2KJ4510 - ■ DE32 - ■ ■ K2**	
	6.8	1 040	210.72	18 100	1.5	70	**2KJ4510 - ■ DE32 - ■ ■ J2**	
	7.6	940	189.01	18 100	1.7	70	**2KJ4510 - ■ DE32 - ■ ■ H2**	
	8.5	845	169.94	18 100	1.9	70	**2KJ4510 - ■ DE32 - ■ ■ G2**	
	9.4	760	153.70	18 100	2.1	70	**2KJ4510 - ■ DE32 - ■ ■ F2**	
	K.89-LEN90SH6E							
	4.0	1 770	231.80	18 100	0.9	77	**2KJ4510 - ■ EC32 - ■ ■ K2**	**P01**
	4.4	1 610	210.72	18 100	0.99	77	**2KJ4510 - ■ EC32 - ■ ■ J2**	**P01**
	4.9	1 440	189.01	18 100	1.1	77	**2KJ4510 - ■ EC32 - ■ ■ H2**	**P01**
	5.5	1 300	169.94	18 100	1.2	77	**2KJ4510 - ■ EC32 - ■ ■ G2**	**P01**
	K.89-LEN90SS6P							
	4.1	1 760	231.80	18 100	0.91	67	**2KJ4510 - ■ ED33 - ■ ■ K2**	**P01**
	4.5	1 600	210.72	18 100	1.0	67	**2KJ4510 - ■ ED33 - ■ ■ J2**	**P01**
	5.0	1 440	189.01	18 100	1.1	67	**2KJ4510 - ■ ED33 - ■ ■ H2**	**P01**
	5.5	1 290	169.94	18 100	1.2	67	**2KJ4510 - ■ ED33 - ■ ■ G2**	**P01**
	B.19-LEN80ZMQ4P							
	114	63	12.66	1900	0.8	14	**2KJ4500 - ■ DE33 - ■ ■ N1**	
	131	54	11.00	1900	0.92	14	**2KJ4500 - ■ DE33 - ■ ■ M1**	
	146	49	9.93	1900	1.0	14	**2KJ4500 - ■ DE33 - ■ ■ L1**	
	155	46	9.35	1900	1.1	14	**2KJ4500 - ■ DE33 - ■ ■ K1**	
	177	40	8.15	1900	1.2	14	**2KJ4500 - ■ DE33 - ■ ■ J1**	
	184	39	7.87	1900	0.97	14	**2KJ4500 - ■ DE33 - ■ ■ H1**	
	207	35	6.99	1900	1.1	14	**2KJ4500 - ■ DE33 - ■ ■ G1**	
	224	32	6.45	1900	1.2	14	**2KJ4500 - ■ DE33 - ■ ■ F1**	
	258	28	5.61	1900	1.3	14	**2KJ4500 - ■ DE33 - ■ ■ E1**	
	297	24	4.87	1900	1.4	14	**2KJ4500 - ■ DE33 - ■ ■ D1**	
	328	22	4.40	1800	1.6	14	**2KJ4500 - ■ DE33 - ■ ■ C1**	
	349	20	4.14	1800	1.6	14	**2KJ4500 - ■ DE33 - ■ ■ B1**	
	400	18	3.61	1700	1.7	14	**2KJ4500 - ■ DE33 - ■ ■ A1**	
	B.29-LEN80ZMQ4P							
	57	127	25.56	4000	0.87	16	**2KJ4501 - ■ DE33 - ■ ■ U1**	
	64	111	22.41	4100	0.99	16	**2KJ4501 - ■ DE33 - ■ ■ T1**	
	72	99	20.00	4100	1.1	16	**2KJ4501 - ■ DE33 - ■ ■ S1**	
	81	88	17.82	4200	1.2	16	**2KJ4501 - ■ DE33 - ■ ■ R1**	
	88	82	16.45	4100	1.3	16	**2KJ4501 - ■ DE33 - ■ ■ Q1**	
	100	71	14.40	4000	1.5	16	**2KJ4501 - ■ DE33 - ■ ■ P1**	
	114	63	12.63	3900	1.8	16	**2KJ4501 - ■ DE33 - ■ ■ N1**	
	126	57	11.46	3800	1.9	16	**2KJ4501 - ■ DE33 - ■ ■ M1**	
	134	53	10.78	3700	2.1	16	**2KJ4501 - ■ DE33 - ■ ■ L1**	
	152	47	9.51	3600	2.3	16	**2KJ4501 - ■ DE33 - ■ ■ K1**	
	175	41	8.25	3500	2.7	16	**2KJ4501 - ■ DE33 - ■ ■ J1**	
	184	39	7.84	3400	1.9	16	**2KJ4501 - ■ DE33 - ■ ■ H1**	
	196	37	7.38	3300	2.1	16	**2KJ4501 - ■ DE33 - ■ ■ G1**	
	222	32	6.51	3200	2.3	16	**2KJ4501 - ■ DE33 - ■ ■ F1**	
	256	28	5.65	3100	2.7	16	**2KJ4501 - ■ DE33 - ■ ■ E1**	
	285	25	5.07	3000	2.9	16	**2KJ4501 - ■ DE33 - ■ ■ D1**	
	302	24	4.78	3000	3.1	16	**2KJ4501 - ■ DE33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**B.29-LEN80ZMQ4P**							
	343	21	4.21	2900	3.5	16	**2KJ4501 - ■ DE33 - ■ ■ B1**	
	396	18	3.65	2800	4.0	16	**2KJ4501 - ■ DE33 - ■ ■ A1**	
	B.39-LEN80ZMQ4P							
	29	245	50.11	6900	0.85	21	**2KJ4502 - ■ DE33 - ■ ■ X1**	
	33	215	44.00	6900	1.1	21	**2KJ4502 - ■ DE33 - ■ ■ W1**	
	36	198	40.00	6900	1.2	21	**2KJ4502 - ■ DE33 - ■ ■ V1**	
	42	170	34.22	6900	1.5	21	**2KJ4502 - ■ DE33 - ■ ■ U1**	
	46	154	31.11	6900	1.6	21	**2KJ4502 - ■ DE33 - ■ ■ T1**	
	53	136	27.50	6900	1.8	21	**2KJ4502 - ■ DE33 - ■ ■ S1**	
	58	124	25.00	6900	2.0	21	**2KJ4502 - ■ DE33 - ■ ■ R1**	
	66	109	21.90	6900	2.3	21	**2KJ4502 - ■ DE33 - ■ ■ Q1**	
	71	100	20.21	6900	2.5	21	**2KJ4502 - ■ DE33 - ■ ■ P1**	
	81	89	17.90	6900	2.8	21	**2KJ4502 - ■ DE33 - ■ ■ N1**	
	97	74	14.90	6900	3.4	21	**2KJ4502 - ■ DE33 - ■ ■ M1**	
	K.39-LEN80ZMQ4P							
	26	270	55.25	5800	0.8	22	**2KJ4504 - ■ DE33 - ■ ■ X1**	
	30	240	48.37	5900	0.92	22	**2KJ4504 - ■ DE33 - ■ ■ W1**	
	34	210	42.41	5800	1.0	22	**2KJ4504 - ■ DE33 - ■ ■ V1**	
	38	191	38.48	5800	1.2	22	**2KJ4504 - ■ DE33 - ■ ■ U1**	
	40	179	36.21	5700	1.2	22	**2KJ4504 - ■ DE33 - ■ ■ T1**	
	45	158	31.92	5600	1.4	22	**2KJ4504 - ■ DE33 - ■ ■ S1**	
	52	137	27.70	5500	1.6	22	**2KJ4504 - ■ DE33 - ■ ■ R1**	
	54	133	26.89	5400	1.7	22	**2KJ4504 - ■ DE33 - ■ ■ Q1**	
	60	119	23.97	5300	1.9	22	**2KJ4504 - ■ DE33 - ■ ■ P1**	
	65	110	22.12	5200	2.0	22	**2KJ4504 - ■ DE33 - ■ ■ N1**	
	75	96	19.37	5100	2.3	22	**2KJ4504 - ■ DE33 - ■ ■ M1**	
	85	84	16.98	4900	2.6	22	**2KJ4504 - ■ DE33 - ■ ■ L1**	
	94	76	15.41	4800	2.9	22	**2KJ4504 - ■ DE33 - ■ ■ K1**	
	100	72	14.50	4800	3.1	22	**2KJ4504 - ■ DE33 - ■ ■ J1**	
	113	63	12.78	4600	3.5	22	**2KJ4504 - ■ DE33 - ■ ■ H1**	
	144	50	10.04	4300	3.7	22	**2KJ4504 - ■ DE33 - ■ ■ F1**	
	B.49-LEN80ZMQ4P							
	24	290	59.28	10500	1.5	27	**2KJ4503 - ■ DE33 - ■ ■ C2**	
	27	265	53.89	10300	1.7	27	**2KJ4503 - ■ DE33 - ■ ■ B2**	
	32	225	45.83	9900	2.0	27	**2KJ4503 - ■ DE33 - ■ ■ A2**	
	35	205	41.67	9700	2.2	27	**2KJ4503 - ■ DE33 - ■ ■ X1**	
	39	184	37.18	9400	2.4	27	**2KJ4503 - ■ DE33 - ■ ■ W1**	
	43	165	33.33	9200	2.7	27	**2KJ4503 - ■ DE33 - ■ ■ V1**	
	K.49-LEN80ZMQ4P							
	15	480	97.71	7200	0.87	29	**2KJ4505 - ■ DE33 - ■ ■ C2**	
	16	440	88.83	7200	0.95	29	**2KJ4505 - ■ DE33 - ■ ■ B2**	
	19	385	77.81	7200	1.1	29	**2KJ4505 - ■ DE33 - ■ ■ A2**	
	20	355	71.82	7100	1.2	29	**2KJ4505 - ■ DE33 - ■ ■ X1**	
	23	315	63.59	7000	1.3	29	**2KJ4505 - ■ DE33 - ■ ■ W1**	
	27	260	52.93	6900	1.6	29	**2KJ4505 - ■ DE33 - ■ ■ V1**	
	29	245	49.82	6800	1.7	29	**2KJ4505 - ■ DE33 - ■ ■ U1**	
	32	220	44.63	6700	1.9	29	**2KJ4505 - ■ DE33 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**K.49-LEN80ZMQ4P**							
	38	188	38.00	6500	2.2	29	**2KJ4505 - ■ DE33 - ■ ■ S1**	
	44	161	32.57	6300	2.6	29	**2KJ4505 - ■ DE33 - ■ ■ R1**	
	K.69-LEN80ZMQ4P							
	9.5	750	152.00	9800	0.8	36	**2KJ4507 - ■ DE33 - ■ ■ F2**	
	10	685	138.18	10300	0.88	36	**2KJ4507 - ■ DE33 - ■ ■ E2**	
	12	610	123.29	10800	0.98	36	**2KJ4507 - ■ DE33 - ■ ■ D2**	
	13	545	110.55	10900	1.1	36	**2KJ4507 - ■ DE33 - ■ ■ C2**	
	15	490	99.64	11100	1.2	36	**2KJ4507 - ■ DE33 - ■ ■ B2**	
	16	455	91.98	11200	1.3	36	**2KJ4507 - ■ DE33 - ■ ■ A2**	
	17	415	83.96	11200	1.4	36	**2KJ4507 - ■ DE33 - ■ ■ X1**	
	21	345	69.67	11100	1.7	36	**2KJ4507 - ■ DE33 - ■ ■ W1**	
	22	325	65.57	11000	1.8	36	**2KJ4507 - ■ DE33 - ■ ■ V1**	
	23	305	61.93	10900	2.0	36	**2KJ4507 - ■ DE33 - ■ ■ U1**	
	27	260	52.69	10500	2.3	36	**2KJ4507 - ■ DE33 - ■ ■ T1**	
	K.79-LEN80ZMQ4P							
	7.7	935	188.85	13700	0.88	41	**2KJ4508 - ■ DE33 - ■ ■ G2**	
	8.4	850	171.69	13900	0.96	41	**2KJ4508 - ■ DE33 - ■ ■ F2**	
	9.4	755	153.18	14100	1.1	41	**2KJ4508 - ■ DE33 - ■ ■ E2**	
	11	680	137.35	14200	1.2	41	**2KJ4508 - ■ DE33 - ■ ■ D2**	
	12	610	123.80	14300	1.3	41	**2KJ4508 - ■ DE33 - ■ ■ C2**	
	13	565	114.28	14400	1.4	41	**2KJ4508 - ■ DE33 - ■ ■ B2**	
	14	515	104.32	14400	1.6	41	**2KJ4508 - ■ DE33 - ■ ■ A2**	
	17	425	86.56	14400	1.9	41	**2KJ4508 - ■ DE33 - ■ ■ X1**	
	18	400	81.47	14400	2.0	41	**2KJ4508 - ■ DE33 - ■ ■ W1**	
	19	380	76.94	14400	2.2	41	**2KJ4508 - ■ DE33 - ■ ■ V1**	
	K.89-LEN80ZMQ4P							
	6.2	1 140	231.80	18100	1.4	62	**2KJ4510 - ■ DE33 - ■ ■ K2**	
	6.9	1 040	210.72	18100	1.5	62	**2KJ4510 - ■ DE33 - ■ ■ J2**	
	7.6	935	189.01	18100	1.7	62	**2KJ4510 - ■ DE33 - ■ ■ H2**	
	8.5	840	169.94	18100	1.9	62	**2KJ4510 - ■ DE33 - ■ ■ G2**	
	9.4	760	153.70	18100	2.1	62	**2KJ4510 - ■ DE33 - ■ ■ F2**	
	K.109-LEN90SH6E							
	4.3	1 660	216.65	24500	1.7	114	**2KJ4511 - ■ EC32 - ■ ■ H2**	**P01**
	4.8	1 490	195.60	24500	1.9	114	**2KJ4511 - ■ EC32 - ■ ■ G2**	**P01**
	5.3	1 350	177.43	24500	2.1	114	**2KJ4511 - ■ EC32 - ■ ■ F2**	**P01**
	K.109-LEN90SS6P							
	4.3	1 650	216.65	24500	1.8	104	**2KJ4511 - ■ ED33 - ■ ■ H2**	**P01**
	4.8	1 490	195.60	24500	1.9	104	**2KJ4511 - ■ ED33 - ■ ■ G2**	**P01**
	5.3	1 350	177.43	24500	2.1	104	**2KJ4511 - ■ ED33 - ■ ■ F2**	**P01**
	K.89-Z39-LEN80MH4E							
	3.6	1 830	401.00	18100	0.87	76	**2KJ4528 - ■ DE32 - ■ ■ D1**	
	4.2	1 560	341.78	18100	1.0	76	**2KJ4528 - ■ DE32 - ■ ■ C1**	
	4.9	1 340	292.96	18100	1.2	76	**2KJ4528 - ■ DE32 - ■ ■ B1**	
	5.7	1 150	252.27	18100	1.4	76	**2KJ4528 - ■ DE32 - ■ ■ A1**	
	K.89-Z39-LEN80ZMQ4P							
	3.6	1 820	401.00	18100	0.88	68	**2KJ4528 - ■ DE33 - ■ ■ D1**	
	4.2	1 550	341.78	18100	1.0	68	**2KJ4528 - ■ DE33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**K.89-Z39-LEN80ZMQ4P**							
	4.9	1 330	292.96	18 100	1.2	68	**2KJ4528 - ■ DE33 - ■ ■ B1**	
	5.7	1 150	252.27	18 100	1.4	68	**2KJ4528 - ■ DE33 - ■ ■ A1**	
	K.109-Z39-LEN80MH4E							
	1.9	3 500	767.00	24 500	0.83	113	**2KJ4531 - ■ DE32 - ■ ■ L1**	
	2.0	3 300	722.00	24 500	0.88	113	**2KJ4531 - ■ DE32 - ■ ■ K1**	
	2.2	2 950	647.00	24 500	0.98	113	**2KJ4531 - ■ DE32 - ■ ■ J1**	
	2.6	2 510	551.00	24 500	1.2	113	**2KJ4531 - ■ DE32 - ■ ■ H1**	
	2.8	2 370	519.00	24 500	1.2	113	**2KJ4531 - ■ DE32 - ■ ■ G1**	
	3.4	1 950	428.00	24 500	1.5	113	**2KJ4531 - ■ DE32 - ■ ■ F1**	
	3.6	1 840	403.00	24 500	1.6	113	**2KJ4531 - ■ DE32 - ■ ■ E1**	
	4.0	1 650	361.00	24 500	1.8	113	**2KJ4531 - ■ DE32 - ■ ■ D1**	
	K.129-Z39-LEN80MH4E							
	1.3	4 980	1 090.00	37 000	0.88	164	**2KJ4533 - ■ DE32 - ■ ■ J1**	
	1.5	4 270	934.00	37 700	1.0	164	**2KJ4533 - ■ DE32 - ■ ■ H1**	
	1.8	3 670	804.00	38 300	1.2	164	**2KJ4533 - ■ DE32 - ■ ■ G1**	
	2.2	3 030	664.00	38 900	1.4	164	**2KJ4533 - ■ DE32 - ■ ■ F1**	
	2.3	2 850	625.00	39 100	1.5	164	**2KJ4533 - ■ DE32 - ■ ■ E1**	
	2.6	2 560	560.00	39 400	1.7	164	**2KJ4533 - ■ DE32 - ■ ■ D1**	
	3.0	2 170	476.00	39 800	2.0	164	**2KJ4533 - ■ DE32 - ■ ■ C1**	
	K.149-Z49-LEN80MH4E							
	0.68	9 610	2 103.00	65 000	0.83	258	**2KJ4535 - ■ DE32 - ■ ■ T1**	
	0.74	8 870	1 941.00	65 000	0.9	258	**2KJ4535 - ■ DE32 - ■ ■ S1**	
	0.81	8 100	1 772.00	65 000	0.99	258	**2KJ4535 - ■ DE32 - ■ ■ R1**	
	0.98	6 720	1 470.00	65 000	1.2	258	**2KJ4535 - ■ DE32 - ■ ■ Q1**	
	1.0	6 320	1 384.00	65 000	1.3	258	**2KJ4535 - ■ DE32 - ■ ■ P1**	
	1.1	5 970	1 307.00	65 000	1.3	258	**2KJ4535 - ■ DE32 - ■ ■ N1**	
	1.3	5 080	1 112.00	65 000	1.6	258	**2KJ4535 - ■ DE32 - ■ ■ M1**	
	1.5	4 350	953.00	65 000	1.8	258	**2KJ4535 - ■ DE32 - ■ ■ L1**	
	K.169-Z49-LEN80MH4E							
	0.41	16 000	3 513.00	70 000	0.81	429	**2KJ4537 - ■ DE32 - ■ ■ V1**	
	0.45	14 400	3 167.00	70 000	0.9	429	**2KJ4537 - ■ DE32 - ■ ■ U1**	
	0.49	13 300	2 923.00	70 000	0.97	429	**2KJ4537 - ■ DE32 - ■ ■ T1**	
	0.54	12 100	2 668.00	70 000	1.1	429	**2KJ4537 - ■ DE32 - ■ ■ S1**	
	0.65	10 100	2 214.00	70 000	1.3	429	**2KJ4537 - ■ DE32 - ■ ■ R1**	
	0.69	9 520	2 084.00	70 000	1.4	429	**2KJ4537 - ■ DE32 - ■ ■ Q1**	
	0.73	8 990	1 968.00	70 000	1.4	429	**2KJ4537 - ■ DE32 - ■ ■ P1**	
	0.86	7 650	1 675.00	70 000	1.7	429	**2KJ4537 - ■ DE32 - ■ ■ N1**	
	1.0	6 560	1 435.00	70 000	2.0	429	**2KJ4537 - ■ DE32 - ■ ■ M1**	
	K.189-Z69-LEN80MH4E							
	0.29	22 500	4 929.00	104 000	0.87	670	**2KJ4540 - ■ DE32 - ■ ■ A2**	
	0.32	20 400	4 481.00	104 000	0.95	670	**2KJ4540 - ■ DE32 - ■ ■ X1**	
	0.36	18 200	3 998.00	104 000	1.1	670	**2KJ4540 - ■ DE32 - ■ ■ W1**	
	0.4	16 300	3 585.00	104 000	1.2	670	**2KJ4540 - ■ DE32 - ■ ■ V1**	
	0.45	14 700	3 231.00	104 000	1.3	670	**2KJ4540 - ■ DE32 - ■ ■ U1**	
	0.48	13 600	2 983.00	104 000	1.4	670	**2KJ4540 - ■ DE32 - ■ ■ T1**	
	0.53	12 400	2 723.00	104 000	1.6	670	**2KJ4540 - ■ DE32 - ■ ■ S1**	
	0.64	10 300	2 259.00	104 000	1.9	670	**2KJ4540 - ■ DE32 - ■ ■ R1**	
	0.68	9 720	2 126.00	104 000	2.0	670	**2KJ4540 - ■ DE32 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**K.109-Z39-LEN80ZMQ4P**							
	1.9	3 490	767.00	24500	0.83	105	**2KJ4531 - ■ DE33 - ■ ■ L1**	
	2.0	3 290	722.00	24500	0.88	105	**2KJ4531 - ■ DE33 - ■ ■ K1**	
	2.2	2 940	647.00	24500	0.98	105	**2KJ4531 - ■ DE33 - ■ ■ J1**	
	2.6	2 510	551.00	24500	1.2	105	**2KJ4531 - ■ DE33 - ■ ■ H1**	
	2.8	2 360	519.00	24500	1.2	105	**2KJ4531 - ■ DE33 - ■ ■ G1**	
	3.4	1 950	428.00	24500	1.5	105	**2KJ4531 - ■ DE33 - ■ ■ F1**	
	3.6	1 830	403.00	24500	1.6	105	**2KJ4531 - ■ DE33 - ■ ■ E1**	
	4.0	1 640	361.00	24500	1.8	105	**2KJ4531 - ■ DE33 - ■ ■ D1**	
	K.129-Z39-LEN80ZMQ4P							
	1.3	4 960	1 090.00	37000	0.89	156	**2KJ4533 - ■ DE33 - ■ ■ J1**	
	1.5	4 250	934.00	37700	1.0	156	**2KJ4533 - ■ DE33 - ■ ■ H1**	
	1.8	3 660	804.00	38300	1.2	156	**2KJ4533 - ■ DE33 - ■ ■ G1**	
	2.2	3 020	664.00	38900	1.5	156	**2KJ4533 - ■ DE33 - ■ ■ F1**	
	2.3	2 840	625.00	39100	1.5	156	**2KJ4533 - ■ DE33 - ■ ■ E1**	
	2.6	2 550	560.00	39400	1.7	156	**2KJ4533 - ■ DE33 - ■ ■ D1**	
	3.0	2 160	476.00	39800	2.0	156	**2KJ4533 - ■ DE33 - ■ ■ C1**	
	K.149-Z49-LEN80ZMQ4P							
	0.69	9 580	2 103.00	65000	0.83	250	**2KJ4535 - ■ DE33 - ■ ■ T1**	
	0.74	8 840	1 941.00	65000	0.9	250	**2KJ4535 - ■ DE33 - ■ ■ S1**	
	0.82	8 070	1 772.00	65000	0.99	250	**2KJ4535 - ■ DE33 - ■ ■ R1**	
	0.98	6 690	1 470.00	65000	1.2	250	**2KJ4535 - ■ DE33 - ■ ■ Q1**	
	1.0	6 300	1 384.00	65000	1.3	250	**2KJ4535 - ■ DE33 - ■ ■ P1**	
	1.1	5 950	1 307.00	65000	1.3	250	**2KJ4535 - ■ DE33 - ■ ■ N1**	
	1.3	5 060	1 112.00	65000	1.6	250	**2KJ4535 - ■ DE33 - ■ ■ M1**	
	1.5	4 340	953.00	65000	1.8	250	**2KJ4535 - ■ DE33 - ■ ■ L1**	
	K.169-Z49-LEN80ZMQ4P							
	0.41	16 000	3 513.00	70000	0.81	421	**2KJ4537 - ■ DE33 - ■ ■ V1**	
	0.46	14 400	3 167.00	70000	0.9	421	**2KJ4537 - ■ DE33 - ■ ■ U1**	
	0.49	13 300	2 923.00	70000	0.98	421	**2KJ4537 - ■ DE33 - ■ ■ T1**	
	0.54	12 100	2 668.00	70000	1.1	421	**2KJ4537 - ■ DE33 - ■ ■ S1**	
	0.65	10 000	2 214.00	70000	1.3	421	**2KJ4537 - ■ DE33 - ■ ■ R1**	
	0.69	9 490	2 084.00	70000	1.4	421	**2KJ4537 - ■ DE33 - ■ ■ Q1**	
	0.73	8 960	1 968.00	70000	1.4	421	**2KJ4537 - ■ DE33 - ■ ■ P1**	
	0.86	7 630	1 675.00	70000	1.7	421	**2KJ4537 - ■ DE33 - ■ ■ N1**	
	1.0	6 530	1 435.00	70000	2.0	421	**2KJ4537 - ■ DE33 - ■ ■ M1**	
	K.189-Z69-LEN80ZMQ4P							
	0.29	22 400	4 929.00	104000	0.87	662	**2KJ4540 - ■ DE33 - ■ ■ A2**	
	0.32	20 400	4 481.00	104000	0.96	662	**2KJ4540 - ■ DE33 - ■ ■ X1**	
	0.36	18 200	3 998.00	104000	1.1	662	**2KJ4540 - ■ DE33 - ■ ■ W1**	
	0.4	16 300	3 585.00	104000	1.2	662	**2KJ4540 - ■ DE33 - ■ ■ V1**	
	0.45	14 700	3 231.00	104000	1.3	662	**2KJ4540 - ■ DE33 - ■ ■ U1**	
	0.48	13 500	2 983.00	104000	1.4	662	**2KJ4540 - ■ DE33 - ■ ■ T1**	
	0.53	12 400	2 723.00	104000	1.6	662	**2KJ4540 - ■ DE33 - ■ ■ S1**	
	0.64	10 200	2 259.00	104000	1.9	662	**2KJ4540 - ■ DE33 - ■ ■ R1**	
	0.68	9 680	2 126.00	104000	2.0	662	**2KJ4540 - ■ DE33 - ■ ■ Q1**	
1.1	**B.29-LEN90SH4E**							
	81	130	17.82	3800	0.85	31	**2KJ4501 - ■ EL32 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**B.29-LEN90SH4E**							
	88	120	16.45	3700	0.92	31	**2KJ4501 - ■ EL32 - ■ ■ Q1**	
	100	105	14.40	3700	1.0	31	**2KJ4501 - ■ EL32 - ■ ■ P1**	
	114	92	12.63	3600	1.2	31	**2KJ4501 - ■ EL32 - ■ ■ N1**	
	126	84	11.46	3500	1.3	31	**2KJ4501 - ■ EL32 - ■ ■ M1**	
	134	79	10.78	3500	1.4	31	**2KJ4501 - ■ EL32 - ■ ■ L1**	
	151	69	9.51	3400	1.6	31	**2KJ4501 - ■ EL32 - ■ ■ K1**	
	175	60	8.25	3300	1.8	31	**2KJ4501 - ■ EL32 - ■ ■ J1**	
	184	57	7.84	3200	1.3	31	**2KJ4501 - ■ EL32 - ■ ■ H1**	
	195	54	7.38	3200	1.4	31	**2KJ4501 - ■ EL32 - ■ ■ G1**	
	221	48	6.51	3100	1.6	31	**2KJ4501 - ■ EL32 - ■ ■ F1**	
	255	41	5.65	3000	1.8	31	**2KJ4501 - ■ EL32 - ■ ■ E1**	
	284	37	5.07	2900	2.0	31	**2KJ4501 - ■ EL32 - ■ ■ D1**	
	301	35	4.78	2900	2.1	31	**2KJ4501 - ■ EL32 - ■ ■ C1**	
	342	31	4.21	2800	2.4	31	**2KJ4501 - ■ EL32 - ■ ■ B1**	
	395	27	3.65	2700	2.7	31	**2KJ4501 - ■ EL32 - ■ ■ A1**	
	B.29-LEN90SN4P							
	80	131	17.82	3800	0.84	18	**2KJ4501 - ■ EL33 - ■ ■ R1**	
	87	121	16.45	3700	0.91	18	**2KJ4501 - ■ EL33 - ■ ■ Q1**	
	99	106	14.40	3700	1.0	18	**2KJ4501 - ■ EL33 - ■ ■ P1**	
	113	93	12.63	3600	1.2	18	**2KJ4501 - ■ EL33 - ■ ■ N1**	
	125	84	11.46	3500	1.3	18	**2KJ4501 - ■ EL33 - ■ ■ M1**	
	133	79	10.78	3500	1.4	18	**2KJ4501 - ■ EL33 - ■ ■ L1**	
	150	70	9.51	3400	1.6	18	**2KJ4501 - ■ EL33 - ■ ■ K1**	
	173	61	8.25	3300	1.8	18	**2KJ4501 - ■ EL33 - ■ ■ J1**	
	182	58	7.84	3200	1.3	18	**2KJ4501 - ■ EL33 - ■ ■ H1**	
	194	54	7.38	3200	1.4	18	**2KJ4501 - ■ EL33 - ■ ■ G1**	
	220	48	6.51	3100	1.6	18	**2KJ4501 - ■ EL33 - ■ ■ F1**	
	253	42	5.65	3000	1.8	18	**2KJ4501 - ■ EL33 - ■ ■ E1**	
	282	37	5.07	2900	2.0	18	**2KJ4501 - ■ EL33 - ■ ■ D1**	
	299	35	4.78	2900	2.1	18	**2KJ4501 - ■ EL33 - ■ ■ C1**	
	340	31	4.21	2800	2.4	18	**2KJ4501 - ■ EL33 - ■ ■ B1**	
	392	27	3.65	2700	2.7	18	**2KJ4501 - ■ EL33 - ■ ■ A1**	
	B.39-LEN90SH4E							
	42	250	34.22	6900	1.0	36	**2KJ4502 - ■ EL32 - ■ ■ U1**	
	46	225	31.11	6900	1.1	36	**2KJ4502 - ■ EL32 - ■ ■ T1**	
	52	200	27.50	6900	1.2	36	**2KJ4502 - ■ EL32 - ■ ■ S1**	
	58	182	25.00	6900	1.4	36	**2KJ4502 - ■ EL32 - ■ ■ R1**	
	66	160	21.90	6900	1.6	36	**2KJ4502 - ■ EL32 - ■ ■ Q1**	
	71	147	20.21	6900	1.7	36	**2KJ4502 - ■ EL32 - ■ ■ P1**	
	80	131	17.90	6900	1.9	36	**2KJ4502 - ■ EL32 - ■ ■ N1**	
	97	109	14.90	6700	2.3	36	**2KJ4502 - ■ EL32 - ■ ■ M1**	
	103	102	14.02	6600	2.4	36	**2KJ4502 - ■ EL32 - ■ ■ L1**	
	115	92	12.56	6500	2.7	36	**2KJ4502 - ■ EL32 - ■ ■ K1**	
	135	78	10.69	6200	3.1	36	**2KJ4502 - ■ EL32 - ■ ■ J1**	
	157	67	9.17	5900	3.4	36	**2KJ4502 - ■ EL32 - ■ ■ H1**	
	183	58	7.89	5700	3.8	36	**2KJ4502 - ■ EL32 - ■ ■ G1**	
	218	48	6.60	5400	4.2	36	**2KJ4502 - ■ EL32 - ■ ■ F1**	
	232	45	6.21	5300	4.4	36	**2KJ4502 - ■ EL32 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**B.39-LEN90SN4P**							
	42	250	34.22	6900	0.99	23	**2KJ4502 - ■ EL33 - ■ ■ U1**	
	46	225	31.11	6900	1.1	23	**2KJ4502 - ■ EL33 - ■ ■ T1**	
	52	200	27.50	6900	1.2	23	**2KJ4502 - ■ EL33 - ■ ■ S1**	
	57	184	25.00	6900	1.4	23	**2KJ4502 - ■ EL33 - ■ ■ R1**	
	65	161	21.90	6900	1.6	23	**2KJ4502 - ■ EL33 - ■ ■ Q1**	
	71	148	20.21	6900	1.7	23	**2KJ4502 - ■ EL33 - ■ ■ P1**	
	80	131	17.90	6900	1.9	23	**2KJ4502 - ■ EL33 - ■ ■ N1**	
	96	109	14.90	6800	2.3	23	**2KJ4502 - ■ EL33 - ■ ■ M1**	
	102	103	14.02	6700	2.4	23	**2KJ4502 - ■ EL33 - ■ ■ L1**	
	114	92	12.56	6500	2.7	23	**2KJ4502 - ■ EL33 - ■ ■ K1**	
	134	78	10.69	6200	3.1	23	**2KJ4502 - ■ EL33 - ■ ■ J1**	
	156	67	9.17	5900	3.4	23	**2KJ4502 - ■ EL33 - ■ ■ H1**	
	181	58	7.89	5700	3.8	23	**2KJ4502 - ■ EL33 - ■ ■ G1**	
	217	48	6.60	5400	4.1	23	**2KJ4502 - ■ EL33 - ■ ■ F1**	
	230	46	6.21	5300	4.4	23	**2KJ4502 - ■ EL33 - ■ ■ E1**	
	K.39-LEN90SH4E							
	40	260	36.21	5000	0.83	37	**2KJ4504 - ■ EL32 - ■ ■ T1**	
	45	230	31.92	5000	0.94	37	**2KJ4504 - ■ EL32 - ■ ■ S1**	
	52	200	27.70	4900	1.1	37	**2KJ4504 - ■ EL32 - ■ ■ R1**	
	54	196	26.89	4900	1.1	37	**2KJ4504 - ■ EL32 - ■ ■ Q1**	
	60	175	23.97	4800	1.3	37	**2KJ4504 - ■ EL32 - ■ ■ P1**	
	65	161	22.12	4800	1.4	37	**2KJ4504 - ■ EL32 - ■ ■ N1**	
	74	141	19.37	4700	1.6	37	**2KJ4504 - ■ EL32 - ■ ■ M1**	
	85	124	16.98	4600	1.8	37	**2KJ4504 - ■ EL32 - ■ ■ L1**	
	93	112	15.41	4500	2.0	37	**2KJ4504 - ■ EL32 - ■ ■ K1**	
	99	106	14.50	4400	2.1	37	**2KJ4504 - ■ EL32 - ■ ■ J1**	
	113	93	12.78	4300	2.4	37	**2KJ4504 - ■ EL32 - ■ ■ H1**	
	130	81	11.09	4200	2.7	37	**2KJ4504 - ■ EL32 - ■ ■ G1**	
	143	73	10.04	4000	2.5	37	**2KJ4504 - ■ EL32 - ■ ■ F1**	
	163	64	8.81	3900	2.8	37	**2KJ4504 - ■ EL32 - ■ ■ E1**	
	180	58	7.99	3800	3.0	37	**2KJ4504 - ■ EL32 - ■ ■ D1**	
	191	55	7.52	3800	3.1	37	**2KJ4504 - ■ EL32 - ■ ■ C1**	
	217	48	6.63	3700	3.3	37	**2KJ4504 - ■ EL32 - ■ ■ B1**	
	250	42	5.75	3500	3.6	37	**2KJ4504 - ■ EL32 - ■ ■ A1**	
	K.39-LEN90SN4P							
	39	265	36.21	5000	0.83	24	**2KJ4504 - ■ EL33 - ■ ■ T1**	
	45	230	31.92	5000	0.94	24	**2KJ4504 - ■ EL33 - ■ ■ S1**	
	52	200	27.70	4900	1.1	24	**2KJ4504 - ■ EL33 - ■ ■ R1**	
	53	198	26.89	4900	1.1	24	**2KJ4504 - ■ EL33 - ■ ■ Q1**	
	60	176	23.97	4800	1.2	24	**2KJ4504 - ■ EL33 - ■ ■ P1**	
	65	162	22.12	4800	1.4	24	**2KJ4504 - ■ EL33 - ■ ■ N1**	
	74	142	19.37	4700	1.5	24	**2KJ4504 - ■ EL33 - ■ ■ M1**	
	84	125	16.98	4600	1.8	24	**2KJ4504 - ■ EL33 - ■ ■ L1**	
	93	113	15.41	4500	1.9	24	**2KJ4504 - ■ EL33 - ■ ■ K1**	
	99	107	14.50	4500	2.1	24	**2KJ4504 - ■ EL33 - ■ ■ J1**	
	112	94	12.78	4300	2.3	24	**2KJ4504 - ■ EL33 - ■ ■ H1**	
	129	82	11.09	4200	2.7	24	**2KJ4504 - ■ EL33 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.39-LEN90SN4P**							
	142	74	10.04	4000	2.5	24	**2KJ4504 - ■ EL33 - ■ ■ F1**	
	162	65	8.81	3900	2.8	24	**2KJ4504 - ■ EL33 - ■ ■ E1**	
	179	59	7.99	3800	3.0	24	**2KJ4504 - ■ EL33 - ■ ■ D1**	
	190	55	7.52	3800	3.1	24	**2KJ4504 - ■ EL33 - ■ ■ C1**	
	216	49	6.63	3700	3.3	24	**2KJ4504 - ■ EL33 - ■ ■ B1**	
	249	42	5.75	3500	3.6	24	**2KJ4504 - ■ EL33 - ■ ■ A1**	
	B.49-LEN90LN6E							
	21	505	45.83	9800	0.88	42	**2KJ4503 - ■ EQ32 - ■ ■ A2**	**P01**
	23	460	41.67	9700	0.97	42	**2KJ4503 - ■ EQ32 - ■ ■ X1**	**P01**
	B.49-LEN90LT6P							
	21	505	45.83	9800	0.88	31	**2KJ4503 - ■ EP33 - ■ ■ A2**	**P01**
	B.49-LEN90SH4E							
	24	430	59.28	9600	1.0	41	**2KJ4503 - ■ EL32 - ■ ■ C2**	
	27	390	53.89	9500	1.1	41	**2KJ4503 - ■ EL32 - ■ ■ B2**	
	31	330	45.83	9300	1.3	41	**2KJ4503 - ■ EL32 - ■ ■ A2**	
	35	300	41.67	9100	1.5	41	**2KJ4503 - ■ EL32 - ■ ■ X1**	
	39	270	37.18	8900	1.7	41	**2KJ4503 - ■ EL32 - ■ ■ W1**	
	43	240	33.33	8700	1.9	41	**2KJ4503 - ■ EL32 - ■ ■ V1**	
	48	215	30.05	8500	2.1	41	**2KJ4503 - ■ EL32 - ■ ■ U1**	
	52	200	27.74	8400	2.2	41	**2KJ4503 - ■ EL32 - ■ ■ T1**	
	57	185	25.32	8200	2.4	41	**2KJ4503 - ■ EL32 - ■ ■ S1**	
	69	153	21.01	7800	2.9	41	**2KJ4503 - ■ EL32 - ■ ■ R1**	
	73	144	19.77	7700	3.1	41	**2KJ4503 - ■ EL32 - ■ ■ Q1**	
	B.49-LEN90SN4P							
	24	435	59.28	9600	1.0	28	**2KJ4503 - ■ EL33 - ■ ■ C2**	
	27	395	53.89	9500	1.1	28	**2KJ4503 - ■ EL33 - ■ ■ B2**	
	31	335	45.83	9300	1.3	28	**2KJ4503 - ■ EL33 - ■ ■ A2**	
	34	305	41.67	9100	1.5	28	**2KJ4503 - ■ EL33 - ■ ■ X1**	
	38	270	37.18	8900	1.6	28	**2KJ4503 - ■ EL33 - ■ ■ W1**	
	43	245	33.33	8700	1.8	28	**2KJ4503 - ■ EL33 - ■ ■ V1**	
	48	220	30.05	8500	2.0	28	**2KJ4503 - ■ EL33 - ■ ■ U1**	
	52	200	27.74	8400	2.2	28	**2KJ4503 - ■ EL33 - ■ ■ T1**	
	56	186	25.32	8200	2.4	28	**2KJ4503 - ■ EL33 - ■ ■ S1**	
	68	154	21.01	7800	2.9	28	**2KJ4503 - ■ EL33 - ■ ■ R1**	
	72	145	19.77	7700	3.1	28	**2KJ4503 - ■ EL33 - ■ ■ Q1**	
	K.49-LEN90SH4E							
	20	520	71.82	5800	0.8	43	**2KJ4505 - ■ EL32 - ■ ■ X1**	
	23	460	63.59	5900	0.91	43	**2KJ4505 - ■ EL32 - ■ ■ W1**	
	27	385	52.93	5900	1.1	43	**2KJ4505 - ■ EL32 - ■ ■ V1**	
	29	360	49.82	5900	1.2	43	**2KJ4505 - ■ EL32 - ■ ■ U1**	
	32	325	44.63	5900	1.3	43	**2KJ4505 - ■ EL32 - ■ ■ T1**	
	38	275	38.00	5900	1.5	43	**2KJ4505 - ■ EL32 - ■ ■ S1**	
	44	235	32.57	5800	1.8	43	**2KJ4505 - ■ EL32 - ■ ■ R1**	
	51	205	28.05	5600	2.1	43	**2KJ4505 - ■ EL32 - ■ ■ Q1**	
	55	192	26.30	5600	2.2	43	**2KJ4505 - ■ EL32 - ■ ■ P1**	
	62	170	23.28	5500	2.5	43	**2KJ4505 - ■ EL32 - ■ ■ N1**	
	74	141	19.38	5300	3.0	43	**2KJ4505 - ■ EL32 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.49-LEN90SH4E**							
	79	133	18.24	5200	3.2	43	**2KJ4505 - ■ EL32 - ■ ■ L1**	
	148	71	9.75	4500	3.9	43	**2KJ4505 - ■ EL32 - ■ ■ F1**	
	157	67	9.18	4400	4.0	43	**2KJ4505 - ■ EL32 - ■ ■ E1**	
	K.49-LEN90SN4P							
	20	525	71.82	5800	0.8	30	**2KJ4505 - ■ EL33 - ■ ■ X1**	
	22	465	63.59	5900	0.9	30	**2KJ4505 - ■ EL33 - ■ ■ W1**	
	27	385	52.93	6000	1.1	30	**2KJ4505 - ■ EL33 - ■ ■ V1**	
	29	365	49.82	5900	1.1	30	**2KJ4505 - ■ EL33 - ■ ■ U1**	
	32	325	44.63	5900	1.3	30	**2KJ4505 - ■ EL33 - ■ ■ T1**	
	38	275	38.00	5900	1.5	30	**2KJ4505 - ■ EL33 - ■ ■ S1**	
	44	235	32.57	5800	1.8	30	**2KJ4505 - ■ EL33 - ■ ■ R1**	
	51	205	28.05	5600	2.0	30	**2KJ4505 - ■ EL33 - ■ ■ Q1**	
	54	193	26.30	5600	2.2	30	**2KJ4505 - ■ EL33 - ■ ■ P1**	
	61	171	23.28	5500	2.5	30	**2KJ4505 - ■ EL33 - ■ ■ N1**	
	74	142	19.38	5300	3.0	30	**2KJ4505 - ■ EL33 - ■ ■ M1**	
	78	134	18.24	5200	3.1	30	**2KJ4505 - ■ EL33 - ■ ■ L1**	
	147	72	9.75	4500	3.8	30	**2KJ4505 - ■ EL33 - ■ ■ F1**	
	156	67	9.18	4400	4.0	30	**2KJ4505 - ■ EL33 - ■ ■ E1**	
	174	60	8.22	4300	4.2	30	**2KJ4505 - ■ EL33 - ■ ■ D1**	
	K.69-LEN90SH4E							
	14	725	99.64	10000	0.83	50	**2KJ4507 - ■ EL32 - ■ ■ B2**	
	16	670	91.98	10100	0.89	50	**2KJ4507 - ■ EL32 - ■ ■ A2**	
	17	610	83.96	10100	0.98	50	**2KJ4507 - ■ EL32 - ■ ■ X1**	
	21	505	69.67	10000	1.2	50	**2KJ4507 - ■ EL32 - ■ ■ W1**	
	22	475	65.57	9900	1.3	50	**2KJ4507 - ■ EL32 - ■ ■ V1**	
	23	450	61.93	9800	1.3	50	**2KJ4507 - ■ EL32 - ■ ■ U1**	
	27	380	52.69	9600	1.6	50	**2KJ4507 - ■ EL32 - ■ ■ T1**	
	32	325	45.14	9400	1.8	50	**2KJ4507 - ■ EL32 - ■ ■ S1**	
	36	290	39.69	9200	2.1	50	**2KJ4507 - ■ EL32 - ■ ■ R1**	
	43	240	33.48	8900	2.4	50	**2KJ4507 - ■ EL32 - ■ ■ Q1**	
	49	210	29.18	8600	2.6	50	**2KJ4507 - ■ EL32 - ■ ■ P1**	
	K.69-LEN90SN4P							
	14	730	99.64	10000	0.82	37	**2KJ4507 - ■ EL33 - ■ ■ B2**	
	16	675	91.98	10100	0.89	37	**2KJ4507 - ■ EL33 - ■ ■ A2**	
	17	615	83.96	10100	0.97	37	**2KJ4507 - ■ EL33 - ■ ■ X1**	
	21	510	69.67	10000	1.2	37	**2KJ4507 - ■ EL33 - ■ ■ W1**	
	22	480	65.57	9900	1.2	37	**2KJ4507 - ■ EL33 - ■ ■ V1**	
	23	455	61.93	9800	1.3	37	**2KJ4507 - ■ EL33 - ■ ■ U1**	
	27	385	52.69	9600	1.6	37	**2KJ4507 - ■ EL33 - ■ ■ T1**	
	32	330	45.14	9400	1.8	37	**2KJ4507 - ■ EL33 - ■ ■ S1**	
	36	290	39.69	9200	2.1	37	**2KJ4507 - ■ EL33 - ■ ■ R1**	
	43	245	33.48	8900	2.4	37	**2KJ4507 - ■ EL33 - ■ ■ Q1**	
	49	210	29.18	8700	2.6	37	**2KJ4507 - ■ EL33 - ■ ■ P1**	
	K.79-LEN90SH4E							
	10	1 000	137.35	13600	0.82	55	**2KJ4508 - ■ EL32 - ■ ■ D2**	
	12	900	123.80	13800	0.91	55	**2KJ4508 - ■ EL32 - ■ ■ C2**	
	13	830	114.28	13900	0.98	55	**2KJ4508 - ■ EL32 - ■ ■ B2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.79-LEN90SH4E**							
	14	760	104.32	14000	1.1	55	**2KJ4508 - ■ EL32 - ■ ■ A2**	
	17	630	86.56	14300	1.3	55	**2KJ4508 - ■ EL32 - ■ ■ X1**	
	18	590	81.47	14400	1.4	55	**2KJ4508 - ■ EL32 - ■ ■ W1**	
	19	560	76.94	14400	1.5	55	**2KJ4508 - ■ EL32 - ■ ■ V1**	
	22	475	65.47	14400	1.7	55	**2KJ4508 - ■ EL32 - ■ ■ U1**	
	26	405	56.08	14400	2.0	55	**2KJ4508 - ■ EL32 - ■ ■ T1**	
	29	360	49.31	14400	2.3	55	**2KJ4508 - ■ EL32 - ■ ■ S1**	
	35	300	41.60	14400	2.6	55	**2KJ4508 - ■ EL32 - ■ ■ R1**	
	K.79-LEN90SN4P							
	10	1 000	137.35	13600	0.81	42	**2KJ4508 - ■ EL33 - ■ ■ D2**	
	12	905	123.80	13800	0.9	42	**2KJ4508 - ■ EL33 - ■ ■ C2**	
	13	840	114.28	13900	0.98	42	**2KJ4508 - ■ EL33 - ■ ■ B2**	
	14	765	104.32	14000	1.1	42	**2KJ4508 - ■ EL33 - ■ ■ A2**	
	17	635	86.56	14300	1.3	42	**2KJ4508 - ■ EL33 - ■ ■ X1**	
	18	595	81.47	14400	1.4	42	**2KJ4508 - ■ EL33 - ■ ■ W1**	
	19	565	76.94	14400	1.5	42	**2KJ4508 - ■ EL33 - ■ ■ V1**	
	22	480	65.47	14400	1.7	42	**2KJ4508 - ■ EL33 - ■ ■ U1**	
	25	410	56.08	14400	2.0	42	**2KJ4508 - ■ EL33 - ■ ■ T1**	
	29	360	49.31	14400	2.3	42	**2KJ4508 - ■ EL33 - ■ ■ S1**	
	34	305	41.60	14400	2.6	42	**2KJ4508 - ■ EL33 - ■ ■ R1**	
	K.89-LEN90LN6E							
	5.6	1 880	169.94	18100	0.85	78	**2KJ4510 - ■ EQ32 - ■ ■ G2**	**P01**
	K.89-LEN90SH4E							
	6.2	1 690	231.80	18100	0.95	77	**2KJ4510 - ■ EL32 - ■ ■ K2**	
	6.8	1 530	210.72	18100	1.0	77	**2KJ4510 - ■ EL32 - ■ ■ J2**	
	7.6	1 370	189.01	18100	1.2	77	**2KJ4510 - ■ EL32 - ■ ■ H2**	
	8.5	1 240	169.94	18100	1.3	77	**2KJ4510 - ■ EL32 - ■ ■ G2**	
	9.4	1 120	153.70	18100	1.4	77	**2KJ4510 - ■ EL32 - ■ ■ F2**	
	10	1 030	141.88	18100	1.5	77	**2KJ4510 - ■ EL32 - ■ ■ E2**	
	11	945	129.96	18100	1.7	77	**2KJ4510 - ■ EL32 - ■ ■ D2**	
	13	795	109.04	18100	2.0	77	**2KJ4510 - ■ EL32 - ■ ■ C2**	
	14	745	102.63	18100	2.1	77	**2KJ4510 - ■ EL32 - ■ ■ B2**	
	K.89-LEN90SN4P							
	6.2	1 700	231.80	18100	0.94	64	**2KJ4510 - ■ EL33 - ■ ■ K2**	
	6.8	1 540	210.72	18100	1.0	64	**2KJ4510 - ■ EL33 - ■ ■ J2**	
	7.6	1 380	189.01	18100	1.2	64	**2KJ4510 - ■ EL33 - ■ ■ H2**	
	8.4	1 240	169.94	18100	1.3	64	**2KJ4510 - ■ EL33 - ■ ■ G2**	
	9.3	1 120	153.70	18100	1.4	64	**2KJ4510 - ■ EL33 - ■ ■ F2**	
	10	1 040	141.88	18100	1.5	64	**2KJ4510 - ■ EL33 - ■ ■ E2**	
	11	955	129.96	18100	1.7	64	**2KJ4510 - ■ EL33 - ■ ■ D2**	
	13	800	109.04	18100	2.0	64	**2KJ4510 - ■ EL33 - ■ ■ C2**	
	14	750	102.63	18100	2.1	64	**2KJ4510 - ■ EL33 - ■ ■ B2**	
	K.109-LEN90LN6E							
	4.4	2 400	216.65	24500	1.2	115	**2KJ4511 - ■ EQ32 - ■ ■ H2**	**P01**
	4.8	2 170	195.60	24500	1.3	115	**2KJ4511 - ■ EQ32 - ■ ■ G2**	**P01**
	5.3	1 970	177.43	24500	1.5	115	**2KJ4511 - ■ EQ32 - ■ ■ F2**	**P01**
	5.8	1 820	163.78	24500	1.6	115	**2KJ4511 - ■ EQ32 - ■ ■ E2**	**P01**
	6.3	1 650	148.88	24500	1.8	115	**2KJ4511 - ■ EQ32 - ■ ■ D2**	**P01**

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.109-LEN90LT6P**							
	4.4	2 400	216.65	24500	1.2	104	**2KJ4511 - ■ EP33 - ■ ■ H2**	**P01**
	4.8	2 170	195.60	24500	1.3	104	**2KJ4511 - ■ EP33 - ■ ■ G2**	**P01**
	5.3	1 970	177.43	24500	1.5	104	**2KJ4511 - ■ EP33 - ■ ■ F2**	**P01**
	5.8	1 820	163.78	24500	1.6	104	**2KJ4511 - ■ EP33 - ■ ■ E2**	**P01**
	6.3	1 650	148.88	24500	1.8	104	**2KJ4511 - ■ EP33 - ■ ■ D2**	**P01**
	K.109-LEN90SH4E							
	6.6	1 580	216.65	24500	1.8	114	**2KJ4511 - ■ EL32 - ■ ■ H2**	
	7.4	1 420	195.60	24500	2.0	114	**2KJ4511 - ■ EL32 - ■ ■ G2**	
	K.109-LEN90SN4P							
	6.6	1 590	216.65	24500	1.8	101	**2KJ4511 - ■ EL33 - ■ ■ H2**	
	7.3	1 430	195.60	24500	2.0	101	**2KJ4511 - ■ EL33 - ■ ■ G2**	
	K.129-LEN90LN6E							
	4.1	2 530	228.30	39400	1.7	165	**2KJ4512 - ■ EQ32 - ■ ■ J2**	**P01**
	4.5	2 340	210.74	39600	1.9	165	**2KJ4512 - ■ EQ32 - ■ ■ H2**	**P01**
	4.9	2 150	194.04	39800	2.0	165	**2KJ4512 - ■ EQ32 - ■ ■ G2**	**P01**
	K.129-LEN90LT6P							
	4.1	2 530	228.30	39400	1.7	154	**2KJ4512 - ■ EP33 - ■ ■ J2**	**P01**
	4.5	2 340	210.74	39600	1.9	154	**2KJ4512 - ■ EP33 - ■ ■ H2**	**P01**
	4.9	2 150	194.04	39800	2.0	154	**2KJ4512 - ■ EP33 - ■ ■ G2**	**P01**
	K.89-Z39-LEN90SH4E							
	4.9	1 980	292.96	18100	0.81	83	**2KJ4528 - ■ EL32 - ■ ■ B1**	
	5.7	1 710	252.27	18100	0.94	83	**2KJ4528 - ■ EL32 - ■ ■ A1**	
	K.89-Z39-LEN90SN4P							
	4.9	2 000	292.96	18100	0.8	70	**2KJ4528 - ■ EL33 - ■ ■ B1**	
	5.7	1 720	252.27	18100	0.93	70	**2KJ4528 - ■ EL33 - ■ ■ A1**	
	K.109-Z39-LEN90SH4E							
	2.8	3 510	519.00	24500	0.82	120	**2KJ4531 - ■ EL32 - ■ ■ G1**	
	3.4	2 900	428.00	24500	1.0	120	**2KJ4531 - ■ EL32 - ■ ■ F1**	
	3.6	2 730	403.00	24500	1.1	120	**2KJ4531 - ■ EL32 - ■ ■ E1**	
	4.0	2 440	361.00	24500	1.2	120	**2KJ4531 - ■ EL32 - ■ ■ D1**	
	4.7	2 080	307.54	24500	1.4	120	**2KJ4531 - ■ EL32 - ■ ■ C1**	
	5.5	1 780	263.61	24500	1.6	120	**2KJ4531 - ■ EL32 - ■ ■ B1**	
	6.3	1 530	227.00	24500	1.9	120	**2KJ4531 - ■ EL32 - ■ ■ A1**	
	K.109-Z39-LEN90SN4P							
	2.8	3 540	519.00	24500	0.82	107	**2KJ4531 - ■ EL33 - ■ ■ G1**	
	3.3	2 920	428.00	24500	0.99	107	**2KJ4531 - ■ EL33 - ■ ■ F1**	
	3.5	2 750	403.00	24500	1.1	107	**2KJ4531 - ■ EL33 - ■ ■ E1**	
	4.0	2 460	361.00	24500	1.2	107	**2KJ4531 - ■ EL33 - ■ ■ D1**	
	4.6	2 100	307.54	24500	1.4	107	**2KJ4531 - ■ EL33 - ■ ■ C1**	
	5.4	1 800	263.61	24500	1.6	107	**2KJ4531 - ■ EL33 - ■ ■ B1**	
	6.3	1 550	227.00	24500	1.9	107	**2KJ4531 - ■ EL33 - ■ ■ A1**	
	K.129-Z39-LEN90SH4E							
	1.8	5 450	804.00	36600	0.81	171	**2KJ4533 - ■ EL32 - ■ ■ G1**	
	2.2	4 500	664.00	37500	0.98	171	**2KJ4533 - ■ EL32 - ■ ■ F1**	
	2.3	4 230	625.00	37800	1.0	171	**2KJ4533 - ■ EL32 - ■ ■ E1**	
	2.6	3 790	560.00	38200	1.2	171	**2KJ4533 - ■ EL32 - ■ ■ D1**	
	3.0	3 220	476.00	38700	1.4	171	**2KJ4533 - ■ EL32 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.129-Z39-LEN90SH4E**							
	3.5	2 760	408.00	39200	1.6	171	**2KJ4533 - ■ EL32 - ■ ■ B1**	
	4.1	2 380	352.00	39600	1.8	171	**2KJ4533 - ■ EL32 - ■ ■ A1**	
	K.129-Z39-LEN90SN4P							
	1.8	5 480	804.00	36500	0.8	158	**2KJ4533 - ■ EL33 - ■ ■ G1**	
	2.2	4 530	664.00	37500	0.97	158	**2KJ4533 - ■ EL33 - ■ ■ F1**	
	2.3	4 260	625.00	37700	1.0	158	**2KJ4533 - ■ EL33 - ■ ■ E1**	
	2.6	3 820	560.00	38200	1.2	158	**2KJ4533 - ■ EL33 - ■ ■ D1**	
	3.0	3 250	476.00	38700	1.4	158	**2KJ4533 - ■ EL33 - ■ ■ C1**	
	3.5	2 780	408.00	39200	1.6	158	**2KJ4533 - ■ EL33 - ■ ■ B1**	
	4.1	2 400	352.00	39500	1.8	158	**2KJ4533 - ■ EL33 - ■ ■ A1**	
	K.149-Z49-LEN90SH4E							
	0.98	9 960	1 470.00	65000	0.8	263	**2KJ4535 - ■ EL32 - ■ ■ Q1**	
	1.0	9 380	1 384.00	65000	0.85	263	**2KJ4535 - ■ EL32 - ■ ■ P1**	
	1.1	8 860	1 307.00	65000	0.9	263	**2KJ4535 - ■ EL32 - ■ ■ N1**	
	1.3	7 530	1 112.00	65000	1.1	263	**2KJ4535 - ■ EL32 - ■ ■ M1**	
	1.5	6 460	953.00	65000	1.2	263	**2KJ4535 - ■ EL32 - ■ ■ L1**	
	1.7	5 680	838.00	65000	1.4	263	**2KJ4535 - ■ EL32 - ■ ■ K1**	
	2.0	4 790	707.00	65000	1.7	263	**2KJ4535 - ■ EL32 - ■ ■ J1**	
	2.3	4 170	616.00	65000	1.9	263	**2KJ4535 - ■ EL32 - ■ ■ H1**	
	2.4	4 120	608.00	65000	1.9	263	**2KJ4535 - ■ EL32 - ■ ■ G1**	
	K.149-Z49-LEN90SN4P							
	0.97	10 000	1 470.00	64900	0.8	250	**2KJ4535 - ■ EL33 - ■ ■ Q1**	
	1.0	9 440	1 384.00	65000	0.85	250	**2KJ4535 - ■ EL33 - ■ ■ P1**	
	1.1	8 920	1 307.00	65000	0.9	250	**2KJ4535 - ■ EL33 - ■ ■ N1**	
	1.3	7 590	1 112.00	65000	1.1	250	**2KJ4535 - ■ EL33 - ■ ■ M1**	
	1.5	6 500	953.00	65000	1.2	250	**2KJ4535 - ■ EL33 - ■ ■ L1**	
	1.7	5 720	838.00	65000	1.4	250	**2KJ4535 - ■ EL33 - ■ ■ K1**	
	2.0	4 820	707.00	65000	1.7	250	**2KJ4535 - ■ EL33 - ■ ■ J1**	
	2.3	4 200	616.00	65000	1.9	250	**2KJ4535 - ■ EL33 - ■ ■ H1**	
	2.4	4 150	608.00	65000	1.9	250	**2KJ4535 - ■ EL33 - ■ ■ G1**	
	2.5	3 910	574.00	65000	2.0	250	**2KJ4535 - ■ EL33 - ■ ■ F1**	
	K.169-Z49-LEN90SH4E							
	0.65	15 000	2 214.00	70000	0.87	434	**2KJ4537 - ■ EL32 - ■ ■ R1**	
	0.69	14 100	2 084.00	70000	0.92	434	**2KJ4537 - ■ EL32 - ■ ■ Q1**	
	0.73	13 300	1 968.00	70000	0.97	434	**2KJ4537 - ■ EL32 - ■ ■ P1**	
	0.86	11 300	1 675.00	70000	1.1	434	**2KJ4537 - ■ EL32 - ■ ■ N1**	
	1.0	9 720	1 435.00	70000	1.3	434	**2KJ4537 - ■ EL32 - ■ ■ M1**	
	1.1	8 540	1 261.00	70000	1.5	434	**2KJ4537 - ■ EL32 - ■ ■ L1**	
	1.4	7 210	1 064.00	70000	1.8	434	**2KJ4537 - ■ EL32 - ■ ■ K1**	
	K.169-Z49-LEN90SN4P							
	0.65	15 100	2 214.00	70000	0.86	421	**2KJ4537 - ■ EL33 - ■ ■ R1**	
	0.69	14 200	2 084.00	70000	0.91	421	**2KJ4537 - ■ EL33 - ■ ■ Q1**	
	0.73	13 400	1 968.00	70000	0.97	421	**2KJ4537 - ■ EL33 - ■ ■ P1**	
	0.85	11 400	1 675.00	70000	1.1	421	**2KJ4537 - ■ EL33 - ■ ■ N1**	
	1.0	9 790	1 435.00	70000	1.3	421	**2KJ4537 - ■ EL33 - ■ ■ M1**	
	1.1	8 600	1 261.00	70000	1.5	421	**2KJ4537 - ■ EL33 - ■ ■ L1**	
	1.3	7 260	1 064.00	70000	1.8	421	**2KJ4537 - ■ EL33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**K.189-Z69-LEN90SH4E**							
	0.4	24 300	3 585.00	104000	0.8	675	**2KJ4540 - ■ EL32 - ■ ■ V1**	
	0.45	21 900	3 231.00	104000	0.89	675	**2KJ4540 - ■ EL32 - ■ ■ U1**	
	0.48	20 200	2 983.00	104000	0.96	675	**2KJ4540 - ■ EL32 - ■ ■ T1**	
	0.53	18 400	2 723.00	104000	1.1	675	**2KJ4540 - ■ EL32 - ■ ■ S1**	
	0.64	15 300	2 259.00	104000	1.3	675	**2KJ4540 - ■ EL32 - ■ ■ R1**	
	0.68	14 400	2 126.00	104000	1.4	675	**2KJ4540 - ■ EL32 - ■ ■ Q1**	
	0.72	13 600	2 008.00	104000	1.4	675	**2KJ4540 - ■ EL32 - ■ ■ P1**	
	0.84	11 500	1 709.00	104000	1.7	675	**2KJ4540 - ■ EL32 - ■ ■ N1**	
	0.98	9 920	1 464.00	104000	2.0	675	**2KJ4540 - ■ EL32 - ■ ■ M1**	
	K.189-Z69-LEN90SN4P							
	0.4	24 400	3 585.00	104000	0.8	662	**2KJ4540 - ■ EL33 - ■ ■ V1**	
	0.44	22 000	3 231.00	104000	0.88	662	**2KJ4540 - ■ EL33 - ■ ■ U1**	
	0.48	20 300	2 983.00	104000	0.96	662	**2KJ4540 - ■ EL33 - ■ ■ T1**	
	0.53	18 500	2 723.00	104000	1.0	662	**2KJ4540 - ■ EL33 - ■ ■ S1**	
	0.63	15 400	2 259.00	104000	1.3	662	**2KJ4540 - ■ EL33 - ■ ■ R1**	
	0.67	14 500	2 126.00	104000	1.3	662	**2KJ4540 - ■ EL33 - ■ ■ Q1**	
	0.71	13 700	2 008.00	104000	1.4	662	**2KJ4540 - ■ EL33 - ■ ■ P1**	
	0.84	11 600	1 709.00	104000	1.7	662	**2KJ4540 - ■ EL33 - ■ ■ N1**	
	0.98	9 990	1 464.00	104000	2.0	662	**2KJ4540 - ■ EL33 - ■ ■ M1**	
1.5	**B.29-LEN90LJ4E**							
	114	126	12.63	3300	0.88	32	**2KJ4501 - ■ EN32 - ■ ■ N1**	
	126	114	11.46	3200	0.96	32	**2KJ4501 - ■ EN32 - ■ ■ M1**	
	134	107	10.78	3200	1.0	32	**2KJ4501 - ■ EN32 - ■ ■ L1**	
	151	95	9.51	3200	1.2	32	**2KJ4501 - ■ EN32 - ■ ■ K1**	
	175	82	8.25	3100	1.3	32	**2KJ4501 - ■ EN32 - ■ ■ J1**	
	184	78	7.84	3000	0.96	32	**2KJ4501 - ■ EN32 - ■ ■ H1**	
	195	73	7.38	3000	1.0	32	**2KJ4501 - ■ EN32 - ■ ■ G1**	
	221	65	6.51	2900	1.2	32	**2KJ4501 - ■ EN32 - ■ ■ F1**	
	255	56	5.65	2800	1.3	32	**2KJ4501 - ■ EN32 - ■ ■ E1**	
	284	50	5.07	2800	1.5	32	**2KJ4501 - ■ EN32 - ■ ■ D1**	
	301	48	4.78	2800	1.6	32	**2KJ4501 - ■ EN32 - ■ ■ C1**	
	342	42	4.21	2700	1.8	32	**2KJ4501 - ■ EN32 - ■ ■ B1**	
	395	36	3.65	2600	2.0	32	**2KJ4501 - ■ EN32 - ■ ■ A1**	
	B.29-LEN90LR4P							
	114	126	12.63	3300	0.88	21	**2KJ4501 - ■ EN33 - ■ ■ N1**	
	126	114	11.46	3200	0.96	21	**2KJ4501 - ■ EN33 - ■ ■ M1**	
	134	107	10.78	3200	1.0	21	**2KJ4501 - ■ EN33 - ■ ■ L1**	
	151	95	9.51	3200	1.2	21	**2KJ4501 - ■ EN33 - ■ ■ K1**	
	175	82	8.25	3100	1.3	21	**2KJ4501 - ■ EN33 - ■ ■ J1**	
	184	78	7.84	3000	0.96	21	**2KJ4501 - ■ EN33 - ■ ■ H1**	
	195	73	7.38	3000	1.0	21	**2KJ4501 - ■ EN33 - ■ ■ G1**	
	221	65	6.51	2900	1.2	21	**2KJ4501 - ■ EN33 - ■ ■ F1**	
	255	56	5.65	2800	1.3	21	**2KJ4501 - ■ EN33 - ■ ■ E1**	
	284	50	5.07	2800	1.5	21	**2KJ4501 - ■ EN33 - ■ ■ D1**	
	301	48	4.78	2800	1.6	21	**2KJ4501 - ■ EN33 - ■ ■ C1**	
	342	42	4.21	2700	1.8	21	**2KJ4501 - ■ EN33 - ■ ■ B1**	
	395	36	3.65	2600	2.0	21	**2KJ4501 - ■ EN33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**B.39-LEN90LJ4E**							
	46	305	31.11	6900	0.81	37	**2KJ4502 - ■ EN32 - ■ ■ T1**	
	52	270	27.50	6900	0.91	37	**2KJ4502 - ■ EN32 - ■ ■ S1**	
	58	245	25.00	6900	1.0	37	**2KJ4502 - ■ EN32 - ■ ■ R1**	
	66	215	21.90	6900	1.1	37	**2KJ4502 - ■ EN32 - ■ ■ Q1**	
	71	200	20.21	6900	1.2	37	**2KJ4502 - ■ EN32 - ■ ■ P1**	
	80	178	17.90	6700	1.4	37	**2KJ4502 - ■ EN32 - ■ ■ N1**	
	97	148	14.90	6400	1.7	37	**2KJ4502 - ■ EN32 - ■ ■ M1**	
	103	139	14.02	6400	1.8	37	**2KJ4502 - ■ EN32 - ■ ■ L1**	
	115	125	12.56	6200	2.0	37	**2KJ4502 - ■ EN32 - ■ ■ K1**	
	135	106	10.69	6000	2.3	37	**2KJ4502 - ■ EN32 - ■ ■ J1**	
	157	91	9.17	5700	2.5	37	**2KJ4502 - ■ EN32 - ■ ■ H1**	
	183	78	7.89	5500	2.8	37	**2KJ4502 - ■ EN32 - ■ ■ G1**	
	218	66	6.60	5300	3.0	37	**2KJ4502 - ■ EN32 - ■ ■ F1**	
	232	62	6.21	5200	3.2	37	**2KJ4502 - ■ EN32 - ■ ■ E1**	
	259	55	5.56	5100	3.6	37	**2KJ4502 - ■ EN32 - ■ ■ D1**	
	304	47	4.74	4800	4.2	37	**2KJ4502 - ■ EN32 - ■ ■ C1**	
	355	40	4.06	4600	5.0	37	**2KJ4502 - ■ EN32 - ■ ■ B1**	
	411	35	3.50	4400	5.5	37	**2KJ4502 - ■ EN32 - ■ ■ A1**	
	B.39-LEN90LR4P							
	46	305	31.11	6900	0.81	26	**2KJ4502 - ■ EN33 - ■ ■ T1**	
	52	270	27.50	6900	0.91	26	**2KJ4502 - ■ EN33 - ■ ■ S1**	
	58	245	25.00	6900	1.0	26	**2KJ4502 - ■ EN33 - ■ ■ R1**	
	66	215	21.90	6900	1.1	26	**2KJ4502 - ■ EN33 - ■ ■ Q1**	
	71	200	20.21	6900	1.2	26	**2KJ4502 - ■ EN33 - ■ ■ P1**	
	80	178	17.90	6700	1.4	26	**2KJ4502 - ■ EN33 - ■ ■ N1**	
	97	148	14.90	6400	1.7	26	**2KJ4502 - ■ EN33 - ■ ■ M1**	
	103	139	14.02	6400	1.8	26	**2KJ4502 - ■ EN33 - ■ ■ L1**	
	115	125	12.56	6200	2.0	26	**2KJ4502 - ■ EN33 - ■ ■ K1**	
	135	106	10.69	6000	2.3	26	**2KJ4502 - ■ EN33 - ■ ■ J1**	
	157	91	9.17	5700	2.5	26	**2KJ4502 - ■ EN33 - ■ ■ H1**	
	183	78	7.89	5500	2.8	26	**2KJ4502 - ■ EN33 - ■ ■ G1**	
	218	66	6.60	5300	3.0	26	**2KJ4502 - ■ EN33 - ■ ■ F1**	
	232	62	6.21	5200	3.2	26	**2KJ4502 - ■ EN33 - ■ ■ E1**	
	259	55	5.56	5100	3.6	26	**2KJ4502 - ■ EN33 - ■ ■ D1**	
	304	47	4.74	4800	4.2	26	**2KJ4502 - ■ EN33 - ■ ■ C1**	
	355	40	4.06	4600	5.0	26	**2KJ4502 - ■ EN33 - ■ ■ B1**	
	411	35	3.50	4400	5.5	26	**2KJ4502 - ■ EN33 - ■ ■ A1**	
	K.39-LEN90LJ4E							
	52	275	27.70	4200	0.8	38	**2KJ4504 - ■ EN32 - ■ ■ R1**	
	54	265	26.89	4300	0.82	38	**2KJ4504 - ■ EN32 - ■ ■ Q1**	
	60	235	23.97	4300	0.92	38	**2KJ4504 - ■ EN32 - ■ ■ P1**	
	65	220	22.12	4200	1.0	38	**2KJ4504 - ■ EN32 - ■ ■ N1**	
	74	193	19.37	4200	1.1	38	**2KJ4504 - ■ EN32 - ■ ■ M1**	
	85	169	16.98	4200	1.3	38	**2KJ4504 - ■ EN32 - ■ ■ L1**	
	93	153	15.41	4100	1.4	38	**2KJ4504 - ■ EN32 - ■ ■ K1**	
	99	144	14.50	4100	1.5	38	**2KJ4504 - ■ EN32 - ■ ■ J1**	
	113	127	12.78	4000	1.7	38	**2KJ4504 - ■ EN32 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**K.39-LEN90LJ4E**							
	130	110	11.09	3900	2.0	38	**2KJ4504 - ■ EN32 - ■ ■ G1**	
	143	100	10.04	3700	1.8	38	**2KJ4504 - ■ EN32 - ■ ■ F1**	
	163	88	8.81	3700	2.1	38	**2KJ4504 - ■ EN32 - ■ ■ E1**	
	180	80	7.99	3600	2.2	38	**2KJ4504 - ■ EN32 - ■ ■ D1**	
	191	75	7.52	3600	2.3	38	**2KJ4504 - ■ EN32 - ■ ■ C1**	
	217	66	6.63	3500	2.4	38	**2KJ4504 - ■ EN32 - ■ ■ B1**	
	250	57	5.75	3400	2.6	38	**2KJ4504 - ■ EN32 - ■ ■ A1**	
	K.39-LEN90LR4P							
	52	275	27.70	4200	0.8	27	**2KJ4504 - ■ EN33 - ■ ■ R1**	
	54	265	26.89	4300	0.82	27	**2KJ4504 - ■ EN33 - ■ ■ Q1**	
	60	235	23.97	4300	0.92	27	**2KJ4504 - ■ EN33 - ■ ■ P1**	
	65	220	22.12	4200	1.0	27	**2KJ4504 - ■ EN33 - ■ ■ N1**	
	74	193	19.37	4200	1.1	27	**2KJ4504 - ■ EN33 - ■ ■ M1**	
	85	169	16.98	4200	1.3	27	**2KJ4504 - ■ EN33 - ■ ■ L1**	
	93	153	15.41	4100	1.4	27	**2KJ4504 - ■ EN33 - ■ ■ K1**	
	99	144	14.50	4100	1.5	27	**2KJ4504 - ■ EN33 - ■ ■ J1**	
	113	127	12.78	4000	1.7	27	**2KJ4504 - ■ EN33 - ■ ■ H1**	
	130	110	11.09	3900	2.0	27	**2KJ4504 - ■ EN33 - ■ ■ G1**	
	143	100	10.04	3700	1.8	27	**2KJ4504 - ■ EN33 - ■ ■ F1**	
	163	88	8.81	3700	2.1	27	**2KJ4504 - ■ EN33 - ■ ■ E1**	
	180	80	7.99	3600	2.2	27	**2KJ4504 - ■ EN33 - ■ ■ D1**	
	191	75	7.52	3600	2.3	27	**2KJ4504 - ■ EN33 - ■ ■ C1**	
	217	66	6.63	3500	2.4	27	**2KJ4504 - ■ EN33 - ■ ■ B1**	
	250	57	5.75	3400	2.6	27	**2KJ4504 - ■ EN33 - ■ ■ A1**	
	B.49-LEN90LJ4E							
	27	535	53.89	8500	0.84	42	**2KJ4503 - ■ EN32 - ■ ■ B2**	
	31	455	45.83	8400	0.99	42	**2KJ4503 - ■ EN32 - ■ ■ A2**	
	35	415	41.67	8300	1.1	42	**2KJ4503 - ■ EN32 - ■ ■ X1**	
	39	370	37.18	8200	1.2	42	**2KJ4503 - ■ EN32 - ■ ■ W1**	
	43	330	33.33	8100	1.4	42	**2KJ4503 - ■ EN32 - ■ ■ V1**	
	48	295	30.05	8000	1.5	42	**2KJ4503 - ■ EN32 - ■ ■ U1**	
	52	275	27.74	7900	1.6	42	**2KJ4503 - ■ EN32 - ■ ■ T1**	
	57	250	25.32	7700	1.8	42	**2KJ4503 - ■ EN32 - ■ ■ S1**	
	69	205	21.01	7500	2.2	42	**2KJ4503 - ■ EN32 - ■ ■ R1**	
	73	197	19.77	7300	2.3	42	**2KJ4503 - ■ EN32 - ■ ■ Q1**	
	77	186	18.67	7200	2.4	42	**2KJ4503 - ■ EN32 - ■ ■ P1**	
	91	158	15.89	7000	2.8	42	**2KJ4503 - ■ EN32 - ■ ■ N1**	
	106	135	13.61	6700	3.3	42	**2KJ4503 - ■ EN32 - ■ ■ M1**	
	174	82	8.29	6000	4.0	42	**2KJ4503 - ■ EN32 - ■ ■ H1**	
	185	78	7.80	5900	4.3	42	**2KJ4503 - ■ EN32 - ■ ■ G1**	
	B.49-LEN90LR4P							
	27	535	53.89	8500	0.84	31	**2KJ4503 - ■ EN33 - ■ ■ B2**	
	31	455	45.83	8400	0.99	31	**2KJ4503 - ■ EN33 - ■ ■ A2**	
	35	415	41.67	8300	1.1	31	**2KJ4503 - ■ EN33 - ■ ■ X1**	
	39	370	37.18	8200	1.2	31	**2KJ4503 - ■ EN33 - ■ ■ W1**	
	43	330	33.33	8100	1.4	31	**2KJ4503 - ■ EN33 - ■ ■ V1**	
	48	295	30.05	8000	1.5	31	**2KJ4503 - ■ EN33 - ■ ■ U1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**B.49-LEN90LR4P**							
	52	275	27.74	7900	1.6	31	**2KJ4503 - ■ EN33 - ■ ■ T1**	
	57	250	25.32	7700	1.8	31	**2KJ4503 - ■ EN33 - ■ ■ S1**	
	69	205	21.01	7500	2.2	31	**2KJ4503 - ■ EN33 - ■ ■ R1**	
	73	197	19.77	7300	2.3	31	**2KJ4503 - ■ EN33 - ■ ■ Q1**	
	77	186	18.67	7200	2.4	31	**2KJ4503 - ■ EN33 - ■ ■ P1**	
	91	158	15.89	7000	2.8	31	**2KJ4503 - ■ EN33 - ■ ■ N1**	
	106	135	13.61	6700	3.3	31	**2KJ4503 - ■ EN33 - ■ ■ M1**	
	174	82	8.29	6000	4.0	31	**2KJ4503 - ■ EN33 - ■ ■ H1**	
	185	78	7.80	5900	4.3	31	**2KJ4503 - ■ EN33 - ■ ■ G1**	
	K.49-LEN90LJ4E							
	27	525	52.93	4800	0.8	44	**2KJ4505 - ■ EN32 - ■ ■ V1**	
	29	495	49.82	4900	0.85	44	**2KJ4505 - ■ EN32 - ■ ■ U1**	
	32	440	44.63	5000	0.95	44	**2KJ4505 - ■ EN32 - ■ ■ T1**	
	38	375	38.00	5100	1.1	44	**2KJ4505 - ■ EN32 - ■ ■ S1**	
	44	320	32.57	5100	1.3	44	**2KJ4505 - ■ EN32 - ■ ■ R1**	
	51	275	28.05	5100	1.5	44	**2KJ4505 - ■ EN32 - ■ ■ Q1**	
	55	260	26.30	5000	1.6	44	**2KJ4505 - ■ EN32 - ■ ■ P1**	
	62	230	23.28	5000	1.8	44	**2KJ4505 - ■ EN32 - ■ ■ N1**	
	74	193	19.38	4900	2.2	44	**2KJ4505 - ■ EN32 - ■ ■ M1**	
	79	181	18.24	4800	2.3	44	**2KJ4505 - ■ EN32 - ■ ■ L1**	
	88	163	16.34	4800	2.6	44	**2KJ4505 - ■ EN32 - ■ ■ K1**	
	104	138	13.91	4600	3.0	44	**2KJ4505 - ■ EN32 - ■ ■ J1**	
	121	119	11.93	4500	3.5	44	**2KJ4505 - ■ EN32 - ■ ■ H1**	
	148	97	9.75	4300	2.8	44	**2KJ4505 - ■ EN32 - ■ ■ F1**	
	157	91	9.18	4200	3.0	44	**2KJ4505 - ■ EN32 - ■ ■ E1**	
	175	82	8.22	4100	3.1	44	**2KJ4505 - ■ EN32 - ■ ■ D1**	
	206	70	7.00	3900	3.4	44	**2KJ4505 - ■ EN32 - ■ ■ C1**	
	240	60	6.00	3800	3.8	44	**2KJ4505 - ■ EN32 - ■ ■ B1**	
	279	51	5.17	3700	4.1	44	**2KJ4505 - ■ EN32 - ■ ■ A1**	
	K.49-LEN90LR4P							
	27	525	52.93	4800	0.8	33	**2KJ4505 - ■ EN33 - ■ ■ V1**	
	29	495	49.82	4900	0.85	33	**2KJ4505 - ■ EN33 - ■ ■ U1**	
	32	440	44.63	5000	0.95	33	**2KJ4505 - ■ EN33 - ■ ■ T1**	
	38	375	38.00	5100	1.1	33	**2KJ4505 - ■ EN33 - ■ ■ S1**	
	44	320	32.57	5100	1.3	33	**2KJ4505 - ■ EN33 - ■ ■ R1**	
	51	275	28.05	5100	1.5	33	**2KJ4505 - ■ EN33 - ■ ■ Q1**	
	55	260	26.30	5000	1.6	33	**2KJ4505 - ■ EN33 - ■ ■ P1**	
	62	230	23.28	5000	1.8	33	**2KJ4505 - ■ EN33 - ■ ■ N1**	
	74	193	19.38	4900	2.2	33	**2KJ4505 - ■ EN33 - ■ ■ M1**	
	79	181	18.24	4800	2.3	33	**2KJ4505 - ■ EN33 - ■ ■ L1**	
	88	163	16.34	4800	2.6	33	**2KJ4505 - ■ EN33 - ■ ■ K1**	
	104	138	13.91	4600	3.0	33	**2KJ4505 - ■ EN33 - ■ ■ J1**	
	121	119	11.93	4500	3.5	33	**2KJ4505 - ■ EN33 - ■ ■ H1**	
	148	97	9.75	4300	2.8	33	**2KJ4505 - ■ EN33 - ■ ■ F1**	
	157	91	9.18	4200	3.0	33	**2KJ4505 - ■ EN33 - ■ ■ E1**	
	175	82	8.22	4100	3.1	33	**2KJ4505 - ■ EN33 - ■ ■ D1**	
	206	70	7.00	3900	3.4	33	**2KJ4505 - ■ EN33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**K.49-LEN90LR4P**							
	240	60	6.00	3800	3.8	33	**2KJ4505 - ■ EN33 - ■ ■ B1**	
	279	51	5.17	3700	4.1	33	**2KJ4505 - ■ EN33 - ■ ■ A1**	
	K.69-LEN90LJ4E							
	21	690	69.67	8600	0.87	51	**2KJ4507 - ■ EN32 - ■ ■ W1**	
	22	650	65.57	8700	0.92	51	**2KJ4507 - ■ EN32 - ■ ■ V1**	
	23	615	61.93	8700	0.97	51	**2KJ4507 - ■ EN32 - ■ ■ U1**	
	27	520	52.69	8600	1.1	51	**2KJ4507 - ■ EN32 - ■ ■ T1**	
	32	445	45.14	8600	1.3	51	**2KJ4507 - ■ EN32 - ■ ■ S1**	
	36	395	39.69	8400	1.5	51	**2KJ4507 - ■ EN32 - ■ ■ R1**	
	43	330	33.48	8300	1.7	51	**2KJ4507 - ■ EN32 - ■ ■ Q1**	
	49	290	29.18	8100	1.9	51	**2KJ4507 - ■ EN32 - ■ ■ P1**	
	55	255	26.05	7900	2.3	51	**2KJ4507 - ■ EN32 - ■ ■ N1**	
	59	240	24.52	7900	2.4	51	**2KJ4507 - ■ EN32 - ■ ■ M1**	
	62	230	23.15	7700	2.5	51	**2KJ4507 - ■ EN32 - ■ ■ L1**	
	73	196	19.70	7500	2.8	51	**2KJ4507 - ■ EN32 - ■ ■ K1**	
	85	168	16.88	7200	3.2	51	**2KJ4507 - ■ EN32 - ■ ■ J1**	
	97	148	14.84	7000	3.5	51	**2KJ4507 - ■ EN32 - ■ ■ H1**	
	154	93	9.34	6100	4.0	51	**2KJ4507 - ■ EN32 - ■ ■ E1**	
	K.69-LEN90LR4P							
	21	690	69.67	8600	0.87	40	**2KJ4507 - ■ EN33 - ■ ■ W1**	
	22	650	65.57	8700	0.92	40	**2KJ4507 - ■ EN33 - ■ ■ V1**	
	23	615	61.93	8700	0.97	40	**2KJ4507 - ■ EN33 - ■ ■ U1**	
	27	520	52.69	8600	1.1	40	**2KJ4507 - ■ EN33 - ■ ■ T1**	
	32	445	45.14	8600	1.3	40	**2KJ4507 - ■ EN33 - ■ ■ S1**	
	36	395	39.69	8400	1.5	40	**2KJ4507 - ■ EN33 - ■ ■ R1**	
	43	330	33.48	8300	1.7	40	**2KJ4507 - ■ EN33 - ■ ■ Q1**	
	49	290	29.18	8100	1.9	40	**2KJ4507 - ■ EN33 - ■ ■ P1**	
	55	255	26.05	7900	2.3	40	**2KJ4507 - ■ EN33 - ■ ■ N1**	
	59	240	24.52	7900	2.4	40	**2KJ4507 - ■ EN33 - ■ ■ M1**	
	62	230	23.15	7700	2.5	40	**2KJ4507 - ■ EN33 - ■ ■ L1**	
	73	196	19.70	7500	2.8	40	**2KJ4507 - ■ EN33 - ■ ■ K1**	
	85	168	16.88	7200	3.2	40	**2KJ4507 - ■ EN33 - ■ ■ J1**	
	97	148	14.84	7000	3.5	40	**2KJ4507 - ■ EN33 - ■ ■ H1**	
	154	93	9.34	6100	4.0	40	**2KJ4507 - ■ EN33 - ■ ■ E1**	
	K.79-LEN90LJ4E							
	17	860	86.56	13800	0.95	56	**2KJ4508 - ■ EN32 - ■ ■ X1**	
	18	810	81.47	13900	1.0	56	**2KJ4508 - ■ EN32 - ■ ■ W1**	
	19	765	76.94	14000	1.1	56	**2KJ4508 - ■ EN32 - ■ ■ V1**	
	22	650	65.47	14300	1.3	56	**2KJ4508 - ■ EN32 - ■ ■ U1**	
	26	555	56.08	14400	1.5	56	**2KJ4508 - ■ EN32 - ■ ■ T1**	
	29	490	49.31	14400	1.7	56	**2KJ4508 - ■ EN32 - ■ ■ S1**	
	35	410	41.60	14400	1.9	56	**2KJ4508 - ■ EN32 - ■ ■ R1**	
	40	360	36.26	14400	2.1	56	**2KJ4508 - ■ EN32 - ■ ■ Q1**	
	44	325	32.78	14400	2.5	56	**2KJ4508 - ■ EN32 - ■ ■ P1**	
	K.79-LEN90LR4P							
	17	860	86.56	13800	0.95	45	**2KJ4508 - ■ EN33 - ■ ■ X1**	
	18	810	81.47	13900	1.0	45	**2KJ4508 - ■ EN33 - ■ ■ W1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**K.79-LEN90LR4P**							
	19	765	76.94	14000	1.1	45	**2KJ4508 - ■ EN33 - ■ ■ V1**	
	22	650	65.47	14300	1.3	45	**2KJ4508 - ■ EN33 - ■ ■ U1**	
	26	555	56.08	14400	1.5	45	**2KJ4508 - ■ EN33 - ■ ■ T1**	
	29	490	49.31	14400	1.7	45	**2KJ4508 - ■ EN33 - ■ ■ S1**	
	35	410	41.60	14400	1.9	45	**2KJ4508 - ■ EN33 - ■ ■ R1**	
	40	360	36.26	14400	2.1	45	**2KJ4508 - ■ EN33 - ■ ■ Q1**	
	44	325	32.78	14400	2.5	45	**2KJ4508 - ■ EN33 - ■ ■ P1**	
	K.89-LEN90LJ4E							
	7.6	1 880	189.01	18100	0.85	78	**2KJ4510 - ■ EN32 - ■ ■ H2**	
	8.5	1 690	169.94	18100	0.95	78	**2KJ4510 - ■ EN32 - ■ ■ G2**	
	9.4	1 520	153.70	18100	1.0	78	**2KJ4510 - ■ EN32 - ■ ■ F2**	
	10	1 410	141.88	18100	1.1	78	**2KJ4510 - ■ EN32 - ■ ■ E2**	
	11	1 290	129.96	18100	1.2	78	**2KJ4510 - ■ EN32 - ■ ■ D2**	
	13	1 080	109.04	18100	1.5	78	**2KJ4510 - ■ EN32 - ■ ■ C2**	
	14	1 020	102.63	18100	1.6	78	**2KJ4510 - ■ EN32 - ■ ■ B2**	
	15	935	94.16	18100	1.7	78	**2KJ4510 - ■ EN32 - ■ ■ A2**	
	18	815	82.25	18100	2.0	78	**2KJ4510 - ■ EN32 - ■ ■ X1**	
	20	730	73.64	18100	2.2	78	**2KJ4510 - ■ EN32 - ■ ■ W1**	
	K.89-LEN90LR4P							
	7.6	1 880	189.01	18100	0.85	67	**2KJ4510 - ■ EN33 - ■ ■ H2**	
	8.5	1 690	169.94	18100	0.95	67	**2KJ4510 - ■ EN33 - ■ ■ G2**	
	9.4	1 520	153.70	18100	1.0	67	**2KJ4510 - ■ EN33 - ■ ■ F2**	
	10	1 410	141.88	18100	1.1	67	**2KJ4510 - ■ EN33 - ■ ■ E2**	
	11	1 290	129.96	18100	1.2	67	**2KJ4510 - ■ EN33 - ■ ■ D2**	
	13	1 080	109.04	18100	1.5	67	**2KJ4510 - ■ EN33 - ■ ■ C2**	
	14	1 020	102.63	18100	1.6	67	**2KJ4510 - ■ EN33 - ■ ■ B2**	
	15	935	94.16	18100	1.7	67	**2KJ4510 - ■ EN33 - ■ ■ A2**	
	18	815	82.25	18100	2.0	67	**2KJ4510 - ■ EN33 - ■ ■ X1**	
	20	730	73.64	18100	2.2	67	**2KJ4510 - ■ EN33 - ■ ■ W1**	
	K.109-LEN90LJ4E							
	6.6	2 150	216.65	24500	1.3	115	**2KJ4511 - ■ EN32 - ■ ■ H2**	
	7.4	1 940	195.60	24500	1.5	115	**2KJ4511 - ■ EN32 - ■ ■ G2**	
	8.1	1 760	177.43	24500	1.6	115	**2KJ4511 - ■ EN32 - ■ ■ F2**	
	8.8	1 620	163.78	24500	1.8	115	**2KJ4511 - ■ EN32 - ■ ■ E2**	
	9.7	1 480	148.88	24500	2.0	115	**2KJ4511 - ■ EN32 - ■ ■ D2**	
	K.109-LEN90LR4P							
	6.6	2 150	216.65	24500	1.3	104	**2KJ4511 - ■ EN33 - ■ ■ H2**	
	7.4	1 940	195.60	24500	1.5	104	**2KJ4511 - ■ EN33 - ■ ■ G2**	
	8.1	1 760	177.43	24500	1.6	104	**2KJ4511 - ■ EN33 - ■ ■ F2**	
	8.8	1 620	163.78	24500	1.8	104	**2KJ4511 - ■ EN33 - ■ ■ E2**	
	9.7	1 480	148.88	24500	2.0	104	**2KJ4511 - ■ EN33 - ■ ■ D2**	
	K.129-LEN90LJ4E							
	6.3	2 270	228.30	39700	1.9	165	**2KJ4512 - ■ EN32 - ■ ■ J2**	
	6.8	2 090	210.74	39900	2.1	165	**2KJ4512 - ■ EN32 - ■ ■ H2**	
	K.129-LEN90LR4P							
	6.3	2 270	228.30	39700	1.9	154	**2KJ4512 - ■ EN33 - ■ ■ J2**	
	6.8	2 090	210.74	39900	2.1	154	**2KJ4512 - ■ EN33 - ■ ■ H2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**K.109-LEN100LK6E**							
	4.4	3 280	216.65	24500	0.88	123	**2KJ4511 - ■ FN32 - ■ ■ H2**	**P01**
	4.8	2 960	195.60	24500	0.98	123	**2KJ4511 - ■ FN32 - ■ ■ G2**	**P01**
	5.3	2 690	177.43	24500	1.1	123	**2KJ4511 - ■ FN32 - ■ ■ F2**	**P01**
	5.8	2 480	163.78	24500	1.2	123	**2KJ4511 - ■ FN32 - ■ ■ E2**	**P01**
	6.3	2 250	148.88	24500	1.3	123	**2KJ4511 - ■ FN32 - ■ ■ D2**	**P01**
	K.109-LEN100LV6P							
	4.4	3 280	216.65	24500	0.88	119	**2KJ4511 - ■ FN33 - ■ ■ H2**	**P01**
	4.8	2 960	195.60	24500	0.98	119	**2KJ4511 - ■ FN33 - ■ ■ G2**	**P01**
	5.3	2 690	177.43	24500	1.1	119	**2KJ4511 - ■ FN33 - ■ ■ F2**	**P01**
	5.8	2 480	163.78	24500	1.2	119	**2KJ4511 - ■ FN33 - ■ ■ E2**	**P01**
	6.3	2 250	148.88	24500	1.3	119	**2KJ4511 - ■ FN33 - ■ ■ D2**	**P01**
	K.129-LEN100LK6E							
	4.1	3 460	228.30	38500	1.3	174	**2KJ4512 - ■ FN32 - ■ ■ J2**	**P01**
	4.5	3 190	210.74	38800	1.4	174	**2KJ4512 - ■ FN32 - ■ ■ H2**	**P01**
	4.9	2 940	194.04	39000	1.5	174	**2KJ4512 - ■ FN32 - ■ ■ G2**	**P01**
	5.7	2 500	165.47	39400	1.8	174	**2KJ4512 - ■ FN32 - ■ ■ F2**	**P01**
	6.1	2 360	155.74	39600	1.9	174	**2KJ4512 - ■ FN32 - ■ ■ E2**	**P01**
	K.129-LEN100LV6P							
	4.1	3 460	228.30	38500	1.3	170	**2KJ4512 - ■ FN33 - ■ ■ J2**	**P01**
	4.5	3 190	210.74	38800	1.4	170	**2KJ4512 - ■ FN33 - ■ ■ H2**	**P01**
	4.9	2 940	194.04	39000	1.5	170	**2KJ4512 - ■ FN33 - ■ ■ G2**	**P01**
	5.7	2 500	165.47	39400	1.8	170	**2KJ4512 - ■ FN33 - ■ ■ F2**	**P01**
	6.1	2 360	155.74	39600	1.9	170	**2KJ4512 - ■ FN33 - ■ ■ E2**	**P01**
	K.109-Z39-LEN90LJ4E							
	4.0	3 350	361.00	24500	0.86	121	**2KJ4531 - ■ EN32 - ■ ■ D1**	
	4.7	2 860	307.54	24500	1.0	121	**2KJ4531 - ■ EN32 - ■ ■ C1**	
	5.5	2 450	263.61	24500	1.2	121	**2KJ4531 - ■ EN32 - ■ ■ B1**	
	6.3	2 110	227.00	24500	1.4	121	**2KJ4531 - ■ EN32 - ■ ■ A1**	
	K.109-Z39-LEN90LR4P							
	4.0	3 350	361.00	24500	0.86	110	**2KJ4531 - ■ EN33 - ■ ■ D1**	
	4.7	2 860	307.54	24500	1.0	110	**2KJ4531 - ■ EN33 - ■ ■ C1**	
	5.5	2 450	263.61	24500	1.2	110	**2KJ4531 - ■ EN33 - ■ ■ B1**	
	6.3	2 110	227.00	24500	1.4	110	**2KJ4531 - ■ EN33 - ■ ■ A1**	
	K.129-Z39-LEN90LJ4E							
	2.6	5 210	560.00	36800	0.84	172	**2KJ4533 - ■ EN32 - ■ ■ D1**	
	3.0	4 420	476.00	37600	0.99	172	**2KJ4533 - ■ EN32 - ■ ■ C1**	
	3.5	3 790	408.00	38200	1.2	172	**2KJ4533 - ■ EN32 - ■ ■ B1**	
	4.1	3 270	352.00	38700	1.3	172	**2KJ4533 - ■ EN32 - ■ ■ A1**	
	K.129-Z39-LEN90LR4P							
	2.6	5 210	560.00	36800	0.84	161	**2KJ4533 - ■ EN33 - ■ ■ D1**	
	3.0	4 420	476.00	37600	0.99	161	**2KJ4533 - ■ EN33 - ■ ■ C1**	
	3.5	3 790	408.00	38200	1.2	161	**2KJ4533 - ■ EN33 - ■ ■ B1**	
	4.1	3 270	352.00	38700	1.3	161	**2KJ4533 - ■ EN33 - ■ ■ A1**	
	K.149-Z49-LEN90LJ4E							
	1.5	8 860	953.00	65000	0.9	264	**2KJ4535 - ■ EN32 - ■ ■ L1**	
	1.7	7 790	838.00	65000	1.0	264	**2KJ4535 - ■ EN32 - ■ ■ K1**	
	2.0	6 570	707.00	65000	1.2	264	**2KJ4535 - ■ EN32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**K.149-Z49-LEN90LJ4E**							
	2.3	5 730	616.00	65000	1.4	264	**2KJ4535 - ■ EN32 - ■ ■ H1**	
	2.4	5 650	608.00	65000	1.4	264	**2KJ4535 - ■ EN32 - ■ ■ G1**	
	2.5	5 340	574.00	65000	1.5	264	**2KJ4535 - ■ EN32 - ■ ■ F1**	
	3.0	4 540	488.00	65000	1.8	264	**2KJ4535 - ■ EN32 - ■ ■ E1**	
	K.149-Z49-LEN90LR4P							
	1.5	8 860	953.00	65000	0.9	253	**2KJ4535 - ■ EN33 - ■ ■ L1**	
	1.7	7 790	838.00	65000	1.0	253	**2KJ4535 - ■ EN33 - ■ ■ K1**	
	2.0	6 570	707.00	65000	1.2	253	**2KJ4535 - ■ EN33 - ■ ■ J1**	
	2.3	5 730	616.00	65000	1.4	253	**2KJ4535 - ■ EN33 - ■ ■ H1**	
	2.4	5 650	608.00	65000	1.4	253	**2KJ4535 - ■ EN33 - ■ ■ G1**	
	2.5	5 340	574.00	65000	1.5	253	**2KJ4535 - ■ EN33 - ■ ■ F1**	
	3.0	4 540	488.00	65000	1.8	253	**2KJ4535 - ■ EN33 - ■ ■ E1**	
	K.169-Z49-LEN90LJ4E							
	0.86	15 500	1 675.00	70000	0.83	435	**2KJ4537 - ■ EN32 - ■ ■ N1**	
	1.0	13 300	1 435.00	70000	0.97	435	**2KJ4537 - ■ EN32 - ■ ■ M1**	
	1.1	11 700	1 261.00	70000	1.1	435	**2KJ4537 - ■ EN32 - ■ ■ L1**	
	1.4	9 890	1 064.00	70000	1.3	435	**2KJ4537 - ■ EN32 - ■ ■ K1**	
	1.6	8 510	915.00	70000	1.5	435	**2KJ4537 - ■ EN32 - ■ ■ H1**	
	1.6	8 620	927.00	70000	1.5	435	**2KJ4537 - ■ EN32 - ■ ■ J1**	
	1.7	8 030	864.00	70000	1.6	435	**2KJ4537 - ■ EN32 - ■ ■ G1**	
	2.0	6 830	735.00	70000	1.9	435	**2KJ4537 - ■ EN32 - ■ ■ F1**	
	K.169-Z49-LEN90LR4P							
	0.86	15 500	1 675.00	70000	0.83	424	**2KJ4537 - ■ EN33 - ■ ■ N1**	
	1.0	13 300	1 435.00	70000	0.97	424	**2KJ4537 - ■ EN33 - ■ ■ M1**	
	1.1	11 700	1 261.00	70000	1.1	424	**2KJ4537 - ■ EN33 - ■ ■ L1**	
	1.4	9 890	1 064.00	70000	1.3	424	**2KJ4537 - ■ EN33 - ■ ■ K1**	
	1.6	8 510	915.00	70000	1.5	424	**2KJ4537 - ■ EN33 - ■ ■ H1**	
	1.6	8 620	927.00	70000	1.5	424	**2KJ4537 - ■ EN33 - ■ ■ J1**	
	1.7	8 030	864.00	70000	1.6	424	**2KJ4537 - ■ EN33 - ■ ■ G1**	
	2.0	6 830	735.00	70000	1.9	424	**2KJ4537 - ■ EN33 - ■ ■ F1**	
	K.189-Z69-LEN90LJ4E							
	0.64	21 000	2 259.00	104000	0.93	676	**2KJ4540 - ■ EN32 - ■ ■ R1**	
	0.68	19 700	2 126.00	104000	0.99	676	**2KJ4540 - ■ EN32 - ■ ■ Q1**	
	0.72	18 600	2 008.00	104000	1.0	676	**2KJ4540 - ■ EN32 - ■ ■ P1**	
	0.84	15 800	1 709.00	104000	1.2	676	**2KJ4540 - ■ EN32 - ■ ■ N1**	
	0.98	13 600	1 464.00	104000	1.4	676	**2KJ4540 - ■ EN32 - ■ ■ M1**	
	1.1	11 900	1 287.00	104000	1.6	676	**2KJ4540 - ■ EN32 - ■ ■ L1**	
	1.3	10 100	1 086.00	104000	1.9	676	**2KJ4540 - ■ EN32 - ■ ■ K1**	
	K.189-Z69-LEN90LR4P							
	0.64	21 000	2 259.00	104000	0.93	665	**2KJ4540 - ■ EN33 - ■ ■ R1**	
	0.68	19 700	2 126.00	104000	0.99	665	**2KJ4540 - ■ EN33 - ■ ■ Q1**	
	0.72	18 600	2 008.00	104000	1.0	665	**2KJ4540 - ■ EN33 - ■ ■ P1**	
	0.84	15 800	1 709.00	104000	1.2	665	**2KJ4540 - ■ EN33 - ■ ■ N1**	
	0.98	13 600	1 464.00	104000	1.4	665	**2KJ4540 - ■ EN33 - ■ ■ M1**	
	1.1	11 900	1 287.00	104000	1.6	665	**2KJ4540 - ■ EN33 - ■ ■ L1**	
	1.3	10 100	1 086.00	104000	1.9	665	**2KJ4540 - ■ EN33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**B.29-LEN100LH4E**							
	174	121	8.25	2700	0.91	39	**2KJ4501 - ■ FM32 - ■ ■ J1**	
	254	83	5.65	2500	0.91	39	**2KJ4501 - ■ FM32 - ■ ■ E1**	
	283	74	5.07	2600	1.0	39	**2KJ4501 - ■ FM32 - ■ ■ D1**	
	300	70	4.78	2600	1.1	39	**2KJ4501 - ■ FM32 - ■ ■ C1**	
	341	62	4.21	2500	1.2	39	**2KJ4501 - ■ FM32 - ■ ■ B1**	
	393	53	3.65	2500	1.4	39	**2KJ4501 - ■ FM32 - ■ ■ A1**	
	B.29-LEN100LU4P							
	152	138	9.51	2800	0.8	36	**2KJ4501 - ■ FL33 - ■ ■ K1**	
	175	120	8.25	2700	0.92	36	**2KJ4501 - ■ FL33 - ■ ■ J1**	
	256	82	5.65	2500	0.91	36	**2KJ4501 - ■ FL33 - ■ ■ E1**	
	285	74	5.07	2600	1.0	36	**2KJ4501 - ■ FL33 - ■ ■ D1**	
	302	70	4.78	2600	1.1	36	**2KJ4501 - ■ FL33 - ■ ■ C1**	
	343	61	4.21	2500	1.2	36	**2KJ4501 - ■ FL33 - ■ ■ B1**	
	396	53	3.65	2400	1.4	36	**2KJ4501 - ■ FL33 - ■ ■ A1**	
	B.39-LEN100LH4E							
	71	295	20.21	6100	0.84	44	**2KJ4502 - ■ FM32 - ■ ■ P1**	
	80	260	17.90	6100	0.95	44	**2KJ4502 - ■ FM32 - ■ ■ N1**	
	96	215	14.90	5900	1.1	44	**2KJ4502 - ■ FM32 - ■ ■ M1**	
	102	205	14.02	5900	1.2	44	**2KJ4502 - ■ FM32 - ■ ■ L1**	
	114	184	12.56	5700	1.4	44	**2KJ4502 - ■ FM32 - ■ ■ K1**	
	134	157	10.69	5600	1.5	44	**2KJ4502 - ■ FM32 - ■ ■ J1**	
	156	134	9.17	5400	1.7	44	**2KJ4502 - ■ FM32 - ■ ■ H1**	
	182	116	7.89	5200	1.9	44	**2KJ4502 - ■ FM32 - ■ ■ G1**	
	217	97	6.60	5100	2.1	44	**2KJ4502 - ■ FM32 - ■ ■ F1**	
	231	91	6.21	5000	2.2	44	**2KJ4502 - ■ FM32 - ■ ■ E1**	
	258	81	5.56	4900	2.5	44	**2KJ4502 - ■ FM32 - ■ ■ D1**	
	303	69	4.74	4700	2.9	44	**2KJ4502 - ■ FM32 - ■ ■ C1**	
	353	59	4.06	4500	3.4	44	**2KJ4502 - ■ FM32 - ■ ■ B1**	
	410	51	3.50	4300	3.7	44	**2KJ4502 - ■ FM32 - ■ ■ A1**	
	B.39-LEN100LU4P							
	71	290	20.21	6200	0.85	41	**2KJ4502 - ■ FL33 - ■ ■ P1**	
	81	260	17.90	6000	0.96	41	**2KJ4502 - ■ FL33 - ■ ■ N1**	
	97	215	14.90	5900	1.2	41	**2KJ4502 - ■ FL33 - ■ ■ M1**	
	103	200	14.02	5900	1.2	41	**2KJ4502 - ■ FL33 - ■ ■ L1**	
	115	183	12.56	5700	1.4	41	**2KJ4502 - ■ FL33 - ■ ■ K1**	
	135	155	10.69	5600	1.5	41	**2KJ4502 - ■ FL33 - ■ ■ J1**	
	158	133	9.17	5400	1.7	41	**2KJ4502 - ■ FL33 - ■ ■ H1**	
	183	115	7.89	5200	1.9	41	**2KJ4502 - ■ FL33 - ■ ■ G1**	
	219	96	6.60	5100	2.1	41	**2KJ4502 - ■ FL33 - ■ ■ F1**	
	233	90	6.21	5000	2.2	41	**2KJ4502 - ■ FL33 - ■ ■ E1**	
	260	81	5.56	4900	2.5	41	**2KJ4502 - ■ FL33 - ■ ■ D1**	
	305	69	4.74	4700	2.9	41	**2KJ4502 - ■ FL33 - ■ ■ C1**	
	356	59	4.06	4500	3.4	41	**2KJ4502 - ■ FL33 - ■ ■ B1**	
	413	51	3.50	4300	3.8	41	**2KJ4502 - ■ FL33 - ■ ■ A1**	
	K.39-LEN100LH4E							
	85	245	16.98	3500	0.88	44	**2KJ4504 - ■ FM32 - ■ ■ L1**	
	93	225	15.41	3500	0.98	44	**2KJ4504 - ■ FM32 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**K.39-LEN100LH4E**							
	99	210	14.50	3500	1.0	44	**2KJ4504 - ■ FM32 - ■ ■ J1**	
	112	187	12.78	3500	1.2	44	**2KJ4504 - ■ FM32 - ■ ■ H1**	
	129	162	11.09	3500	1.4	44	**2KJ4504 - ■ FM32 - ■ ■ G1**	
	143	147	10.04	3200	1.3	44	**2KJ4504 - ■ FM32 - ■ ■ F1**	
	163	129	8.81	3200	1.4	44	**2KJ4504 - ■ FM32 - ■ ■ E1**	
	180	117	7.99	3200	1.5	44	**2KJ4504 - ■ FM32 - ■ ■ D1**	
	191	110	7.52	3200	1.6	44	**2KJ4504 - ■ FM32 - ■ ■ C1**	
	216	97	6.63	3100	1.7	44	**2KJ4504 - ■ FM32 - ■ ■ B1**	
	250	84	5.75	3100	1.8	44	**2KJ4504 - ■ FM32 - ■ ■ A1**	
	K.39-LEN100LU4P							
	85	245	16.98	3500	0.89	41	**2KJ4504 - ■ FL33 - ■ ■ L1**	
	94	220	15.41	3500	0.98	41	**2KJ4504 - ■ FL33 - ■ ■ K1**	
	100	210	14.50	3500	1.0	41	**2KJ4504 - ■ FL33 - ■ ■ J1**	
	113	186	12.78	3500	1.2	41	**2KJ4504 - ■ FL33 - ■ ■ H1**	
	130	161	11.09	3500	1.4	41	**2KJ4504 - ■ FL33 - ■ ■ G1**	
	144	146	10.04	3200	1.3	41	**2KJ4504 - ■ FL33 - ■ ■ F1**	
	164	128	8.81	3200	1.4	41	**2KJ4504 - ■ FL33 - ■ ■ E1**	
	181	116	7.99	3200	1.5	41	**2KJ4504 - ■ FL33 - ■ ■ D1**	
	192	109	7.52	3200	1.6	41	**2KJ4504 - ■ FL33 - ■ ■ C1**	
	218	96	6.63	3100	1.7	41	**2KJ4504 - ■ FL33 - ■ ■ B1**	
	251	84	5.75	3100	1.8	41	**2KJ4504 - ■ FL33 - ■ ■ A1**	
	B.49-LEN100LH4E							
	39	540	37.18	7100	0.83	51	**2KJ4503 - ■ FM32 - ■ ■ W1**	
	43	485	33.33	7100	0.92	51	**2KJ4503 - ■ FM32 - ■ ■ V1**	
	48	440	30.05	7000	1.0	51	**2KJ4503 - ■ FM32 - ■ ■ U1**	
	52	405	27.74	7000	1.1	51	**2KJ4503 - ■ FM32 - ■ ■ T1**	
	57	370	25.32	6900	1.2	51	**2KJ4503 - ■ FM32 - ■ ■ S1**	
	68	305	21.01	6800	1.5	51	**2KJ4503 - ■ FM32 - ■ ■ R1**	
	73	285	19.77	6800	1.6	51	**2KJ4503 - ■ FM32 - ■ ■ Q1**	
	77	270	18.67	6700	1.6	51	**2KJ4503 - ■ FM32 - ■ ■ P1**	
	90	230	15.89	6500	1.9	51	**2KJ4503 - ■ FM32 - ■ ■ N1**	
	105	199	13.61	6300	2.3	51	**2KJ4503 - ■ FM32 - ■ ■ M1**	
	120	175	11.97	6200	2.6	51	**2KJ4503 - ■ FM32 - ■ ■ L1**	
	142	148	10.10	5900	3.0	51	**2KJ4503 - ■ FM32 - ■ ■ K1**	
	163	129	8.80	5700	3.5	51	**2KJ4503 - ■ FM32 - ■ ■ J1**	
	173	121	8.29	5800	2.7	51	**2KJ4503 - ■ FM32 - ■ ■ H1**	
	184	114	7.80	5700	2.9	51	**2KJ4503 - ■ FM32 - ■ ■ G1**	
	195	108	7.37	5600	3.1	51	**2KJ4503 - ■ FM32 - ■ ■ F1**	
	229	92	6.27	5300	3.6	51	**2KJ4503 - ■ FM32 - ■ ■ E1**	
	267	79	5.37	5100	4.2	51	**2KJ4503 - ■ FM32 - ■ ■ D1**	
	304	69	4.72	4900	4.8	51	**2KJ4503 - ■ FM32 - ■ ■ C1**	
	B.49-LEN100LU4P							
	39	540	37.18	7100	0.83	48	**2KJ4503 - ■ FL33 - ■ ■ W1**	
	43	485	33.33	7100	0.93	48	**2KJ4503 - ■ FL33 - ■ ■ V1**	
	48	435	30.05	7000	1.0	48	**2KJ4503 - ■ FL33 - ■ ■ U1**	
	52	400	27.74	7000	1.1	48	**2KJ4503 - ■ FL33 - ■ ■ T1**	
	57	365	25.32	7000	1.2	48	**2KJ4503 - ■ FL33 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**B.49-LEN100LU4P**							
	69	305	21.01	6800	1.5	48	**2KJ4503 - ■ FL33 - ■ ■ R1**	
	73	285	19.77	6700	1.6	48	**2KJ4503 - ■ FL33 - ■ ■ Q1**	
	77	270	18.67	6700	1.7	48	**2KJ4503 - ■ FL33 - ■ ■ P1**	
	91	230	15.89	6500	1.9	48	**2KJ4503 - ■ FL33 - ■ ■ N1**	
	106	198	13.61	6300	2.3	48	**2KJ4503 - ■ FL33 - ■ ■ M1**	
	121	174	11.97	6100	2.6	48	**2KJ4503 - ■ FL33 - ■ ■ L1**	
	143	147	10.10	5900	3.1	48	**2KJ4503 - ■ FL33 - ■ ■ K1**	
	164	128	8.80	5700	3.5	48	**2KJ4503 - ■ FL33 - ■ ■ J1**	
	174	121	8.29	5700	2.7	48	**2KJ4503 - ■ FL33 - ■ ■ H1**	
	185	113	7.80	5700	2.9	48	**2KJ4503 - ■ FL33 - ■ ■ G1**	
	196	107	7.37	5600	3.1	48	**2KJ4503 - ■ FL33 - ■ ■ F1**	
	230	91	6.27	5300	3.6	48	**2KJ4503 - ■ FL33 - ■ ■ E1**	
	269	78	5.37	5100	4.2	48	**2KJ4503 - ■ FL33 - ■ ■ D1**	
	306	69	4.72	4900	4.8	48	**2KJ4503 - ■ FL33 - ■ ■ C1**	
	K.49-LEN100LH4E							
	44	475	32.57	3900	0.88	54	**2KJ4505 - ■ FM32 - ■ ■ R1**	
	51	410	28.05	4000	1.0	54	**2KJ4505 - ■ FM32 - ■ ■ Q1**	
	55	385	26.30	4100	1.1	54	**2KJ4505 - ■ FM32 - ■ ■ P1**	
	62	340	23.28	4100	1.2	54	**2KJ4505 - ■ FM32 - ■ ■ N1**	
	74	280	19.38	4200	1.5	54	**2KJ4505 - ■ FM32 - ■ ■ M1**	
	79	265	18.24	4200	1.6	54	**2KJ4505 - ■ FM32 - ■ ■ L1**	
	88	235	16.34	4200	1.8	54	**2KJ4505 - ■ FM32 - ■ ■ K1**	
	103	200	13.91	4200	2.1	54	**2KJ4505 - ■ FM32 - ■ ■ J1**	
	120	175	11.93	4100	2.4	54	**2KJ4505 - ■ FM32 - ■ ■ H1**	
	140	150	10.27	4000	2.8	54	**2KJ4505 - ■ FM32 - ■ ■ G1**	
	147	143	9.75	3900	1.9	54	**2KJ4505 - ■ FM32 - ■ ■ F1**	
	156	134	9.18	3800	2.0	54	**2KJ4505 - ■ FM32 - ■ ■ E1**	
	175	120	8.22	3800	2.1	54	**2KJ4505 - ■ FM32 - ■ ■ D1**	
	205	102	7.00	3700	2.3	54	**2KJ4505 - ■ FM32 - ■ ■ C1**	
	239	88	6.00	3600	2.6	54	**2KJ4505 - ■ FM32 - ■ ■ B1**	
	278	76	5.17	3500	2.8	54	**2KJ4505 - ■ FM32 - ■ ■ A1**	
	K.49-LEN100LU4P							
	44	470	32.57	3900	0.89	51	**2KJ4505 - ■ FL33 - ■ ■ R1**	
	52	405	28.05	4100	1.0	51	**2KJ4505 - ■ FL33 - ■ ■ Q1**	
	55	380	26.30	4100	1.1	51	**2KJ4505 - ■ FL33 - ■ ■ P1**	
	62	335	23.28	4200	1.2	51	**2KJ4505 - ■ FL33 - ■ ■ N1**	
	75	280	19.38	4200	1.5	51	**2KJ4505 - ■ FL33 - ■ ■ M1**	
	79	265	18.24	4200	1.6	51	**2KJ4505 - ■ FL33 - ■ ■ L1**	
	88	235	16.34	4200	1.8	51	**2KJ4505 - ■ FL33 - ■ ■ K1**	
	104	200	13.91	4100	2.1	51	**2KJ4505 - ■ FL33 - ■ ■ J1**	
	121	173	11.93	4100	2.4	51	**2KJ4505 - ■ FL33 - ■ ■ H1**	
	141	149	10.27	4000	2.8	51	**2KJ4505 - ■ FL33 - ■ ■ G1**	
	148	142	9.75	3900	1.9	51	**2KJ4505 - ■ FL33 - ■ ■ F1**	
	157	133	9.18	3800	2.0	51	**2KJ4505 - ■ FL33 - ■ ■ E1**	
	176	120	8.22	3800	2.1	51	**2KJ4505 - ■ FL33 - ■ ■ D1**	
	206	102	7.00	3700	2.4	51	**2KJ4505 - ■ FL33 - ■ ■ C1**	
	241	87	6.00	3600	2.6	51	**2KJ4505 - ■ FL33 - ■ ■ B1**	
	279	75	5.17	3500	2.8	51	**2KJ4505 - ■ FL33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**K.69-LEN100LH4E**							
	32	660	45.14	7000	0.91	60	**2KJ4507 - ■ FM32 - ■ ■ S1**	
	36	580	39.69	7100	1.0	60	**2KJ4507 - ■ FM32 - ■ ■ R1**	
	43	490	33.48	7100	1.2	60	**2KJ4507 - ■ FM32 - ■ ■ Q1**	
	49	425	29.18	7100	1.3	60	**2KJ4507 - ■ FM32 - ■ ■ P1**	
	55	380	26.05	7100	1.6	60	**2KJ4507 - ■ FM32 - ■ ■ N1**	
	59	355	24.52	7000	1.7	60	**2KJ4507 - ■ FM32 - ■ ■ M1**	
	62	335	23.15	7000	1.7	60	**2KJ4507 - ■ FM32 - ■ ■ L1**	
	73	285	19.70	6900	1.9	60	**2KJ4507 - ■ FM32 - ■ ■ K1**	
	85	245	16.88	6700	2.1	60	**2KJ4507 - ■ FM32 - ■ ■ J1**	
	97	215	14.84	6600	2.4	60	**2KJ4507 - ■ FM32 - ■ ■ H1**	
	115	183	12.52	6300	2.7	60	**2KJ4507 - ■ FM32 - ■ ■ G1**	
	132	160	10.91	6200	2.9	60	**2KJ4507 - ■ FM32 - ■ ■ F1**	
	154	137	9.34	5700	2.7	60	**2KJ4507 - ■ FM32 - ■ ■ E1**	
	179	117	8.01	5500	3.1	60	**2KJ4507 - ■ FM32 - ■ ■ D1**	
	204	103	7.04	5400	3.5	60	**2KJ4507 - ■ FM32 - ■ ■ C1**	
	242	87	5.94	5200	4.0	60	**2KJ4507 - ■ FM32 - ■ ■ B1**	
	277	76	5.18	5000	4.4	60	**2KJ4507 - ■ FM32 - ■ ■ A1**	
	K.69-LEN100LU4P							
	32	655	45.14	7100	0.91	57	**2KJ4507 - ■ FL33 - ■ ■ S1**	
	36	575	39.69	7100	1.0	57	**2KJ4507 - ■ FL33 - ■ ■ R1**	
	43	485	33.48	7100	1.2	57	**2KJ4507 - ■ FL33 - ■ ■ Q1**	
	50	420	29.18	7100	1.3	57	**2KJ4507 - ■ FL33 - ■ ■ P1**	
	55	375	26.05	7100	1.6	57	**2KJ4507 - ■ FL33 - ■ ■ N1**	
	59	355	24.52	7000	1.7	57	**2KJ4507 - ■ FL33 - ■ ■ M1**	
	62	335	23.15	7000	1.7	57	**2KJ4507 - ■ FL33 - ■ ■ L1**	
	73	285	19.70	6800	1.9	57	**2KJ4507 - ■ FL33 - ■ ■ K1**	
	86	245	16.88	6700	2.2	57	**2KJ4507 - ■ FL33 - ■ ■ J1**	
	97	215	14.84	6500	2.4	57	**2KJ4507 - ■ FL33 - ■ ■ H1**	
	115	182	12.52	6300	2.7	57	**2KJ4507 - ■ FL33 - ■ ■ G1**	
	132	159	10.91	6100	3.0	57	**2KJ4507 - ■ FL33 - ■ ■ F1**	
	155	136	9.34	5700	2.7	57	**2KJ4507 - ■ FL33 - ■ ■ E1**	
	180	116	8.01	5500	3.1	57	**2KJ4507 - ■ FL33 - ■ ■ D1**	
	205	102	7.04	5400	3.6	57	**2KJ4507 - ■ FL33 - ■ ■ C1**	
	243	86	5.94	5200	4.0	57	**2KJ4507 - ■ FL33 - ■ ■ B1**	
	279	75	5.18	5000	4.4	57	**2KJ4507 - ■ FL33 - ■ ■ A1**	
	K.79-LEN100LH4E							
	22	955	65.47	13700	0.86	66	**2KJ4508 - ■ FM32 - ■ ■ U1**	
	26	820	56.08	13900	1.0	66	**2KJ4508 - ■ FM32 - ■ ■ T1**	
	29	720	49.31	14100	1.1	66	**2KJ4508 - ■ FM32 - ■ ■ S1**	
	34	605	41.60	14400	1.3	66	**2KJ4508 - ■ FM32 - ■ ■ R1**	
	40	530	36.26	14400	1.5	66	**2KJ4508 - ■ FM32 - ■ ■ Q1**	
	44	480	32.78	14400	1.7	66	**2KJ4508 - ■ FM32 - ■ ■ P1**	
	53	395	27.20	14400	2.0	66	**2KJ4508 - ■ FM32 - ■ ■ N1**	
	56	375	25.60	14400	2.1	66	**2KJ4508 - ■ FM32 - ■ ■ M1**	
	59	350	24.17	14400	2.2	66	**2KJ4508 - ■ FM32 - ■ ■ L1**	
	70	300	20.57	14400	2.5	66	**2KJ4508 - ■ FM32 - ■ ■ K1**	
	81	255	17.62	14400	2.8	66	**2KJ4508 - ■ FM32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**K.79-LEN100LH4E**							
	93	225	15.49	14400	3.1	66	**2KJ4508 - ■ FM32 - ■ ■ H1**	
	110	191	13.07	14400	3.5	66	**2KJ4508 - ■ FM32 - ■ ■ G1**	
	137	154	10.51	14400	2.9	66	**2KJ4508 - ■ FM32 - ■ ■ E1**	
	159	132	9.01	13900	3.4	66	**2KJ4508 - ■ FM32 - ■ ■ D1**	
	181	116	7.92	13400	3.9	66	**2KJ4508 - ■ FM32 - ■ ■ C1**	
	K.79-LEN100LU4P							
	22	950	65.47	13700	0.86	63	**2KJ4508 - ■ FL33 - ■ ■ U1**	
	26	815	56.08	13900	1.0	63	**2KJ4508 - ■ FL33 - ■ ■ T1**	
	29	715	49.31	14100	1.1	63	**2KJ4508 - ■ FL33 - ■ ■ S1**	
	35	605	41.60	14400	1.3	63	**2KJ4508 - ■ FL33 - ■ ■ R1**	
	40	525	36.26	14400	1.5	63	**2KJ4508 - ■ FL33 - ■ ■ Q1**	
	44	475	32.78	14400	1.7	63	**2KJ4508 - ■ FL33 - ■ ■ P1**	
	53	395	27.20	14400	2.0	63	**2KJ4508 - ■ FL33 - ■ ■ N1**	
	56	370	25.60	14400	2.1	63	**2KJ4508 - ■ FL33 - ■ ■ M1**	
	60	350	24.17	14400	2.2	63	**2KJ4508 - ■ FL33 - ■ ■ L1**	
	70	295	20.57	14400	2.5	63	**2KJ4508 - ■ FL33 - ■ ■ K1**	
	82	255	17.62	14400	2.8	63	**2KJ4508 - ■ FL33 - ■ ■ J1**	
	93	225	15.49	14400	3.1	63	**2KJ4508 - ■ FL33 - ■ ■ H1**	
	111	190	13.07	14400	3.5	63	**2KJ4508 - ■ FL33 - ■ ■ G1**	
	137	153	10.51	14400	2.9	63	**2KJ4508 - ■ FL33 - ■ ■ E1**	
	160	131	9.01	13800	3.4	63	**2KJ4508 - ■ FL33 - ■ ■ D1**	
	182	115	7.92	13400	3.9	63	**2KJ4508 - ■ FL33 - ■ ■ C1**	
	K.89-LEN100LH4E							
	11	1 900	129.96	18100	0.84	87	**2KJ4510 - ■ FM32 - ■ ■ D2**	
	13	1 590	109.04	18100	1.0	87	**2KJ4510 - ■ FM32 - ■ ■ C2**	
	14	1 500	102.63	18100	1.1	87	**2KJ4510 - ■ FM32 - ■ ■ B2**	
	15	1 370	94.16	18100	1.2	87	**2KJ4510 - ■ FM32 - ■ ■ A2**	
	17	1 200	82.25	18100	1.3	87	**2KJ4510 - ■ FM32 - ■ ■ X1**	
	19	1 070	73.64	18100	1.5	87	**2KJ4510 - ■ FM32 - ■ ■ W1**	
	22	940	64.39	18100	1.7	87	**2KJ4510 - ■ FM32 - ■ ■ V1**	
	26	805	55.27	18100	2.0	87	**2KJ4510 - ■ FM32 - ■ ■ U1**	
	29	715	48.85	18100	2.2	87	**2KJ4510 - ■ FM32 - ■ ■ T1**	
	35	605	41.54	18100	2.6	87	**2KJ4510 - ■ FM32 - ■ ■ S1**	
	K.89-LEN100LU4P							
	11	1 890	129.96	18100	0.85	84	**2KJ4510 - ■ FL33 - ■ ■ D2**	
	13	1 580	109.04	18100	1.0	84	**2KJ4510 - ■ FL33 - ■ ■ C2**	
	14	1 490	102.63	18100	1.1	84	**2KJ4510 - ■ FL33 - ■ ■ B2**	
	15	1 360	94.16	18100	1.2	84	**2KJ4510 - ■ FL33 - ■ ■ A2**	
	18	1 190	82.25	18100	1.3	84	**2KJ4510 - ■ FL33 - ■ ■ X1**	
	20	1 070	73.64	18100	1.5	84	**2KJ4510 - ■ FL33 - ■ ■ W1**	
	22	935	64.39	18100	1.7	84	**2KJ4510 - ■ FL33 - ■ ■ V1**	
	26	800	55.27	18100	2.0	84	**2KJ4510 - ■ FL33 - ■ ■ U1**	
	30	710	48.85	18100	2.3	84	**2KJ4510 - ■ FL33 - ■ ■ T1**	
	35	600	41.54	18100	2.6	84	**2KJ4510 - ■ FL33 - ■ ■ S1**	
	K.109-LEN100LH4E							
	6.6	3 170	216.65	24500	0.91	122	**2KJ4511 - ■ FM32 - ■ ■ H2**	
	7.3	2 860	195.60	24500	1.0	122	**2KJ4511 - ■ FM32 - ■ ■ G2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**K.109-LEN100LH4E**							
	8.1	2 590	177.43	24500	1.1	122	**2KJ4511 - ■ FM32 - ■ ■ F2**	
	8.8	2 390	163.78	24500	1.2	122	**2KJ4511 - ■ FM32 - ■ ■ E2**	
	9.6	2 180	148.88	24500	1.3	122	**2KJ4511 - ■ FM32 - ■ ■ D2**	
	11	1 840	126.07	24500	1.6	122	**2KJ4511 - ■ FM32 - ■ ■ C2**	
	12	1 730	118.65	24500	1.7	122	**2KJ4511 - ■ FM32 - ■ ■ B2**	
	13	1 600	109.57	24500	1.8	122	**2KJ4511 - ■ FM32 - ■ ■ A2**	
	15	1 420	97.49	24500	2.0	122	**2KJ4511 - ■ FM32 - ■ ■ X1**	
	17	1 260	86.59	24500	2.3	122	**2KJ4511 - ■ FM32 - ■ ■ W1**	
	K.109-LEN100LU4P							
	6.7	3 150	216.65	24500	0.92	119	**2KJ4511 - ■ FL33 - ■ ■ H2**	
	7.4	2 840	195.60	24500	1.0	119	**2KJ4511 - ■ FL33 - ■ ■ G2**	
	8.1	2 580	177.43	24500	1.1	119	**2KJ4511 - ■ FL33 - ■ ■ F2**	
	8.8	2 380	163.78	24500	1.2	119	**2KJ4511 - ■ FL33 - ■ ■ E2**	
	9.7	2 160	148.88	24500	1.3	119	**2KJ4511 - ■ FL33 - ■ ■ D2**	
	11	1 830	126.07	24500	1.6	119	**2KJ4511 - ■ FL33 - ■ ■ C2**	
	12	1 720	118.65	24500	1.7	119	**2KJ4511 - ■ FL33 - ■ ■ B2**	
	13	1 590	109.57	24500	1.8	119	**2KJ4511 - ■ FL33 - ■ ■ A2**	
	15	1 410	97.49	24500	2.0	119	**2KJ4511 - ■ FL33 - ■ ■ X1**	
	17	1 250	86.59	24500	2.3	119	**2KJ4511 - ■ FL33 - ■ ■ W1**	
	K.109-LEN112MH6E							
	5.8	3 620	163.78	24500	0.8	131	**2KJ4511 - ■ GJ32 - ■ ■ E2**	**P01**
	6.4	3 290	148.88	24500	0.88	131	**2KJ4511 - ■ GJ32 - ■ ■ D2**	**P01**
	K.109-LEN112MP6P							
	5.8	3 640	163.78	24500	0.8	120	**2KJ4511 - ■ GH33 - ■ ■ E2**	**P01**
	6.3	3 310	148.88	24500	0.88	120	**2KJ4511 - ■ GH33 - ■ ■ D2**	**P01**
	K.129-LEN100LH4E							
	6.3	3 340	228.30	38600	1.3	173	**2KJ4512 - ■ FM32 - ■ ■ J2**	
	6.8	3 080	210.74	38900	1.4	173	**2KJ4512 - ■ FM32 - ■ ■ H2**	
	7.4	2 840	194.04	39100	1.5	173	**2KJ4512 - ■ FM32 - ■ ■ G2**	
	8.7	2 420	165.47	39500	1.8	173	**2KJ4512 - ■ FM32 - ■ ■ F2**	
	9.2	2 280	155.74	39700	1.9	173	**2KJ4512 - ■ FM32 - ■ ■ E2**	
	9.9	2 110	144.53	39800	2.1	173	**2KJ4512 - ■ FM32 - ■ ■ D2**	
	K.129-LEN100LU4P							
	6.3	3 310	228.30	38700	1.3	170	**2KJ4512 - ■ FL33 - ■ ■ J2**	
	6.9	3 060	210.74	38900	1.4	170	**2KJ4512 - ■ FL33 - ■ ■ H2**	
	7.4	2 820	194.04	39100	1.6	170	**2KJ4512 - ■ FL33 - ■ ■ G2**	
	8.7	2 400	165.47	39500	1.8	170	**2KJ4512 - ■ FL33 - ■ ■ F2**	
	9.3	2 260	155.74	39700	1.9	170	**2KJ4512 - ■ FL33 - ■ ■ E2**	
	10	2 100	144.53	39800	2.1	170	**2KJ4512 - ■ FL33 - ■ ■ D2**	
	K.129-LEN112MH6E							
	4.2	5 040	228.30	37000	0.87	181	**2KJ4512 - ■ GJ32 - ■ ■ J2**	**P01**
	4.5	4 660	210.74	37300	0.94	181	**2KJ4512 - ■ GJ32 - ■ ■ H2**	**P01**
	4.9	4 290	194.04	37700	1.0	181	**2KJ4512 - ■ GJ32 - ■ ■ G2**	**P01**
	5.7	3 650	165.47	38300	1.2	181	**2KJ4512 - ■ GJ32 - ■ ■ F2**	**P01**
	6.1	3 440	155.74	38500	1.3	181	**2KJ4512 - ■ GJ32 - ■ ■ E2**	**P01**
	K.129-LEN112MP6P							
	4.1	5 070	228.30	36900	0.87	170	**2KJ4512 - ■ GH33 - ■ ■ J2**	**P01**

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**K.129-LEN112MP6P**							
	4.5	4 680	210.74	37300	0.94	170	**2KJ4512 - ■ GH33 - ■ ■ H2**	**P01**
	4.9	4 310	194.04	37700	1.0	170	**2KJ4512 - ■ GH33 - ■ ■ G2**	**P01**
	5.7	3 670	165.47	38300	1.2	170	**2KJ4512 - ■ GH33 - ■ ■ F2**	**P01**
	6.1	3 460	155.74	38500	1.3	170	**2KJ4512 - ■ GH33 - ■ ■ E2**	**P01**
	K.149-LEN112MH6E							
	4.0	5 240	237.03	65000	1.5	265	**2KJ4513 - ■ GJ32 - ■ ■ J2**	**P01**
	4.7	4 480	202.86	65000	1.8	265	**2KJ4513 - ■ GJ32 - ■ ■ H2**	**P01**
	5.0	4 220	190.92	65000	1.9	265	**2KJ4513 - ■ GJ32 - ■ ■ G2**	**P01**
	5.3	3 950	178.97	65000	2.0	265	**2KJ4513 - ■ GJ32 - ■ ■ F2**	**P01**
	K.149-LEN112MP6P							
	4.0	5 270	237.03	65000	1.5	254	**2KJ4513 - ■ GH33 - ■ ■ J2**	**P01**
	4.7	4 510	202.86	65000	1.8	254	**2KJ4513 - ■ GH33 - ■ ■ H2**	**P01**
	4.9	4 240	190.92	65000	1.9	254	**2KJ4513 - ■ GH33 - ■ ■ G2**	**P01**
	5.3	3 970	178.97	65000	2.0	254	**2KJ4513 - ■ GH33 - ■ ■ F2**	**P01**
	K.109-Z39-LEN100LH4E							
	5.4	3 620	263.61	24500	0.8	127	**2KJ4531 - ■ FM32 - ■ ■ B1**	
	6.3	3 120	227.00	24500	0.93	127	**2KJ4531 - ■ FM32 - ■ ■ A1**	
	K.109-Z39-LEN100LU4P							
	5.5	3 600	263.61	24500	0.8	124	**2KJ4531 - ■ FL33 - ■ ■ B1**	
	6.4	3 100	227.00	24500	0.93	124	**2KJ4531 - ■ FL33 - ■ ■ A1**	
	K.129-Z39-LEN100LH4E							
	4.1	4 840	352.00	37200	0.91	178	**2KJ4533 - ■ FM32 - ■ ■ A1**	
	K.129-Z39-LEN100LU4P							
	4.1	4 810	352.00	37200	0.91	175	**2KJ4533 - ■ FL33 - ■ ■ A1**	
	K.149-Z49-LEN100LH4E							
	2.0	9 730	707.00	65000	0.82	274	**2KJ4535 - ■ FM32 - ■ ■ J1**	
	2.3	8 470	616.00	65000	0.94	274	**2KJ4535 - ■ FM32 - ■ ■ H1**	
	2.4	8 360	608.00	65000	0.96	274	**2KJ4535 - ■ FM32 - ■ ■ G1**	
	2.5	7 900	574.00	65000	1.0	274	**2KJ4535 - ■ FM32 - ■ ■ F1**	
	2.9	6 710	488.00	65000	1.2	274	**2KJ4535 - ■ FM32 - ■ ■ E1**	
	3.4	5 750	418.00	65000	1.4	274	**2KJ4535 - ■ FM32 - ■ ■ D1**	
	3.9	5 060	368.00	65000	1.6	274	**2KJ4535 - ■ FM32 - ■ ■ C1**	
	4.6	4 270	310.31	65000	1.9	274	**2KJ4535 - ■ FM32 - ■ ■ B1**	
	5.3	3 720	270.46	65000	2.1	274	**2KJ4535 - ■ FM32 - ■ ■ A1**	
	K.149-Z49-LEN100LU4P							
	2.0	9 660	707.00	65000	0.83	271	**2KJ4535 - ■ FL33 - ■ ■ J1**	
	2.3	8 420	616.00	65000	0.95	271	**2KJ4535 - ■ FL33 - ■ ■ H1**	
	2.4	8 310	608.00	65000	0.96	271	**2KJ4535 - ■ FL33 - ■ ■ G1**	
	2.5	7 840	574.00	65000	1.0	271	**2KJ4535 - ■ FL33 - ■ ■ F1**	
	3.0	6 670	488.00	65000	1.2	271	**2KJ4535 - ■ FL33 - ■ ■ E1**	
	3.5	5 710	418.00	65000	1.4	271	**2KJ4535 - ■ FL33 - ■ ■ D1**	
	3.9	5 030	368.00	65000	1.6	271	**2KJ4535 - ■ FL33 - ■ ■ C1**	
	4.7	4 240	310.31	65000	1.9	271	**2KJ4535 - ■ FL33 - ■ ■ B1**	
	K.169-Z49-LEN100LH4E							
	1.3	14 600	1 064.00	70000	0.89	445	**2KJ4537 - ■ FM32 - ■ ■ K1**	
	1.5	12 700	927.00	70000	1.0	445	**2KJ4537 - ■ FM32 - ■ ■ J1**	
	1.6	12 500	915.00	70000	1.0	445	**2KJ4537 - ■ FM32 - ■ ■ H1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**K.169-Z49-LEN100LH4E**							
	1.7	11 800	864.00	70000	1.1	445	**2KJ4537 - ■ FM32 - ■ ■ G1**	
	2.0	10 100	735.00	70000	1.3	445	**2KJ4537 - ■ FM32 - ■ ■ F1**	
	2.3	8 670	630.00	70000	1.5	445	**2KJ4537 - ■ FM32 - ■ ■ E1**	
	2.6	7 620	554.00	70000	1.7	445	**2KJ4537 - ■ FM32 - ■ ■ D1**	
	3.1	6 420	467.00	70000	2.0	445	**2KJ4537 - ■ FM32 - ■ ■ C1**	
	K.169-Z49-LEN100LU4P							
	1.4	14 500	1 064.00	70000	0.89	442	**2KJ4537 - ■ FL33 - ■ ■ K1**	
	1.6	12 500	915.00	70000	1.0	442	**2KJ4537 - ■ FL33 - ■ ■ H1**	
	1.6	12 600	927.00	70000	1.0	442	**2KJ4537 - ■ FL33 - ■ ■ J1**	
	1.7	11 800	864.00	70000	1.1	442	**2KJ4537 - ■ FL33 - ■ ■ G1**	
	2.0	10 000	735.00	70000	1.3	442	**2KJ4537 - ■ FL33 - ■ ■ F1**	
	2.3	8 610	630.00	70000	1.5	442	**2KJ4537 - ■ FL33 - ■ ■ E1**	
	2.6	7 570	554.00	70000	1.7	442	**2KJ4537 - ■ FL33 - ■ ■ D1**	
	3.1	6 380	467.00	70000	2.0	442	**2KJ4537 - ■ FL33 - ■ ■ C1**	
	K.189-Z69-LEN100LH4E							
	0.84	23 500	1 709.00	104000	0.83	686	**2KJ4540 - ■ FM32 - ■ ■ N1**	
	0.98	20 100	1 464.00	104000	0.97	686	**2KJ4540 - ■ FM32 - ■ ■ M1**	
	1.1	17 700	1 287.00	104000	1.1	686	**2KJ4540 - ■ FM32 - ■ ■ L1**	
	1.3	14 900	1 086.00	104000	1.3	686	**2KJ4540 - ■ FM32 - ■ ■ K1**	
	1.5	13 000	946.00	104000	1.5	686	**2KJ4540 - ■ FM32 - ■ ■ J1**	
	1.6	12 200	889.00	104000	1.6	686	**2KJ4540 - ■ FM32 - ■ ■ H1**	
	1.9	10 400	756.00	104000	1.9	686	**2KJ4540 - ■ FM32 - ■ ■ G1**	
	K.189-Z69-LEN100LU4P							
	0.85	23 300	1 709.00	104000	0.83	683	**2KJ4540 - ■ FL33 - ■ ■ N1**	
	0.99	20 000	1 464.00	104000	0.97	683	**2KJ4540 - ■ FL33 - ■ ■ M1**	
	1.1	17 500	1 287.00	104000	1.1	683	**2KJ4540 - ■ FL33 - ■ ■ L1**	
	1.3	14 800	1 086.00	104000	1.3	683	**2KJ4540 - ■ FL33 - ■ ■ K1**	
	1.5	12 900	946.00	104000	1.5	683	**2KJ4540 - ■ FL33 - ■ ■ J1**	
	1.6	12 100	889.00	104000	1.6	683	**2KJ4540 - ■ FL33 - ■ ■ H1**	
	1.9	10 300	756.00	104000	1.9	683	**2KJ4540 - ■ FL33 - ■ ■ G1**	
3	**B.29-LEN100LN4E**							
	341	84	4.21	2300	0.88	43	**2KJ4501 - ■ FP32 - ■ ■ B1**	
	393	73	3.65	2300	1.0	43	**2KJ4501 - ■ FP32 - ■ ■ A1**	
	B.29-LEN100LZ4P							
	344	83	4.21	2300	0.89	33	**2KJ4501 - ■ FM33 - ■ ■ B1**	
	397	72	3.65	2300	1.0	33	**2KJ4501 - ■ FM33 - ■ ■ A1**	
	B.39-LEN100LN4E							
	96	295	14.90	5300	0.84	48	**2KJ4502 - ■ FP32 - ■ ■ M1**	
	102	280	14.02	5300	0.89	48	**2KJ4502 - ■ FP32 - ■ ■ L1**	
	114	250	12.56	5200	1.0	48	**2KJ4502 - ■ FP32 - ■ ■ K1**	
	134	210	10.69	5200	1.1	48	**2KJ4502 - ■ FP32 - ■ ■ J1**	
	156	183	9.17	5000	1.3	48	**2KJ4502 - ■ FP32 - ■ ■ H1**	
	182	158	7.89	4900	1.4	48	**2KJ4502 - ■ FP32 - ■ ■ G1**	
	217	132	6.60	4900	1.5	48	**2KJ4502 - ■ FP32 - ■ ■ F1**	
	231	124	6.21	4800	1.6	48	**2KJ4502 - ■ FP32 - ■ ■ E1**	
	258	111	5.56	4700	1.8	48	**2KJ4502 - ■ FP32 - ■ ■ D1**	
	303	95	4.74	4500	2.1	48	**2KJ4502 - ■ FP32 - ■ ■ C1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**B.39-LEN100LN4E**							
	353	81	4.06	4300	2.5	48	**2KJ4502 - ■ FP32 - ■ ■ B1**	
	410	70	3.50	4200	2.7	48	**2KJ4502 - ■ FP32 - ■ ■ A1**	
	B.39-LEN100LZ4P							
	97	290	14.90	5300	0.85	38	**2KJ4502 - ■ FM33 - ■ ■ M1**	
	103	275	14.02	5300	0.9	38	**2KJ4502 - ■ FM33 - ■ ■ L1**	
	115	245	12.56	5300	1.0	38	**2KJ4502 - ■ FM33 - ■ ■ K1**	
	136	210	10.69	5100	1.1	38	**2KJ4502 - ■ FM33 - ■ ■ J1**	
	158	181	9.17	5000	1.3	38	**2KJ4502 - ■ FM33 - ■ ■ H1**	
	184	156	7.89	4900	1.4	38	**2KJ4502 - ■ FM33 - ■ ■ G1**	
	220	130	6.60	4900	1.5	38	**2KJ4502 - ■ FM33 - ■ ■ F1**	
	233	123	6.21	4800	1.6	38	**2KJ4502 - ■ FM33 - ■ ■ E1**	
	261	110	5.56	4700	1.8	38	**2KJ4502 - ■ FM33 - ■ ■ D1**	
	306	94	4.74	4500	2.1	38	**2KJ4502 - ■ FM33 - ■ ■ C1**	
	357	80	4.06	4300	2.5	38	**2KJ4502 - ■ FM33 - ■ ■ B1**	
	414	69	3.50	4200	2.8	38	**2KJ4502 - ■ FM33 - ■ ■ A1**	
	K.39-LEN100LN4E							
	112	255	12.78	2900	0.86	48	**2KJ4504 - ■ FP32 - ■ ■ H1**	
	129	220	11.09	3000	0.99	48	**2KJ4504 - ■ FP32 - ■ ■ G1**	
	143	200	10.04	2700	0.92	48	**2KJ4504 - ■ FP32 - ■ ■ F1**	
	163	176	8.81	2700	1.0	48	**2KJ4504 - ■ FP32 - ■ ■ E1**	
	180	160	7.99	2800	1.1	48	**2KJ4504 - ■ FP32 - ■ ■ D1**	
	191	150	7.52	2800	1.1	48	**2KJ4504 - ■ FP32 - ■ ■ C1**	
	216	132	6.63	2800	1.2	48	**2KJ4504 - ■ FP32 - ■ ■ B1**	
	250	115	5.75	2800	1.3	48	**2KJ4504 - ■ FP32 - ■ ■ A1**	
	K.39-LEN100LZ4P							
	113	250	12.78	2900	0.87	38	**2KJ4504 - ■ FM33 - ■ ■ H1**	
	131	215	11.09	3000	1.0	38	**2KJ4504 - ■ FM33 - ■ ■ G1**	
	144	198	10.04	2700	0.93	38	**2KJ4504 - ■ FM33 - ■ ■ F1**	
	165	174	8.81	2700	1.1	38	**2KJ4504 - ■ FM33 - ■ ■ E1**	
	181	158	7.99	2800	1.1	38	**2KJ4504 - ■ FM33 - ■ ■ D1**	
	193	149	7.52	2800	1.2	38	**2KJ4504 - ■ FM33 - ■ ■ C1**	
	219	131	6.63	2800	1.2	38	**2KJ4504 - ■ FM33 - ■ ■ B1**	
	252	114	5.75	2800	1.3	38	**2KJ4504 - ■ FM33 - ■ ■ A1**	
	B.49-LEN100LN4E							
	52	550	27.74	6000	0.81	55	**2KJ4503 - ■ FP32 - ■ ■ T1**	
	57	505	25.32	6000	0.89	55	**2KJ4503 - ■ FP32 - ■ ■ S1**	
	68	415	21.01	6100	1.1	55	**2KJ4503 - ■ FP32 - ■ ■ R1**	
	73	395	19.77	6000	1.1	55	**2KJ4503 - ■ FP32 - ■ ■ Q1**	
	77	370	18.67	6000	1.2	55	**2KJ4503 - ■ FP32 - ■ ■ P1**	
	90	315	15.89	5900	1.4	55	**2KJ4503 - ■ FP32 - ■ ■ N1**	
	105	270	13.61	5800	1.7	55	**2KJ4503 - ■ FP32 - ■ ■ M1**	
	120	235	11.97	5800	1.9	55	**2KJ4503 - ■ FP32 - ■ ■ L1**	
	142	200	10.10	5600	2.2	55	**2KJ4503 - ■ FP32 - ■ ■ K1**	
	163	176	8.80	5400	2.6	55	**2KJ4503 - ■ FP32 - ■ ■ J1**	
	173	166	8.29	5500	2.0	55	**2KJ4503 - ■ FP32 - ■ ■ H1**	
	184	156	7.80	5400	2.1	55	**2KJ4503 - ■ FP32 - ■ ■ G1**	
	195	147	7.37	5400	2.2	55	**2KJ4503 - ■ FP32 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**B.49-LEN100LN4E**							
	229	125	6.27	5200	2.6	55	**2KJ4503 - ■ FP32 - ■ ■ E1**	
	267	107	5.37	5000	3.1	55	**2KJ4503 - ■ FP32 - ■ ■ D1**	
	304	94	4.72	4800	3.5	55	**2KJ4503 - ■ FP32 - ■ ■ C1**	
	361	80	3.98	4600	4.2	55	**2KJ4503 - ■ FP32 - ■ ■ B1**	
	414	69	3.47	4400	4.7	55	**2KJ4503 - ■ FP32 - ■ ■ A1**	
	B.49-LEN100LZ4P							
	52	545	27.74	6000	0.82	45	**2KJ4503 - ■ FM33 - ■ ■ T1**	
	57	500	25.32	6000	0.9	45	**2KJ4503 - ■ FM33 - ■ ■ S1**	
	69	415	21.01	6000	1.1	45	**2KJ4503 - ■ FM33 - ■ ■ R1**	
	73	390	19.77	6000	1.2	45	**2KJ4503 - ■ FM33 - ■ ■ Q1**	
	78	365	18.67	6000	1.2	45	**2KJ4503 - ■ FM33 - ■ ■ P1**	
	91	310	15.89	6000	1.4	45	**2KJ4503 - ■ FM33 - ■ ■ N1**	
	107	265	13.61	5800	1.7	45	**2KJ4503 - ■ FM33 - ■ ■ M1**	
	121	235	11.97	5700	1.9	45	**2KJ4503 - ■ FM33 - ■ ■ L1**	
	144	200	10.10	5600	2.3	45	**2KJ4503 - ■ FM33 - ■ ■ K1**	
	165	174	8.80	5400	2.6	45	**2KJ4503 - ■ FM33 - ■ ■ J1**	
	175	164	8.29	5500	2.0	45	**2KJ4503 - ■ FM33 - ■ ■ H1**	
	186	154	7.80	5400	2.1	45	**2KJ4503 - ■ FM33 - ■ ■ G1**	
	197	146	7.37	5300	2.3	45	**2KJ4503 - ■ FM33 - ■ ■ F1**	
	231	124	6.27	5100	2.7	45	**2KJ4503 - ■ FM33 - ■ ■ E1**	
	270	106	5.37	4900	3.1	45	**2KJ4503 - ■ FM33 - ■ ■ D1**	
	307	93	4.72	4800	3.5	45	**2KJ4503 - ■ FM33 - ■ ■ C1**	
	364	79	3.98	4600	4.2	45	**2KJ4503 - ■ FM33 - ■ ■ B1**	
	418	69	3.47	4400	4.7	45	**2KJ4503 - ■ FM33 - ■ ■ A1**	
	K.49-LEN100LN4E							
	55	525	26.30	3000	0.8	58	**2KJ4505 - ■ FP32 - ■ ■ P1**	
	62	465	23.28	3200	0.9	58	**2KJ4505 - ■ FP32 - ■ ■ N1**	
	74	385	19.38	3400	1.1	58	**2KJ4505 - ■ FP32 - ■ ■ M1**	
	79	360	18.24	3500	1.2	58	**2KJ4505 - ■ FP32 - ■ ■ L1**	
	88	325	16.34	3500	1.3	58	**2KJ4505 - ■ FP32 - ■ ■ K1**	
	103	275	13.91	3600	1.5	58	**2KJ4505 - ■ FP32 - ■ ■ J1**	
	120	235	11.93	3600	1.8	58	**2KJ4505 - ■ FP32 - ■ ■ H1**	
	140	205	10.27	3600	2.0	58	**2KJ4505 - ■ FP32 - ■ ■ G1**	
	147	195	9.75	3400	1.4	58	**2KJ4505 - ■ FP32 - ■ ■ F1**	
	156	183	9.18	3400	1.5	58	**2KJ4505 - ■ FP32 - ■ ■ E1**	
	175	164	8.22	3400	1.6	58	**2KJ4505 - ■ FP32 - ■ ■ D1**	
	205	140	7.00	3400	1.7	58	**2KJ4505 - ■ FP32 - ■ ■ C1**	
	239	120	6.00	3300	1.9	58	**2KJ4505 - ■ FP32 - ■ ■ B1**	
	278	103	5.17	3200	2.0	58	**2KJ4505 - ■ FP32 - ■ ■ A1**	
	K.49-LEN100LZ4P							
	55	520	26.30	3000	0.81	48	**2KJ4505 - ■ FM33 - ■ ■ P1**	
	62	460	23.28	3200	0.91	48	**2KJ4505 - ■ FM33 - ■ ■ N1**	
	75	380	19.38	3400	1.1	48	**2KJ4505 - ■ FM33 - ■ ■ M1**	
	79	360	18.24	3400	1.2	48	**2KJ4505 - ■ FM33 - ■ ■ L1**	
	89	320	16.34	3500	1.3	48	**2KJ4505 - ■ FM33 - ■ ■ K1**	
	104	275	13.91	3500	1.5	48	**2KJ4505 - ■ FM33 - ■ ■ J1**	
	122	235	11.93	3600	1.8	48	**2KJ4505 - ■ FM33 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**K.49-LEN100LZ4P**							
	141	200	10.27	3600	2.0	48	**2KJ4505 - ■ FM33 - ■ ■ G1**	
	149	193	9.75	3400	1.4	48	**2KJ4505 - ■ FM33 - ■ ■ F1**	
	158	181	9.18	3400	1.5	48	**2KJ4505 - ■ FM33 - ■ ■ E1**	
	176	162	8.22	3400	1.6	48	**2KJ4505 - ■ FM33 - ■ ■ D1**	
	207	138	7.00	3400	1.7	48	**2KJ4505 - ■ FM33 - ■ ■ C1**	
	242	119	6.00	3300	1.9	48	**2KJ4505 - ■ FM33 - ■ ■ B1**	
	280	102	5.17	3200	2.1	48	**2KJ4505 - ■ FM33 - ■ ■ A1**	
	K.69-LEN100LN4E							
	43	665	33.48	5900	0.87	64	**2KJ4507 - ■ FP32 - ■ ■ Q1**	
	49	580	29.18	6000	0.95	64	**2KJ4507 - ■ FP32 - ■ ■ P1**	
	55	520	26.05	6100	1.2	64	**2KJ4507 - ■ FP32 - ■ ■ N1**	
	59	490	24.52	6100	1.2	64	**2KJ4507 - ■ FP32 - ■ ■ M1**	
	62	460	23.15	6100	1.3	64	**2KJ4507 - ■ FP32 - ■ ■ L1**	
	73	390	19.70	6100	1.4	64	**2KJ4507 - ■ FP32 - ■ ■ K1**	
	85	335	16.88	6100	1.6	64	**2KJ4507 - ■ FP32 - ■ ■ J1**	
	97	295	14.84	6000	1.7	64	**2KJ4507 - ■ FP32 - ■ ■ H1**	
	115	250	12.52	5900	2.0	64	**2KJ4507 - ■ FP32 - ■ ■ G1**	
	132	215	10.91	5800	2.2	64	**2KJ4507 - ■ FP32 - ■ ■ F1**	
	154	186	9.34	5300	2.0	64	**2KJ4507 - ■ FP32 - ■ ■ E1**	
	179	160	8.01	5100	2.3	64	**2KJ4507 - ■ FP32 - ■ ■ D1**	
	204	141	7.04	5000	2.6	64	**2KJ4507 - ■ FP32 - ■ ■ C1**	
	242	119	5.94	4900	2.9	64	**2KJ4507 - ■ FP32 - ■ ■ B1**	
	277	103	5.18	4800	3.2	64	**2KJ4507 - ■ FP32 - ■ ■ A1**	
	K.69-LEN100LZ4P							
	43	660	33.48	5900	0.88	54	**2KJ4507 - ■ FM33 - ■ ■ Q1**	
	50	575	29.18	6000	0.96	54	**2KJ4507 - ■ FM33 - ■ ■ P1**	
	56	515	26.05	6100	1.2	54	**2KJ4507 - ■ FM33 - ■ ■ N1**	
	59	480	24.52	6100	1.2	54	**2KJ4507 - ■ FM33 - ■ ■ M1**	
	63	455	23.15	6100	1.3	54	**2KJ4507 - ■ FM33 - ■ ■ L1**	
	74	385	19.70	6100	1.4	54	**2KJ4507 - ■ FM33 - ■ ■ K1**	
	86	330	16.88	6100	1.6	54	**2KJ4507 - ■ FM33 - ■ ■ J1**	
	98	290	14.84	6000	1.8	54	**2KJ4507 - ■ FM33 - ■ ■ H1**	
	116	245	12.52	5900	2.0	54	**2KJ4507 - ■ FM33 - ■ ■ G1**	
	133	215	10.91	5700	2.2	54	**2KJ4507 - ■ FM33 - ■ ■ F1**	
	155	185	9.34	5200	2.0	54	**2KJ4507 - ■ FM33 - ■ ■ E1**	
	181	158	8.01	5100	2.3	54	**2KJ4507 - ■ FM33 - ■ ■ D1**	
	206	139	7.04	5000	2.6	54	**2KJ4507 - ■ FM33 - ■ ■ C1**	
	244	117	5.94	4900	2.9	54	**2KJ4507 - ■ FM33 - ■ ■ B1**	
	280	102	5.18	4700	3.2	54	**2KJ4507 - ■ FM33 - ■ ■ A1**	
	K.79-LEN100LN4E							
	29	980	49.31	13600	0.83	70	**2KJ4508 - ■ FP32 - ■ ■ S1**	
	34	830	41.60	13900	0.96	70	**2KJ4508 - ■ FP32 - ■ ■ R1**	
	40	720	36.26	14100	1.1	70	**2KJ4508 - ■ FP32 - ■ ■ Q1**	
	44	650	32.78	14300	1.3	70	**2KJ4508 - ■ FP32 - ■ ■ P1**	
	53	540	27.20	14400	1.5	70	**2KJ4508 - ■ FP32 - ■ ■ N1**	
	56	510	25.60	14400	1.5	70	**2KJ4508 - ■ FP32 - ■ ■ M1**	
	59	480	24.17	14400	1.6	70	**2KJ4508 - ■ FP32 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**K.79-LEN100LN4E**							
	70	410	20.57	14400	1.8	70	**2KJ4508 - ■ FP32 - ■ ■ K1**	
	81	350	17.62	14400	2.0	70	**2KJ4508 - ■ FP32 - ■ ■ J1**	
	93	305	15.49	14400	2.2	70	**2KJ4508 - ■ FP32 - ■ ■ H1**	
	110	260	13.07	14400	2.5	70	**2KJ4508 - ■ FP32 - ■ ■ G1**	
	126	225	11.39	14400	2.8	70	**2KJ4508 - ■ FP32 - ■ ■ F1**	
	137	210	10.51	14100	2.1	70	**2KJ4508 - ■ FP32 - ■ ■ E1**	
	159	180	9.01	13600	2.5	70	**2KJ4508 - ■ FP32 - ■ ■ D1**	
	181	158	7.92	13200	2.8	70	**2KJ4508 - ■ FP32 - ■ ■ C1**	
	215	133	6.68	12600	3.4	70	**2KJ4508 - ■ FP32 - ■ ■ B1**	
	247	116	5.82	12200	3.7	70	**2KJ4508 - ■ FP32 - ■ ■ A1**	
	K.79-LEN100LZ4P							
	29	970	49.31	13600	0.84	60	**2KJ4508 - ■ FM33 - ■ ■ S1**	
	35	820	41.60	13900	0.97	60	**2KJ4508 - ■ FM33 - ■ ■ R1**	
	40	715	36.26	14100	1.1	60	**2KJ4508 - ■ FM33 - ■ ■ Q1**	
	44	645	32.78	14300	1.3	60	**2KJ4508 - ■ FM33 - ■ ■ P1**	
	53	535	27.20	14400	1.5	60	**2KJ4508 - ■ FM33 - ■ ■ N1**	
	57	505	25.60	14400	1.6	60	**2KJ4508 - ■ FM33 - ■ ■ M1**	
	60	475	24.17	14400	1.6	60	**2KJ4508 - ■ FM33 - ■ ■ L1**	
	70	405	20.57	14400	1.8	60	**2KJ4508 - ■ FM33 - ■ ■ K1**	
	82	345	17.62	14400	2.1	60	**2KJ4508 - ■ FM33 - ■ ■ J1**	
	94	305	15.49	14400	2.3	60	**2KJ4508 - ■ FM33 - ■ ■ H1**	
	111	255	13.07	14400	2.6	60	**2KJ4508 - ■ FM33 - ■ ■ G1**	
	127	225	11.39	14400	2.9	60	**2KJ4508 - ■ FM33 - ■ ■ F1**	
	138	205	10.51	14100	2.1	60	**2KJ4508 - ■ FM33 - ■ ■ E1**	
	161	178	9.01	13500	2.5	60	**2KJ4508 - ■ FM33 - ■ ■ D1**	
	183	156	7.92	13100	2.9	60	**2KJ4508 - ■ FM33 - ■ ■ C1**	
	217	132	6.68	12600	3.4	60	**2KJ4508 - ■ FM33 - ■ ■ B1**	
	249	115	5.82	12100	3.7	60	**2KJ4508 - ■ FM33 - ■ ■ A1**	
	K.89-LEN100LN4E							
	15	1 880	94.16	18100	0.85	91	**2KJ4510 - ■ FP32 - ■ ■ A2**	
	17	1 640	82.25	18100	0.97	91	**2KJ4510 - ■ FP32 - ■ ■ X1**	
	19	1 470	73.64	18100	1.1	91	**2KJ4510 - ■ FP32 - ■ ■ W1**	
	22	1 280	64.39	18100	1.2	91	**2KJ4510 - ■ FP32 - ■ ■ V1**	
	26	1 100	55.27	18100	1.4	91	**2KJ4510 - ■ FP32 - ■ ■ U1**	
	29	975	48.85	18100	1.6	91	**2KJ4510 - ■ FP32 - ■ ■ T1**	
	35	825	41.54	18100	1.9	91	**2KJ4510 - ■ FP32 - ■ ■ S1**	
	37	780	39.29	18100	2.0	91	**2KJ4510 - ■ FP32 - ■ ■ R1**	
	44	655	32.96	18100	2.4	91	**2KJ4510 - ■ FP32 - ■ ■ Q1**	
	46	620	31.03	18100	2.6	91	**2KJ4510 - ■ FP32 - ■ ■ P1**	
	50	565	28.46	18100	2.8	91	**2KJ4510 - ■ FP32 - ■ ■ N1**	
	K.89-LEN100LZ4P							
	15	1 860	94.16	18100	0.86	81	**2KJ4510 - ■ FM33 - ■ ■ A2**	
	18	1 620	82.25	18100	0.98	81	**2KJ4510 - ■ FM33 - ■ ■ X1**	
	20	1 450	73.64	18100	1.1	81	**2KJ4510 - ■ FM33 - ■ ■ W1**	
	23	1 270	64.39	18100	1.3	81	**2KJ4510 - ■ FM33 - ■ ■ V1**	
	26	1 090	55.27	18100	1.5	81	**2KJ4510 - ■ FM33 - ■ ■ U1**	
	30	965	48.85	18100	1.7	81	**2KJ4510 - ■ FM33 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**K.89-LEN100LZ4P**							
	35	820	41.54	18100	1.9	81	**2KJ4510 - ■ FM33 - ■ ■ S1**	
	37	775	39.29	18100	2.1	81	**2KJ4510 - ■ FM33 - ■ ■ R1**	
	44	650	32.96	18100	2.5	81	**2KJ4510 - ■ FM33 - ■ ■ Q1**	
	47	610	31.03	18100	2.6	81	**2KJ4510 - ■ FM33 - ■ ■ P1**	
	51	560	28.46	18100	2.8	81	**2KJ4510 - ■ FM33 - ■ ■ N1**	
	K.109-LEN100LN4E							
	8.1	3540	177.43	24500	0.82	126	**2KJ4511 - ■ FP32 - ■ ■ F2**	
	8.8	3270	163.78	24500	0.89	126	**2KJ4511 - ■ FP32 - ■ ■ E2**	
	9.6	2970	148.88	24500	0.98	126	**2KJ4511 - ■ FP32 - ■ ■ D2**	
	11	2510	126.07	24500	1.2	126	**2KJ4511 - ■ FP32 - ■ ■ C2**	
	12	2360	118.65	24500	1.2	126	**2KJ4511 - ■ FP32 - ■ ■ B2**	
	13	2180	109.57	24500	1.3	126	**2KJ4511 - ■ FP32 - ■ ■ A2**	
	15	1940	97.49	24500	1.5	126	**2KJ4511 - ■ FP32 - ■ ■ X1**	
	17	1720	86.59	24500	1.7	126	**2KJ4511 - ■ FP32 - ■ ■ W1**	
	19	1540	77.51	24500	1.9	126	**2KJ4511 - ■ FP32 - ■ ■ V1**	
	22	1320	66.26	24500	2.2	126	**2KJ4511 - ■ FP32 - ■ ■ U1**	
	K.109-LEN100LZ4P							
	8.2	3500	177.43	24500	0.83	116	**2KJ4511 - ■ FM33 - ■ ■ F2**	
	8.9	3230	163.78	24500	0.9	116	**2KJ4511 - ■ FM33 - ■ ■ E2**	
	9.7	2940	148.88	24500	0.99	116	**2KJ4511 - ■ FM33 - ■ ■ D2**	
	12	2340	118.65	24500	1.2	116	**2KJ4511 - ■ FM33 - ■ ■ B2**	
	12	2490	126.07	24500	1.2	116	**2KJ4511 - ■ FM33 - ■ ■ C2**	
	13	2160	109.57	24500	1.3	116	**2KJ4511 - ■ FM33 - ■ ■ A2**	
	15	1920	97.49	24500	1.5	116	**2KJ4511 - ■ FM33 - ■ ■ X1**	
	17	1710	86.59	24500	1.7	116	**2KJ4511 - ■ FM33 - ■ ■ W1**	
	19	1530	77.51	24500	1.9	116	**2KJ4511 - ■ FM33 - ■ ■ V1**	
	22	1300	66.26	24500	2.2	116	**2KJ4511 - ■ FM33 - ■ ■ U1**	
	K.129-LEN100LN4E							
	6.3	4550	228.30	37400	0.97	177	**2KJ4512 - ■ FP32 - ■ ■ J2**	
	6.8	4200	210.74	37800	1.0	177	**2KJ4512 - ■ FP32 - ■ ■ H2**	
	7.4	3870	194.04	38100	1.1	177	**2KJ4512 - ■ FP32 - ■ ■ G2**	
	8.7	3300	165.47	38700	1.3	177	**2KJ4512 - ■ FP32 - ■ ■ F2**	
	9.2	3100	155.74	38900	1.4	177	**2KJ4512 - ■ FP32 - ■ ■ E2**	
	9.9	2880	144.53	39100	1.5	177	**2KJ4512 - ■ FP32 - ■ ■ D2**	
	11	2550	127.77	39400	1.7	177	**2KJ4512 - ■ FP32 - ■ ■ C2**	
	13	2270	114.06	39700	1.9	177	**2KJ4512 - ■ FP32 - ■ ■ B2**	
	14	2040	102.64	39900	2.1	177	**2KJ4512 - ■ FP32 - ■ ■ A2**	
	K.129-LEN100LZ4P							
	6.4	4510	228.30	37500	0.98	167	**2KJ4512 - ■ FM33 - ■ ■ J2**	
	6.9	4160	210.74	37800	1.1	167	**2KJ4512 - ■ FM33 - ■ ■ H2**	
	7.5	3830	194.04	38200	1.1	167	**2KJ4512 - ■ FM33 - ■ ■ G2**	
	8.8	3260	165.47	38700	1.3	167	**2KJ4512 - ■ FM33 - ■ ■ F2**	
	9.3	3070	155.74	38900	1.4	167	**2KJ4512 - ■ FM33 - ■ ■ E2**	
	10	2850	144.53	39100	1.5	167	**2KJ4512 - ■ FM33 - ■ ■ D2**	
	11	2520	127.77	39400	1.7	167	**2KJ4512 - ■ FM33 - ■ ■ C2**	
	13	2250	114.06	39700	2.0	167	**2KJ4512 - ■ FM33 - ■ ■ B2**	
	14	2020	102.64	39900	2.2	167	**2KJ4512 - ■ FM33 - ■ ■ A2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**K.129-LEN132SE6E**							
	5.8	4 930	165.47	37 100	0.89	192	**2KJ4512 - ■ HF32 - ■ ■ F2**	**P01**
	K.129-LEN132SM6P							
	5.8	4 910	165.47	37 100	0.9	193	**2KJ4512 - ■ HF33 - ■ ■ F2**	**P01**
	K.149-LEN100LN4E							
	6.1	4 730	237.03	65 000	1.7	260	**2KJ4513 - ■ FP32 - ■ ■ J2**	
	7.1	4 050	202.86	65 000	2.0	260	**2KJ4513 - ■ FP32 - ■ ■ H2**	
	7.5	3 810	190.92	65 000	2.1	260	**2KJ4513 - ■ FP32 - ■ ■ G2**	
	K.149-LEN100LZ4P							
	6.1	4 680	237.03	65 000	1.7	250	**2KJ4513 - ■ FM33 - ■ ■ J2**	
	7.1	4 000	202.86	65 000	2.0	250	**2KJ4513 - ■ FM33 - ■ ■ H2**	
	7.6	3 770	190.92	65 000	2.1	250	**2KJ4513 - ■ FM33 - ■ ■ G2**	
	K.149-LEN132SE6E							
	4.1	7 070	237.03	65 000	1.1	275	**2KJ4513 - ■ HF32 - ■ ■ J2**	**P01**
	4.7	6 050	202.86	65 000	1.3	275	**2KJ4513 - ■ HF32 - ■ ■ H2**	**P01**
	5.0	5 690	190.92	65 000	1.4	275	**2KJ4513 - ■ HF32 - ■ ■ G2**	**P01**
	5.4	5 340	178.97	65 000	1.5	275	**2KJ4513 - ■ HF32 - ■ ■ F2**	**P01**
	K.149-LEN132SM6P							
	4.1	7 030	237.03	65 000	1.1	276	**2KJ4513 - ■ HF33 - ■ ■ J2**	**P01**
	4.8	6 020	202.86	65 000	1.3	276	**2KJ4513 - ■ HF33 - ■ ■ H2**	**P01**
	5.1	5 660	190.92	65 000	1.4	276	**2KJ4513 - ■ HF33 - ■ ■ G2**	**P01**
	5.4	5 310	178.97	65 000	1.5	276	**2KJ4513 - ■ HF33 - ■ ■ F2**	**P01**
	K.169-LEN132SE6E							
	4.3	6 660	223.30	70 000	2.0	445	**2KJ4514 - ■ HF32 - ■ ■ F2**	**P01**
	K.169-LEN132SM6P							
	4.3	6 630	223.30	70 000	2.0	446	**2KJ4514 - ■ HF33 - ■ ■ F2**	**P01**
	K.149-Z49-LEN100LN4E							
	2.9	9 180	488.00	65 000	0.87	278	**2KJ4535 - ■ FP32 - ■ ■ E1**	
	3.4	7 870	418.00	65 000	1.0	278	**2KJ4535 - ■ FP32 - ■ ■ D1**	
	3.9	6 920	368.00	65 000	1.2	278	**2KJ4535 - ■ FP32 - ■ ■ C1**	
	4.6	5 840	310.31	65 000	1.4	278	**2KJ4535 - ■ FP32 - ■ ■ B1**	
	5.3	5 090	270.46	65 000	1.6	278	**2KJ4535 - ■ FP32 - ■ ■ A1**	
	K.149-Z49-LEN100LZ4P							
	3.0	9 090	488.00	65 000	0.88	268	**2KJ4535 - ■ FM33 - ■ ■ E1**	
	3.5	7 780	418.00	65 000	1.0	268	**2KJ4535 - ■ FM33 - ■ ■ D1**	
	3.9	6 850	368.00	65 000	1.2	268	**2KJ4535 - ■ FM33 - ■ ■ C1**	
	4.7	5 780	310.31	65 000	1.4	268	**2KJ4535 - ■ FM33 - ■ ■ B1**	
	5.4	5 040	270.46	65 000	1.6	268	**2KJ4535 - ■ FM33 - ■ ■ A1**	
	K.169-Z49-LEN100LN4E							
	1.7	16 200	864.00	70 000	0.8	449	**2KJ4537 - ■ FP32 - ■ ■ G1**	
	2.0	13 800	735.00	70 000	0.94	449	**2KJ4537 - ■ FP32 - ■ ■ F1**	
	2.3	11 800	630.00	70 000	1.1	449	**2KJ4537 - ■ FP32 - ■ ■ E1**	
	2.6	10 400	554.00	70 000	1.2	449	**2KJ4537 - ■ FP32 - ■ ■ D1**	
	3.1	8 790	467.00	70 000	1.5	449	**2KJ4537 - ■ FP32 - ■ ■ C1**	
	3.4	7 830	416.00	70 000	1.7	449	**2KJ4537 - ■ FP32 - ■ ■ B1**	
	4.0	6 830	363.00	70 000	1.9	449	**2KJ4537 - ■ FP32 - ■ ■ A1**	
	K.169-Z49-LEN100LZ4P							
	1.7	16 000	864.00	70 000	0.81	439	**2KJ4537 - ■ FM33 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**K.169-Z49-LEN100LZ4P**							
	2.0	13 600	735.00	70000	0.95	439	**2KJ4537 - ■ FM33 - ■ ■ F1**	
	2.3	11 700	630.00	70000	1.1	439	**2KJ4537 - ■ FM33 - ■ ■ E1**	
	2.6	10 300	554.00	70000	1.3	439	**2KJ4537 - ■ FM33 - ■ ■ D1**	
	3.1	8 700	467.00	70000	1.5	439	**2KJ4537 - ■ FM33 - ■ ■ C1**	
	3.5	7 750	416.00	70000	1.7	439	**2KJ4537 - ■ FM33 - ■ ■ B1**	
	4.0	6 760	363.00	70000	1.9	439	**2KJ4537 - ■ FM33 - ■ ■ A1**	
	K.189-Z69-LEN100LN4E							
	1.1	24 200	1 287.00	104000	0.8	690	**2KJ4540 - ■ FP32 - ■ ■ L1**	
	1.3	20 400	1 086.00	104000	0.95	690	**2KJ4540 - ■ FP32 - ■ ■ K1**	
	1.5	17 800	946.00	104000	1.1	690	**2KJ4540 - ■ FP32 - ■ ■ J1**	
	1.6	16 700	889.00	104000	1.2	690	**2KJ4540 - ■ FP32 - ■ ■ H1**	
	1.9	14 200	756.00	104000	1.4	690	**2KJ4540 - ■ FP32 - ■ ■ G1**	
	2.2	12 200	648.00	104000	1.6	690	**2KJ4540 - ■ FP32 - ■ ■ F1**	
	2.5	10 700	570.00	104000	1.8	690	**2KJ4540 - ■ FP32 - ■ ■ E1**	
	K.189-Z69-LEN100LZ4P							
	1.1	23 900	1 287.00	104000	0.81	680	**2KJ4540 - ■ FM33 - ■ ■ L1**	
	1.3	20 200	1 086.00	104000	0.96	680	**2KJ4540 - ■ FM33 - ■ ■ K1**	
	1.5	17 600	946.00	104000	1.1	680	**2KJ4540 - ■ FM33 - ■ ■ J1**	
	1.6	16 500	889.00	104000	1.2	680	**2KJ4540 - ■ FM33 - ■ ■ H1**	
	1.9	14 000	756.00	104000	1.4	680	**2KJ4540 - ■ FM33 - ■ ■ G1**	
	2.2	12 000	648.00	104000	1.6	680	**2KJ4540 - ■ FM33 - ■ ■ F1**	
	2.5	10 600	570.00	104000	1.8	680	**2KJ4540 - ■ FM33 - ■ ■ E1**	
4	**B.39-LEN112MH4E**							
	135	280	10.69	4600	0.85	55	**2KJ4502 - ■ GJ32 - ■ ■ J1**	
	158	240	9.17	4600	0.95	55	**2KJ4502 - ■ GJ32 - ■ ■ H1**	
	183	205	7.89	4500	1.1	55	**2KJ4502 - ■ GJ32 - ■ ■ G1**	
	219	174	6.60	4600	1.1	55	**2KJ4502 - ■ GJ32 - ■ ■ F1**	
	233	164	6.21	4500	1.2	55	**2KJ4502 - ■ GJ32 - ■ ■ E1**	
	260	147	5.56	4400	1.4	55	**2KJ4502 - ■ GJ32 - ■ ■ D1**	
	305	125	4.74	4300	1.6	55	**2KJ4502 - ■ GJ32 - ■ ■ C1**	
	356	107	4.06	4100	1.9	55	**2KJ4502 - ■ GJ32 - ■ ■ B1**	
	413	92	3.50	4000	2.1	55	**2KJ4502 - ■ GJ32 - ■ ■ A1**	
	B.39-LEN112MR4P							
	136	280	10.69	4600	0.85	44	**2KJ4502 - ■ GJ33 - ■ ■ J1**	
	158	240	9.17	4600	0.95	44	**2KJ4502 - ■ GJ33 - ■ ■ H1**	
	184	205	7.89	4500	1.1	44	**2KJ4502 - ■ GJ33 - ■ ■ G1**	
	220	174	6.60	4500	1.2	44	**2KJ4502 - ■ GJ33 - ■ ■ F1**	
	233	164	6.21	4500	1.2	44	**2KJ4502 - ■ GJ33 - ■ ■ E1**	
	261	146	5.56	4400	1.4	44	**2KJ4502 - ■ GJ33 - ■ ■ D1**	
	306	125	4.74	4300	1.6	44	**2KJ4502 - ■ GJ33 - ■ ■ C1**	
	357	107	4.06	4100	1.9	44	**2KJ4502 - ■ GJ33 - ■ ■ B1**	
	414	92	3.50	4000	2.1	44	**2KJ4502 - ■ GJ33 - ■ ■ A1**	
	K.39-LEN112MH4E							
	181	210	7.99	2200	0.83	56	**2KJ4504 - ■ GJ32 - ■ ■ D1**	
	192	199	7.52	2200	0.86	56	**2KJ4504 - ■ GJ32 - ■ ■ C1**	
	218	175	6.63	2300	0.92	56	**2KJ4504 - ■ GJ32 - ■ ■ B1**	
	251	152	5.75	2400	0.99	56	**2KJ4504 - ■ GJ32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.39-LEN112MR4P**							
	181	210	7.99	2200	0.83	45	**2KJ4504 - ■ GJ33 - ■ ■ D1**	
	193	198	7.52	2300	0.86	45	**2KJ4504 - ■ GJ33 - ■ ■ C1**	
	219	175	6.63	2300	0.92	45	**2KJ4504 - ■ GJ33 - ■ ■ B1**	
	252	151	5.75	2400	0.99	45	**2KJ4504 - ■ GJ33 - ■ ■ A1**	
	B.49-LEN112MH4E							
	69	555	21.01	5100	0.81	60	**2KJ4503 - ■ GJ32 - ■ ■ R1**	
	73	520	19.77	5200	0.86	60	**2KJ4503 - ■ GJ32 - ■ ■ Q1**	
	77	490	18.67	5200	0.91	60	**2KJ4503 - ■ GJ32 - ■ ■ P1**	
	91	420	15.89	5200	1.1	60	**2KJ4503 - ■ GJ32 - ■ ■ N1**	
	106	360	13.61	5200	1.3	60	**2KJ4503 - ■ GJ32 - ■ ■ M1**	
	121	315	11.97	5200	1.4	60	**2KJ4503 - ■ GJ32 - ■ ■ L1**	
	143	265	10.10	5100	1.7	60	**2KJ4503 - ■ GJ32 - ■ ■ K1**	
	164	230	8.80	5100	1.9	60	**2KJ4503 - ■ GJ32 - ■ ■ J1**	
	174	215	8.29	5200	1.5	60	**2KJ4503 - ■ GJ32 - ■ ■ H1**	
	185	205	7.80	5100	1.6	60	**2KJ4503 - ■ GJ32 - ■ ■ G1**	
	196	195	7.37	5100	1.7	60	**2KJ4503 - ■ GJ32 - ■ ■ F1**	
	230	166	6.27	4900	2.0	60	**2KJ4503 - ■ GJ32 - ■ ■ E1**	
	269	142	5.37	4700	2.3	60	**2KJ4503 - ■ GJ32 - ■ ■ D1**	
	306	125	4.72	4600	2.6	60	**2KJ4503 - ■ GJ32 - ■ ■ C1**	
	363	105	3.98	4400	3.1	60	**2KJ4503 - ■ GJ32 - ■ ■ B1**	
	416	92	3.47	4300	3.5	60	**2KJ4503 - ■ GJ32 - ■ ■ A1**	
	B.49-LEN112MR4P							
	69	550	21.01	5100	0.81	49	**2KJ4503 - ■ GJ33 - ■ ■ R1**	
	73	520	19.77	5200	0.86	49	**2KJ4503 - ■ GJ33 - ■ ■ Q1**	
	78	490	18.67	5200	0.91	49	**2KJ4503 - ■ GJ33 - ■ ■ P1**	
	91	415	15.89	5300	1.1	49	**2KJ4503 - ■ GJ33 - ■ ■ N1**	
	107	355	13.61	5200	1.3	49	**2KJ4503 - ■ GJ33 - ■ ■ M1**	
	121	315	11.97	5200	1.4	49	**2KJ4503 - ■ GJ33 - ■ ■ L1**	
	144	265	10.10	5100	1.7	49	**2KJ4503 - ■ GJ33 - ■ ■ K1**	
	165	230	8.80	5000	1.9	49	**2KJ4503 - ■ GJ33 - ■ ■ J1**	
	175	215	8.29	5200	1.5	49	**2KJ4503 - ■ GJ33 - ■ ■ H1**	
	186	205	7.80	5100	1.6	49	**2KJ4503 - ■ GJ33 - ■ ■ G1**	
	197	194	7.37	5100	1.7	49	**2KJ4503 - ■ GJ33 - ■ ■ F1**	
	231	165	6.27	4900	2.0	49	**2KJ4503 - ■ GJ33 - ■ ■ E1**	
	270	141	5.37	4700	2.3	49	**2KJ4503 - ■ GJ33 - ■ ■ D1**	
	307	124	4.72	4600	2.7	49	**2KJ4503 - ■ GJ33 - ■ ■ C1**	
	364	105	3.98	4400	3.1	49	**2KJ4503 - ■ GJ33 - ■ ■ B1**	
	418	91	3.47	4300	3.6	49	**2KJ4503 - ■ GJ33 - ■ ■ A1**	
	K.49-LEN112MH4E							
	75	510	19.38	2400	0.82	63	**2KJ4505 - ■ GJ32 - ■ ■ M1**	
	79	480	18.24	2500	0.87	63	**2KJ4505 - ■ GJ32 - ■ ■ L1**	
	88	430	16.34	2700	0.97	63	**2KJ4505 - ■ GJ32 - ■ ■ K1**	
	104	365	13.91	2900	1.1	63	**2KJ4505 - ■ GJ32 - ■ ■ J1**	
	121	315	11.93	3000	1.3	63	**2KJ4505 - ■ GJ32 - ■ ■ H1**	
	141	270	10.27	3000	1.5	63	**2KJ4505 - ■ GJ32 - ■ ■ G1**	
	148	255	9.75	2900	1.1	63	**2KJ4505 - ■ GJ32 - ■ ■ F1**	
	157	240	9.18	3000	1.1	63	**2KJ4505 - ■ GJ32 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.49-LEN112MH4E**							
	176	215	8.22	3000	1.2	63	**2KJ4505 - ■ GJ32 - ■ ■ D1**	
	206	185	7.00	3000	1.3	63	**2KJ4505 - ■ GJ32 - ■ ■ C1**	
	241	159	6.00	3000	1.4	63	**2KJ4505 - ■ GJ32 - ■ ■ B1**	
	279	137	5.17	2900	1.5	63	**2KJ4505 - ■ GJ32 - ■ ■ A1**	
	K.49-LEN112MR4P							
	75	510	19.38	2400	0.82	52	**2KJ4505 - ■ GJ33 - ■ ■ M1**	
	79	480	18.24	2500	0.87	52	**2KJ4505 - ■ GJ33 - ■ ■ L1**	
	89	430	16.34	2700	0.98	52	**2KJ4505 - ■ GJ33 - ■ ■ K1**	
	104	365	13.91	2800	1.1	52	**2KJ4505 - ■ GJ33 - ■ ■ J1**	
	122	310	11.93	3000	1.3	52	**2KJ4505 - ■ GJ33 - ■ ■ H1**	
	141	270	10.27	3000	1.5	52	**2KJ4505 - ■ GJ33 - ■ ■ G1**	
	149	255	9.75	2900	1.1	52	**2KJ4505 - ■ GJ33 - ■ ■ F1**	
	158	240	9.18	2900	1.1	52	**2KJ4505 - ■ GJ33 - ■ ■ E1**	
	176	215	8.22	3000	1.2	52	**2KJ4505 - ■ GJ33 - ■ ■ D1**	
	207	184	7.00	3000	1.3	52	**2KJ4505 - ■ GJ33 - ■ ■ C1**	
	242	158	6.00	3000	1.4	52	**2KJ4505 - ■ GJ33 - ■ ■ B1**	
	280	136	5.17	2900	1.5	52	**2KJ4505 - ■ GJ33 - ■ ■ A1**	
	K.69-LEN112MH4E							
	55	685	26.05	4900	0.87	69	**2KJ4507 - ■ GJ32 - ■ ■ N1**	
	59	645	24.52	5000	0.92	69	**2KJ4507 - ■ GJ32 - ■ ■ M1**	
	62	610	23.15	5000	0.96	69	**2KJ4507 - ■ GJ32 - ■ ■ L1**	
	73	520	19.70	5200	1.1	69	**2KJ4507 - ■ GJ32 - ■ ■ K1**	
	86	445	16.88	5300	1.2	69	**2KJ4507 - ■ GJ32 - ■ ■ J1**	
	97	390	14.84	5300	1.3	69	**2KJ4507 - ■ GJ32 - ■ ■ H1**	
	115	330	12.52	5300	1.5	69	**2KJ4507 - ■ GJ32 - ■ ■ G1**	
	132	285	10.91	5300	1.6	69	**2KJ4507 - ■ GJ32 - ■ ■ F1**	
	155	245	9.34	4700	1.5	69	**2KJ4507 - ■ GJ32 - ■ ■ E1**	
	180	210	8.01	4700	1.7	69	**2KJ4507 - ■ GJ32 - ■ ■ D1**	
	205	186	7.04	4600	2.0	69	**2KJ4507 - ■ GJ32 - ■ ■ C1**	
	243	157	5.94	4500	2.2	69	**2KJ4507 - ■ GJ32 - ■ ■ B1**	
	279	137	5.18	4400	2.4	69	**2KJ4507 - ■ GJ32 - ■ ■ A1**	
	K.69-LEN112MR4P							
	56	685	26.05	4900	0.87	58	**2KJ4507 - ■ GJ33 - ■ ■ N1**	
	59	645	24.52	4900	0.92	58	**2KJ4507 - ■ GJ33 - ■ ■ M1**	
	63	610	23.15	5000	0.96	58	**2KJ4507 - ■ GJ33 - ■ ■ L1**	
	74	515	19.70	5200	1.1	58	**2KJ4507 - ■ GJ33 - ■ ■ K1**	
	86	445	16.88	5200	1.2	58	**2KJ4507 - ■ GJ33 - ■ ■ J1**	
	98	390	14.84	5300	1.3	58	**2KJ4507 - ■ GJ33 - ■ ■ H1**	
	116	330	12.52	5300	1.5	58	**2KJ4507 - ■ GJ33 - ■ ■ G1**	
	133	285	10.91	5200	1.6	58	**2KJ4507 - ■ GJ33 - ■ ■ F1**	
	155	245	9.34	4700	1.5	58	**2KJ4507 - ■ GJ33 - ■ ■ E1**	
	181	210	8.01	4700	1.7	58	**2KJ4507 - ■ GJ33 - ■ ■ D1**	
	206	185	7.04	4600	2.0	58	**2KJ4507 - ■ GJ33 - ■ ■ C1**	
	244	156	5.94	4500	2.2	58	**2KJ4507 - ■ GJ33 - ■ ■ B1**	
	280	136	5.18	4400	2.4	58	**2KJ4507 - ■ GJ33 - ■ ■ A1**	
	K.79-LEN112MH4E							
	40	955	36.26	13700	0.8	75	**2KJ4508 - ■ GJ32 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.79-LEN112MH4E**							
	44	865	32.78	13800	0.95	75	**2KJ4508 - ■ GJ32 - ■ ■ P1**	
	53	715	27.20	14100	1.1	75	**2KJ4508 - ■ GJ32 - ■ ■ N1**	
	56	675	25.60	14200	1.2	75	**2KJ4508 - ■ GJ32 - ■ ■ M1**	
	60	635	24.17	14300	1.2	75	**2KJ4508 - ■ GJ32 - ■ ■ L1**	
	70	540	20.57	14400	1.4	75	**2KJ4508 - ■ GJ32 - ■ ■ K1**	
	82	465	17.62	14400	1.5	75	**2KJ4508 - ■ GJ32 - ■ ■ J1**	
	93	405	15.49	14400	1.7	75	**2KJ4508 - ■ GJ32 - ■ ■ H1**	
	111	345	13.07	14400	1.9	75	**2KJ4508 - ■ GJ32 - ■ ■ G1**	
	127	300	11.39	14000	2.1	75	**2KJ4508 - ■ GJ32 - ■ ■ F1**	
	137	275	10.51	13700	1.6	75	**2KJ4508 - ■ GJ32 - ■ ■ E1**	
	160	235	9.01	13200	1.9	75	**2KJ4508 - ■ GJ32 - ■ ■ D1**	
	182	205	7.92	12800	2.1	75	**2KJ4508 - ■ GJ32 - ■ ■ C1**	
	216	177	6.68	12300	2.6	75	**2KJ4508 - ■ GJ32 - ■ ■ B1**	
	248	154	5.82	11900	2.8	75	**2KJ4508 - ■ GJ32 - ■ ■ A1**	
	K.79-LEN112MR4P							
	40	955	36.26	13700	0.81	64	**2KJ4508 - ■ GJ33 - ■ ■ Q1**	
	44	860	32.78	13800	0.95	64	**2KJ4508 - ■ GJ33 - ■ ■ P1**	
	53	715	27.20	14100	1.1	64	**2KJ4508 - ■ GJ33 - ■ ■ N1**	
	57	670	25.60	14200	1.2	64	**2KJ4508 - ■ GJ33 - ■ ■ M1**	
	60	635	24.17	14300	1.2	64	**2KJ4508 - ■ GJ33 - ■ ■ L1**	
	70	540	20.57	14400	1.4	64	**2KJ4508 - ■ GJ33 - ■ ■ K1**	
	82	460	17.62	14400	1.5	64	**2KJ4508 - ■ GJ33 - ■ ■ J1**	
	94	405	15.49	14400	1.7	64	**2KJ4508 - ■ GJ33 - ■ ■ H1**	
	111	340	13.07	14400	1.9	64	**2KJ4508 - ■ GJ33 - ■ ■ G1**	
	127	300	11.39	14000	2.1	64	**2KJ4508 - ■ GJ33 - ■ ■ F1**	
	138	275	10.51	13600	1.6	64	**2KJ4508 - ■ GJ33 - ■ ■ E1**	
	161	235	9.01	13200	1.9	64	**2KJ4508 - ■ GJ33 - ■ ■ D1**	
	183	205	7.92	12800	2.2	64	**2KJ4508 - ■ GJ33 - ■ ■ C1**	
	217	176	6.68	12300	2.6	64	**2KJ4508 - ■ GJ33 - ■ ■ B1**	
	249	153	5.82	11900	2.8	64	**2KJ4508 - ■ GJ33 - ■ ■ A1**	
	K.89-LEN112MH4E							
	20	1 940	73.64	18100	0.82	95	**2KJ4510 - ■ GJ32 - ■ ■ W1**	
	22	1 700	64.39	18100	0.94	95	**2KJ4510 - ■ GJ32 - ■ ■ V1**	
	26	1 460	55.27	18100	1.1	95	**2KJ4510 - ■ GJ32 - ■ ■ U1**	
	30	1 290	48.85	18100	1.2	95	**2KJ4510 - ■ GJ32 - ■ ■ T1**	
	35	1 090	41.54	18100	1.4	95	**2KJ4510 - ■ GJ32 - ■ ■ S1**	
	37	1 030	39.29	18100	1.5	95	**2KJ4510 - ■ GJ32 - ■ ■ R1**	
	44	870	32.96	18100	1.8	95	**2KJ4510 - ■ GJ32 - ■ ■ Q1**	
	47	820	31.03	18100	2.0	95	**2KJ4510 - ■ GJ32 - ■ ■ P1**	
	51	750	28.46	18100	2.1	95	**2KJ4510 - ■ GJ32 - ■ ■ N1**	
	58	655	24.86	18100	2.4	95	**2KJ4510 - ■ GJ32 - ■ ■ M1**	
	65	585	22.26	18100	2.7	95	**2KJ4510 - ■ GJ32 - ■ ■ L1**	
	74	510	19.46	18100	3.0	95	**2KJ4510 - ■ GJ32 - ■ ■ K1**	
	137	275	10.51	18100	3.0	95	**2KJ4510 - ■ GJ32 - ■ ■ E1**	
	160	235	9.02	18100	3.4	95	**2KJ4510 - ■ GJ32 - ■ ■ D1**	
	181	210	7.97	18000	3.7	95	**2KJ4510 - ■ GJ32 - ■ ■ C1**	
	213	179	6.78	17300	4.0	95	**2KJ4510 - ■ GJ32 - ■ ■ B1**	
	249	154	5.81	16600	4.4	95	**2KJ4510 - ■ GJ32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.89-LEN112MR4P**							
	20	1 940	73.64	18 100	0.82	84	**2KJ4510 - ■ GJ33 - ■ ■ W1**	
	23	1 690	64.39	18 100	0.94	84	**2KJ4510 - ■ GJ33 - ■ ■ V1**	
	26	1 450	55.27	18 100	1.1	84	**2KJ4510 - ■ GJ33 - ■ ■ U1**	
	30	1 280	48.85	18 100	1.2	84	**2KJ4510 - ■ GJ33 - ■ ■ T1**	
	35	1 090	41.54	18 100	1.4	84	**2KJ4510 - ■ GJ33 - ■ ■ S1**	
	37	1 030	39.29	18 100	1.5	84	**2KJ4510 - ■ GJ33 - ■ ■ R1**	
	44	865	32.96	18 100	1.8	84	**2KJ4510 - ■ GJ33 - ■ ■ Q1**	
	47	815	31.03	18 100	2.0	84	**2KJ4510 - ■ GJ33 - ■ ■ P1**	
	51	750	28.46	18 100	2.1	84	**2KJ4510 - ■ GJ33 - ■ ■ N1**	
	58	655	24.86	18 100	2.4	84	**2KJ4510 - ■ GJ33 - ■ ■ M1**	
	65	585	22.26	18 100	2.7	84	**2KJ4510 - ■ GJ33 - ■ ■ L1**	
	75	510	19.46	18 100	3.0	84	**2KJ4510 - ■ GJ33 - ■ ■ K1**	
	138	275	10.51	18 100	3.1	84	**2KJ4510 - ■ GJ33 - ■ ■ E1**	
	161	235	9.02	18 100	3.4	84	**2KJ4510 - ■ GJ33 - ■ ■ D1**	
	182	210	7.97	18 000	3.7	84	**2KJ4510 - ■ GJ33 - ■ ■ C1**	
	214	179	6.78	17 300	4.0	84	**2KJ4510 - ■ GJ33 - ■ ■ B1**	
	250	153	5.81	16 600	4.4	84	**2KJ4510 - ■ GJ33 - ■ ■ A1**	
	K.109-LEN112MH4E							
	11	3 330	126.07	24 500	0.87	131	**2KJ4511 - ■ GJ32 - ■ ■ C2**	
	12	3 130	118.65	24 500	0.92	131	**2KJ4511 - ■ GJ32 - ■ ■ B2**	
	13	2 890	109.57	24 500	1.0	131	**2KJ4511 - ■ GJ32 - ■ ■ A2**	
	15	2 570	97.49	24 500	1.1	131	**2KJ4511 - ■ GJ32 - ■ ■ X1**	
	17	2 280	86.59	24 500	1.3	131	**2KJ4511 - ■ GJ32 - ■ ■ W1**	
	19	2 040	77.51	24 500	1.4	131	**2KJ4511 - ■ GJ32 - ■ ■ V1**	
	22	1 750	66.26	24 500	1.7	131	**2KJ4511 - ■ GJ32 - ■ ■ U1**	
	24	1 560	59.17	24 500	1.9	131	**2KJ4511 - ■ GJ32 - ■ ■ T1**	
	28	1 380	52.29	24 500	2.1	131	**2KJ4511 - ■ GJ32 - ■ ■ S1**	
	31	1 210	45.89	24 500	2.4	131	**2KJ4511 - ■ GJ32 - ■ ■ R1**	
	K.109-LEN112MR4P							
	12	3 120	118.65	24 500	0.93	120	**2KJ4511 - ■ GJ33 - ■ ■ B2**	
	12	3 320	126.07	24 500	0.87	120	**2KJ4511 - ■ GJ33 - ■ ■ C2**	
	13	2 880	109.57	24 500	1.0	120	**2KJ4511 - ■ GJ33 - ■ ■ A2**	
	15	2 560	97.49	24 500	1.1	120	**2KJ4511 - ■ GJ33 - ■ ■ X1**	
	17	2 280	86.59	24 500	1.3	120	**2KJ4511 - ■ GJ33 - ■ ■ W1**	
	19	2 040	77.51	24 500	1.4	120	**2KJ4511 - ■ GJ33 - ■ ■ V1**	
	22	1 740	66.26	24 500	1.7	120	**2KJ4511 - ■ GJ33 - ■ ■ U1**	
	25	1 550	59.17	24 500	1.9	120	**2KJ4511 - ■ GJ33 - ■ ■ T1**	
	28	1 370	52.29	24 500	2.1	120	**2KJ4511 - ■ GJ33 - ■ ■ S1**	
	32	1 200	45.89	24 500	2.4	120	**2KJ4511 - ■ GJ33 - ■ ■ R1**	
	K.129-LEN112MH4E							
	7.4	5 130	194.04	36 900	0.86	181	**2KJ4512 - ■ GJ32 - ■ ■ G2**	
	8.7	4 370	165.47	37 600	1.0	181	**2KJ4512 - ■ GJ32 - ■ ■ F2**	
	9.3	4 110	155.74	37 900	1.1	181	**2KJ4512 - ■ GJ32 - ■ ■ E2**	
	10	3 820	144.53	38 200	1.2	181	**2KJ4512 - ■ GJ32 - ■ ■ D2**	
	11	3 370	127.77	38 600	1.3	181	**2KJ4512 - ■ GJ32 - ■ ■ C2**	
	13	3 010	114.06	39 000	1.5	181	**2KJ4512 - ■ GJ32 - ■ ■ B2**	
	14	2 710	102.64	39 200	1.6	181	**2KJ4512 - ■ GJ32 - ■ ■ A2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.129-LEN112MH4E**							
	16	2 350	89.09	39600	1.9	181	**2KJ4512 - ■ GJ32 - ■ ■ X1**	
	18	2 110	80.12	39800	2.1	181	**2KJ4512 - ■ GJ32 - ■ ■ W1**	
	21	1 850	70.03	40000	2.4	181	**2KJ4512 - ■ GJ32 - ■ ■ V1**	
	K.129-LEN112MR4P							
	7.5	5 110	194.04	36900	0.86	170	**2KJ4512 - ■ GJ33 - ■ ■ G2**	
	8.8	4 350	165.47	37600	1.0	170	**2KJ4512 - ■ GJ33 - ■ ■ F2**	
	9.3	4 100	155.74	37900	1.1	170	**2KJ4512 - ■ GJ33 - ■ ■ E2**	
	10	3 800	144.53	38200	1.2	170	**2KJ4512 - ■ GJ33 - ■ ■ D2**	
	11	3 360	127.77	38600	1.3	170	**2KJ4512 - ■ GJ33 - ■ ■ C2**	
	13	3 000	114.06	39000	1.5	170	**2KJ4512 - ■ GJ33 - ■ ■ B2**	
	14	2 700	102.64	39300	1.6	170	**2KJ4512 - ■ GJ33 - ■ ■ A2**	
	16	2 340	89.09	39600	1.9	170	**2KJ4512 - ■ GJ33 - ■ ■ X1**	
	18	2 110	80.12	39800	2.1	170	**2KJ4512 - ■ GJ33 - ■ ■ W1**	
	21	1 840	70.03	40000	2.4	170	**2KJ4512 - ■ GJ33 - ■ ■ V1**	
	K.149-LEN112MH4E							
	6.1	6 260	237.03	65000	1.3	265	**2KJ4513 - ■ GJ32 - ■ ■ J2**	
	7.1	5 360	202.86	65000	1.5	265	**2KJ4513 - ■ GJ32 - ■ ■ H2**	
	7.6	5 040	190.92	65000	1.6	265	**2KJ4513 - ■ GJ32 - ■ ■ G2**	
	8.1	4 730	178.97	65000	1.7	265	**2KJ4513 - ■ GJ32 - ■ ■ F2**	
	9.1	4 190	158.65	65000	1.9	265	**2KJ4513 - ■ GJ32 - ■ ■ E2**	
	10	3 720	140.93	65000	2.1	265	**2KJ4513 - ■ GJ32 - ■ ■ D2**	
	K.149-LEN112MR4P							
	6.1	6 240	237.03	65000	1.3	254	**2KJ4513 - ■ GJ33 - ■ ■ J2**	
	7.1	5 340	202.86	65000	1.5	254	**2KJ4513 - ■ GJ33 - ■ ■ H2**	
	7.6	5 030	190.92	65000	1.6	254	**2KJ4513 - ■ GJ33 - ■ ■ G2**	
	8.1	4 710	178.97	65000	1.7	254	**2KJ4513 - ■ GJ33 - ■ ■ F2**	
	9.1	4 180	158.65	65000	1.9	254	**2KJ4513 - ■ GJ33 - ■ ■ E2**	
	10	3 710	140.93	65000	2.2	254	**2KJ4513 - ■ GJ33 - ■ ■ D2**	
	K.149-LEN132ME6E							
	4.1	9 430	237.03	65000	0.85	285	**2KJ4513 - ■ HH32 - ■ ■ J2**	**P01**
	4.7	8 070	202.86	65000	0.99	285	**2KJ4513 - ■ HH32 - ■ ■ H2**	**P01**
	5.0	7 590	190.92	65000	1.1	285	**2KJ4513 - ■ HH32 - ■ ■ G2**	**P01**
	5.4	7 120	178.97	65000	1.1	285	**2KJ4513 - ■ HH32 - ■ ■ F2**	**P01**
	K.149-LEN132ML6P							
	4.0	9 480	237.03	65000	0.84	281	**2KJ4513 - ■ HH33 - ■ ■ J2**	**P01**
	4.7	8 110	202.86	65000	0.99	281	**2KJ4513 - ■ HH33 - ■ ■ H2**	**P01**
	5.0	7 630	190.92	65000	1.0	281	**2KJ4513 - ■ HH33 - ■ ■ G2**	**P01**
	5.3	7 150	178.97	65000	1.1	281	**2KJ4513 - ■ HH33 - ■ ■ F2**	**P01**
	K.169-LEN132ME6E							
	4.3	8 880	223.30	70000	1.5	455	**2KJ4514 - ■ HH32 - ■ ■ F2**	**P01**
	4.6	8 290	208.35	70000	1.6	455	**2KJ4514 - ■ HH32 - ■ ■ E2**	**P01**
	5.2	7 370	185.23	70000	1.8	455	**2KJ4514 - ■ HH32 - ■ ■ D2**	**P01**
	5.8	6 610	166.31	70000	2.0	455	**2KJ4514 - ■ HH32 - ■ ■ C2**	**P01**
	K.169-LEN132ML6P							
	4.3	8 930	223.30	70000	1.5	451	**2KJ4514 - ■ HH33 - ■ ■ F2**	**P01**
	4.6	8 330	208.35	70000	1.6	451	**2KJ4514 - ■ HH33 - ■ ■ E2**	**P01**
	5.2	7 400	185.23	70000	1.8	451	**2KJ4514 - ■ HH33 - ■ ■ D2**	**P01**
	5.7	6 650	166.31	70000	2.0	451	**2KJ4514 - ■ HH33 - ■ ■ C2**	**P01**

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**K.149-Z49-LEN112MH4E**							
	3.9	9 190	368.00	65000	0.87	283	**2KJ4535 - ■ GJ32 - ■ ■ C1**	
	4.7	7 750	310.31	65000	1.0	283	**2KJ4535 - ■ GJ32 - ■ ■ B1**	
	5.3	6 750	270.46	65000	1.2	283	**2KJ4535 - ■ GJ32 - ■ ■ A1**	
	K.149-Z49-LEN112MR4P							
	3.9	9 160	368.00	65000	0.87	272	**2KJ4535 - ■ GJ33 - ■ ■ C1**	
	4.7	7 720	310.31	65000	1.0	272	**2KJ4535 - ■ GJ33 - ■ ■ B1**	
	5.4	6 730	270.46	65000	1.2	272	**2KJ4535 - ■ GJ33 - ■ ■ A1**	
	K.169-Z49-LEN112MH4E							
	2.3	15 700	630.00	70000	0.83	454	**2KJ4537 - ■ GJ32 - ■ ■ E1**	
	2.6	13 800	554.00	70000	0.94	454	**2KJ4537 - ■ GJ32 - ■ ■ D1**	
	3.1	11 600	467.00	70000	1.1	454	**2KJ4537 - ■ GJ32 - ■ ■ C1**	
	3.5	10 300	416.00	70000	1.3	454	**2KJ4537 - ■ GJ32 - ■ ■ B1**	
	4.0	9 060	363.00	70000	1.4	454	**2KJ4537 - ■ GJ32 - ■ ■ A1**	
	K.169-Z49-LEN112MR4P							
	2.3	15 600	630.00	70000	0.83	443	**2KJ4537 - ■ GJ33 - ■ ■ E1**	
	2.6	13 700	554.00	70000	0.94	443	**2KJ4537 - ■ GJ33 - ■ ■ D1**	
	3.1	11 600	467.00	70000	1.1	443	**2KJ4537 - ■ GJ33 - ■ ■ C1**	
	3.5	10 300	416.00	70000	1.3	443	**2KJ4537 - ■ GJ33 - ■ ■ B1**	
	4.0	9 030	363.00	70000	1.4	443	**2KJ4537 - ■ GJ33 - ■ ■ A1**	
	K.189-Z69-LEN112MH4E							
	1.5	23 600	946.00	104000	0.83	695	**2KJ4540 - ■ GJ32 - ■ ■ J1**	
	1.6	22 200	889.00	104000	0.88	695	**2KJ4540 - ■ GJ32 - ■ ■ H1**	
	1.9	18 800	756.00	104000	1.0	695	**2KJ4540 - ■ GJ32 - ■ ■ G1**	
	2.2	16 100	648.00	104000	1.2	695	**2KJ4540 - ■ GJ32 - ■ ■ F1**	
	2.5	14 200	570.00	104000	1.4	695	**2KJ4540 - ■ GJ32 - ■ ■ E1**	
	3.0	12 000	481.00	104000	1.6	695	**2KJ4540 - ■ GJ32 - ■ ■ D1**	
	3.4	10 400	419.00	104000	1.9	695	**2KJ4540 - ■ GJ32 - ■ ■ C1**	
	3.8	9 590	384.00	104000	2.0	695	**2KJ4540 - ■ GJ32 - ■ ■ B1**	
	K.189-Z69-LEN112MR4P							
	1.5	23 500	946.00	104000	0.83	684	**2KJ4540 - ■ GJ33 - ■ ■ J1**	
	1.6	22 100	889.00	104000	0.88	684	**2KJ4540 - ■ GJ33 - ■ ■ H1**	
	1.9	18 800	756.00	104000	1.0	684	**2KJ4540 - ■ GJ33 - ■ ■ G1**	
	2.2	16 100	648.00	104000	1.2	684	**2KJ4540 - ■ GJ33 - ■ ■ F1**	
	2.5	14 100	570.00	104000	1.4	684	**2KJ4540 - ■ GJ33 - ■ ■ E1**	
	3.0	11 900	481.00	104000	1.6	684	**2KJ4540 - ■ GJ33 - ■ ■ D1**	
	3.5	10 400	419.00	104000	1.9	684	**2KJ4540 - ■ GJ33 - ■ ■ C1**	
	3.8	9 560	384.00	104000	2.0	684	**2KJ4540 - ■ GJ33 - ■ ■ B1**	
5.5	**B.49-LEN132SJ4E**							
	107	490	13.61	4300	0.92	76	**2KJ4503 - ■ HG32 - ■ ■ M1**	
	122	430	11.97	4400	1.0	76	**2KJ4503 - ■ HG32 - ■ ■ L1**	
	145	360	10.10	4500	1.2	76	**2KJ4503 - ■ HG32 - ■ ■ K1**	
	166	315	8.80	4500	1.4	76	**2KJ4503 - ■ HG32 - ■ ■ J1**	
	176	295	8.29	4700	1.1	76	**2KJ4503 - ■ HG32 - ■ ■ H1**	
	187	280	7.80	4700	1.2	76	**2KJ4503 - ■ HG32 - ■ ■ G1**	
	198	265	7.37	4600	1.2	76	**2KJ4503 - ■ HG32 - ■ ■ F1**	
	233	225	6.27	4500	1.5	76	**2KJ4503 - ■ HG32 - ■ ■ E1**	
	272	193	5.37	4400	1.7	76	**2KJ4503 - ■ HG32 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**B.49-LEN132SJ4E**							
	309	170	4.72	4300	1.9	76	**2KJ4503 - ■ HG32 - ■ ■ C1**	
	367	143	3.98	4200	2.3	76	**2KJ4503 - ■ HG32 - ■ ■ B1**	
	421	125	3.47	4100	2.6	76	**2KJ4503 - ■ HG32 - ■ ■ A1**	
	B.49-LEN132SR4P							
	107	490	13.61	4300	0.92	79	**2KJ4503 - ■ HG33 - ■ ■ M1**	
	122	430	11.97	4400	1.0	79	**2KJ4503 - ■ HG33 - ■ ■ L1**	
	144	365	10.10	4400	1.2	79	**2KJ4503 - ■ HG33 - ■ ■ K1**	
	165	315	8.80	4500	1.4	79	**2KJ4503 - ■ HG33 - ■ ■ J1**	
	176	295	8.29	4700	1.1	79	**2KJ4503 - ■ HG33 - ■ ■ H1**	
	187	280	7.80	4700	1.2	79	**2KJ4503 - ■ HG33 - ■ ■ G1**	
	197	265	7.37	4600	1.2	79	**2KJ4503 - ■ HG33 - ■ ■ F1**	
	232	225	6.27	4500	1.5	79	**2KJ4503 - ■ HG33 - ■ ■ E1**	
	271	194	5.37	4400	1.7	79	**2KJ4503 - ■ HG33 - ■ ■ D1**	
	308	170	4.72	4300	1.9	79	**2KJ4503 - ■ HG33 - ■ ■ C1**	
	366	144	3.98	4200	2.3	79	**2KJ4503 - ■ HG33 - ■ ■ B1**	
	419	125	3.47	4100	2.6	79	**2KJ4503 - ■ HG33 - ■ ■ A1**	
	K.49-LEN132SJ4E							
	105	500	13.91	1800	0.84	79	**2KJ4505 - ■ HG32 - ■ ■ J1**	
	122	425	11.93	2100	0.98	79	**2KJ4505 - ■ HG32 - ■ ■ H1**	
	142	365	10.27	2300	1.1	79	**2KJ4505 - ■ HG32 - ■ ■ G1**	
	159	330	9.18	2200	0.82	79	**2KJ4505 - ■ HG32 - ■ ■ E1**	
	178	295	8.22	2300	0.86	79	**2KJ4505 - ■ HG32 - ■ ■ D1**	
	209	250	7.00	2400	0.95	79	**2KJ4505 - ■ HG32 - ■ ■ C1**	
	243	215	6.00	2500	1.0	79	**2KJ4505 - ■ HG32 - ■ ■ B1**	
	282	186	5.17	2500	1.1	79	**2KJ4505 - ■ HG32 - ■ ■ A1**	
	K.49-LEN132SR4P							
	105	500	13.91	1800	0.84	82	**2KJ4505 - ■ HG33 - ■ ■ J1**	
	122	430	11.93	2000	0.98	82	**2KJ4505 - ■ HG33 - ■ ■ H1**	
	142	370	10.27	2200	1.1	82	**2KJ4505 - ■ HG33 - ■ ■ G1**	
	158	330	9.18	2200	0.81	82	**2KJ4505 - ■ HG33 - ■ ■ E1**	
	177	295	8.22	2300	0.86	82	**2KJ4505 - ■ HG33 - ■ ■ D1**	
	208	250	7.00	2400	0.95	82	**2KJ4505 - ■ HG33 - ■ ■ C1**	
	242	215	6.00	2500	1.0	82	**2KJ4505 - ■ HG33 - ■ ■ B1**	
	281	187	5.17	2500	1.1	82	**2KJ4505 - ■ HG33 - ■ ■ A1**	
	K.69-LEN132SJ4E							
	86	605	16.88	4100	0.87	85	**2KJ4507 - ■ HG32 - ■ ■ J1**	
	98	530	14.84	4300	0.96	85	**2KJ4507 - ■ HG32 - ■ ■ H1**	
	117	450	12.52	4400	1.1	85	**2KJ4507 - ■ HG32 - ■ ■ G1**	
	134	390	10.91	4500	1.2	85	**2KJ4507 - ■ HG32 - ■ ■ F1**	
	156	335	9.34	3900	1.1	85	**2KJ4507 - ■ HG32 - ■ ■ E1**	
	182	285	8.01	4000	1.3	85	**2KJ4507 - ■ HG32 - ■ ■ D1**	
	207	250	7.04	4000	1.4	85	**2KJ4507 - ■ HG32 - ■ ■ C1**	
	246	210	5.94	4000	1.6	85	**2KJ4507 - ■ HG32 - ■ ■ B1**	
	282	186	5.18	4000	1.8	85	**2KJ4507 - ■ HG32 - ■ ■ A1**	
	K.69-LEN132SR4P							
	86	605	16.88	4100	0.87	88	**2KJ4507 - ■ HG33 - ■ ■ J1**	
	98	535	14.84	4200	0.96	88	**2KJ4507 - ■ HG33 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**K.69-LEN132SR4P**							
	116	450	12.52	4400	1.1	88	**2KJ4507 - ■ HG33 - ■ ■ G1**	
	133	390	10.91	4500	1.2	88	**2KJ4507 - ■ HG33 - ■ ■ F1**	
	156	335	9.34	3900	1.1	88	**2KJ4507 - ■ HG33 - ■ ■ E1**	
	182	285	8.01	4000	1.3	88	**2KJ4507 - ■ HG33 - ■ ■ D1**	
	207	250	7.04	4000	1.4	88	**2KJ4507 - ■ HG33 - ■ ■ C1**	
	245	210	5.94	4000	1.6	88	**2KJ4507 - ■ HG33 - ■ ■ B1**	
	281	187	5.18	4000	1.8	88	**2KJ4507 - ■ HG33 - ■ ■ A1**	
	K.79-LEN132SJ4E							
	54	975	27.20	13600	0.82	91	**2KJ4508 - ■ HG32 - ■ ■ N1**	
	57	920	25.60	13700	0.85	91	**2KJ4508 - ■ HG32 - ■ ■ M1**	
	60	870	24.17	13800	0.89	91	**2KJ4508 - ■ HG32 - ■ ■ L1**	
	71	740	20.57	14100	1.0	91	**2KJ4508 - ■ HG32 - ■ ■ K1**	
	83	630	17.62	14300	1.1	91	**2KJ4508 - ■ HG32 - ■ ■ J1**	
	94	555	15.49	14000	1.2	91	**2KJ4508 - ■ HG32 - ■ ■ H1**	
	112	470	13.07	13700	1.4	91	**2KJ4508 - ■ HG32 - ■ ■ G1**	
	128	410	11.39	13300	1.6	91	**2KJ4508 - ■ HG32 - ■ ■ F1**	
	139	375	10.51	13000	1.2	91	**2KJ4508 - ■ HG32 - ■ ■ E1**	
	162	320	9.01	12600	1.4	91	**2KJ4508 - ■ HG32 - ■ ■ D1**	
	184	285	7.92	12300	1.6	91	**2KJ4508 - ■ HG32 - ■ ■ C1**	
	219	240	6.68	11900	1.9	91	**2KJ4508 - ■ HG32 - ■ ■ B1**	
	251	205	5.82	11500	2.1	91	**2KJ4508 - ■ HG32 - ■ ■ A1**	
	K.79-LEN132SR4P							
	53	980	27.20	13600	0.81	94	**2KJ4508 - ■ HG33 - ■ ■ N1**	
	57	920	25.60	13700	0.85	94	**2KJ4508 - ■ HG33 - ■ ■ M1**	
	60	870	24.17	13800	0.88	94	**2KJ4508 - ■ HG33 - ■ ■ L1**	
	71	740	20.57	14100	1.0	94	**2KJ4508 - ■ HG33 - ■ ■ K1**	
	83	635	17.62	14300	1.1	94	**2KJ4508 - ■ HG33 - ■ ■ J1**	
	94	555	15.49	14000	1.2	94	**2KJ4508 - ■ HG33 - ■ ■ H1**	
	111	470	13.07	13700	1.4	94	**2KJ4508 - ■ HG33 - ■ ■ G1**	
	128	410	11.39	13400	1.6	94	**2KJ4508 - ■ HG33 - ■ ■ F1**	
	138	375	10.51	13000	1.2	94	**2KJ4508 - ■ HG33 - ■ ■ E1**	
	161	325	9.01	12600	1.4	94	**2KJ4508 - ■ HG33 - ■ ■ D1**	
	184	285	7.92	12300	1.6	94	**2KJ4508 - ■ HG33 - ■ ■ C1**	
	218	240	6.68	11900	1.9	94	**2KJ4508 - ■ HG33 - ■ ■ B1**	
	250	210	5.82	11500	2.0	94	**2KJ4508 - ■ HG33 - ■ ■ A1**	
	K.89-LEN132SJ4E							
	26	1 980	55.27	18100	0.8	112	**2KJ4510 - ■ HG32 - ■ ■ U1**	
	30	1 750	48.85	18100	0.91	112	**2KJ4510 - ■ HG32 - ■ ■ T1**	
	35	1 490	41.54	18100	1.1	112	**2KJ4510 - ■ HG32 - ■ ■ S1**	
	37	1 410	39.29	18100	1.1	112	**2KJ4510 - ■ HG32 - ■ ■ R1**	
	44	1 180	32.96	18100	1.3	112	**2KJ4510 - ■ HG32 - ■ ■ Q1**	
	47	1 110	31.03	18100	1.4	112	**2KJ4510 - ■ HG32 - ■ ■ P1**	
	51	1 020	28.46	18100	1.6	112	**2KJ4510 - ■ HG32 - ■ ■ N1**	
	59	890	24.86	18100	1.8	112	**2KJ4510 - ■ HG32 - ■ ■ M1**	
	66	800	22.26	18100	2.0	112	**2KJ4510 - ■ HG32 - ■ ■ L1**	
	75	700	19.46	18100	2.2	112	**2KJ4510 - ■ HG32 - ■ ■ K1**	
	87	600	16.71	18100	2.5	112	**2KJ4510 - ■ HG32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**K.89-LEN132SJ4E**							
	99	530	14.77	18100	2.7	112	**2KJ4510 - ■ HG32 - ■ ■ H1**	
	116	450	12.56	18100	2.9	112	**2KJ4510 - ■ HG32 - ■ ■ G1**	
	136	385	10.76	18100	3.2	112	**2KJ4510 - ■ HG32 - ■ ■ F1**	
	139	375	10.51	18100	2.2	112	**2KJ4510 - ■ HG32 - ■ ■ E1**	
	162	325	9.02	18100	2.5	112	**2KJ4510 - ■ HG32 - ■ ■ D1**	
	183	285	7.97	17600	2.7	112	**2KJ4510 - ■ HG32 - ■ ■ C1**	
	215	240	6.78	16900	3.0	112	**2KJ4510 - ■ HG32 - ■ ■ B1**	
	251	205	5.81	16300	3.2	112	**2KJ4510 - ■ HG32 - ■ ■ A1**	
	K.89-LEN132SR4P							
	26	1 990	55.27	18100	0.8	115	**2KJ4510 - ■ HG33 - ■ ■ U1**	
	30	1 760	48.85	18100	0.91	115	**2KJ4510 - ■ HG33 - ■ ■ T1**	
	35	1 500	41.54	18100	1.0	115	**2KJ4510 - ■ HG33 - ■ ■ S1**	
	37	1 410	39.29	18100	1.1	115	**2KJ4510 - ■ HG33 - ■ ■ R1**	
	44	1 190	32.96	18100	1.3	115	**2KJ4510 - ■ HG33 - ■ ■ Q1**	
	47	1 120	31.03	18100	1.4	115	**2KJ4510 - ■ HG33 - ■ ■ P1**	
	51	1 020	28.46	18100	1.6	115	**2KJ4510 - ■ HG33 - ■ ■ N1**	
	59	895	24.86	18100	1.8	115	**2KJ4510 - ■ HG33 - ■ ■ M1**	
	65	800	22.26	18100	2.0	115	**2KJ4510 - ■ HG33 - ■ ■ L1**	
	75	700	19.46	18100	2.2	115	**2KJ4510 - ■ HG33 - ■ ■ K1**	
	87	600	16.71	18100	2.5	115	**2KJ4510 - ■ HG33 - ■ ■ J1**	
	99	530	14.77	18100	2.7	115	**2KJ4510 - ■ HG33 - ■ ■ H1**	
	116	450	12.56	18100	2.9	115	**2KJ4510 - ■ HG33 - ■ ■ G1**	
	135	385	10.76	18100	3.2	115	**2KJ4510 - ■ HG33 - ■ ■ F1**	
	138	375	10.51	18100	2.2	115	**2KJ4510 - ■ HG33 - ■ ■ E1**	
	161	325	9.02	18100	2.5	115	**2KJ4510 - ■ HG33 - ■ ■ D1**	
	183	285	7.97	17600	2.7	115	**2KJ4510 - ■ HG33 - ■ ■ C1**	
	215	245	6.78	16900	2.9	115	**2KJ4510 - ■ HG33 - ■ ■ B1**	
	250	210	5.81	16300	3.2	115	**2KJ4510 - ■ HG33 - ■ ■ A1**	
	K.109-LEN132SJ4E							
	15	3 500	97.49	24500	0.83	148	**2KJ4511 - ■ HG32 - ■ ■ X1**	
	17	3 110	86.59	24500	0.93	148	**2KJ4511 - ■ HG32 - ■ ■ W1**	
	19	2 780	77.51	24500	1.0	148	**2KJ4511 - ■ HG32 - ■ ■ V1**	
	22	2 380	66.26	24500	1.2	148	**2KJ4511 - ■ HG32 - ■ ■ U1**	
	25	2 120	59.17	24500	1.4	148	**2KJ4511 - ■ HG32 - ■ ■ T1**	
	28	1 880	52.29	24500	1.5	148	**2KJ4511 - ■ HG32 - ■ ■ S1**	
	32	1 650	45.89	24500	1.8	148	**2KJ4511 - ■ HG32 - ■ ■ R1**	
	37	1 430	39.95	24500	2.0	148	**2KJ4511 - ■ HG32 - ■ ■ Q1**	
	43	1 220	34.15	24500	2.2	148	**2KJ4511 - ■ HG32 - ■ ■ P1**	
	50	1 050	29.23	24500	2.5	148	**2KJ4511 - ■ HG32 - ■ ■ N1**	
	58	895	24.98	24500	2.6	148	**2KJ4511 - ■ HG32 - ■ ■ M1**	
	65	800	22.31	24500	3.0	148	**2KJ4511 - ■ HG32 - ■ ■ L1**	
	140	375	10.45	21400	3.4	148	**2KJ4511 - ■ HG32 - ■ ■ E1**	
	159	330	9.17	20700	3.8	148	**2KJ4511 - ■ HG32 - ■ ■ D1**	
	K.109-LEN132SR4P							
	15	3 510	97.49	24500	0.82	151	**2KJ4511 - ■ HG33 - ■ ■ X1**	
	17	3 120	86.59	24500	0.93	151	**2KJ4511 - ■ HG33 - ■ ■ W1**	
	19	2 790	77.51	24500	1.0	151	**2KJ4511 - ■ HG33 - ■ ■ V1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**K.109-LEN132SR4P**							
	22	2 390	66.26	24500	1.2	151	**2KJ4511 - ■ HG33 - ■ ■ U1**	
	25	2 130	59.17	24500	1.4	151	**2KJ4511 - ■ HG33 - ■ ■ T1**	
	28	1 880	52.29	24500	1.5	151	**2KJ4511 - ■ HG33 - ■ ■ S1**	
	32	1 650	45.89	24500	1.8	151	**2KJ4511 - ■ HG33 - ■ ■ R1**	
	36	1 440	39.95	24500	2.0	151	**2KJ4511 - ■ HG33 - ■ ■ Q1**	
	43	1 230	34.15	24500	2.2	151	**2KJ4511 - ■ HG33 - ■ ■ P1**	
	50	1 050	29.23	24500	2.5	151	**2KJ4511 - ■ HG33 - ■ ■ N1**	
	58	900	24.98	24500	2.6	151	**2KJ4511 - ■ HG33 - ■ ■ M1**	
	65	805	22.31	24500	3.0	151	**2KJ4511 - ■ HG33 - ■ ■ L1**	
	139	375	10.45	21500	3.3	151	**2KJ4511 - ■ HG33 - ■ ■ E1**	
	159	330	9.17	20800	3.8	151	**2KJ4511 - ■ HG33 - ■ ■ D1**	
	K.129-LEN132SJ4E							
	10	5 200	144.53	36800	0.85	197	**2KJ4512 - ■ HG32 - ■ ■ D2**	
	11	4 590	127.77	37400	0.96	197	**2KJ4512 - ■ HG32 - ■ ■ C2**	
	13	4 100	114.06	37900	1.1	197	**2KJ4512 - ■ HG32 - ■ ■ B2**	
	14	3 690	102.64	38300	1.2	197	**2KJ4512 - ■ HG32 - ■ ■ A2**	
	16	3 200	89.09	38800	1.4	197	**2KJ4512 - ■ HG32 - ■ ■ X1**	
	18	2 880	80.12	39100	1.5	197	**2KJ4512 - ■ HG32 - ■ ■ W1**	
	21	2 510	70.03	39400	1.7	197	**2KJ4512 - ■ HG32 - ■ ■ V1**	
	23	2 240	62.49	39700	2.0	197	**2KJ4512 - ■ HG32 - ■ ■ U1**	
	27	1 980	55.05	40000	2.2	197	**2KJ4512 - ■ HG32 - ■ ■ T1**	
	30	1 730	48.24	40000	2.5	197	**2KJ4512 - ■ HG32 - ■ ■ S1**	
	K.129-LEN132SR4P							
	10	5 210	144.53	36800	0.84	200	**2KJ4512 - ■ HG33 - ■ ■ D2**	
	11	4 610	127.77	37400	0.95	200	**2KJ4512 - ■ HG33 - ■ ■ C2**	
	13	4 110	114.06	37900	1.1	200	**2KJ4512 - ■ HG33 - ■ ■ B2**	
	14	3 700	102.64	38300	1.2	200	**2KJ4512 - ■ HG33 - ■ ■ A2**	
	16	3 210	89.09	38800	1.4	200	**2KJ4512 - ■ HG33 - ■ ■ X1**	
	18	2 890	80.12	39100	1.5	200	**2KJ4512 - ■ HG33 - ■ ■ W1**	
	21	2 520	70.03	39400	1.7	200	**2KJ4512 - ■ HG33 - ■ ■ V1**	
	23	2 250	62.49	39700	2.0	200	**2KJ4512 - ■ HG33 - ■ ■ U1**	
	26	1 980	55.05	40000	2.2	200	**2KJ4512 - ■ HG33 - ■ ■ T1**	
	30	1 740	48.24	40000	2.5	200	**2KJ4512 - ■ HG33 - ■ ■ S1**	
	K.149-LEN132MN6E							
	5.4	9 790	178.97	65000	0.82	294	**2KJ4513 - ■ HL32 - ■ ■ F2**	**P01**
	K.149-LEN132MY6P							
	5.4	9 790	178.97	65000	0.82	281	**2KJ4513 - ■ HK33 - ■ ■ F2**	**P01**
	K.149-LEN132SJ4E							
	6.2	8 520	237.03	65000	0.94	280	**2KJ4513 - ■ HG32 - ■ ■ J2**	
	7.2	7 290	202.86	65000	1.1	280	**2KJ4513 - ■ HG32 - ■ ■ H2**	
	7.6	6 860	190.92	65000	1.2	280	**2KJ4513 - ■ HG32 - ■ ■ G2**	
	8.2	6 430	178.97	65000	1.2	280	**2KJ4513 - ■ HG32 - ■ ■ F2**	
	9.2	5 700	158.65	65000	1.4	280	**2KJ4513 - ■ HG32 - ■ ■ E2**	
	10	5 070	140.93	65000	1.6	280	**2KJ4513 - ■ HG32 - ■ ■ D2**	
	11	4 570	127.16	65000	1.7	280	**2KJ4513 - ■ HG32 - ■ ■ C2**	
	13	4 050	112.68	65000	2.0	280	**2KJ4513 - ■ HG32 - ■ ■ B2**	
	15	3 590	99.79	65000	2.2	280	**2KJ4513 - ■ HG32 - ■ ■ A2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**K.149-LEN132SR4P**							
	6.1	8 550	237.03	65000	0.93	283	**2KJ4513 - ■ HG33 - ■ ■ J2**	
	7.2	7 320	202.86	65000	1.1	283	**2KJ4513 - ■ HG33 - ■ ■ H2**	
	7.6	6 890	190.92	65000	1.2	283	**2KJ4513 - ■ HG33 - ■ ■ G2**	
	8.1	6 460	178.97	65000	1.2	283	**2KJ4513 - ■ HG33 - ■ ■ F2**	
	9.2	5 720	158.65	65000	1.4	283	**2KJ4513 - ■ HG33 - ■ ■ E2**	
	10	5 080	140.93	65000	1.6	283	**2KJ4513 - ■ HG33 - ■ ■ D2**	
	11	4 590	127.16	65000	1.7	283	**2KJ4513 - ■ HG33 - ■ ■ C2**	
	13	4 060	112.68	65000	2.0	283	**2KJ4513 - ■ HG33 - ■ ■ B2**	
	15	3 600	99.79	65000	2.2	283	**2KJ4513 - ■ HG33 - ■ ■ A2**	
	K.169-LEN132MN6E							
	4.3	12 200	223.30	70000	1.1	464	**2KJ4514 - ■ HL32 - ■ ■ F2**	**P01**
	4.6	11 400	208.35	70000	1.1	464	**2KJ4514 - ■ HL32 - ■ ■ E2**	**P01**
	5.2	10 100	185.23	70000	1.3	464	**2KJ4514 - ■ HL32 - ■ ■ D2**	**P01**
	5.8	9 090	166.31	70000	1.4	464	**2KJ4514 - ■ HL32 - ■ ■ C2**	**P01**
	K.169-LEN132MY6P							
	4.3	12 200	223.30	70000	1.1	451	**2KJ4514 - ■ HK33 - ■ ■ F2**	**P01**
	4.6	11 400	208.35	70000	1.1	451	**2KJ4514 - ■ HK33 - ■ ■ E2**	**P01**
	5.2	10 100	185.23	70000	1.3	451	**2KJ4514 - ■ HK33 - ■ ■ D2**	**P01**
	5.8	9 090	166.31	70000	1.4	451	**2KJ4514 - ■ HK33 - ■ ■ C2**	**P01**
	K.169-LEN132SJ4E							
	6.5	8 030	223.30	70000	1.6	450	**2KJ4514 - ■ HG32 - ■ ■ F2**	
	7.0	7 490	208.35	70000	1.7	450	**2KJ4514 - ■ HG32 - ■ ■ E2**	
	7.9	6 660	185.23	70000	2.0	450	**2KJ4514 - ■ HG32 - ■ ■ D2**	
	K.169-LEN132SR4P							
	6.5	8 060	223.30	70000	1.6	453	**2KJ4514 - ■ HG33 - ■ ■ F2**	
	7.0	7 520	208.35	70000	1.7	453	**2KJ4514 - ■ HG33 - ■ ■ E2**	
	7.9	6 680	185.23	70000	1.9	453	**2KJ4514 - ■ HG33 - ■ ■ D2**	
	5.4	9 760	178.49	104000	2.0	694	**2KJ4515 - ■ HL32 - ■ ■ V1**	**P01**
	K.189-LEN132MY6P							
	4.8	10 900	199.51	104000	1.7	681	**2KJ4515 - ■ HK33 - ■ ■ W1**	**P01**
	5.4	9 760	178.49	104000	2.0	681	**2KJ4515 - ■ HK33 - ■ ■ V1**	**P01**
	K.149-Z49-LEN132SJ4E							
	5.4	9 210	270.46	65000	0.87	299	**2KJ4535 - ■ HG32 - ■ ■ A1**	
	K.149-Z49-LEN132SR4P							
	5.4	9 240	270.46	65000	0.87	302	**2KJ4535 - ■ HG33 - ■ ■ A1**	
	K.169-Z49-LEN132SJ4E							
	3.1	15 900	467.00	70000	0.82	470	**2KJ4537 - ■ HG32 - ■ ■ C1**	
	3.5	14 100	416.00	70000	0.92	470	**2KJ4537 - ■ HG32 - ■ ■ B1**	
	4.0	12 300	363.00	70000	1.1	470	**2KJ4537 - ■ HG32 - ■ ■ A1**	
	K.169-Z49-LEN132SR4P							
	3.1	15 900	467.00	70000	0.81	473	**2KJ4537 - ■ HG33 - ■ ■ C1**	
	3.5	14 200	416.00	70000	0.91	473	**2KJ4537 - ■ HG33 - ■ ■ B1**	
	4.0	12 400	363.00	70000	1.0	473	**2KJ4537 - ■ HG33 - ■ ■ A1**	
	K.189-Z69-LEN132SJ4E							
	2.3	22 000	648.00	104000	0.88	711	**2KJ4540 - ■ HG32 - ■ ■ F1**	
	2.6	19 400	570.00	104000	1.0	711	**2KJ4540 - ■ HG32 - ■ ■ E1**	
	3.0	16 300	481.00	104000	1.2	711	**2KJ4540 - ■ HG32 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**K.189-Z69-LEN132SJ4E**							
	3.5	14 200	419.00	104000	1.4	711	**2KJ4540 - ■ HG32 - ■ ■ C1**	
	3.8	13 000	384.00	104000	1.5	711	**2KJ4540 - ■ HG32 - ■ ■ B1**	
	4.4	11 300	334.36	104000	1.7	711	**2KJ4540 - ■ HG32 - ■ ■ A1**	
	K.189-Z69-LEN132SR4P							
	2.2	22 100	648.00	104000	0.88	714	**2KJ4540 - ■ HG33 - ■ ■ F1**	
	2.6	19 400	570.00	104000	1.0	714	**2KJ4540 - ■ HG33 - ■ ■ E1**	
	3.0	16 400	481.00	104000	1.2	714	**2KJ4540 - ■ HG33 - ■ ■ D1**	
	3.5	14 300	419.00	104000	1.4	714	**2KJ4540 - ■ HG33 - ■ ■ C1**	
	3.8	13 100	384.00	104000	1.5	714	**2KJ4540 - ■ HG33 - ■ ■ B1**	
	4.4	11 400	334.36	104000	1.7	714	**2KJ4540 - ■ HG33 - ■ ■ A1**	
7.5	**B.49-LEN132ML4E**							
	145	495	10.10	3600	0.91	89	**2KJ4503 - ■ HK32 - ■ ■ K1**	
	166	430	8.80	3700	1.0	89	**2KJ4503 - ■ HK32 - ■ ■ J1**	
	176	405	8.29	4000	0.81	89	**2KJ4503 - ■ HK32 - ■ ■ H1**	
	187	380	7.80	4100	0.86	89	**2KJ4503 - ■ HK32 - ■ ■ G1**	
	198	360	7.37	4100	0.91	89	**2KJ4503 - ■ HK32 - ■ ■ F1**	
	233	305	6.27	4100	1.1	89	**2KJ4503 - ■ HK32 - ■ ■ E1**	
	272	260	5.37	4000	1.3	89	**2KJ4503 - ■ HK32 - ■ ■ D1**	
	309	230	4.72	4000	1.4	89	**2KJ4503 - ■ HK32 - ■ ■ C1**	
	367	195	3.98	3900	1.7	89	**2KJ4503 - ■ HK32 - ■ ■ B1**	
	421	170	3.47	3800	1.9	89	**2KJ4503 - ■ HK32 - ■ ■ A1**	
	B.49-LEN132MT4P							
	144	495	10.10	3600	0.91	79	**2KJ4503 - ■ HJ33 - ■ ■ K1**	
	165	430	8.80	3700	1.0	79	**2KJ4503 - ■ HJ33 - ■ ■ J1**	
	176	405	8.29	4100	0.81	79	**2KJ4503 - ■ HJ33 - ■ ■ H1**	
	187	380	7.80	4100	0.86	79	**2KJ4503 - ■ HJ33 - ■ ■ G1**	
	197	360	7.37	4100	0.91	79	**2KJ4503 - ■ HJ33 - ■ ■ F1**	
	232	305	6.27	4100	1.1	79	**2KJ4503 - ■ HJ33 - ■ ■ E1**	
	271	260	5.37	4000	1.2	79	**2KJ4503 - ■ HJ33 - ■ ■ D1**	
	308	230	4.72	4000	1.4	79	**2KJ4503 - ■ HJ33 - ■ ■ C1**	
	366	196	3.98	3900	1.7	79	**2KJ4503 - ■ HJ33 - ■ ■ B1**	
	419	171	3.47	3800	1.9	79	**2KJ4503 - ■ HJ33 - ■ ■ A1**	
	K.49-LEN132ML4E							
	142	500	10.27	1200	0.82	92	**2KJ4505 - ■ HK32 - ■ ■ G1**	
	282	250	5.17	2000	0.83	92	**2KJ4505 - ■ HK32 - ■ ■ A1**	
	K.49-LEN132MT4P							
	142	505	10.27	1200	0.82	82	**2KJ4505 - ■ HJ33 - ■ ■ G1**	
	281	255	5.17	1900	0.83	82	**2KJ4505 - ■ HJ33 - ■ ■ A1**	
	K.69-LEN132ML4E							
	117	610	12.52	3300	0.8	98	**2KJ4507 - ■ HK32 - ■ ■ G1**	
	134	535	10.91	3400	0.88	98	**2KJ4507 - ■ HK32 - ■ ■ F1**	
	156	455	9.34	2800	0.81	98	**2KJ4507 - ■ HK32 - ■ ■ E1**	
	182	390	8.01	3100	0.93	98	**2KJ4507 - ■ HK32 - ■ ■ D1**	
	207	345	7.04	3200	1.1	98	**2KJ4507 - ■ HK32 - ■ ■ C1**	
	246	290	5.94	3300	1.2	98	**2KJ4507 - ■ HK32 - ■ ■ B1**	
	282	250	5.18	3400	1.3	98	**2KJ4507 - ■ HK32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**K.69-LEN132MT4P**							
	116	615	12.52	3200	0.8	88	**2KJ4507 - ■ HJ33 - ■ ■ G1**	
	133	535	10.91	3500	0.88	88	**2KJ4507 - ■ HJ33 - ■ ■ F1**	
	156	460	9.34	2800	0.8	88	**2KJ4507 - ■ HJ33 - ■ ■ E1**	
	182	390	8.01	3100	0.93	88	**2KJ4507 - ■ HJ33 - ■ ■ D1**	
	207	345	7.04	3200	1.1	88	**2KJ4507 - ■ HJ33 - ■ ■ C1**	
	245	290	5.94	3300	1.2	88	**2KJ4507 - ■ HJ33 - ■ ■ B1**	
	281	255	5.18	3400	1.3	88	**2KJ4507 - ■ HJ33 - ■ ■ A1**	
	K.79-LEN132ML4E							
	83	860	17.62	13000	0.83	104	**2KJ4508 - ■ HK32 - ■ ■ J1**	
	94	760	15.49	12800	0.91	104	**2KJ4508 - ■ HK32 - ■ ■ H1**	
	112	640	13.07	12700	1.0	104	**2KJ4508 - ■ HK32 - ■ ■ G1**	
	128	555	11.39	12500	1.2	104	**2KJ4508 - ■ HK32 - ■ ■ F1**	
	139	515	10.51	12100	0.86	104	**2KJ4508 - ■ HK32 - ■ ■ E1**	
	162	440	9.01	11900	1.0	104	**2KJ4508 - ■ HK32 - ■ ■ D1**	
	184	385	7.92	11700	1.2	104	**2KJ4508 - ■ HK32 - ■ ■ C1**	
	219	325	6.68	11300	1.4	104	**2KJ4508 - ■ HK32 - ■ ■ B1**	
	251	285	5.82	11100	1.5	104	**2KJ4508 - ■ HK32 - ■ ■ A1**	
	K.79-LEN132MT4P							
	83	865	17.62	12900	0.82	94	**2KJ4508 - ■ HJ33 - ■ ■ J1**	
	94	760	15.49	12900	0.91	94	**2KJ4508 - ■ HJ33 - ■ ■ H1**	
	111	640	13.07	12700	1.0	94	**2KJ4508 - ■ HJ33 - ■ ■ G1**	
	128	560	11.39	12500	1.2	94	**2KJ4508 - ■ HJ33 - ■ ■ F1**	
	138	515	10.51	12100	0.86	94	**2KJ4508 - ■ HJ33 - ■ ■ E1**	
	161	440	9.01	11900	1.0	94	**2KJ4508 - ■ HJ33 - ■ ■ D1**	
	184	390	7.92	11700	1.2	94	**2KJ4508 - ■ HJ33 - ■ ■ C1**	
	218	325	6.68	11400	1.4	94	**2KJ4508 - ■ HJ33 - ■ ■ B1**	
	250	285	5.82	11100	1.5	94	**2KJ4508 - ■ HJ33 - ■ ■ A1**	
	K.89-LEN132ML4E							
	37	1 920	39.29	18100	0.83	125	**2KJ4510 - ■ HK32 - ■ ■ R1**	
	44	1 610	32.96	18100	0.99	125	**2KJ4510 - ■ HK32 - ■ ■ Q1**	
	47	1 520	31.03	18100	1.1	125	**2KJ4510 - ■ HK32 - ■ ■ P1**	
	51	1 390	28.46	18100	1.1	125	**2KJ4510 - ■ HK32 - ■ ■ N1**	
	59	1 220	24.86	18100	1.3	125	**2KJ4510 - ■ HK32 - ■ ■ M1**	
	66	1 090	22.26	18100	1.5	125	**2KJ4510 - ■ HK32 - ■ ■ L1**	
	75	955	19.46	18100	1.6	125	**2KJ4510 - ■ HK32 - ■ ■ K1**	
	87	820	16.71	18100	1.8	125	**2KJ4510 - ■ HK32 - ■ ■ J1**	
	99	725	14.77	18100	2.0	125	**2KJ4510 - ■ HK32 - ■ ■ H1**	
	116	615	12.56	18100	2.2	125	**2KJ4510 - ■ HK32 - ■ ■ G1**	
	136	525	10.76	18100	2.4	125	**2KJ4510 - ■ HK32 - ■ ■ F1**	
	139	515	10.51	17900	1.6	125	**2KJ4510 - ■ HK32 - ■ ■ E1**	
	162	440	9.02	17400	1.8	125	**2KJ4510 - ■ HK32 - ■ ■ D1**	
	183	390	7.97	17000	2.0	125	**2KJ4510 - ■ HK32 - ■ ■ C1**	
	215	330	6.78	16400	2.2	125	**2KJ4510 - ■ HK32 - ■ ■ B1**	
	251	285	5.81	15800	2.4	125	**2KJ4510 - ■ HK32 - ■ ■ A1**	
	K.89-LEN132MT4P							
	37	1 930	39.29	18100	0.83	115	**2KJ4510 - ■ HJ33 - ■ ■ R1**	
	44	1 620	32.96	18100	0.99	115	**2KJ4510 - ■ HJ33 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**K.89-LEN132MT4P**							
	47	1 520	31.03	18 100	1.0	115	**2KJ4510 - ■ HJ33 - ■ ■ P1**	
	51	1 400	28.46	18 100	1.1	115	**2KJ4510 - ■ HJ33 - ■ ■ N1**	
	59	1 220	24.86	18 100	1.3	115	**2KJ4510 - ■ HJ33 - ■ ■ M1**	
	65	1 090	22.26	18 100	1.5	115	**2KJ4510 - ■ HJ33 - ■ ■ L1**	
	75	955	19.46	18 100	1.6	115	**2KJ4510 - ■ HJ33 - ■ ■ K1**	
	87	820	16.71	18 100	1.8	115	**2KJ4510 - ■ HJ33 - ■ ■ J1**	
	99	725	14.77	18 100	2.0	115	**2KJ4510 - ■ HJ33 - ■ ■ H1**	
	116	615	12.56	18 100	2.2	115	**2KJ4510 - ■ HJ33 - ■ ■ G1**	
	135	530	10.76	18 100	2.4	115	**2KJ4510 - ■ HJ33 - ■ ■ F1**	
	138	515	10.51	17 900	1.6	115	**2KJ4510 - ■ HJ33 - ■ ■ E1**	
	161	440	9.02	17 400	1.8	115	**2KJ4510 - ■ HJ33 - ■ ■ D1**	
	183	390	7.97	17 000	2.0	115	**2KJ4510 - ■ HJ33 - ■ ■ C1**	
	215	330	6.78	16 400	2.2	115	**2KJ4510 - ■ HJ33 - ■ ■ B1**	
	250	285	5.81	15 800	2.4	115	**2KJ4510 - ■ HJ33 - ■ ■ A1**	
	K.109-LEN132ML4E							
	22	3 250	66.26	24 500	0.89	161	**2KJ4511 - ■ HK32 - ■ ■ U1**	
	25	2 900	59.17	24 500	1.0	161	**2KJ4511 - ■ HK32 - ■ ■ T1**	
	28	2 560	52.29	24 500	1.1	161	**2KJ4511 - ■ HK32 - ■ ■ S1**	
	32	2 250	45.89	24 500	1.3	161	**2KJ4511 - ■ HK32 - ■ ■ R1**	
	37	1 960	39.95	24 500	1.4	161	**2KJ4511 - ■ HK32 - ■ ■ Q1**	
	43	1 670	34.15	24 500	1.6	161	**2KJ4511 - ■ HK32 - ■ ■ P1**	
	50	1 430	29.23	24 500	1.8	161	**2KJ4511 - ■ HK32 - ■ ■ N1**	
	58	1 220	24.98	24 500	1.9	161	**2KJ4511 - ■ HK32 - ■ ■ M1**	
	65	1 090	22.31	24 500	2.2	161	**2KJ4511 - ■ HK32 - ■ ■ L1**	
	74	965	19.71	24 200	2.5	161	**2KJ4511 - ■ HK32 - ■ ■ K1**	
	84	845	17.30	23 600	2.8	161	**2KJ4511 - ■ HK32 - ■ ■ J1**	
	97	735	15.06	22 900	3.1	161	**2KJ4511 - ■ HK32 - ■ ■ H1**	
	113	630	12.87	22 200	3.5	161	**2KJ4511 - ■ HK32 - ■ ■ G1**	
	140	510	10.45	20 800	2.5	161	**2KJ4511 - ■ HK32 - ■ ■ E1**	
	159	450	9.17	20 200	2.8	161	**2KJ4511 - ■ HK32 - ■ ■ D1**	
	183	390	7.99	19 600	3.3	161	**2KJ4511 - ■ HK32 - ■ ■ C1**	
	214	335	6.83	18 800	3.9	161	**2KJ4511 - ■ HK32 - ■ ■ B1**	
	250	285	5.84	18 100	4.5	161	**2KJ4511 - ■ HK32 - ■ ■ A1**	
	K.109-LEN132MT4P							
	22	3 260	66.26	24 500	0.89	151	**2KJ4511 - ■ HJ33 - ■ ■ U1**	
	25	2 910	59.17	24 500	1.0	151	**2KJ4511 - ■ HJ33 - ■ ■ T1**	
	28	2 570	52.29	24 500	1.1	151	**2KJ4511 - ■ HJ33 - ■ ■ S1**	
	32	2 250	45.89	24 500	1.3	151	**2KJ4511 - ■ HJ33 - ■ ■ R1**	
	36	1 960	39.95	24 500	1.4	151	**2KJ4511 - ■ HJ33 - ■ ■ Q1**	
	43	1 680	34.15	24 500	1.6	151	**2KJ4511 - ■ HJ33 - ■ ■ P1**	
	50	1 430	29.23	24 500	1.8	151	**2KJ4511 - ■ HJ33 - ■ ■ N1**	
	58	1 230	24.98	24 500	1.9	151	**2KJ4511 - ■ HJ33 - ■ ■ M1**	
	65	1 090	22.31	24 500	2.2	151	**2KJ4511 - ■ HJ33 - ■ ■ L1**	
	74	970	19.71	24 200	2.5	151	**2KJ4511 - ■ HJ33 - ■ ■ K1**	
	84	850	17.30	23 600	2.8	151	**2KJ4511 - ■ HJ33 - ■ ■ J1**	
	97	740	15.06	22 900	3.1	151	**2KJ4511 - ■ HJ33 - ■ ■ H1**	
	113	630	12.87	22 200	3.5	151	**2KJ4511 - ■ HJ33 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**K.109-LEN132MT4P**							
	139	510	10.45	20900	2.4	151	**2KJ4511 - ■ HJ33 - ■ ■ E1**	
	159	450	9.17	20200	2.8	151	**2KJ4511 - ■ HJ33 - ■ ■ D1**	
	182	390	7.99	19600	3.3	151	**2KJ4511 - ■ HJ33 - ■ ■ C1**	
	213	335	6.83	18800	3.9	151	**2KJ4511 - ■ HJ33 - ■ ■ B1**	
	249	285	5.84	18100	4.5	151	**2KJ4511 - ■ HJ33 - ■ ■ A1**	
	K.129-LEN132ML4E							
	14	5 030	102.64	37000	0.87	210	**2KJ4512 - ■ HK32 - ■ ■ A2**	
	16	4 370	89.09	37600	1.0	210	**2KJ4512 - ■ HK32 - ■ ■ X1**	
	18	3 930	80.12	38100	1.1	210	**2KJ4512 - ■ HK32 - ■ ■ W1**	
	21	3 430	70.03	38500	1.3	210	**2KJ4512 - ■ HK32 - ■ ■ V1**	
	23	3 060	62.49	38900	1.4	210	**2KJ4512 - ■ HK32 - ■ ■ U1**	
	27	2 700	55.05	39300	1.6	210	**2KJ4512 - ■ HK32 - ■ ■ T1**	
	30	2 360	48.24	39300	1.9	210	**2KJ4512 - ■ HK32 - ■ ■ S1**	
	35	2 060	42.04	38400	2.1	210	**2KJ4512 - ■ HK32 - ■ ■ R1**	
	38	1 880	38.37	37800	2.3	210	**2KJ4512 - ■ HK32 - ■ ■ Q1**	
	44	1 620	33.03	36700	2.7	210	**2KJ4512 - ■ HK32 - ■ ■ P1**	
	46	1 540	31.55	36400	2.8	210	**2KJ4512 - ■ HK32 - ■ ■ N1**	
	K.129-LEN132MT4P							
	14	5 050	102.64	37000	0.87	200	**2KJ4512 - ■ HJ33 - ■ ■ A2**	
	16	4 380	89.09	37600	1.0	200	**2KJ4512 - ■ HJ33 - ■ ■ X1**	
	18	3 940	80.12	38000	1.1	200	**2KJ4512 - ■ HJ33 - ■ ■ W1**	
	21	3 440	70.03	38500	1.3	200	**2KJ4512 - ■ HJ33 - ■ ■ V1**	
	23	3 070	62.49	38900	1.4	200	**2KJ4512 - ■ HJ33 - ■ ■ U1**	
	26	2 710	55.05	39200	1.6	200	**2KJ4512 - ■ HJ33 - ■ ■ T1**	
	30	2 370	48.24	39300	1.9	200	**2KJ4512 - ■ HJ33 - ■ ■ S1**	
	35	2 060	42.04	38400	2.1	200	**2KJ4512 - ■ HJ33 - ■ ■ R1**	
	38	1 880	38.37	37800	2.3	200	**2KJ4512 - ■ HJ33 - ■ ■ Q1**	
	44	1 620	33.03	36700	2.7	200	**2KJ4512 - ■ HJ33 - ■ ■ P1**	
	46	1 550	31.55	36400	2.8	200	**2KJ4512 - ■ HJ33 - ■ ■ N1**	
	K.149-LEN132ML4E							
	7.2	9 950	202.86	65000	0.8	293	**2KJ4513 - ■ HK32 - ■ ■ H2**	
	7.6	9 360	190.92	65000	0.85	293	**2KJ4513 - ■ HK32 - ■ ■ G2**	
	8.2	8 780	178.97	65000	0.91	293	**2KJ4513 - ■ HK32 - ■ ■ F2**	
	9.2	7 780	158.65	65000	1.0	293	**2KJ4513 - ■ HK32 - ■ ■ E2**	
	10	6 910	140.93	65000	1.2	293	**2KJ4513 - ■ HK32 - ■ ■ D2**	
	11	6 230	127.16	65000	1.3	293	**2KJ4513 - ■ HK32 - ■ ■ C2**	
	13	5 520	112.68	65000	1.4	293	**2KJ4513 - ■ HK32 - ■ ■ B2**	
	15	4 890	99.79	64100	1.6	293	**2KJ4513 - ■ HK32 - ■ ■ A2**	
	16	4 350	88.81	63000	1.8	293	**2KJ4513 - ■ HK32 - ■ ■ X1**	
	18	3 900	79.59	61800	2.0	293	**2KJ4513 - ■ HK32 - ■ ■ W1**	
	21	3 460	70.56	60400	2.3	293	**2KJ4513 - ■ HK32 - ■ ■ V1**	
	K.149-LEN132MT4P							
	7.2	9 980	202.86	65000	0.8	283	**2KJ4513 - ■ HJ33 - ■ ■ H2**	
	7.6	9 390	190.92	65000	0.85	283	**2KJ4513 - ■ HJ33 - ■ ■ G2**	
	8.1	8 810	178.97	65000	0.91	283	**2KJ4513 - ■ HJ33 - ■ ■ F2**	
	9.2	7 810	158.65	65000	1.0	283	**2KJ4513 - ■ HJ33 - ■ ■ E2**	
	10	6 930	140.93	65000	1.2	283	**2KJ4513 - ■ HJ33 - ■ ■ D2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**K.149-LEN132MT4P**							
	11	6 260	127.16	65000	1.3	283	**2KJ4513 - ■ HJ33 - ■ ■ C2**	
	13	5 540	112.68	65000	1.4	283	**2KJ4513 - ■ HJ33 - ■ ■ B2**	
	15	4 910	99.79	64100	1.6	283	**2KJ4513 - ■ HJ33 - ■ ■ A2**	
	16	4 370	88.81	63000	1.8	283	**2KJ4513 - ■ HJ33 - ■ ■ X1**	
	18	3 910	79.59	61800	2.0	283	**2KJ4513 - ■ HJ33 - ■ ■ W1**	
	21	3 470	70.56	60500	2.3	283	**2KJ4513 - ■ HJ33 - ■ ■ V1**	
	K.169-LEN132ML4E							
	6.5	10 900	223.30	70000	1.2	463	**2KJ4514 - ■ HK32 - ■ ■ F2**	
	7.0	10 200	208.35	70000	1.3	463	**2KJ4514 - ■ HK32 - ■ ■ E2**	
	7.9	9 080	185.23	70000	1.4	463	**2KJ4514 - ■ HK32 - ■ ■ D2**	
	8.8	8 150	166.31	70000	1.6	463	**2KJ4514 - ■ HK32 - ■ ■ C2**	
	9.7	7 380	150.55	70000	1.8	463	**2KJ4514 - ■ HK32 - ■ ■ B2**	
	11	6 480	132.24	70000	2.0	463	**2KJ4514 - ■ HK32 - ■ ■ A2**	
	12	5 870	119.83	70000	2.2	463	**2KJ4514 - ■ HK32 - ■ ■ X1**	
	K.169-LEN132MT4P							
	6.5	10 900	223.30	70000	1.2	453	**2KJ4514 - ■ HJ33 - ■ ■ F2**	
	7.0	10 200	208.35	70000	1.3	453	**2KJ4514 - ■ HJ33 - ■ ■ E2**	
	7.9	9 110	185.23	70000	1.4	453	**2KJ4514 - ■ HJ33 - ■ ■ D2**	
	8.7	8 180	166.31	70000	1.6	453	**2KJ4514 - ■ HJ33 - ■ ■ C2**	
	9.7	7 410	150.55	70000	1.8	453	**2KJ4514 - ■ HJ33 - ■ ■ B2**	
	11	6 510	132.24	70000	2.0	453	**2KJ4514 - ■ HJ33 - ■ ■ A2**	
	12	5 890	119.83	70000	2.2	453	**2KJ4514 - ■ HJ33 - ■ ■ X1**	
	K.189-LEN132ML4E							
	7.3	9 780	199.51	104000	2.0	693	**2KJ4515 - ■ HK32 - ■ ■ W1**	
	K.189-LEN132MT4P							
	7.3	9 820	199.51	104000	1.9	683	**2KJ4515 - ■ HJ33 - ■ ■ W1**	
	K.189-Z69-LEN132ML4E							
	3.0	22 300	481.00	104000	0.87	724	**2KJ4540 - ■ HK32 - ■ ■ D1**	
	3.5	19 400	419.00	104000	1.0	724	**2KJ4540 - ■ HK32 - ■ ■ C1**	
	3.8	17 800	384.00	104000	1.1	724	**2KJ4540 - ■ HK32 - ■ ■ B1**	
	4.4	15 500	334.36	104000	1.3	724	**2KJ4540 - ■ HK32 - ■ ■ A1**	
	K.189-Z69-LEN132MT4P							
	3.0	22 400	481.00	104000	0.87	714	**2KJ4540 - ■ HJ33 - ■ ■ D1**	
	3.5	19 500	419.00	104000	1.0	714	**2KJ4540 - ■ HJ33 - ■ ■ C1**	
	3.8	17 900	384.00	104000	1.1	714	**2KJ4540 - ■ HJ33 - ■ ■ B1**	
	4.4	15 600	334.36	104000	1.2	714	**2KJ4540 - ■ HJ33 - ■ ■ A1**	
9.2	**B.49-LEN132MS4E**							
	165	530	8.80	3000	0.85	98	**2KJ4503 - ■ HV32 - ■ ■ J1**	
	232	375	6.27	3700	0.87	98	**2KJ4503 - ■ HV32 - ■ ■ E1**	
	271	320	5.37	3700	1.0	98	**2KJ4503 - ■ HV32 - ■ ■ D1**	
	308	285	4.72	3600	1.2	98	**2KJ4503 - ■ HV32 - ■ ■ C1**	
	366	240	3.98	3600	1.4	98	**2KJ4503 - ■ HV32 - ■ ■ B1**	
	419	210	3.47	3600	1.6	98	**2KJ4503 - ■ HV32 - ■ ■ A1**	
	K.69-LEN132MS4E							
	207	425	7.04	2500	0.86	107	**2KJ4507 - ■ HV32 - ■ ■ C1**	
	245	355	5.94	2700	0.96	107	**2KJ4507 - ■ HV32 - ■ ■ B1**	
	281	310	5.18	2900	1.1	107	**2KJ4507 - ■ HV32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**K.79-LEN132MS4E**							
	111	785	13.07	11900	0.84	113	**2KJ4508 - ■ HV32 - ■ ■ G1**	
	128	685	11.39	11800	0.94	113	**2KJ4508 - ■ HV32 - ■ ■ F1**	
	161	540	9.01	11300	0.83	113	**2KJ4508 - ■ HV32 - ■ ■ D1**	
	184	475	7.92	11100	0.94	113	**2KJ4508 - ■ HV32 - ■ ■ C1**	
	218	400	6.68	10900	1.1	113	**2KJ4508 - ■ HV32 - ■ ■ B1**	
	250	350	5.82	10700	1.2	113	**2KJ4508 - ■ HV32 - ■ ■ A1**	
	K.89-LEN132MS4E							
	44	1 990	32.96	18100	0.8	134	**2KJ4510 - ■ HV32 - ■ ■ Q1**	
	47	1 870	31.03	18100	0.85	134	**2KJ4510 - ■ HV32 - ■ ■ P1**	
	51	1 710	28.46	18100	0.93	134	**2KJ4510 - ■ HV32 - ■ ■ N1**	
	59	1 500	24.86	18100	1.1	134	**2KJ4510 - ■ HV32 - ■ ■ M1**	
	65	1 340	22.26	18100	1.2	134	**2KJ4510 - ■ HV32 - ■ ■ L1**	
	75	1 170	19.46	18100	1.3	134	**2KJ4510 - ■ HV32 - ■ ■ K1**	
	87	1 000	16.71	18100	1.5	134	**2KJ4510 - ■ HV32 - ■ ■ J1**	
	99	890	14.77	18100	1.6	134	**2KJ4510 - ■ HV32 - ■ ■ H1**	
	116	755	12.56	18100	1.8	134	**2KJ4510 - ■ HV32 - ■ ■ G1**	
	135	650	10.76	18000	1.9	134	**2KJ4510 - ■ HV32 - ■ ■ F1**	
	138	635	10.51	17200	1.3	134	**2KJ4510 - ■ HV32 - ■ ■ E1**	
	161	545	9.02	16800	1.5	134	**2KJ4510 - ■ HV32 - ■ ■ D1**	
	183	480	7.97	16500	1.6	134	**2KJ4510 - ■ HV32 - ■ ■ C1**	
	215	405	6.78	16000	1.8	134	**2KJ4510 - ■ HV32 - ■ ■ B1**	
	250	350	5.81	15500	1.9	134	**2KJ4510 - ■ HV32 - ■ ■ A1**	
	K.89-LEN160MRA4P							
	44	1 990	32.96	18100	0.8	133	**2KJ4510 - ■ JQ33 - ■ ■ Q1**	
	47	1 870	31.03	18100	0.85	133	**2KJ4510 - ■ JQ33 - ■ ■ P1**	
	51	1 710	28.46	18100	0.93	133	**2KJ4510 - ■ JQ33 - ■ ■ N1**	
	59	1 500	24.86	18100	1.1	133	**2KJ4510 - ■ JQ33 - ■ ■ M1**	
	65	1 340	22.26	18100	1.2	133	**2KJ4510 - ■ JQ33 - ■ ■ L1**	
	75	1 170	19.46	18100	1.3	133	**2KJ4510 - ■ JQ33 - ■ ■ K1**	
	87	1 000	16.71	18100	1.5	133	**2KJ4510 - ■ JQ33 - ■ ■ J1**	
	99	890	14.77	18100	1.6	133	**2KJ4510 - ■ JQ33 - ■ ■ H1**	
	116	755	12.56	18100	1.8	133	**2KJ4510 - ■ JQ33 - ■ ■ G1**	
	135	650	10.76	18000	1.9	133	**2KJ4510 - ■ JQ33 - ■ ■ F1**	
	138	635	10.51	17200	1.3	133	**2KJ4510 - ■ JQ33 - ■ ■ E1**	
	161	545	9.02	16800	1.5	133	**2KJ4510 - ■ JQ33 - ■ ■ D1**	
	183	480	7.97	16500	1.6	133	**2KJ4510 - ■ JQ33 - ■ ■ C1**	
	215	405	6.78	16000	1.8	133	**2KJ4510 - ■ JQ33 - ■ ■ B1**	
	250	350	5.81	15500	1.9	133	**2KJ4510 - ■ JQ33 - ■ ■ A1**	
	K.109-LEN132MS4E							
	25	3 570	59.17	24500	0.81	170	**2KJ4511 - ■ HV32 - ■ ■ T1**	
	28	3 150	52.29	24500	0.92	170	**2KJ4511 - ■ HV32 - ■ ■ S1**	
	32	2 770	45.89	24500	1.0	170	**2KJ4511 - ■ HV32 - ■ ■ R1**	
	36	2 410	39.95	24500	1.2	170	**2KJ4511 - ■ HV32 - ■ ■ Q1**	
	43	2 060	34.15	24500	1.3	170	**2KJ4511 - ■ HV32 - ■ ■ P1**	
	50	1 760	29.23	24500	1.5	170	**2KJ4511 - ■ HV32 - ■ ■ N1**	
	58	1 500	24.98	24300	1.6	170	**2KJ4511 - ■ HV32 - ■ ■ M1**	
	65	1 340	22.31	23900	1.8	170	**2KJ4511 - ■ HV32 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**K.109-LEN132MS4E**							
	74	1 190	19.71	23400	2.0	170	**2KJ4511 - ■ HV32 - ■ ■ K1**	
	84	1 040	17.30	22900	2.3	170	**2KJ4511 - ■ HV32 - ■ ■ J1**	
	97	905	15.06	22300	2.5	170	**2KJ4511 - ■ HV32 - ■ ■ H1**	
	113	775	12.87	21600	2.8	170	**2KJ4511 - ■ HV32 - ■ ■ G1**	
	132	665	11.02	20900	3.2	170	**2KJ4511 - ■ HV32 - ■ ■ F1**	
	139	630	10.45	20400	2.0	170	**2KJ4511 - ■ HV32 - ■ ■ E1**	
	159	550	9.17	19800	2.3	170	**2KJ4511 - ■ HV32 - ■ ■ D1**	
	182	480	7.99	19200	2.7	170	**2KJ4511 - ■ HV32 - ■ ■ C1**	
	213	410	6.83	18500	3.2	170	**2KJ4511 - ■ HV32 - ■ ■ B1**	
	249	350	5.84	17900	3.7	170	**2KJ4511 - ■ HV32 - ■ ■ A1**	
	K.129-LEN132MS4E							
	16	5 380	89.09	36600	0.82	219	**2KJ4512 - ■ HV32 - ■ ■ X1**	
	18	4 830	80.12	37200	0.91	219	**2KJ4512 - ■ HV32 - ■ ■ W1**	
	21	4 220	70.03	37800	1.0	219	**2KJ4512 - ■ HV32 - ■ ■ V1**	
	23	3 770	62.49	38200	1.2	219	**2KJ4512 - ■ HV32 - ■ ■ U1**	
	26	3 320	55.05	37900	1.3	219	**2KJ4512 - ■ HV32 - ■ ■ T1**	
	30	2 910	48.24	37400	1.5	219	**2KJ4512 - ■ HV32 - ■ ■ S1**	
	35	2 530	42.04	36800	1.7	219	**2KJ4512 - ■ HV32 - ■ ■ R1**	
	38	2 310	38.37	36300	1.9	219	**2KJ4512 - ■ HV32 - ■ ■ Q1**	
	44	1 990	33.03	35500	2.2	219	**2KJ4512 - ■ HV32 - ■ ■ P1**	
	46	1 900	31.55	35200	2.3	219	**2KJ4512 - ■ HV32 - ■ ■ N1**	
	53	1 660	27.58	34400	2.6	219	**2KJ4512 - ■ HV32 - ■ ■ M1**	
	59	1 480	24.61	33700	3.0	219	**2KJ4512 - ■ HV32 - ■ ■ L1**	
	K.149-LEN132MS4E							
	9.2	9 580	158.65	62700	0.84	302	**2KJ4513 - ■ HV32 - ■ ■ E2**	
	10	8 510	140.93	62600	0.94	302	**2KJ4513 - ■ HV32 - ■ ■ D2**	
	11	7 670	127.16	62300	1.0	302	**2KJ4513 - ■ HV32 - ■ ■ C2**	
	13	6 800	112.68	61800	1.2	302	**2KJ4513 - ■ HV32 - ■ ■ B2**	
	15	6 020	99.79	61000	1.3	302	**2KJ4513 - ■ HV32 - ■ ■ A2**	
	16	5 360	88.81	60200	1.5	302	**2KJ4513 - ■ HV32 - ■ ■ X1**	
	18	4 800	79.59	59300	1.7	302	**2KJ4513 - ■ HV32 - ■ ■ W1**	
	21	4 260	70.56	58300	1.9	302	**2KJ4513 - ■ HV32 - ■ ■ V1**	
	23	3 760	62.28	57100	2.1	302	**2KJ4513 - ■ HV32 - ■ ■ U1**	
	27	3 300	54.76	55800	2.4	302	**2KJ4513 - ■ HV32 - ■ ■ T1**	
	K.169-LEN132MS4E							
	6.5	13 400	223.30	70000	0.96	472	**2KJ4514 - ■ HV32 - ■ ■ F2**	
	7.0	12 500	208.35	70000	1.0	472	**2KJ4514 - ■ HV32 - ■ ■ E2**	
	7.9	11 100	185.23	70000	1.2	472	**2KJ4514 - ■ HV32 - ■ ■ D2**	
	8.7	10 000	166.31	70000	1.3	472	**2KJ4514 - ■ HV32 - ■ ■ C2**	
	9.7	9 090	150.55	70000	1.4	472	**2KJ4514 - ■ HV32 - ■ ■ B2**	
	11	7 980	132.24	70000	1.6	472	**2KJ4514 - ■ HV32 - ■ ■ A2**	
	12	7 230	119.83	70000	1.8	472	**2KJ4514 - ■ HV32 - ■ ■ X1**	
	14	6 440	106.72	70000	2.0	472	**2KJ4514 - ■ HV32 - ■ ■ W1**	
	15	5 780	95.83	70000	2.2	472	**2KJ4514 - ■ HV32 - ■ ■ V1**	
	K.189-LEN132MS4E							
	7.3	12 000	199.51	104000	1.6	702	**2KJ4515 - ■ HV32 - ■ ■ W1**	
	8.2	10 700	178.49	104000	1.8	702	**2KJ4515 - ■ HV32 - ■ ■ V1**	
	9.0	9 720	160.98	104000	2.0	702	**2KJ4515 - ■ HV32 - ■ ■ U1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**K.109-LEN160MRA4P**							
	25	3 570	59.17	24500	0.81	170	**2KJ4511 - ■ JQ33 - ■ ■ T1**	
	28	3 150	52.29	24500	0.92	170	**2KJ4511 - ■ JQ33 - ■ ■ S1**	
	32	2 770	45.89	24500	1.0	170	**2KJ4511 - ■ JQ33 - ■ ■ R1**	
	36	2 410	39.95	24500	1.2	170	**2KJ4511 - ■ JQ33 - ■ ■ Q1**	
	43	2 060	34.15	24500	1.3	170	**2KJ4511 - ■ JQ33 - ■ ■ P1**	
	50	1 760	29.23	24500	1.5	170	**2KJ4511 - ■ JQ33 - ■ ■ N1**	
	58	1 500	24.98	24300	1.6	170	**2KJ4511 - ■ JQ33 - ■ ■ M1**	
	65	1 340	22.31	23900	1.8	170	**2KJ4511 - ■ JQ33 - ■ ■ L1**	
	74	1 190	19.71	23400	2.0	170	**2KJ4511 - ■ JQ33 - ■ ■ K1**	
	84	1 040	17.30	22900	2.3	170	**2KJ4511 - ■ JQ33 - ■ ■ J1**	
	97	905	15.06	22300	2.5	170	**2KJ4511 - ■ JQ33 - ■ ■ H1**	
	113	775	12.87	21600	2.8	170	**2KJ4511 - ■ JQ33 - ■ ■ G1**	
	132	665	11.02	20900	3.2	170	**2KJ4511 - ■ JQ33 - ■ ■ F1**	
	139	630	10.45	20400	2.0	170	**2KJ4511 - ■ JQ33 - ■ ■ E1**	
	159	550	9.17	19800	2.3	170	**2KJ4511 - ■ JQ33 - ■ ■ D1**	
	182	480	7.99	19200	2.7	170	**2KJ4511 - ■ JQ33 - ■ ■ C1**	
	213	410	6.83	18500	3.2	170	**2KJ4511 - ■ JQ33 - ■ ■ B1**	
	249	350	5.84	17900	3.7	170	**2KJ4511 - ■ JQ33 - ■ ■ A1**	
	K.129-LEN160MRA4P							
	16	5 380	89.09	36600	0.82	218	**2KJ4512 - ■ JQ33 - ■ ■ X1**	
	18	4 830	80.12	37200	0.91	218	**2KJ4512 - ■ JQ33 - ■ ■ W1**	
	21	4 220	70.03	37800	1.0	218	**2KJ4512 - ■ JQ33 - ■ ■ V1**	
	23	3 770	62.49	38200	1.2	218	**2KJ4512 - ■ JQ33 - ■ ■ U1**	
	26	3 320	55.05	37900	1.3	218	**2KJ4512 - ■ JQ33 - ■ ■ T1**	
	30	2 910	48.24	37400	1.5	218	**2KJ4512 - ■ JQ33 - ■ ■ S1**	
	35	2 530	42.04	36800	1.7	218	**2KJ4512 - ■ JQ33 - ■ ■ R1**	
	38	2 310	38.37	36300	1.9	218	**2KJ4512 - ■ JQ33 - ■ ■ Q1**	
	44	1 990	33.03	35500	2.2	218	**2KJ4512 - ■ JQ33 - ■ ■ P1**	
	46	1 900	31.55	35200	2.3	218	**2KJ4512 - ■ JQ33 - ■ ■ N1**	
	53	1 660	27.58	34400	2.6	218	**2KJ4512 - ■ JQ33 - ■ ■ M1**	
	59	1 480	24.61	33700	3.0	218	**2KJ4512 - ■ JQ33 - ■ ■ L1**	
	K.149-LEN160MRA4P							
	9.2	9 580	158.65	62700	0.84	301	**2KJ4513 - ■ JQ33 - ■ ■ E2**	
	10	8 510	140.93	62600	0.94	301	**2KJ4513 - ■ JQ33 - ■ ■ D2**	
	11	7 670	127.16	62300	1.0	301	**2KJ4513 - ■ JQ33 - ■ ■ C2**	
	13	6 800	112.68	61800	1.2	301	**2KJ4513 - ■ JQ33 - ■ ■ B2**	
	15	6 020	99.79	61000	1.3	301	**2KJ4513 - ■ JQ33 - ■ ■ A2**	
	16	5 360	88.81	60200	1.5	301	**2KJ4513 - ■ JQ33 - ■ ■ X1**	
	18	4 800	79.59	59300	1.7	301	**2KJ4513 - ■ JQ33 - ■ ■ W1**	
	21	4 260	70.56	58300	1.9	301	**2KJ4513 - ■ JQ33 - ■ ■ V1**	
	23	3 760	62.28	57100	2.1	301	**2KJ4513 - ■ JQ33 - ■ ■ U1**	
	27	3 300	54.76	55800	2.4	301	**2KJ4513 - ■ JQ33 - ■ ■ T1**	
	K.169-LEN160MRA4P							
	6.5	13 400	223.30	70000	0.96	469	**2KJ4514 - ■ JQ33 - ■ ■ F2**	
	7.0	12 500	208.35	70000	1.0	469	**2KJ4514 - ■ JQ33 - ■ ■ E2**	
	7.9	11 100	185.23	70000	1.2	469	**2KJ4514 - ■ JQ33 - ■ ■ D2**	
	8.7	10 000	166.31	70000	1.3	469	**2KJ4514 - ■ JQ33 - ■ ■ C2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**K.169-LEN160MRA4P**							
	9.7	9 090	150.55	70000	1.4	469	**2KJ4514 - ■ JQ33 - ■ ■ B2**	
	11	7 980	132.24	70000	1.6	469	**2KJ4514 - ■ JQ33 - ■ ■ A2**	
	12	7 230	119.83	70000	1.8	469	**2KJ4514 - ■ JQ33 - ■ ■ X1**	
	14	6 440	106.72	70000	2.0	469	**2KJ4514 - ■ JQ33 - ■ ■ W1**	
	15	5 780	95.83	70000	2.2	469	**2KJ4514 - ■ JQ33 - ■ ■ V1**	
	K.189-LEN160MRA4P							
	7.3	12 000	199.51	104000	1.6	700	**2KJ4515 - ■ JQ33 - ■ ■ W1**	
	8.2	10 700	178.49	104000	1.8	700	**2KJ4515 - ■ JQ33 - ■ ■ V1**	
	9.0	9 720	160.98	104000	2.0	700	**2KJ4515 - ■ JQ33 - ■ ■ U1**	
	K.189-Z69-LEN132MS4E							
	3.5	23 900	419.00	104000	0.81	733	**2KJ4540 - ■ HV32 - ■ ■ C1**	
	3.8	21 900	384.00	104000	0.89	733	**2KJ4540 - ■ HV32 - ■ ■ B1**	
	4.4	19 100	334.36	104000	1.0	733	**2KJ4540 - ■ HV32 - ■ ■ A1**	
11	**K.89-LEN160MJ4E**							
	59	1 780	24.86	18100	0.9	156	**2KJ4510 - ■ JP32 - ■ ■ M1**	
	66	1 590	22.26	18100	1.0	156	**2KJ4510 - ■ JP32 - ■ ■ L1**	
	75	1 390	19.46	18100	1.1	156	**2KJ4510 - ■ JP32 - ■ ■ K1**	
	88	1 190	16.71	18100	1.2	156	**2KJ4510 - ■ JP32 - ■ ■ J1**	
	99	1 050	14.77	18100	1.3	156	**2KJ4510 - ■ JP32 - ■ ■ H1**	
	117	900	12.56	17800	1.5	156	**2KJ4510 - ■ JP32 - ■ ■ G1**	
	136	770	10.76	17400	1.6	156	**2KJ4510 - ■ JP32 - ■ ■ F1**	
	139	750	10.51	16500	1.1	156	**2KJ4510 - ■ JP32 - ■ ■ E1**	
	162	645	9.02	16200	1.2	156	**2KJ4510 - ■ JP32 - ■ ■ D1**	
	184	570	7.97	15900	1.3	156	**2KJ4510 - ■ JP32 - ■ ■ C1**	
	216	485	6.78	15500	1.5	156	**2KJ4510 - ■ JP32 - ■ ■ B1**	
	252	415	5.81	15100	1.6	156	**2KJ4510 - ■ JP32 - ■ ■ A1**	
	K.89-LEN160MRB4P							
	59	1 780	24.86	18100	0.89	125	**2KJ4510 - ■ JR33 - ■ ■ M1**	
	66	1 600	22.26	18100	1.0	125	**2KJ4510 - ■ JR33 - ■ ■ L1**	
	75	1 400	19.46	18100	1.1	125	**2KJ4510 - ■ JR33 - ■ ■ K1**	
	87	1 200	16.71	18100	1.2	125	**2KJ4510 - ■ JR33 - ■ ■ J1**	
	99	1 060	14.77	18100	1.3	125	**2KJ4510 - ■ JR33 - ■ ■ H1**	
	116	900	12.56	17800	1.5	125	**2KJ4510 - ■ JR33 - ■ ■ G1**	
	136	770	10.76	17400	1.6	125	**2KJ4510 - ■ JR33 - ■ ■ F1**	
	139	755	10.51	16500	1.1	125	**2KJ4510 - ■ JR33 - ■ ■ E1**	
	162	645	9.02	16200	1.2	125	**2KJ4510 - ■ JR33 - ■ ■ D1**	
	183	570	7.97	15900	1.3	125	**2KJ4510 - ■ JR33 - ■ ■ C1**	
	215	485	6.78	15500	1.5	125	**2KJ4510 - ■ JR33 - ■ ■ B1**	
	251	415	5.81	15100	1.6	125	**2KJ4510 - ■ JR33 - ■ ■ A1**	
	K.109-LEN160MJ4E							
	32	3 290	45.89	23500	0.88	193	**2KJ4511 - ■ JP32 - ■ ■ R1**	
	37	2 860	39.95	23600	0.98	193	**2KJ4511 - ■ JP32 - ■ ■ Q1**	
	43	2 440	34.15	23600	1.1	193	**2KJ4511 - ■ JP32 - ■ ■ P1**	
	50	2 090	29.23	23500	1.3	193	**2KJ4511 - ■ JP32 - ■ ■ N1**	
	59	1 790	24.98	23100	1.3	193	**2KJ4511 - ■ JP32 - ■ ■ M1**	
	66	1 600	22.31	22900	1.5	193	**2KJ4511 - ■ JP32 - ■ ■ L1**	
	74	1 410	19.71	22500	1.7	193	**2KJ4511 - ■ JP32 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**K.109-LEN160MJ4E**							
	85	1 240	17.30	22 100	1.9	193	**2KJ4511 - ■ JP32 - ■ ■ J1**	
	97	1 080	15.06	21 600	2.1	193	**2KJ4511 - ■ JP32 - ■ ■ H1**	
	114	920	12.87	21 000	2.4	193	**2KJ4511 - ■ JP32 - ■ ■ G1**	
	133	790	11.02	20 400	2.7	193	**2KJ4511 - ■ JP32 - ■ ■ F1**	
	140	745	10.45	19 800	1.7	193	**2KJ4511 - ■ JP32 - ■ ■ E1**	
	160	655	9.17	19 300	1.9	193	**2KJ4511 - ■ JP32 - ■ ■ D1**	
	183	570	7.99	18 800	2.2	193	**2KJ4511 - ■ JP32 - ■ ■ C1**	
	214	490	6.83	18 100	2.7	193	**2KJ4511 - ■ JP32 - ■ ■ B1**	
	251	415	5.84	17 500	3.1	193	**2KJ4511 - ■ JP32 - ■ ■ A1**	
	K.129-LEN160MJ4E							
	21	5 020	70.03	35 700	0.88	241	**2KJ4512 - ■ JP32 - ■ ■ V1**	
	23	4 480	62.49	35 800	0.98	241	**2KJ4512 - ■ JP32 - ■ ■ U1**	
	27	3 940	55.05	35 700	1.1	241	**2KJ4512 - ■ JP32 - ■ ■ T1**	
	30	3 450	48.24	35 500	1.3	241	**2KJ4512 - ■ JP32 - ■ ■ S1**	
	35	3 010	42.04	35 100	1.5	241	**2KJ4512 - ■ JP32 - ■ ■ R1**	
	38	2 750	38.37	34 700	1.6	241	**2KJ4512 - ■ JP32 - ■ ■ Q1**	
	44	2 360	33.03	34 100	1.9	241	**2KJ4512 - ■ JP32 - ■ ■ P1**	
	46	2 260	31.55	33 900	1.9	241	**2KJ4512 - ■ JP32 - ■ ■ N1**	
	53	1 970	27.58	33 200	2.2	241	**2KJ4512 - ■ JP32 - ■ ■ M1**	
	60	1 760	24.61	32 600	2.5	241	**2KJ4512 - ■ JP32 - ■ ■ L1**	
	68	1 550	21.68	31 900	2.7	241	**2KJ4512 - ■ JP32 - ■ ■ K1**	
	77	1 360	19.00	31 100	3.0	241	**2KJ4512 - ■ JP32 - ■ ■ J1**	
	124	845	11.80	28 100	3.3	241	**2KJ4512 - ■ JP32 - ■ ■ E1**	
	142	740	10.34	27 200	3.8	241	**2KJ4512 - ■ JP32 - ■ ■ D1**	
	K.149-LEN160MJ4E							
	12	9 110	127.16	58 100	0.88	324	**2KJ4513 - ■ JP32 - ■ ■ C2**	
	13	8 080	112.68	58 000	0.99	324	**2KJ4513 - ■ JP32 - ■ ■ B2**	
	15	7 150	99.79	57 700	1.1	324	**2KJ4513 - ■ JP32 - ■ ■ A2**	
	16	6 360	88.81	57 300	1.3	324	**2KJ4513 - ■ JP32 - ■ ■ X1**	
	18	5 700	79.59	56 700	1.4	324	**2KJ4513 - ■ JP32 - ■ ■ W1**	
	21	5 060	70.56	55 900	1.6	324	**2KJ4513 - ■ JP32 - ■ ■ V1**	
	24	4 460	62.28	55 000	1.8	324	**2KJ4513 - ■ JP32 - ■ ■ U1**	
	27	3 920	54.76	53 900	2.0	324	**2KJ4513 - ■ JP32 - ■ ■ T1**	
	30	3 550	49.60	53 100	2.2	324	**2KJ4513 - ■ JP32 - ■ ■ S1**	
	34	3 090	43.18	51 800	2.6	324	**2KJ4513 - ■ JP32 - ■ ■ R1**	
	K.169-LEN160MJ4E							
	6.6	16 000	223.30	70 000	0.81	492	**2KJ4514 - ■ JP32 - ■ ■ F2**	
	7.0	14 900	208.35	70 000	0.87	492	**2KJ4514 - ■ JP32 - ■ ■ E2**	
	7.9	13 200	185.23	70 000	0.98	492	**2KJ4514 - ■ JP32 - ■ ■ D2**	
	8.8	11 900	166.31	70 000	1.1	492	**2KJ4514 - ■ JP32 - ■ ■ C2**	
	9.7	10 700	150.55	70 000	1.2	492	**2KJ4514 - ■ JP32 - ■ ■ B2**	
	11	9 480	132.24	70 000	1.4	492	**2KJ4514 - ■ JP32 - ■ ■ A2**	
	12	8 590	119.83	70 000	1.5	492	**2KJ4514 - ■ JP32 - ■ ■ X1**	
	14	7 650	106.72	70 000	1.7	492	**2KJ4514 - ■ JP32 - ■ ■ W1**	
	15	6 870	95.83	70 000	1.9	492	**2KJ4514 - ■ JP32 - ■ ■ V1**	
	17	6 130	85.51	70 000	2.1	492	**2KJ4514 - ■ JP32 - ■ ■ U1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**K.189-LEN160MJ4E**							
	7.3	14 300	199.51	104000	1.3	723	**2KJ4515 - ■ JP32 - ■ ■ W1**	
	8.2	12 700	178.49	104000	1.5	723	**2KJ4515 - ■ JP32 - ■ ■ V1**	
	9.1	11 500	160.98	104000	1.7	723	**2KJ4515 - ■ JP32 - ■ ■ U1**	
	10	10 200	142.28	104000	1.9	723	**2KJ4515 - ■ JP32 - ■ ■ T1**	
	11	9 320	130.05	104000	2.1	723	**2KJ4515 - ■ JP32 - ■ ■ S1**	
	K.109-LEN160MRB4P							
	32	3 300	45.89	23500	0.88	162	**2KJ4511 - ■ JR33 - ■ ■ R1**	
	37	2 870	39.95	23600	0.98	162	**2KJ4511 - ■ JR33 - ■ ■ Q1**	
	43	2 450	34.15	23600	1.1	162	**2KJ4511 - ■ JR33 - ■ ■ P1**	
	50	2 100	29.23	23500	1.2	162	**2KJ4511 - ■ JR33 - ■ ■ N1**	
	58	1 790	24.98	23200	1.3	162	**2KJ4511 - ■ JR33 - ■ ■ M1**	
	65	1 600	22.31	22900	1.5	162	**2KJ4511 - ■ JR33 - ■ ■ L1**	
	74	1 410	19.71	22600	1.7	162	**2KJ4511 - ■ JR33 - ■ ■ K1**	
	84	1 240	17.30	22100	1.9	162	**2KJ4511 - ■ JR33 - ■ ■ J1**	
	97	1 080	15.06	21600	2.1	162	**2KJ4511 - ■ JR33 - ■ ■ H1**	
	113	925	12.87	21000	2.4	162	**2KJ4511 - ■ JR33 - ■ ■ G1**	
	132	790	11.02	20400	2.6	162	**2KJ4511 - ■ JR33 - ■ ■ F1**	
	140	750	10.45	19800	1.7	162	**2KJ4511 - ■ JR33 - ■ ■ E1**	
	159	660	9.17	19300	1.9	162	**2KJ4511 - ■ JR33 - ■ ■ D1**	
	183	575	7.99	18800	2.2	162	**2KJ4511 - ■ JR33 - ■ ■ C1**	
	214	490	6.83	18200	2.6	162	**2KJ4511 - ■ JR33 - ■ ■ B1**	
	250	420	5.84	17500	3.1	162	**2KJ4511 - ■ JR33 - ■ ■ A1**	
	K.129-LEN160MRB4P							
	21	5 030	70.03	35700	0.87	210	**2KJ4512 - ■ JR33 - ■ ■ V1**	
	23	4 490	62.49	35800	0.98	210	**2KJ4512 - ■ JR33 - ■ ■ U1**	
	27	3 960	55.05	35700	1.1	210	**2KJ4512 - ■ JR33 - ■ ■ T1**	
	30	3 470	48.24	35500	1.3	210	**2KJ4512 - ■ JR33 - ■ ■ S1**	
	35	3 020	42.04	35100	1.5	210	**2KJ4512 - ■ JR33 - ■ ■ R1**	
	38	2 760	38.37	34800	1.6	210	**2KJ4512 - ■ JR33 - ■ ■ Q1**	
	44	2 370	33.03	34100	1.9	210	**2KJ4512 - ■ JR33 - ■ ■ P1**	
	46	2 270	31.55	33900	1.9	210	**2KJ4512 - ■ JR33 - ■ ■ N1**	
	53	1 980	27.58	33200	2.2	210	**2KJ4512 - ■ JR33 - ■ ■ M1**	
	59	1 770	24.61	32600	2.5	210	**2KJ4512 - ■ JR33 - ■ ■ L1**	
	67	1 560	21.68	31900	2.7	210	**2KJ4512 - ■ JR33 - ■ ■ K1**	
	77	1 360	19.00	31100	3.0	210	**2KJ4512 - ■ JR33 - ■ ■ J1**	
	124	845	11.80	28100	3.3	210	**2KJ4512 - ■ JR33 - ■ ■ E1**	
	141	740	10.34	27300	3.8	210	**2KJ4512 - ■ JR33 - ■ ■ D1**	
	K.149-LEN160MRB4P							
	11	9 140	127.16	58100	0.87	293	**2KJ4513 - ■ JR33 - ■ ■ C2**	
	13	8 100	112.68	58000	0.99	293	**2KJ4513 - ■ JR33 - ■ ■ B2**	
	15	7 180	99.79	57700	1.1	293	**2KJ4513 - ■ JR33 - ■ ■ A2**	
	16	6 390	88.81	57300	1.3	293	**2KJ4513 - ■ JR33 - ■ ■ X1**	
	18	5 720	79.59	56700	1.4	293	**2KJ4513 - ■ JR33 - ■ ■ W1**	
	21	5 070	70.56	55900	1.6	293	**2KJ4513 - ■ JR33 - ■ ■ V1**	
	23	4 480	62.28	55000	1.8	293	**2KJ4513 - ■ JR33 - ■ ■ U1**	
	27	3 940	54.76	53900	2.0	293	**2KJ4513 - ■ JR33 - ■ ■ T1**	
	29	3 560	49.60	53100	2.2	293	**2KJ4513 - ■ JR33 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**K.149-LEN160MRB4P**							
	34	3 100	43.18	51800	2.6	293	**2KJ4513 - ■ JR33 - ■ ■ R1**	
	K.169-LEN160MRB4P							
	6.5	16 000	223.30	70000	0.81	461	**2KJ4514 - ■ JR33 - ■ ■ F2**	
	7.0	14 900	208.35	70000	0.87	461	**2KJ4514 - ■ JR33 - ■ ■ E2**	
	7.9	13 300	185.23	70000	0.98	461	**2KJ4514 - ■ JR33 - ■ ■ D2**	
	8.8	11 900	166.31	70000	1.1	461	**2KJ4514 - ■ JR33 - ■ ■ C2**	
	9.7	10 800	150.55	70000	1.2	461	**2KJ4514 - ■ JR33 - ■ ■ B2**	
	11	9 510	132.24	70000	1.4	461	**2KJ4514 - ■ JR33 - ■ ■ A2**	
	12	8 620	119.83	70000	1.5	461	**2KJ4514 - ■ JR33 - ■ ■ X1**	
	14	7 670	106.72	70000	1.7	461	**2KJ4514 - ■ JR33 - ■ ■ W1**	
	15	6 890	95.83	70000	1.9	461	**2KJ4514 - ■ JR33 - ■ ■ V1**	
	17	6 150	85.51	70000	2.1	461	**2KJ4514 - ■ JR33 - ■ ■ U1**	
	K.189-LEN160MRB4P							
	7.3	14 300	199.51	104000	1.3	692	**2KJ4515 - ■ JR33 - ■ ■ W1**	
	8.2	12 800	178.49	104000	1.5	692	**2KJ4515 - ■ JR33 - ■ ■ V1**	
	9.1	11 500	160.98	104000	1.7	692	**2KJ4515 - ■ JR33 - ■ ■ U1**	
	10	10 200	142.28	104000	1.9	692	**2KJ4515 - ■ JR33 - ■ ■ T1**	
	11	9 350	130.05	104000	2.1	692	**2KJ4515 - ■ JR33 - ■ ■ S1**	
15	**K.89-LEN160LH4E**							
	75	1 900	19.46	16300	0.82	180	**2KJ4510 - ■ JS32 - ■ ■ K1**	
	88	1 630	16.71	16400	0.91	180	**2KJ4510 - ■ JS32 - ■ ■ J1**	
	99	1 440	14.77	16400	0.98	180	**2KJ4510 - ■ JS32 - ■ ■ H1**	
	117	1 220	12.56	16300	1.1	180	**2KJ4510 - ■ JS32 - ■ ■ G1**	
	136	1 050	10.76	16100	1.2	180	**2KJ4510 - ■ JS32 - ■ ■ F1**	
	139	1 020	10.51	15000	0.82	180	**2KJ4510 - ■ JS32 - ■ ■ E1**	
	162	880	9.02	14900	0.91	180	**2KJ4510 - ■ JS32 - ■ ■ D1**	
	184	775	7.97	14700	0.99	180	**2KJ4510 - ■ JS32 - ■ ■ C1**	
	216	660	6.78	14500	1.1	180	**2KJ4510 - ■ JS32 - ■ ■ B1**	
	252	565	5.81	14200	1.2	180	**2KJ4510 - ■ JS32 - ■ ■ A1**	
	K.89-LEN160LQ4P							
	75	1 900	19.46	16300	0.82	150	**2KJ4510 - ■ JU33 - ■ ■ K1**	
	87	1 640	16.71	16400	0.9	150	**2KJ4510 - ■ JU33 - ■ ■ J1**	
	99	1 440	14.77	16400	0.98	150	**2KJ4510 - ■ JU33 - ■ ■ H1**	
	116	1 230	12.56	16300	1.1	150	**2KJ4510 - ■ JU33 - ■ ■ G1**	
	136	1 050	10.76	16100	1.2	150	**2KJ4510 - ■ JU33 - ■ ■ F1**	
	139	1 030	10.51	15000	0.82	150	**2KJ4510 - ■ JU33 - ■ ■ E1**	
	162	885	9.02	14900	0.9	150	**2KJ4510 - ■ JU33 - ■ ■ D1**	
	183	780	7.97	14700	0.98	150	**2KJ4510 - ■ JU33 - ■ ■ C1**	
	215	665	6.78	14500	1.1	150	**2KJ4510 - ■ JU33 - ■ ■ B1**	
	251	570	5.81	14200	1.2	150	**2KJ4510 - ■ JU33 - ■ ■ A1**	
	K.109-LEN160LH4E							
	43	3 330	34.15	20300	0.81	217	**2KJ4511 - ■ JS32 - ■ ■ P1**	
	50	2 850	29.23	20600	0.92	217	**2KJ4511 - ■ JS32 - ■ ■ N1**	
	59	2 440	24.98	20700	0.97	217	**2KJ4511 - ■ JS32 - ■ ■ M1**	
	66	2 180	22.31	20700	1.1	217	**2KJ4511 - ■ JS32 - ■ ■ L1**	
	74	1 920	19.71	20600	1.2	217	**2KJ4511 - ■ JS32 - ■ ■ K1**	
	85	1 690	17.30	20400	1.4	217	**2KJ4511 - ■ JS32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**K.109-LEN160LH4E**							
	97	1 470	15.06	20 100	1.6	217	**2KJ4511 - ■ JS32 - ■ ■ H1**	
	114	1 250	12.87	19 800	1.7	217	**2KJ4511 - ■ JS32 - ■ ■ G1**	
	133	1 070	11.02	19 300	1.9	217	**2KJ4511 - ■ JS32 - ■ ■ F1**	
	140	1 020	10.45	18 600	1.2	217	**2KJ4511 - ■ JS32 - ■ ■ E1**	
	160	895	9.17	18 300	1.4	217	**2KJ4511 - ■ JS32 - ■ ■ D1**	
	183	780	7.99	17 900	1.6	217	**2KJ4511 - ■ JS32 - ■ ■ C1**	
	214	665	6.83	17 400	1.9	217	**2KJ4511 - ■ JS32 - ■ ■ B1**	
	251	570	5.84	16 900	2.3	217	**2KJ4511 - ■ JS32 - ■ ■ A1**	
	K.109-LEN160LQ4P							
	43	3 350	34.15	20 200	0.81	187	**2KJ4511 - ■ JU33 - ■ ■ P1**	
	50	2 860	29.23	20 600	0.91	187	**2KJ4511 - ■ JU33 - ■ ■ N1**	
	58	2 450	24.98	20 700	0.97	187	**2KJ4511 - ■ JU33 - ■ ■ M1**	
	65	2 180	22.31	20 700	1.1	187	**2KJ4511 - ■ JU33 - ■ ■ L1**	
	74	1 930	19.71	20 600	1.2	187	**2KJ4511 - ■ JU33 - ■ ■ K1**	
	84	1 690	17.30	20 400	1.4	187	**2KJ4511 - ■ JU33 - ■ ■ J1**	
	97	1 470	15.06	20 200	1.6	187	**2KJ4511 - ■ JU33 - ■ ■ H1**	
	113	1 260	12.87	19 800	1.7	187	**2KJ4511 - ■ JU33 - ■ ■ G1**	
	132	1 080	11.02	19 300	1.9	187	**2KJ4511 - ■ JU33 - ■ ■ F1**	
	140	1 020	10.45	18 600	1.2	187	**2KJ4511 - ■ JU33 - ■ ■ E1**	
	159	900	9.17	18 300	1.4	187	**2KJ4511 - ■ JU33 - ■ ■ D1**	
	183	780	7.99	17 900	1.6	187	**2KJ4511 - ■ JU33 - ■ ■ C1**	
	214	670	6.83	17 400	1.9	187	**2KJ4511 - ■ JU33 - ■ ■ B1**	
	250	570	5.84	16 900	2.3	187	**2KJ4511 - ■ JU33 - ■ ■ A1**	
	K.129-LEN160LH4E							
	27	5 380	55.05	30 800	0.82	265	**2KJ4512 - ■ JS32 - ■ ■ T1**	
	30	4 710	48.24	31 200	0.93	265	**2KJ4512 - ■ JS32 - ■ ■ S1**	
	35	4 110	42.04	31 300	1.1	265	**2KJ4512 - ■ JS32 - ■ ■ R1**	
	38	3 750	38.37	31 300	1.2	265	**2KJ4512 - ■ JS32 - ■ ■ Q1**	
	44	3 230	33.03	31 200	1.4	265	**2KJ4512 - ■ JS32 - ■ ■ P1**	
	46	3 080	31.55	31 100	1.4	265	**2KJ4512 - ■ JS32 - ■ ■ N1**	
	53	2 690	27.58	30 800	1.6	265	**2KJ4512 - ■ JS32 - ■ ■ M1**	
	60	2 400	24.61	30 400	1.8	265	**2KJ4512 - ■ JS32 - ■ ■ L1**	
	68	2 120	21.68	29 900	2.0	265	**2KJ4512 - ■ JS32 - ■ ■ K1**	
	77	1 850	19.00	29 400	2.2	265	**2KJ4512 - ■ JS32 - ■ ■ J1**	
	88	1 610	16.56	28 800	2.5	265	**2KJ4512 - ■ JS32 - ■ ■ H1**	
	97	1 470	15.11	28 300	2.7	265	**2KJ4512 - ■ JS32 - ■ ■ G1**	
	113	1 270	13.01	27 600	3.0	265	**2KJ4512 - ■ JS32 - ■ ■ F1**	
	124	1 150	11.80	27 000	2.5	265	**2KJ4512 - ■ JS32 - ■ ■ E1**	
	142	1 010	10.34	26 300	2.8	265	**2KJ4512 - ■ JS32 - ■ ■ D1**	
	163	880	9.01	25 500	3.1	265	**2KJ4512 - ■ JS32 - ■ ■ C1**	
	178	800	8.22	25 000	3.3	265	**2KJ4512 - ■ JS32 - ■ ■ B1**	
	207	690	7.08	24 200	3.7	265	**2KJ4512 - ■ JS32 - ■ ■ A1**	
	K.129-LEN160LQ4P							
	27	5 400	55.05	30 800	0.81	235	**2KJ4512 - ■ JU33 - ■ ■ T1**	
	30	4 730	48.24	31 200	0.93	235	**2KJ4512 - ■ JU33 - ■ ■ S1**	
	35	4 120	42.04	31 300	1.1	235	**2KJ4512 - ■ JU33 - ■ ■ R1**	
	38	3 760	38.37	31 300	1.2	235	**2KJ4512 - ■ JU33 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**K.129-LEN160LQ4P**							
	44	3 240	33.03	31200	1.4	235	**2KJ4512 - ■ JU33 - ■ ■ P1**	
	46	3 090	31.55	31100	1.4	235	**2KJ4512 - ■ JU33 - ■ ■ N1**	
	53	2 700	27.58	30800	1.6	235	**2KJ4512 - ■ JU33 - ■ ■ M1**	
	59	2 410	24.61	30400	1.8	235	**2KJ4512 - ■ JU33 - ■ ■ L1**	
	67	2 120	21.68	30000	2.0	235	**2KJ4512 - ■ JU33 - ■ ■ K1**	
	77	1 860	19.00	29400	2.2	235	**2KJ4512 - ■ JU33 - ■ ■ J1**	
	88	1 620	16.56	28800	2.5	235	**2KJ4512 - ■ JU33 - ■ ■ H1**	
	97	1 480	15.11	28300	2.7	235	**2KJ4512 - ■ JU33 - ■ ■ G1**	
	112	1 270	13.01	27600	3.0	235	**2KJ4512 - ■ JU33 - ■ ■ F1**	
	124	1 150	11.80	27100	2.4	235	**2KJ4512 - ■ JU33 - ■ ■ E1**	
	141	1 010	10.34	26300	2.8	235	**2KJ4512 - ■ JU33 - ■ ■ D1**	
	162	880	9.01	25600	3.1	235	**2KJ4512 - ■ JU33 - ■ ■ C1**	
	178	805	8.22	25100	3.3	235	**2KJ4512 - ■ JU33 - ■ ■ B1**	
	206	695	7.08	24200	3.6	235	**2KJ4512 - ■ JU33 - ■ ■ A1**	
	K.149-LEN160LH4E							
	15	9 750	99.79	50500	0.82	348	**2KJ4513 - ■ JS32 - ■ ■ A2**	
	16	8 680	88.81	50800	0.92	348	**2KJ4513 - ■ JS32 - ■ ■ X1**	
	18	7 780	79.59	50900	1.0	348	**2KJ4513 - ■ JS32 - ■ ■ W1**	
	21	6 890	70.56	50800	1.2	348	**2KJ4513 - ■ JS32 - ■ ■ V1**	
	24	6 090	62.28	50400	1.3	348	**2KJ4513 - ■ JS32 - ■ ■ U1**	
	27	5 350	54.76	49900	1.5	348	**2KJ4513 - ■ JS32 - ■ ■ T1**	
	30	4 850	49.60	49400	1.6	348	**2KJ4513 - ■ JS32 - ■ ■ S1**	
	34	4 220	43.18	48600	1.9	348	**2KJ4513 - ■ JS32 - ■ ■ R1**	
	41	3 460	35.40	47300	2.3	348	**2KJ4513 - ■ JS32 - ■ ■ Q1**	
	45	3 160	32.33	46600	2.5	348	**2KJ4513 - ■ JS32 - ■ ■ P1**	
	51	2 800	28.66	45600	2.7	348	**2KJ4513 - ■ JS32 - ■ ■ N1**	
	58	2 470	25.30	44600	3.0	348	**2KJ4513 - ■ JS32 - ■ ■ M1**	
	104	1 380	14.15	39200	3.0	348	**2KJ4513 - ■ JS32 - ■ ■ G1**	
	118	1 210	12.44	38000	3.3	348	**2KJ4513 - ■ JS32 - ■ ■ F1**	
	130	1 100	11.26	37100	3.6	348	**2KJ4513 - ■ JS32 - ■ ■ E1**	
	149	955	9.81	35900	4.0	348	**2KJ4513 - ■ JS32 - ■ ■ D1**	
	K.149-LEN160LQ4P							
	15	9 790	99.79	50400	0.82	318	**2KJ4513 - ■ JU33 - ■ ■ A2**	
	16	8 710	88.81	50800	0.92	318	**2KJ4513 - ■ JU33 - ■ ■ X1**	
	18	7 800	79.59	50900	1.0	318	**2KJ4513 - ■ JU33 - ■ ■ W1**	
	21	6 920	70.56	50800	1.2	318	**2KJ4513 - ■ JU33 - ■ ■ V1**	
	23	6 110	62.28	50400	1.3	318	**2KJ4513 - ■ JU33 - ■ ■ U1**	
	27	5 370	54.76	49900	1.5	318	**2KJ4513 - ■ JU33 - ■ ■ T1**	
	29	4 860	49.60	49500	1.6	318	**2KJ4513 - ■ JU33 - ■ ■ S1**	
	34	4 230	43.18	48700	1.9	318	**2KJ4513 - ■ JU33 - ■ ■ R1**	
	41	3 470	35.40	47300	2.3	318	**2KJ4513 - ■ JU33 - ■ ■ Q1**	
	45	3 170	32.33	46600	2.4	318	**2KJ4513 - ■ JU33 - ■ ■ P1**	
	51	2 810	28.66	45600	2.7	318	**2KJ4513 - ■ JU33 - ■ ■ N1**	
	58	2 480	25.30	44600	3.0	318	**2KJ4513 - ■ JU33 - ■ ■ M1**	
	103	1 380	14.15	39200	3.0	318	**2KJ4513 - ■ JU33 - ■ ■ G1**	
	117	1 220	12.44	38000	3.3	318	**2KJ4513 - ■ JU33 - ■ ■ F1**	
	130	1 100	11.26	37200	3.6	318	**2KJ4513 - ■ JU33 - ■ ■ E1**	
	149	960	9.81	35900	4.0	318	**2KJ4513 - ■ JU33 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**K.169-LEN160LH4E**							
	8.8	16 200	166.31	70000	0.8	516	**2KJ4514 - ■ JS32 - ■ ■ C2**	
	9.7	14 700	150.55	70000	0.88	516	**2KJ4514 - ■ JS32 - ■ ■ B2**	
	11	12 900	132.24	70000	1.0	516	**2KJ4514 - ■ JS32 - ■ ■ A2**	
	12	11 700	119.83	70000	1.1	516	**2KJ4514 - ■ JS32 - ■ ■ X1**	
	14	10 400	106.72	70000	1.2	516	**2KJ4514 - ■ JS32 - ■ ■ W1**	
	15	9 370	95.83	70000	1.4	516	**2KJ4514 - ■ JS32 - ■ ■ V1**	
	17	8 360	85.51	70000	1.6	516	**2KJ4514 - ■ JS32 - ■ ■ U1**	
	19	7 450	76.23	70000	1.7	516	**2KJ4514 - ■ JS32 - ■ ■ T1**	
	22	6 610	67.61	70000	2.0	516	**2KJ4514 - ■ JS32 - ■ ■ S1**	
	24	6 060	62.07	70000	2.1	516	**2KJ4514 - ■ JS32 - ■ ■ R1**	
	27	5 340	54.68	70000	2.4	516	**2KJ4514 - ■ JS32 - ■ ■ Q1**	
	K.169-LEN160LQ4P							
	8.8	16 300	166.31	70000	0.8	486	**2KJ4514 - ■ JU33 - ■ ■ C2**	
	9.7	14 700	150.55	70000	0.88	486	**2KJ4514 - ■ JU33 - ■ ■ B2**	
	11	12 900	132.24	70000	1.0	486	**2KJ4514 - ■ JU33 - ■ ■ A2**	
	12	11 700	119.83	70000	1.1	486	**2KJ4514 - ■ JU33 - ■ ■ X1**	
	14	10 400	106.72	70000	1.2	486	**2KJ4514 - ■ JU33 - ■ ■ W1**	
	15	9 400	95.83	70000	1.4	486	**2KJ4514 - ■ JU33 - ■ ■ V1**	
	17	8 390	85.51	70000	1.5	486	**2KJ4514 - ■ JU33 - ■ ■ U1**	
	19	7 470	76.23	70000	1.7	486	**2KJ4514 - ■ JU33 - ■ ■ T1**	
	22	6 630	67.61	70000	2.0	486	**2KJ4514 - ■ JU33 - ■ ■ S1**	
	24	6 090	62.07	70000	2.1	486	**2KJ4514 - ■ JU33 - ■ ■ R1**	
	27	5 360	54.68	70000	2.4	486	**2KJ4514 - ■ JU33 - ■ ■ Q1**	
	K.189-LEN160LH4E							
	7.3	19 500	199.51	104000	0.98	747	**2KJ4515 - ■ JS32 - ■ ■ W1**	
	8.2	17 400	178.49	104000	1.1	747	**2KJ4515 - ■ JS32 - ■ ■ V1**	
	9.1	15 700	160.98	104000	1.2	747	**2KJ4515 - ■ JS32 - ■ ■ U1**	
	10	13 900	142.28	104000	1.4	747	**2KJ4515 - ■ JS32 - ■ ■ T1**	
	11	12 700	130.05	104000	1.5	747	**2KJ4515 - ■ JS32 - ■ ■ S1**	
	13	11 400	117.00	104000	1.7	747	**2KJ4515 - ■ JS32 - ■ ■ R1**	
	14	10 200	104.56	104000	1.9	747	**2KJ4515 - ■ JS32 - ■ ■ Q1**	
	15	9 240	94.55	104000	2.1	747	**2KJ4515 - ■ JS32 - ■ ■ P1**	
	K.189-LEN160LQ4P							
	7.3	19 500	199.51	104000	0.98	717	**2KJ4515 - ■ JU33 - ■ ■ W1**	
	8.2	17 500	178.49	104000	1.1	717	**2KJ4515 - ■ JU33 - ■ ■ V1**	
	9.1	15 700	160.98	104000	1.2	717	**2KJ4515 - ■ JU33 - ■ ■ U1**	
	10	13 900	142.28	104000	1.4	717	**2KJ4515 - ■ JU33 - ■ ■ T1**	
	11	12 700	130.05	104000	1.5	717	**2KJ4515 - ■ JU33 - ■ ■ S1**	
	12	11 400	117.00	104000	1.7	717	**2KJ4515 - ■ JU33 - ■ ■ R1**	
	14	10 200	104.56	104000	1.9	717	**2KJ4515 - ■ JU33 - ■ ■ Q1**	
	15	9 270	94.55	104000	2.1	717	**2KJ4515 - ■ JU33 - ■ ■ P1**	
18.5	**K.109-LEN180MM4E**							
	66	2 690	22.31	18700	0.88	263	**2KJ4511 - ■ KL32 - ■ ■ L1**	
	74	2 370	19.71	18900	1.0	263	**2KJ4511 - ■ KL32 - ■ ■ K1**	
	85	2 080	17.30	18900	1.2	263	**2KJ4511 - ■ KL32 - ■ ■ J1**	
	97	1 810	15.06	18900	1.3	263	**2KJ4511 - ■ KL32 - ■ ■ H1**	
	114	1 550	12.87	18600	1.4	263	**2KJ4511 - ■ KL32 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**K.109-LEN180MM4E**							
	133	1 320	11.02	18400	1.6	263	**2KJ4511 - ■ KL32 - ■ ■ F1**	
	140	1 260	10.45	17600	1.0	263	**2KJ4511 - ■ KL32 - ■ ■ E1**	
	160	1 100	9.17	17400	1.1	263	**2KJ4511 - ■ KL32 - ■ ■ D1**	
	183	960	7.99	17100	1.3	263	**2KJ4511 - ■ KL32 - ■ ■ C1**	
	214	820	6.83	16700	1.6	263	**2KJ4511 - ■ KL32 - ■ ■ B1**	
	251	700	5.84	16300	1.8	263	**2KJ4511 - ■ KL32 - ■ ■ A1**	
	K.109-LEN180MQ4P							
	66	2 690	22.31	18700	0.88	268	**2KJ4511 - ■ KL33 - ■ ■ L1**	
	74	2 370	19.71	18900	1.0	268	**2KJ4511 - ■ KL33 - ■ ■ K1**	
	85	2 080	17.30	18900	1.2	268	**2KJ4511 - ■ KL33 - ■ ■ J1**	
	97	1 810	15.06	18800	1.3	268	**2KJ4511 - ■ KL33 - ■ ■ H1**	
	114	1 550	12.87	18600	1.4	268	**2KJ4511 - ■ KL33 - ■ ■ G1**	
	133	1 320	11.02	18400	1.6	268	**2KJ4511 - ■ KL33 - ■ ■ F1**	
	140	1 260	10.45	17600	1.0	268	**2KJ4511 - ■ KL33 - ■ ■ E1**	
	160	1 100	9.17	17400	1.1	268	**2KJ4511 - ■ KL33 - ■ ■ D1**	
	183	960	7.99	17100	1.3	268	**2KJ4511 - ■ KL33 - ■ ■ C1**	
	214	820	6.83	16700	1.6	268	**2KJ4511 - ■ KL33 - ■ ■ B1**	
	251	700	5.84	16300	1.8	268	**2KJ4511 - ■ KL33 - ■ ■ A1**	
	K.129-LEN180MM4E							
	35	5 070	42.04	28000	0.87	312	**2KJ4512 - ■ KL32 - ■ ■ R1**	
	38	4 620	38.37	28400	0.95	312	**2KJ4512 - ■ KL32 - ■ ■ Q1**	
	44	3 980	33.03	28600	1.1	312	**2KJ4512 - ■ KL32 - ■ ■ P1**	
	46	3 800	31.55	28600	1.2	312	**2KJ4512 - ■ KL32 - ■ ■ N1**	
	53	3 320	27.58	28600	1.3	312	**2KJ4512 - ■ KL32 - ■ ■ M1**	
	60	2 960	24.61	28500	1.5	312	**2KJ4512 - ■ KL32 - ■ ■ L1**	
	68	2 610	21.68	28300	1.6	312	**2KJ4512 - ■ KL32 - ■ ■ K1**	
	77	2 290	19.00	27900	1.8	312	**2KJ4512 - ■ KL32 - ■ ■ J1**	
	88	1 990	16.56	27500	2.0	312	**2KJ4512 - ■ KL32 - ■ ■ H1**	
	97	1 820	15.11	27100	2.2	312	**2KJ4512 - ■ KL32 - ■ ■ G1**	
	113	1 560	13.01	26600	2.4	312	**2KJ4512 - ■ KL32 - ■ ■ F1**	
	124	1 420	11.80	26100	2.0	312	**2KJ4512 - ■ KL32 - ■ ■ E1**	
	142	1 240	10.34	25500	2.3	312	**2KJ4512 - ■ KL32 - ■ ■ D1**	
	163	1 080	9.01	24900	2.5	312	**2KJ4512 - ■ KL32 - ■ ■ C1**	
	178	990	8.22	24400	2.7	312	**2KJ4512 - ■ KL32 - ■ ■ B1**	
	207	850	7.08	23700	3.0	312	**2KJ4512 - ■ KL32 - ■ ■ A1**	
	K.129-LEN180MQ4P							
	35	5 070	42.04	28000	0.87	317	**2KJ4512 - ■ KL33 - ■ ■ R1**	
	38	4 620	38.37	28300	0.95	317	**2KJ4512 - ■ KL33 - ■ ■ Q1**	
	44	3 980	33.03	28600	1.1	317	**2KJ4512 - ■ KL33 - ■ ■ P1**	
	46	3 800	31.55	28600	1.2	317	**2KJ4512 - ■ KL33 - ■ ■ N1**	
	53	3 320	27.58	28600	1.3	317	**2KJ4512 - ■ KL33 - ■ ■ M1**	
	60	2 960	24.61	28500	1.5	317	**2KJ4512 - ■ KL33 - ■ ■ L1**	
	68	2 610	21.68	28200	1.6	317	**2KJ4512 - ■ KL33 - ■ ■ K1**	
	77	2 290	19.00	27900	1.8	317	**2KJ4512 - ■ KL33 - ■ ■ J1**	
	88	1 990	16.56	27500	2.0	317	**2KJ4512 - ■ KL33 - ■ ■ H1**	
	97	1 820	15.11	27100	2.2	317	**2KJ4512 - ■ KL33 - ■ ■ G1**	
	113	1 560	13.01	26500	2.4	317	**2KJ4512 - ■ KL33 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**K.129-LEN180MQ4P**							
	124	1 420	11.80	26 100	2.0	317	**2KJ4512 - ■ KL33 - ■ ■ E1**	
	142	1 240	10.34	25 500	2.3	317	**2KJ4512 - ■ KL33 - ■ ■ D1**	
	163	1 080	9.01	24 800	2.5	317	**2KJ4512 - ■ KL33 - ■ ■ C1**	
	178	990	8.22	24 400	2.7	317	**2KJ4512 - ■ KL33 - ■ ■ B1**	
	207	850	7.08	23 600	3.0	317	**2KJ4512 - ■ KL33 - ■ ■ A1**	
	K.149-LEN180MM4E							
	18	9 590	79.59	45 800	0.83	394	**2KJ4513 - ■ KL32 - ■ ■ W1**	
	21	8 500	70.56	46 300	0.94	394	**2KJ4513 - ■ KL32 - ■ ■ V1**	
	24	7 510	62.28	46 500	1.1	394	**2KJ4513 - ■ KL32 - ■ ■ U1**	
	27	6 600	54.76	46 400	1.2	394	**2KJ4513 - ■ KL32 - ■ ■ T1**	
	30	5 980	49.60	46 300	1.3	394	**2KJ4513 - ■ KL32 - ■ ■ S1**	
	34	5 200	43.18	45 900	1.5	394	**2KJ4513 - ■ KL32 - ■ ■ R1**	
	41	4 260	35.40	45 000	1.8	394	**2KJ4513 - ■ KL32 - ■ ■ Q1**	
	45	3 890	32.33	44 500	2.0	394	**2KJ4513 - ■ KL32 - ■ ■ P1**	
	51	3 450	28.66	43 800	2.2	394	**2KJ4513 - ■ KL32 - ■ ■ N1**	
	58	3 050	25.30	42 900	2.4	394	**2KJ4513 - ■ KL32 - ■ ■ M1**	
	66	2 680	22.25	42 000	2.7	394	**2KJ4513 - ■ KL32 - ■ ■ L1**	
	73	2 430	20.15	41 300	2.9	394	**2KJ4513 - ■ KL32 - ■ ■ K1**	
	84	2 110	17.54	40 200	3.3	394	**2KJ4513 - ■ KL32 - ■ ■ J1**	
	104	1 700	14.15	38 200	2.4	394	**2KJ4513 - ■ KL32 - ■ ■ G1**	
	118	1 500	12.44	37 200	2.7	394	**2KJ4513 - ■ KL32 - ■ ■ F1**	
	130	1 350	11.26	36 400	2.9	394	**2KJ4513 - ■ KL32 - ■ ■ E1**	
	149	1 180	9.81	35 200	3.3	394	**2KJ4513 - ■ KL32 - ■ ■ D1**	
	182	970	8.04	33 600	3.8	394	**2KJ4513 - ■ KL32 - ■ ■ C1**	
	215	820	6.82	32 300	4.4	394	**2KJ4513 - ■ KL32 - ■ ■ B1**	
	K.149-LEN180MQ4P							
	18	9 590	79.59	45 700	0.83	399	**2KJ4513 - ■ KL33 - ■ ■ W1**	
	21	8 500	70.56	46 200	0.94	399	**2KJ4513 - ■ KL33 - ■ ■ V1**	
	24	7 510	62.28	46 400	1.1	399	**2KJ4513 - ■ KL33 - ■ ■ U1**	
	27	6 600	54.76	46 400	1.2	399	**2KJ4513 - ■ KL33 - ■ ■ T1**	
	30	5 980	49.60	46 200	1.3	399	**2KJ4513 - ■ KL33 - ■ ■ S1**	
	34	5 200	43.18	45 800	1.5	399	**2KJ4513 - ■ KL33 - ■ ■ R1**	
	41	4 260	35.40	45 000	1.8	399	**2KJ4513 - ■ KL33 - ■ ■ Q1**	
	45	3 890	32.33	44 500	2.0	399	**2KJ4513 - ■ KL33 - ■ ■ P1**	
	51	3 450	28.66	43 700	2.2	399	**2KJ4513 - ■ KL33 - ■ ■ N1**	
	58	3 050	25.30	42 900	2.4	399	**2KJ4513 - ■ KL33 - ■ ■ M1**	
	66	2 680	22.25	42 000	2.7	399	**2KJ4513 - ■ KL33 - ■ ■ L1**	
	73	2 430	20.15	41 200	2.9	399	**2KJ4513 - ■ KL33 - ■ ■ K1**	
	84	2 110	17.54	40 200	3.3	399	**2KJ4513 - ■ KL33 - ■ ■ J1**	
	104	1 700	14.15	38 200	2.4	399	**2KJ4513 - ■ KL33 - ■ ■ G1**	
	118	1 500	12.44	37 100	2.7	399	**2KJ4513 - ■ KL33 - ■ ■ F1**	
	130	1 350	11.26	36 300	2.9	399	**2KJ4513 - ■ KL33 - ■ ■ E1**	
	149	1 180	9.81	35 200	3.3	399	**2KJ4513 - ■ KL33 - ■ ■ D1**	
	182	970	8.04	33 600	3.8	399	**2KJ4513 - ■ KL33 - ■ ■ C1**	
	215	820	6.82	32 300	4.4	399	**2KJ4513 - ■ KL33 - ■ ■ B1**	
	K.169-LEN180MM4E							
	12	14 400	119.83	70 000	0.9	565	**2KJ4514 - ■ KL32 - ■ ■ X1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**K.169-LEN180MM4E**							
	14	12 800	106.72	70000	1.0	565	**2KJ4514 - ■ KL32 - ■ ■ W1**	
	15	11 500	95.83	70000	1.1	565	**2KJ4514 - ■ KL32 - ■ ■ V1**	
	17	10 300	85.51	70000	1.3	565	**2KJ4514 - ■ KL32 - ■ ■ U1**	
	19	9 190	76.23	70000	1.4	565	**2KJ4514 - ■ KL32 - ■ ■ T1**	
	22	8 150	67.61	70000	1.6	565	**2KJ4514 - ■ KL32 - ■ ■ S1**	
	24	7 480	62.07	70000	1.7	565	**2KJ4514 - ■ KL32 - ■ ■ R1**	
	27	6 590	54.68	70000	2.0	565	**2KJ4514 - ■ KL32 - ■ ■ Q1**	
	33	5 410	44.86	70000	2.4	565	**2KJ4514 - ■ KL32 - ■ ■ P1**	
	K.169-LEN180MQ4P							
	12	14 400	119.83	70000	0.9	570	**2KJ4514 - ■ KL33 - ■ ■ X1**	
	14	12 800	106.72	70000	1.0	570	**2KJ4514 - ■ KL33 - ■ ■ W1**	
	15	11 500	95.83	70000	1.1	570	**2KJ4514 - ■ KL33 - ■ ■ V1**	
	17	10 300	85.51	70000	1.3	570	**2KJ4514 - ■ KL33 - ■ ■ U1**	
	19	9 190	76.23	70000	1.4	570	**2KJ4514 - ■ KL33 - ■ ■ T1**	
	22	8 150	67.61	70000	1.6	570	**2KJ4514 - ■ KL33 - ■ ■ S1**	
	24	7 480	62.07	70000	1.7	570	**2KJ4514 - ■ KL33 - ■ ■ R1**	
	27	6 590	54.68	70000	2.0	570	**2KJ4514 - ■ KL33 - ■ ■ Q1**	
	33	5 410	44.86	70000	2.4	570	**2KJ4514 - ■ KL33 - ■ ■ P1**	
	K.189-LEN180MM4E							
	11	15 600	130.05	104000	1.2	794	**2KJ4515 - ■ KL32 - ■ ■ S1**	
	13	14 100	117.00	104000	1.4	794	**2KJ4515 - ■ KL32 - ■ ■ R1**	
	14	12 600	104.56	104000	1.5	794	**2KJ4515 - ■ KL32 - ■ ■ Q1**	
	15	11 400	94.55	104000	1.7	794	**2KJ4515 - ■ KL32 - ■ ■ P1**	
	18	10 000	83.44	104000	1.9	794	**2KJ4515 - ■ KL32 - ■ ■ N1**	
	20	8 960	74.35	104000	2.2	794	**2KJ4515 - ■ KL32 - ■ ■ M1**	
	22	8 120	67.36	104000	2.4	794	**2KJ4515 - ■ KL32 - ■ ■ L1**	
	K.189-LEN180MQ4P							
	11	15 600	130.05	104000	1.2	799	**2KJ4515 - ■ KL33 - ■ ■ S1**	
	13	14 100	117.00	104000	1.4	799	**2KJ4515 - ■ KL33 - ■ ■ R1**	
	14	12 600	104.56	104000	1.5	799	**2KJ4515 - ■ KL33 - ■ ■ Q1**	
	15	11 400	94.55	104000	1.7	799	**2KJ4515 - ■ KL33 - ■ ■ P1**	
	18	10 000	83.44	104000	1.9	799	**2KJ4515 - ■ KL33 - ■ ■ N1**	
	20	8 960	74.35	104000	2.2	799	**2KJ4515 - ■ KL33 - ■ ■ M1**	
	22	8 120	67.36	104000	2.4	799	**2KJ4515 - ■ KL33 - ■ ■ L1**	
22	**K.109-LEN180LL4E**							
	74	2 820	19.71	17200	0.84	278	**2KJ4511 - ■ KN32 - ■ ■ K1**	
	85	2 480	17.30	17400	0.97	278	**2KJ4511 - ■ KN32 - ■ ■ J1**	
	97	2 160	15.06	17500	1.1	278	**2KJ4511 - ■ KN32 - ■ ■ H1**	
	114	1 840	12.87	17600	1.2	278	**2KJ4511 - ■ KN32 - ■ ■ G1**	
	133	1 580	11.02	17400	1.3	278	**2KJ4511 - ■ KN32 - ■ ■ F1**	
	140	1 490	10.45	16600	0.84	278	**2KJ4511 - ■ KN32 - ■ ■ E1**	
	160	1 310	9.17	16500	0.97	278	**2KJ4511 - ■ KN32 - ■ ■ D1**	
	183	1 140	7.99	16300	1.1	278	**2KJ4511 - ■ KN32 - ■ ■ C1**	
	214	980	6.83	16000	1.3	278	**2KJ4511 - ■ KN32 - ■ ■ B1**	
	251	835	5.84	15700	1.6	278	**2KJ4511 - ■ KN32 - ■ ■ A1**	
	K.109-LEN180LQ4P							
	74	2 820	19.71	17200	0.84	290	**2KJ4511 - ■ KP33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**K.109-LEN180LQ4P**							
	85	2 480	17.30	17400	0.97	290	**2KJ4511 - ■ KP33 - ■ ■ J1**	
	97	2 160	15.06	17500	1.1	290	**2KJ4511 - ■ KP33 - ■ ■ H1**	
	114	1 840	12.87	17500	1.2	290	**2KJ4511 - ■ KP33 - ■ ■ G1**	
	133	1 580	11.02	17400	1.3	290	**2KJ4511 - ■ KP33 - ■ ■ F1**	
	140	1 490	10.45	16600	0.84	290	**2KJ4511 - ■ KP33 - ■ ■ E1**	
	160	1 310	9.17	16500	0.97	290	**2KJ4511 - ■ KP33 - ■ ■ D1**	
	183	1 140	7.99	16300	1.1	290	**2KJ4511 - ■ KP33 - ■ ■ C1**	
	214	980	6.83	16000	1.3	290	**2KJ4511 - ■ KP33 - ■ ■ B1**	
	251	835	5.84	15700	1.6	290	**2KJ4511 - ■ KP33 - ■ ■ A1**	
	K.129-LEN180LL4E							
	38	5 500	38.37	25300	0.8	327	**2KJ4512 - ■ KN32 - ■ ■ Q1**	
	44	4 730	33.03	26000	0.93	327	**2KJ4512 - ■ KN32 - ■ ■ P1**	
	46	4 520	31.55	26200	0.97	327	**2KJ4512 - ■ KN32 - ■ ■ N1**	
	53	3 950	27.58	26500	1.1	327	**2KJ4512 - ■ KN32 - ■ ■ M1**	
	60	3 520	24.61	26600	1.2	327	**2KJ4512 - ■ KN32 - ■ ■ L1**	
	68	3 100	21.68	26600	1.4	327	**2KJ4512 - ■ KN32 - ■ ■ K1**	
	77	2 720	19.00	26400	1.5	327	**2KJ4512 - ■ KN32 - ■ ■ J1**	
	88	2 370	16.56	26200	1.7	327	**2KJ4512 - ■ KN32 - ■ ■ H1**	
	97	2 160	15.11	26000	1.8	327	**2KJ4512 - ■ KN32 - ■ ■ G1**	
	113	1 860	13.01	25500	2.0	327	**2KJ4512 - ■ KN32 - ■ ■ F1**	
	124	1 690	11.80	25200	1.7	327	**2KJ4512 - ■ KN32 - ■ ■ E1**	
	142	1 480	10.34	24700	1.9	327	**2KJ4512 - ■ KN32 - ■ ■ D1**	
	163	1 290	9.01	24100	2.1	327	**2KJ4512 - ■ KN32 - ■ ■ C1**	
	178	1 170	8.22	23800	2.3	327	**2KJ4512 - ■ KN32 - ■ ■ B1**	
	207	1 010	7.08	23100	2.5	327	**2KJ4512 - ■ KN32 - ■ ■ A1**	
	K.129-LEN180LQ4P							
	38	5 500	38.37	25300	0.8	339	**2KJ4512 - ■ KP33 - ■ ■ Q1**	
	44	4 730	33.03	26000	0.93	339	**2KJ4512 - ■ KP33 - ■ ■ P1**	
	46	4 520	31.55	26100	0.97	339	**2KJ4512 - ■ KP33 - ■ ■ N1**	
	53	3 950	27.58	26400	1.1	339	**2KJ4512 - ■ KP33 - ■ ■ M1**	
	60	3 520	24.61	26600	1.2	339	**2KJ4512 - ■ KP33 - ■ ■ L1**	
	68	3 100	21.68	26600	1.4	339	**2KJ4512 - ■ KP33 - ■ ■ K1**	
	77	2 720	19.00	26400	1.5	339	**2KJ4512 - ■ KP33 - ■ ■ J1**	
	88	2 370	16.56	26200	1.7	339	**2KJ4512 - ■ KP33 - ■ ■ H1**	
	97	2 160	15.11	25900	1.8	339	**2KJ4512 - ■ KP33 - ■ ■ G1**	
	113	1 860	13.01	25500	2.0	339	**2KJ4512 - ■ KP33 - ■ ■ F1**	
	124	1 690	11.80	25100	1.7	339	**2KJ4512 - ■ KP33 - ■ ■ E1**	
	142	1 480	10.34	24700	1.9	339	**2KJ4512 - ■ KP33 - ■ ■ D1**	
	163	1 290	9.01	24100	2.1	339	**2KJ4512 - ■ KP33 - ■ ■ C1**	
	178	1 170	8.22	23800	2.3	339	**2KJ4512 - ■ KP33 - ■ ■ B1**	
	207	1 010	7.08	23100	2.5	339	**2KJ4512 - ■ KP33 - ■ ■ A1**	
	K.149-LEN180LL4E							
	24	8 930	62.28	42500	0.9	409	**2KJ4513 - ■ KN32 - ■ ■ U1**	
	27	7 850	54.76	43000	1.0	409	**2KJ4513 - ■ KN32 - ■ ■ T1**	
	30	7 110	49.60	43100	1.1	409	**2KJ4513 - ■ KN32 - ■ ■ S1**	
	34	6 190	43.18	43100	1.3	409	**2KJ4513 - ■ KN32 - ■ ■ R1**	
	41	5 070	35.40	42800	1.5	409	**2KJ4513 - ■ KN32 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**K.149-LEN180LL4E**							
	45	4 630	32.33	42500	1.7	409	**2KJ4513 - ■ KN32 - ■ ■ P1**	
	51	4 110	28.66	41900	1.9	409	**2KJ4513 - ■ KN32 - ■ ■ N1**	
	58	3 620	25.30	41300	2.0	409	**2KJ4513 - ■ KN32 - ■ ■ M1**	
	66	3 190	22.25	40600	2.3	409	**2KJ4513 - ■ KN32 - ■ ■ L1**	
	73	2 890	20.15	40000	2.4	409	**2KJ4513 - ■ KN32 - ■ ■ K1**	
	84	2 510	17.54	39100	2.7	409	**2KJ4513 - ■ KN32 - ■ ■ J1**	
	102	2 060	14.38	37700	3.2	409	**2KJ4513 - ■ KN32 - ■ ■ H1**	
	104	2 020	14.15	37300	2.0	409	**2KJ4513 - ■ KN32 - ■ ■ G1**	
	118	1 780	12.44	36300	2.3	409	**2KJ4513 - ■ KN32 - ■ ■ F1**	
	130	1 610	11.26	35600	2.4	409	**2KJ4513 - ■ KN32 - ■ ■ E1**	
	149	1 400	9.81	34600	2.7	409	**2KJ4513 - ■ KN32 - ■ ■ D1**	
	182	1 150	8.04	33100	3.2	409	**2KJ4513 - ■ KN32 - ■ ■ C1**	
	215	975	6.82	31800	3.7	409	**2KJ4513 - ■ KN32 - ■ ■ B1**	
	K.149-LEN180LQ4P							
	24	8 930	62.28	42400	0.9	421	**2KJ4513 - ■ KP33 - ■ ■ U1**	
	27	7 850	54.76	42900	1.0	421	**2KJ4513 - ■ KP33 - ■ ■ T1**	
	30	7 110	49.60	43100	1.1	421	**2KJ4513 - ■ KP33 - ■ ■ S1**	
	34	6 190	43.18	43100	1.3	421	**2KJ4513 - ■ KP33 - ■ ■ R1**	
	41	5 070	35.40	42700	1.5	421	**2KJ4513 - ■ KP33 - ■ ■ Q1**	
	45	4 630	32.33	42400	1.7	421	**2KJ4513 - ■ KP33 - ■ ■ P1**	
	51	4 110	28.66	41900	1.9	421	**2KJ4513 - ■ KP33 - ■ ■ N1**	
	58	3 620	25.30	41300	2.0	421	**2KJ4513 - ■ KP33 - ■ ■ M1**	
	66	3 190	22.25	40500	2.3	421	**2KJ4513 - ■ KP33 - ■ ■ L1**	
	73	2 890	20.15	39900	2.4	421	**2KJ4513 - ■ KP33 - ■ ■ K1**	
	84	2 510	17.54	39000	2.7	421	**2KJ4513 - ■ KP33 - ■ ■ J1**	
	102	2 060	14.38	37600	3.2	421	**2KJ4513 - ■ KP33 - ■ ■ H1**	
	104	2 020	14.15	37200	2.0	421	**2KJ4513 - ■ KP33 - ■ ■ G1**	
	118	1 780	12.44	36300	2.3	421	**2KJ4513 - ■ KP33 - ■ ■ F1**	
	130	1 610	11.26	35600	2.4	421	**2KJ4513 - ■ KP33 - ■ ■ E1**	
	149	1 400	9.81	34600	2.7	421	**2KJ4513 - ■ KP33 - ■ ■ D1**	
	182	1 150	8.04	33100	3.2	421	**2KJ4513 - ■ KP33 - ■ ■ C1**	
	215	975	6.82	31800	3.7	421	**2KJ4513 - ■ KP33 - ■ ■ B1**	
	K.169-LEN180LL4E							
	14	15 300	106.72	70000	0.85	580	**2KJ4514 - ■ KN32 - ■ ■ W1**	
	15	13 700	95.83	70000	0.95	580	**2KJ4514 - ■ KN32 - ■ ■ V1**	
	17	12 200	85.51	70000	1.1	580	**2KJ4514 - ■ KN32 - ■ ■ U1**	
	19	10 900	76.23	70000	1.2	580	**2KJ4514 - ■ KN32 - ■ ■ T1**	
	22	9 690	67.61	70000	1.3	580	**2KJ4514 - ■ KN32 - ■ ■ S1**	
	24	8 900	62.07	70000	1.5	580	**2KJ4514 - ■ KN32 - ■ ■ R1**	
	27	7 840	54.68	70000	1.7	580	**2KJ4514 - ■ KN32 - ■ ■ Q1**	
	33	6 430	44.86	70000	2.0	580	**2KJ4514 - ■ KN32 - ■ ■ P1**	
	37	5 640	39.33	69200	2.3	580	**2KJ4514 - ■ KN32 - ■ ■ N1**	
	K.169-LEN180LQ4P							
	14	15 300	106.72	70000	0.85	592	**2KJ4514 - ■ KP33 - ■ ■ W1**	
	15	13 700	95.83	70000	0.95	592	**2KJ4514 - ■ KP33 - ■ ■ V1**	
	17	12 200	85.51	70000	1.1	592	**2KJ4514 - ■ KP33 - ■ ■ U1**	
	19	10 900	76.23	70000	1.2	592	**2KJ4514 - ■ KP33 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**K.169-LEN180LQ4P**							
	22	9 690	67.61	70000	1.3	592	**2KJ4514 - ■ KP33 - ■ ■ S1**	
	24	8 900	62.07	70000	1.5	592	**2KJ4514 - ■ KP33 - ■ ■ R1**	
	27	7 840	54.68	70000	1.7	592	**2KJ4514 - ■ KP33 - ■ ■ Q1**	
	33	6 430	44.86	70000	2.0	592	**2KJ4514 - ■ KP33 - ■ ■ P1**	
	37	5 640	39.33	69200	2.3	592	**2KJ4514 - ■ KP33 - ■ ■ N1**	
	K.189-LEN180LL4E							
	11	18 600	130.05	104000	1.0	809	**2KJ4515 - ■ KN32 - ■ ■ S1**	
	13	16 700	117.00	104000	1.2	809	**2KJ4515 - ■ KN32 - ■ ■ R1**	
	14	14 900	104.56	104000	1.3	809	**2KJ4515 - ■ KN32 - ■ ■ Q1**	
	15	13 500	94.55	104000	1.4	809	**2KJ4515 - ■ KN32 - ■ ■ P1**	
	18	11 900	83.44	104000	1.6	809	**2KJ4515 - ■ KN32 - ■ ■ N1**	
	20	10 600	74.35	104000	1.8	809	**2KJ4515 - ■ KN32 - ■ ■ M1**	
	22	9 660	67.36	104000	2.0	809	**2KJ4515 - ■ KN32 - ■ ■ L1**	
	24	8 680	60.58	104000	2.2	809	**2KJ4515 - ■ KN32 - ■ ■ K1**	
	K.189-LEN180LQ4P							
	11	18 600	130.05	104000	1.0	821	**2KJ4515 - ■ KP33 - ■ ■ S1**	
	13	16 700	117.00	104000	1.2	821	**2KJ4515 - ■ KP33 - ■ ■ R1**	
	14	14 900	104.56	104000	1.3	821	**2KJ4515 - ■ KP33 - ■ ■ Q1**	
	15	13 500	94.55	104000	1.4	821	**2KJ4515 - ■ KP33 - ■ ■ P1**	
	18	11 900	83.44	104000	1.6	821	**2KJ4515 - ■ KP33 - ■ ■ N1**	
	20	10 600	74.35	104000	1.8	821	**2KJ4515 - ■ KP33 - ■ ■ M1**	
	22	9 660	67.36	104000	2.0	821	**2KJ4515 - ■ KP33 - ■ ■ L1**	
	24	8 680	60.58	104000	2.2	821	**2KJ4515 - ■ KP33 - ■ ■ K1**	
30	**K.129-LEN200LN4E**							
	53	5 370	27.58	21600	0.82	398	**2KJ4512 - ■ LM32 - ■ ■ M1**	
	60	4 790	24.61	22200	0.92	398	**2KJ4512 - ■ LM32 - ■ ■ L1**	
	68	4 220	21.68	22700	1.0	398	**2KJ4512 - ■ LM32 - ■ ■ K1**	
	77	3 700	19.00	23100	1.1	398	**2KJ4512 - ■ LM32 - ■ ■ J1**	
	89	3 220	16.56	23300	1.2	398	**2KJ4512 - ■ LM32 - ■ ■ H1**	
	97	2 940	15.11	23300	1.3	398	**2KJ4512 - ■ LM32 - ■ ■ G1**	
	113	2 530	13.01	23200	1.5	398	**2KJ4512 - ■ LM32 - ■ ■ F1**	
	125	2 300	11.80	23100	1.2	398	**2KJ4512 - ■ LM32 - ■ ■ E1**	
	142	2 010	10.34	22800	1.4	398	**2KJ4512 - ■ LM32 - ■ ■ D1**	
	163	1 750	9.01	22500	1.6	398	**2KJ4512 - ■ LM32 - ■ ■ C1**	
	179	1 600	8.22	22300	1.7	398	**2KJ4512 - ■ LM32 - ■ ■ B1**	
	208	1 380	7.08	21800	1.8	398	**2KJ4512 - ■ LM32 - ■ ■ A1**	
	K.129-LEN200LT4P							
	53	5 370	27.58	21600	0.82	408	**2KJ4512 - ■ LN33 - ■ ■ M1**	
	60	4 790	24.61	22200	0.92	408	**2KJ4512 - ■ LN33 - ■ ■ L1**	
	68	4 220	21.68	22700	1.0	408	**2KJ4512 - ■ LN33 - ■ ■ K1**	
	77	3 700	19.00	23100	1.1	408	**2KJ4512 - ■ LN33 - ■ ■ J1**	
	89	3 220	16.56	23300	1.2	408	**2KJ4512 - ■ LN33 - ■ ■ H1**	
	97	2 940	15.11	23300	1.3	408	**2KJ4512 - ■ LN33 - ■ ■ G1**	
	113	2 530	13.01	23200	1.5	408	**2KJ4512 - ■ LN33 - ■ ■ F1**	
	125	2 300	11.80	23100	1.2	408	**2KJ4512 - ■ LN33 - ■ ■ E1**	
	142	2 010	10.34	22800	1.4	408	**2KJ4512 - ■ LN33 - ■ ■ D1**	
	163	1 750	9.01	22500	1.6	408	**2KJ4512 - ■ LN33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**K.129-LEN200LT4P**							
	179	1 600	8.22	22300	1.7	408	**2KJ4512 - ■ LN33 - ■ ■ B1**	
	208	1 380	7.08	21800	1.8	408	**2KJ4512 - ■ LN33 - ■ ■ A1**	
	K.149-LEN200LN4E							
	30	9 660	49.60	35900	0.83	479	**2KJ4513 - ■ LM32 - ■ ■ S1**	
	34	8 410	43.18	36900	0.95	479	**2KJ4513 - ■ LM32 - ■ ■ R1**	
	42	6 890	35.40	37600	1.1	479	**2KJ4513 - ■ LM32 - ■ ■ Q1**	
	45	6 300	32.33	37700	1.2	479	**2KJ4513 - ■ LM32 - ■ ■ P1**	
	51	5 580	28.66	37800	1.4	479	**2KJ4513 - ■ LM32 - ■ ■ N1**	
	58	4 930	25.30	37600	1.5	479	**2KJ4513 - ■ LM32 - ■ ■ M1**	
	66	4 330	22.25	37400	1.7	479	**2KJ4513 - ■ LM32 - ■ ■ L1**	
	73	3 920	20.15	37100	1.8	479	**2KJ4513 - ■ LM32 - ■ ■ K1**	
	84	3 410	17.54	36500	2.0	479	**2KJ4513 - ■ LM32 - ■ ■ J1**	
	102	2 800	14.38	35600	2.4	479	**2KJ4513 - ■ LM32 - ■ ■ H1**	
	104	2 750	14.15	35100	1.5	479	**2KJ4513 - ■ LM32 - ■ ■ G1**	
	118	2 420	12.44	34400	1.7	479	**2KJ4513 - ■ LM32 - ■ ■ F1**	
	131	2 190	11.26	33900	1.8	479	**2KJ4513 - ■ LM32 - ■ ■ E1**	
	150	1 910	9.81	33100	2.0	479	**2KJ4513 - ■ LM32 - ■ ■ D1**	
	183	1 560	8.04	31800	2.4	479	**2KJ4513 - ■ LM32 - ■ ■ C1**	
	216	1 320	6.82	30800	2.7	479	**2KJ4513 - ■ LM32 - ■ ■ B1**	
	K.149-LEN200LT4P							
	30	9 660	49.60	35900	0.83	489	**2KJ4513 - ■ LN33 - ■ ■ S1**	
	34	8 410	43.18	36900	0.95	489	**2KJ4513 - ■ LN33 - ■ ■ R1**	
	42	6 890	35.40	37600	1.1	489	**2KJ4513 - ■ LN33 - ■ ■ Q1**	
	45	6 300	32.33	37700	1.2	489	**2KJ4513 - ■ LN33 - ■ ■ P1**	
	51	5 580	28.66	37800	1.4	489	**2KJ4513 - ■ LN33 - ■ ■ N1**	
	58	4 930	25.30	37600	1.5	489	**2KJ4513 - ■ LN33 - ■ ■ M1**	
	66	4 330	22.25	37400	1.7	489	**2KJ4513 - ■ LN33 - ■ ■ L1**	
	73	3 920	20.15	37100	1.8	489	**2KJ4513 - ■ LN33 - ■ ■ K1**	
	84	3 410	17.54	36500	2.0	489	**2KJ4513 - ■ LN33 - ■ ■ J1**	
	102	2 800	14.38	35600	2.4	489	**2KJ4513 - ■ LN33 - ■ ■ H1**	
	104	2 750	14.15	35100	1.5	489	**2KJ4513 - ■ LN33 - ■ ■ G1**	
	118	2 420	12.44	34400	1.7	489	**2KJ4513 - ■ LN33 - ■ ■ F1**	
	131	2 190	11.26	33900	1.8	489	**2KJ4513 - ■ LN33 - ■ ■ E1**	
	150	1 910	9.81	33100	2.0	489	**2KJ4513 - ■ LN33 - ■ ■ D1**	
	183	1 560	8.04	31800	2.4	489	**2KJ4513 - ■ LN33 - ■ ■ C1**	
	216	1 320	6.82	30800	2.7	489	**2KJ4513 - ■ LN33 - ■ ■ B1**	
	K.169-LEN200LN4E							
	19	14 800	76.23	65900	0.88	650	**2KJ4514 - ■ LM32 - ■ ■ T1**	
	22	13 100	67.61	66300	0.99	650	**2KJ4514 - ■ LM32 - ■ ■ S1**	
	24	12 000	62.07	66400	1.1	650	**2KJ4514 - ■ LM32 - ■ ■ R1**	
	27	10 600	54.68	66200	1.2	650	**2KJ4514 - ■ LM32 - ■ ■ Q1**	
	33	8 740	44.86	65300	1.5	650	**2KJ4514 - ■ LM32 - ■ ■ P1**	
	37	7 660	39.33	64500	1.7	650	**2KJ4514 - ■ LM32 - ■ ■ N1**	
	48	5 990	30.75	62500	2.2	650	**2KJ4514 - ■ LM32 - ■ ■ M1**	
	50	5 730	29.43	62100	2.3	650	**2KJ4514 - ■ LM32 - ■ ■ L1**	
	54	5 260	27.02	61300	2.5	650	**2KJ4514 - ■ LM32 - ■ ■ K1**	
	62	4 630	23.80	60000	2.8	650	**2KJ4514 - ■ LM32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**K.169-LEN200LN4E**							
	120	2 370	12.20	51 100	2.8	650	**2KJ4514 - ■ LM32 - ■ ■ E1**	
	147	1 950	10.01	49 000	3.3	650	**2KJ4514 - ■ LM32 - ■ ■ D1**	
	167	1 710	8.78	47 600	3.7	650	**2KJ4514 - ■ LM32 - ■ ■ C1**	
	K.169-LEN200LT4P							
	19	14 800	76.23	65 900	0.88	660	**2KJ4514 - ■ LN33 - ■ ■ T1**	
	22	13 100	67.61	66 300	0.99	660	**2KJ4514 - ■ LN33 - ■ ■ S1**	
	24	12 000	62.07	66 400	1.1	660	**2KJ4514 - ■ LN33 - ■ ■ R1**	
	27	10 600	54.68	66 200	1.2	660	**2KJ4514 - ■ LN33 - ■ ■ Q1**	
	33	8 740	44.86	65 300	1.5	660	**2KJ4514 - ■ LN33 - ■ ■ P1**	
	37	7 660	39.33	64 500	1.7	660	**2KJ4514 - ■ LN33 - ■ ■ N1**	
	48	5 990	30.75	62 500	2.2	660	**2KJ4514 - ■ LN33 - ■ ■ M1**	
	50	5 730	29.43	62 100	2.3	660	**2KJ4514 - ■ LN33 - ■ ■ L1**	
	54	5 260	27.02	61 300	2.5	660	**2KJ4514 - ■ LN33 - ■ ■ K1**	
	62	4 630	23.80	60 000	2.8	660	**2KJ4514 - ■ LN33 - ■ ■ J1**	
	120	2 370	12.20	51 100	2.8	660	**2KJ4514 - ■ LN33 - ■ ■ E1**	
	147	1 950	10.01	49 000	3.3	660	**2KJ4514 - ■ LN33 - ■ ■ D1**	
	167	1 710	8.78	47 600	3.7	660	**2KJ4514 - ■ LN33 - ■ ■ C1**	
	K.189-LEN200LN4E							
	13	22 800	117.00	104 000	0.86	880	**2KJ4515 - ■ LM32 - ■ ■ R1**	
	14	20 300	104.56	104 000	0.96	880	**2KJ4515 - ■ LM32 - ■ ■ Q1**	
	16	18 400	94.55	104 000	1.1	880	**2KJ4515 - ■ LM32 - ■ ■ P1**	
	18	16 200	83.44	104 000	1.2	880	**2KJ4515 - ■ LM32 - ■ ■ N1**	
	20	14 400	74.35	104 000	1.3	880	**2KJ4515 - ■ LM32 - ■ ■ M1**	
	22	13 100	67.36	104 000	1.5	880	**2KJ4515 - ■ LM32 - ■ ■ L1**	
	24	11 800	60.58	104 000	1.7	880	**2KJ4515 - ■ LM32 - ■ ■ K1**	
	29	9 810	50.34	104 000	2.0	880	**2KJ4515 - ■ LM32 - ■ ■ J1**	
	33	8 720	44.76	104 000	2.2	880	**2KJ4515 - ■ LM32 - ■ ■ H1**	
	K.189-LEN200LT4P							
	13	22 800	117.00	104 000	0.86	890	**2KJ4515 - ■ LN33 - ■ ■ R1**	
	14	20 300	104.56	104 000	0.96	890	**2KJ4515 - ■ LN33 - ■ ■ Q1**	
	16	18 400	94.55	104 000	1.1	890	**2KJ4515 - ■ LN33 - ■ ■ P1**	
	18	16 200	83.44	104 000	1.2	890	**2KJ4515 - ■ LN33 - ■ ■ N1**	
	20	14 400	74.35	104 000	1.3	890	**2KJ4515 - ■ LN33 - ■ ■ M1**	
	22	13 100	67.36	104 000	1.5	890	**2KJ4515 - ■ LN33 - ■ ■ L1**	
	24	11 800	60.58	104 000	1.7	890	**2KJ4515 - ■ LN33 - ■ ■ K1**	
	29	9 810	50.34	104 000	2.0	890	**2KJ4515 - ■ LN33 - ■ ■ J1**	
	33	8 720	44.76	104 000	2.2	890	**2KJ4515 - ■ LN33 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size											Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
B.19																			
42.10	34	50	3 880	13.0	0.02	3410/81	✓	✓											2KJ4500 - ■■■■■ - ■■ A2
37.28	39	50	3 700	13.5	0.03	671/18	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ X1
32.39	45	50	3 510	13.6	0.04	583/18	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ W1
29.44	49	50	3 380	13.6	0.04	265/9	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ V1
25.06	58	50	3 170	13.7	0.06	451/18	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ U1
22.78	64	50	3 050	13.7	0.08	205/9	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ T1
19.86	73	50	2 890	13.9	0.09	715/36	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ S1
17.78	82	50	2 770	14.0	0.12	160/9	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ R1
15.79	92	50	2 640	14.1	0.14	1705/108	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ Q1
14.57	100	50	2 550	14.1	0.17	1705/117	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ P1
12.66	115	50	2 410	14.4	0.19	1595/126	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ N1
11.00	132	50	2 270	14.1	0.19	11/1	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ M1
9.93	146	50	2 190	14.2	0.25	715/72	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ L1
9.35	155	50	2 160	14.2	0.29	1430/153	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ K1
8.15	178	47	2 110	14.6	0.33	220/27	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ J1
7.87	184	38	2 160	21.4	0.14	1472/187	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ H1
6.99	207	38	2 100	21.7	0.17	713/102	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ G1
6.45	225	39	2 060	21.6	0.20	1426/221	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ F1
5.61	258	37	1 990	22.3	0.22	667/119	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ E1
4.87	298	35	1 930	21.6	0.24	414/85	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ D1
4.40	330	34	1 880	22.0	0.32	299/68	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ C1
4.14	350	33	1 850	22.0	0.37	1196/289	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ B1
3.61	402	31	1 780	22.8	0.43	184/51	✓	✓	✓										2KJ4500 - ■■■■■ - ■■ A1

1) Only in conjunction with reduced-backlash version

Transmission ratios and torques

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
B.29																			
46.85	31	110	4 130	10.6	0.04	1265/27	✓	✓											**2KJ4501 - ■■■■■ - ■■ B2**
41.56	35	110	4 130	11.0	0.05	374/9	✓	✓	✓	✓									**2KJ4501 - ■■■■■ - ■■ A2**
36.06	40	110	4 130	11.1	0.06	649/18	✓	✓	✓	✓									**2KJ4501 - ■■■■■ - ■■ X1**
32.78	44	110	4 130	11.1	0.07	295/9	✓	✓	✓	✓									**2KJ4501 - ■■■■■ - ■■ W1**
28.11	52	110	4 130	11.2	0.09	253/9	✓	✓	✓	✓									**2KJ4501 - ■■■■■ - ■■ V1**
25.56	57	110	4 130	11.2	0.11	230/9	✓	✓	✓	✓									**2KJ4501 - ■■■■■ - ■■ U1**
22.41	65	110	4 130	11.4	0.13	605/27	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ T1**
20.00	72	110	4 130	11.4	0.16	20/1	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ S1**
17.82	81	110	4 130	11.5	0.19	1925/108	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ R1**
16.45	88	110	4 130	11.5	0.23	1925/117	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ Q1**
14.40	101	110	4 020	11.7	0.28	605/42	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ P1**
12.63	115	110	3 800	12.0	0.27	341/27	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ N1**
11.46	127	110	3 650	12.1	0.38	275/24	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ M1**
10.78	135	110	3 560	12.1	0.44	550/51	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ L1**
9.51	152	110	3 370	11.8	0.50	770/81	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ K1**
8.25	176	110	3 160	12.0	0.67	33/4	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ J1**
7.84	185	75	3 350	16.5	0.41	345/44	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ H1**
7.38	196	75	3 260	16.5	0.48	1380/187	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ G1**
6.51	223	75	3 100	16.1	0.54	644/99	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ F1**
5.65	257	75	2 920	16.3	0.73	621/110	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ E1**
5.07	286	74	2 900	18.9	0.60	345/68	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ D1**
4.78	303	74	2 830	18.9	0.70	1380/289	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ C1**
4.21	344	74	2 680	18.2	0.82	644/153	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ B1**
3.65	397	73	2 550	18.6	1.10	621/170	✓	✓	✓	✓	✓								**2KJ4501 - ■■■■■ - ■■ A1**

1) Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
B.39																			
56.36	26	250	6 980	8.5	0.06	4565/81	✓	✓											2KJ4502 - ■■■■■ - ■■ A2
50.11	29	210	6 980	8.8	0.08	451/9	✓	✓	✓	✓									2KJ4502 - ■■■■■ - ■■ X1
44.00	33	250	6 980	8.9	0.09	44/1	✓	✓	✓	✓									2KJ4502 - ■■■■■ - ■■ W1
40.00	36	230	6 980	8.9	0.11	40/1	✓	✓	✓	✓									2KJ4502 - ■■■■■ - ■■ V1
34.22	42	250	6 980	8.9	0.13	308/9	✓	✓	✓	✓									2KJ4502 - ■■■■■ - ■■ U1
31.11	47	250	6 980	8.9	0.16	280/9	✓	✓	✓	✓									2KJ4502 - ■■■■■ - ■■ T1
27.50	53	250	6 980	9.0	0.20	55/2	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ S1
25.00	58	250	6 980	9.0	0.26	25/1	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ R1
21.90	66	250	6 720	9.2	0.30	2365/108	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ Q1
20.21	72	250	6 490	9.2	0.36	2365/117	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ P1
17.90	81	250	6 160	9.3	0.43	2255/126	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ N1
14.90	97	250	5 680	9.5	0.58	715/48	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ M1
14.02	103	250	5 520	9.5	0.67	715/51	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ L1
12.56	115	250	5 260	9.6	0.75	2035/162	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ K1
10.69	136	240	4 960	9.8	0.98	385/36	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ J1
9.17	158	230	4 690	10.1	1.29	55/6			✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ H1
7.89	184	220	4 550	10.3	1.66	1705/216			✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ G1
6.60	220	200	4 590	15.1	0.94	897/136	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ F1
6.21	233	200	4 550	15.1	1.08	1794/289	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ E1
5.56	261	200	4 460	15.5	1.26	851/153	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ D1
4.74	306	200	4 330	16.0	1.69	161/34	✓	✓	✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ C1
4.06	357	200	4 190	16.5	2.30	69/17			✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ B1
3.50	414	192	4 050	17.1	3.00	713/204			✓	✓	✓	✓							2KJ4502 - ■■■■■ - ■■ A1

1) Only in conjunction with reduced-backlash version

Transmission ratios and torques

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
B.49																			
59.28	24	450	9 510	8.3	0.19	1067/18	✓	✓	✓	✓									**2KJ4503 - ■■■■■ - ■■ C2**
53.89	27	450	9 120	8.3	0.23	485/9	✓	✓	✓	✓									**2KJ4503 - ■■■■■ - ■■ B2**
45.83	32	450	8 480	8.3	0.28	275/6	✓	✓	✓	✓									**2KJ4503 - ■■■■■ - ■■ A2**
41.67	35	450	8 120	8.3	0.34	125/3	✓	✓	✓	✓									**2KJ4503 - ■■■■■ - ■■ X1**
37.18	39	450	7 710	8.4	0.40	4015/108	✓	✓	✓	✓	✓	✓							**2KJ4503 - ■■■■■ - ■■ W1**
33.33	44	450	7 320	8.4	0.48	100/3	✓	✓	✓	✓	✓	✓							**2KJ4503 - ■■■■■ - ■■ V1**
30.05	48	450	6 970	8.4	0.56	3245/108	✓	✓	✓	✓	✓	✓							**2KJ4503 - ■■■■■ - ■■ U1**
27.74	52	450	6 710	8.4	0.67	3245/117	✓	✓	✓	✓	✓	✓							**2KJ4503 - ■■■■■ - ■■ T1**
25.32	57	450	6 420	8.5	0.80	1595/63	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ S1**
21.01	69	450	5 850	8.6	1.03	3025/144	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ R1**
19.77	73	450	5 670	8.6	1.18	3025/153	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ Q1**
18.67	78	450	5 510	8.6	1.34	3025/162	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ P1**
15.89	91	450	5 060	8.7	1.66	143/9	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ N1**
13.61	107	450	4 660	8.9	2.10	245/18			✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ M1**
11.97	121	450	4 340	9.0	2.50	2585/216			✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ L1**
10.10	144	450	3 930	9.2	3.30	2090/207			✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ K1**
8.80	165	450	3 620	9.7	4.40	44/5			✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ J1**
8.29	175	330	4 540	14.1	1.52	2255/272	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ H1**
7.80	186	330	4 410	14.1	1.74	2255/289	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ G1**
7.37	197	330	4 290	14.1	1.97	2255/306	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ F1**
6.27	231	330	3 970	14.4	2.50	533/85	✓	✓	✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ E1**
5.37	270	330	3 700	14.8	3.30	2009/374			✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ D1**
4.72	307	330	3 690	15.1	4.10	1927/408			✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ C1**
3.98	364	330	3 660	15.6	5.40	1558/391			✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ B1**
3.47	418	325	3 610	17.0	7.20	1476/425			✓	✓	✓	✓	✓						**2KJ4503 - ■■■■■ - ■■ A1**

1) Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.39																			
157.32	9.2	220	6 080	7.3	0.04	3933/25	✓	✓											**2KJ4504 - ■■■■■ - ■■ J2**
139.54	10	220	6 080	7.4	0.05	17442/125	✓	✓	✓	✓									**2KJ4504 - ■■■■■ - ■■ H2**
121.07	12	220	6 080	7.4	0.06	30267/250	✓	✓	✓	✓									**2KJ4504 - ■■■■■ - ■■ G2**
110.06	13	220	6 080	7.4	0.07	30267/275	✓	✓	✓	✓									**2KJ4504 - ■■■■■ - ■■ F2**
94.39	15	220	6 080	7.4	0.09	11799/125	✓	✓	✓	✓									**2KJ4504 - ■■■■■ - ■■ E2**
85.81	17	220	6 080	7.4	0.11	23598/275	✓	✓	✓	✓									**2KJ4504 - ■■■■■ - ■■ D2**
75.24	19	220	6 080	7.5	0.12	1881/25	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ C2**
67.16	22	220	6 080	7.5	0.15	18468/275	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ B2**
59.85	24	220	6 080	7.5	0.18	1197/20	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ A2**
55.25	26	220	6 080	7.5	0.22	3591/65	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ X1**
48.37	30	220	6 080	7.6	0.26	16929/350	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ W1**
42.41	34	220	5 790	7.7	0.24	5301/125	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ V1**
38.47	38	220	5 540	7.7	0.34	1539/40	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ U1**
36.21	40	220	5 390	7.7	0.40	3078/85	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ T1**
31.92	45	220	5 080	7.6	0.44	798/25	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ S1**
27.70	52	220	4 760	7.7	0.60	13851/500	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ R1**
26.89	54	220	4 690	9.2	0.26	6804/253	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ Q1**
23.97	60	220	4 440	9.3	0.32	2205/92	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ P1**
22.12	66	220	4 270	9.3	0.38	6615/299	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ N1**
19.37	75	220	4 000	9.4	0.47	891/46	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ M1**
16.98	85	220	3 740	9.6	0.51	1953/115	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ L1**
15.41	94	220	3 560	9.7	0.67	2835/184	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ K1**
14.50	100	220	3 450	9.7	0.78	5670/391	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ J1**
12.78	113	220	3 220	9.7	0.92	294/23	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ H1**
11.09	131	220	2 990	9.8	1.24	5103/460	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ G1**
10.04	144	184	2 880	14.7	0.55	231/23	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ F1**
8.81	165	183	2 790	15.1	0.62	3038/345	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ E1**
7.99	181	175	2 810	15.3	0.80	735/92	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ D1**
7.52	193	171	2 810	15.3	0.92	2940/391	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ C1**
6.63	219	161	2 820	15.3	1.11	1372/207	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ B1**
5.75	252	150	2 810	15.4	1.49	1323/230	✓	✓	✓	✓	✓	✓							**2KJ4504 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.49																			
200.25	7.2	420	7 820	6.7	0.06	12616/63	✓	✓											2KJ4505 - ■■■■■ - ■■ J2
178.06	8.1	420	7 820	6.8	0.07	6232/35	✓	✓	✓	✓									2KJ4505 - ■■■■■ - ■■ H2
156.34	9.3	420	7 820	6.8	0.08	5472/35	✓	✓	✓	✓									2KJ4505 - ■■■■■ - ■■ G2
142.13	10	420	7 820	6.8	0.10	10944/77	✓	✓	✓	✓									2KJ4505 - ■■■■■ - ■■ F2
121.60	12	420	7 820	6.8	0.12	608/5	✓	✓	✓	✓									2KJ4505 - ■■■■■ - ■■ E2
110.55	13	420	7 820	6.8	0.14	1216/11	✓	✓	✓	✓									2KJ4505 - ■■■■■ - ■■ D2
97.71	15	420	7 710	6.8	0.17	684/7	✓	✓	✓	✓	✓	✓							2KJ4505 - ■■■■■ - ■■ C2
88.83	16	420	7 370	6.8	0.22	6840/77	✓	✓	✓	✓	✓	✓							2KJ4505 - ■■■■■ - ■■ B2
77.81	19	420	6 910	6.9	0.25	1634/21	✓	✓	✓	✓	✓	✓							2KJ4505 - ■■■■■ - ■■ A2
71.82	20	420	6 640	6.9	0.30	6536/91	✓	✓	✓	✓	✓	✓							2KJ4505 - ■■■■■ - ■■ X1
63.59	23	420	6 250	6.9	0.37	3116/49	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ W1
52.93	27	420	5 680	7.0	0.50	741/14	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ V1
49.82	29	420	5 500	7.0	0.58	5928/119	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ U1
44.63	32	420	5 190	7.0	0.65	2812/63	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ T1
38.00	38	420	4 740	7.1	0.84	38/1	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ S1
32.57	45	420	4 340	7.1	1.11	228/7			✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ R1
28.05	52	420	3 970	7.2	1.43	589/21			✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ Q1
26.30	55	420	3 820	8.6	0.52	55040/2093	✓	✓	✓	✓	✓	✓							2KJ4505 - ■■■■■ - ■■ P1
23.28	62	420	3 540	8.7	0.65	26240/1127	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ N1
19.38	75	420	3 130	8.8	0.90	3120/161	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ M1
18.24	79	420	3 000	8.8	1.03	49920/2737	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ L1
16.34	89	420	2 780	9.0	1.21	23680/1449	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ K1
13.91	104	420	2 880	9.1	1.62	320/23	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ J1
11.93	122	420	3 000	9.3	2.20	1920/161			✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ H1
10.27	141	415	3 080	9.5	2.90	4960/483			✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ G1
9.75	149	275	2 960	14.2	1.03	39/4	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ F1
9.18	158	270	2 980	14.2	1.19	156/17	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ E1
8.22	176	255	3 010	14.5	1.40	74/9	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ D1
7.00	207	240	3 030	14.8	1.88	7/1	✓	✓	✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ C1
6.00	242	225	3 020	15.2	2.50	6/1			✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ B1
5.17	280	210	2 990	15.4	3.30	31/6			✓	✓	✓	✓	✓						2KJ4505 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	$\varphi^{1)}$	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.69																			
196.59	7.4	600	10 800	6.4	0.17	14744/75	✓	✓	✓	✓									2KJ4507 - ■■■■■ - ■■ H2
178.72	8.1	600	10 800	6.4	0.20	29488/165	✓	✓	✓	✓									2KJ4507 - ■■■■■ - ■■ G2
152.00	9.5	600	10 800	6.4	0.25	152/1	✓	✓	✓	✓									2KJ4507 - ■■■■■ - ■■ F2
138.18	10	600	10 800	6.4	0.30	1520/11	✓	✓	✓	✓									2KJ4507 - ■■■■■ - ■■ E2
123.29	12	600	10 800	6.4	0.35	5548/45	✓	✓	✓	✓	✓	✓							2KJ4507 - ■■■■■ - ■■ D2
110.55	13	600	10 800	6.4	0.42	1216/11	✓	✓	✓	✓	✓	✓							2KJ4507 - ■■■■■ - ■■ C2
99.64	15	600	10 800	6.4	0.49	4484/45	✓	✓	✓	✓	✓	✓							2KJ4507 - ■■■■■ - ■■ B2
91.98	16	600	10 600	6.4	0.58	17936/195	✓	✓	✓	✓	✓	✓							2KJ4507 - ■■■■■ - ■■ A2
83.96	17	600	10 100	6.4	0.69	8816/105	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ X1
69.67	21	600	9 300	6.5	0.87	209/3	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ W1
65.57	22	600	9 030	6.5	1.01	3344/51	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ V1
61.93	23	600	8 770	6.5	1.15	1672/27	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ U1
52.69	28	600	8 090	6.5	1.40	3952/75	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ T1
45.14	32	600	7 470	6.5	1.70	7448/165			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ S1
39.69	37	600	6 980	6.5	2.10	1786/45			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ R1
33.48	43	580	6 500	6.5	2.60	11552/345			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ Q1
29.18	50	555	6 200	6.5	3.50	3648/125			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ P1
26.05	56	600	5 500	7.8	1.25	3751/144	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ N1
24.52	59	595	5 340	7.8	1.44	3751/153	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ M1
23.15	63	585	5 230	7.8	1.63	3751/162	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ L1
19.70	74	555	4 950	8.0	2.10	4433/225	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ K1
16.88	86	530	4 680	8.0	2.60	1519/90			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ J1
14.84	98	515	4 430	8.0	3.30	16027/1080			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ H1
12.52	116	490	4 170	8.0	4.30	12958/1035			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ G1
10.91	133	470	3 960	8.0	5.70	1364/125			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ F1
9.34	155	370	3 640	13.0	2.40	3224/345	✓	✓	✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ E1
8.01	181	365	3 330	13.0	3.10	6076/759			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ D1
7.04	206	365	3 210	13.0	3.90	1457/207			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ C1
5.94	244	345	3 350	13.0	5.10	9424/1587			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ B1
5.18	280	330	3 420	13.0	6.80	2976/575			✓	✓	✓	✓	✓						2KJ4507 - ■■■■■ - ■■ A1

1) Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.79																			
244.25	5.9	820	13 900	5.7	0.17	175861/720	✓	✓	✓	✓									**2KJ4508 - ■■■■■ - ■■ J2**
222.05	6.5	820	13 900	5.7	0.20	175861/792	✓	✓	✓	✓									**2KJ4508 - ■■■■■ - ■■ H2**
188.85	7.7	820	13 900	5.7	0.25	9065/48	✓	✓	✓	✓									**2KJ4508 - ■■■■■ - ■■ G2**
171.69	8.4	820	13 900	5.7	0.31	45325/264	✓	✓	✓	✓									**2KJ4508 - ■■■■■ - ■■ F2**
153.18	9.5	820	13 900	5.8	0.35	132349/864	✓	✓	✓	✓	✓	✓							**2KJ4508 - ■■■■■ - ■■ E2**
137.35	11	820	13 900	5.8	0.42	9065/66	✓	✓	✓	✓	✓	✓							**2KJ4508 - ■■■■■ - ■■ D2**
123.80	12	820	13 900	5.8	0.50	106967/864	✓	✓	✓	✓	✓	✓							**2KJ4508 - ■■■■■ - ■■ C2**
114.28	13	820	13 900	5.8	0.59	106967/936	✓	✓	✓	✓	✓	✓							**2KJ4508 - ■■■■■ - ■■ B2**
104.32	14	820	13 900	5.8	0.70	7511/72	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ A2**
86.56	17	820	13 900	5.8	0.89	99715/1152	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ X1**
81.47	18	820	13 900	5.8	1.02	99715/1224	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ W1**
76.94	19	820	13 900	5.8	1.16	99715/1296	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ V1**
65.47	22	820	13 900	5.9	1.42	23569/360	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ U1**
56.08	26	820	13 900	5.9	1.73	88837/1584			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ T1**
49.31	29	820	13 900	5.9	2.10	85211/1728			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ S1**
41.60	35	800	14 000	6.0	2.70	34447/828			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ R1**
36.26	40	770	14 000	6.1	3.60	1813/50			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ Q1**
32.78	44	820	13 900	7.2	0.94	6293/192	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ P1**
27.20	53	800	14 000	7.3	1.23	83545/3072	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ N1**
25.60	57	785	14 000	7.3	1.41	83545/3264	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ M1**
24.17	60	770	14 000	7.3	1.60	83545/3456	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ L1**
20.57	70	740	14 100	7.4	2.00	19747/960	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ K1**
17.62	82	715	13 800	7.5	2.60	74431/4224			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ J1**
15.49	94	695	13 300	7.6	3.20	71393/4608			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ H1**
13.07	111	665	12 600	7.8	4.20	28861/2208			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ G1**
11.39	127	645	12 000	8.3	5.50	4557/400			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ F1**
10.51	138	445	12 600	10.4	2.30	1209/115	✓	✓	✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ E1**
9.01	161	450	11 900	10.6	3.00	4557/506			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ D1**
7.92	183	450	11 300	10.8	3.70	1457/184			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ C1**
6.68	217	455	10 900	11.1	4.90	3534/529			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ B1**
5.82	249	430	10 700	12.1	6.60	3348/575			✓	✓	✓	✓	✓						**2KJ4508 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.89																			
231.80	6.3	1 600	18 100	5.6	0.42	10199/44		✓	✓	✓									**2KJ4510 - ■■■■■ - ■■ K2**
210.72	6.9	1 600	18 100	5.6	0.51	50995/242		✓	✓	✓									**2KJ4510 - ■■■■■ - ■■ J2**
189.01	7.7	1 600	18 100	5.6	0.71	149695/792		✓	✓	✓	✓	✓							**2KJ4510 - ■■■■■ - ■■ H2**
169.94	8.5	1 600	18 100	5.6	0.80	41125/242		✓	✓	✓	✓	✓							**2KJ4510 - ■■■■■ - ■■ G2**
153.70	9.4	1 600	18 100	5.6	0.88	60865/396		✓	✓	✓	✓	✓							**2KJ4510 - ■■■■■ - ■■ F2**
141.88	10	1 600	18 100	5.6	1.05	60865/429		✓	✓	✓	✓	✓							**2KJ4510 - ■■■■■ - ■■ E2**
129.96	11	1 600	18 100	5.6	1.37	17155/132		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ D2**
109.04	13	1 600	18 100	5.6	1.45	57575/528		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ C2**
102.63	14	1 600	18 100	5.6	1.66	57575/561		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ B2**
94.16	15	1 600	18 100	5.6	1.81	27965/297		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ A2**
82.25	18	1 600	18 100	5.6	2.60	329/4		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ X1**
73.64	20	1 600	18 100	5.6	3.20	106925/1452			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ W1**
64.39	23	1 600	18 100	5.6	3.70	50995/792			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ V1**
55.27	26	1 600	18 100	5.6	4.10	27965/506			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ U1**
48.85	30	1 600	18 100	5.6	5.20	16121/330			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ T1**
41.54	35	1 570	18 100	5.6	6.60	8225/198					✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ S1**
39.29	37	1 600	18 100	7.0	1.86	11315/288		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ R1**
32.96	44	1 600	18 100	7.0	2.10	37975/1152		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ Q1**
31.03	47	1 600	18 100	7.0	2.40	37975/1224		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ P1**
28.46	51	1 600	18 100	7.0	2.70	18445/648		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ N1**
24.86	58	1 600	18 100	7.1	3.80	2387/96		✓	✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ M1**
22.26	65	1 600	18 100	7.1	4.70	70525/3168			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ L1**
19.46	75	1 560	17 900	7.1	5.70	33635/1728			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ K1**
16.71	87	1 480	17 200	7.1	6.80	18445/1104			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ J1**
14.77	98	1 420	16 600	7.1	8.60	10633/720			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ H1**
12.56	115	1 330	16 300	7.1	11.00	5425/432					✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ G1**
10.76	135	1 250	16 100	7.1	15.00	775/72					✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ F1**
10.51	138	845	16 100	10.8	6.40	6727/640			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ E1**
9.02	161	800	15 400	10.8	7.70	33201/3680			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ D1**
7.97	182	770	14 800	10.8	9.80	31899/4000			✓	✓	✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ C1**
6.78	214	720	14 500	10.8	13.00	217/32					✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ B1**
5.81	250	675	14 200	10.8	17.00	93/16					✓	✓	✓	✓					**2KJ4510 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size											Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.109																			
216.65	6.7	2 900	24 500	5.6	1.27	107242/495			✓	✓	✓	✓							2KJ4511 - ■■■■■ - ■■ H2
195.60	7.4	2 900	24 500	5.6	1.37	118336/605			✓	✓	✓	✓							2KJ4511 - ■■■■■ - ■■ G2
177.43	8.2	2 900	24 500	5.6	1.61	35131/198			✓	✓	✓	✓							2KJ4511 - ■■■■■ - ■■ F2
163.78	8.9	2 900	24 500	5.6	1.9	70262/429			✓	✓	✓	✓							2KJ4511 - ■■■■■ - ■■ E2
148.88	9.7	2 900	24 500	5.6	2.2	57319/385			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ D2
126.07	12	2 900	24 500	5.6	2.6	5547/44			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ C2
118.65	12	2 900	24 500	5.6	2.6	22188/187			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ B2
109.57	13	2 900	24 500	5.6	4.1	14792/135			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ A2
97.49	15	2 900	24 500	5.6	5.0	53621/550			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ X1
86.59	17	2 900	24 500	5.7	6.0	31433/363			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ W1
77.51	19	2 900	24 500	5.7	5.9	153467/1980			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ V1
66.26	22	2 900	24 500	5.7	6.8	251464/3795			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ U1
59.17	25	2 900	24 500	5.8	8.6	7396/125			✓	✓	✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ T1
52.29	28	2 900	24 500	5.8	9.7	25886/495					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ S1
45.89	32	2 900	24 500	5.8	14	159014/3465					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ R1
39.95	36	2 820	23 900	5.8	17	151618/3795					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ Q1
34.15	42	2 710	22 700	5.8	21	118336/3465					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ P1
29.23	50	2 620	21 500	5.8	27	7396/253					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ N1
24.98	58	2 380	21 000	6.9	9.9	163744/6555			✓	✓	✓	✓	✓	✓					2KJ4511 - ■■■■■ - ■■ M1
22.31	65	2 380	20 000	7.1	13	52976/2375			✓	✓	✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ L1
19.71	74	2 380	18 900	7.1	15	16856/855					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ K1
17.30	84	2 400	17 800	7.1	20	14792/855					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ J1
15.06	96	2 310	17 500	7.1	25	98728/6555					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ H1
12.87	113	2 200	17 500	7.1	33	11008/855					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ G1
11.02	132	2 100	17 400	7.2	43	4816/437					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ F1
10.45	139	1 260	17 600	10.8	17	784/75					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ E1
9.17	158	1 270	16 700	10.8	23	688/75					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ D1
7.99	181	1 280	16 300	10.8	29	4592/575					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ C1
6.83	212	1 300	16 000	10.8	38	512/75					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ B1
5.84	248	1 300	15 700	11.0	49	672/115					✓	✓	✓	✓	✓				2KJ4511 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.129																			
228.30	6.4	4 400	37 600	6.3	3.3	30821/135				✓	✓	✓							2KJ4512 - ■■■■■ - ■■ J2
210.74	6.9	4 400	37 600	6.3	3.9	123284/585				✓	✓	✓							2KJ4512 - ■■■■■ - ■■ H2
194.04	7.5	4 400	37 600	6.3	4.5	8732/45				✓	✓	✓	✓	✓					2KJ4512 - ■■■■■ - ■■ G2
165.47	8.8	4 400	37 600	6.3	5.6	5957/36				✓	✓	✓	✓	✓					2KJ4512 - ■■■■■ - ■■ F2
155.74	9.3	4 400	37 600	6.3	6.4	23828/153				✓	✓	✓	✓	✓					2KJ4512 - ■■■■■ - ■■ E2
144.53	10	4 400	37 600	6.3	7.0	58534/405				✓	✓	✓	✓	✓					2KJ4512 - ■■■■■ - ■■ D2
127.77	11	4 400	37 600	6.3	8.4	9583/75				✓	✓	✓	✓	✓					2KJ4512 - ■■■■■ - ■■ C2
114.06	13	4 400	37 600	6.3	10	56462/495				✓	✓	✓	✓	✓					2KJ4512 - ■■■■■ - ■■ B2
102.64	14	4 400	37 600	6.3	12	27713/270				✓	✓	✓	✓	✓					2KJ4512 - ■■■■■ - ■■ A2
89.09	16	4 400	37 600	6.3	14	92204/1035				✓	✓	✓	✓	✓					2KJ4512 - ■■■■■ - ■■ X1
80.12	18	4 400	37 600	6.3	17	30044/375				✓	✓	✓	✓	✓	✓				2KJ4512 - ■■■■■ - ■■ W1
70.03	21	4 400	37 600	6.3	19	18907/270					✓	✓	✓	✓	✓	✓			2KJ4512 - ■■■■■ - ■■ V1
62.49	23	4 400	36 200	6.4	23	2812/45					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ U1
55.05	26	4 400	34 300	6.4	27	11396/207					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ T1
48.24	30	4 400	32 400	6.4	33	6512/135					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ S1
42.04	34	4 400	30 500	6.4	39	14504/345					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ R1
38.37	38	4 400	29 200	6.9	45	1036/27					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ Q1
33.03	44	4 400	27 300	7.0	55	11396/345							✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ P1
31.55	46	4 400	26 700	7.0	23	3944/125				✓	✓	✓	✓	✓	✓				2KJ4512 - ■■■■■ - ■■ N1
27.58	53	4 400	25 000	7.0	27	1241/45					✓	✓	✓	✓	✓	✓			2KJ4512 - ■■■■■ - ■■ M1
24.61	59	4 400	23 700	7.1	33	2584/105					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ L1
21.68	67	4 270	22 700	7.1	40	1496/69					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ K1
19.00	76	4 140	21 700	7.1	50	5984/315					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ J1
16.56	88	4 020	20 600	7.2	62	1904/115					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ H1
15.11	96	3 940	20 000	7.2	72	136/9					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ G1
13.01	111	3 810	19 000	7.2	91	1496/115							✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ F1
11.80	123	2 830	21 400	9.5	46	119680/10143					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ E1
10.34	140	2 850	20 100	9.6	57	95744/9261					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ D1
9.01	161	2 760	19 500	9.7	71	4352/483					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ C1
8.22	176	2 680	19 500	9.8	83	10880/1323					✓	✓	✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ B1
7.08	205	2 530	19 500	9.9	107	23936/3381							✓	✓	✓	✓	✓		2KJ4512 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size											Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.149																			
237.03	6.1	8 000	65 000	5.3	7.1	83433/352				✓	✓	✓	✓	✓					**2KJ4513 - ■■■■■ - ■■ J2**
202.86	7.1	8 000	65 000	5.3	9.0	285621/1408				✓	✓	✓	✓	✓					**2KJ4513 - ■■■■■ - ■■ H2**
190.92	7.6	8 000	65 000	5.3	10	285621/1496				✓	✓	✓	✓	✓					**2KJ4513 - ■■■■■ - ■■ G2**
178.97	8.1	8 000	65 000	5.3	11	188993/1056				✓	✓	✓	✓	✓					**2KJ4513 - ■■■■■ - ■■ F2**
158.65	9.1	8 000	65 000	5.3	14	558453/3520				✓	✓	✓	✓	✓					**2KJ4513 - ■■■■■ - ■■ E2**
140.93	10	8 000	64 100	5.3	16	17052/121				✓	✓	✓	✓	✓					**2KJ4513 - ■■■■■ - ■■ D2**
127.16	11	8 000	61 400	5.3	19	89523/704				✓	✓	✓	✓	✓					**2KJ4513 - ■■■■■ - ■■ C2**
112.68	13	8 000	58 400	5.3	23	456141/4048				✓	✓	✓	✓	✓					**2KJ4513 - ■■■■■ - ■■ B2**
99.79	15	8 000	55 600	5.4	26	439089/4400				✓	✓	✓	✓	✓	✓				**2KJ4513 - ■■■■■ - ■■ A2**
88.81	16	8 000	52 900	5.4	31	1421/16					✓	✓	✓	✓	✓	✓			**2KJ4513 - ■■■■■ - ■■ X1**
79.59	18	8 000	50 400	5.4	37	14007/176					✓	✓	✓	✓	✓	✓	✓		**2KJ4513 - ■■■■■ - ■■ W1**
70.56	21	8 000	47 900	5.4	43	285621/4048					✓	✓	✓	✓	✓	✓	✓		**2KJ4513 - ■■■■■ - ■■ V1**
62.28	23	8 000	45 300	5.4	52	5481/88					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ U1**
54.76	26	8 000	42 700	5.4	63	55419/1012					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ T1**
49.60	29	8 000	40 800	5.4	70	8729/176					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ S1**
43.18	34	8 000	38 200	5.4	85	174783/4048							✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ R1**
35.40	41	7 850	35 100	5.5	110	80997/2288							✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ Q1**
32.33	45	7 760	33 900	6.1	49	12673/392					✓	✓	✓	✓	✓	✓	✓		**2KJ4513 - ■■■■■ - ■■ P1**
28.66	51	7 630	32 200	6.1	59	36917/1288					✓	✓	✓	✓	✓	✓	✓		**2KJ4513 - ■■■■■ - ■■ N1**
25.30	57	7 420	30 900	6.1	73	4959/196					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ M1**
22.25	65	7 210	29 500	6.2	89	7163/322					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ L1**
20.15	72	7 070	28 400	6.2	103	23693/1176					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ K1**
17.54	83	6 890	28 500	6.3	128	22591/1288							✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ J1**
14.38	101	6 660	29 000	6.3	174	10469/728							✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ H1**
14.15	102	4 140	31 100	8.0	79	17328/1225					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ G1**
12.44	117	4 030	29 800	8.0	97	150176/12075					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ F1**
11.26	129	3 950	28 800	8.1	113	124184/11025					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ E1**
9.81	148	3 850	28 400	8.2	141	118408/12075							✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ D1**
8.04	180	3 720	28 000	8.3	194	54872/6825							✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ C1**
6.82	213	3 630	27 500	8.4	266	89528/13125							✓	✓	✓	✓	✓	✓	**2KJ4513 - ■■■■■ - ■■ B1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.169																			
223.30	6.5	13 000	70 000	5.2	18	273319/1224					✓	✓	✓	✓					**2KJ4514 - ■■■■■ - ■■ F2**
208.35	7.0	13 000	70 000	5.2	20	135013/648					✓	✓	✓	✓					**2KJ4514 - ■■■■■ - ■■ E2**
185.23	7.8	13 000	70 000	5.2	24	29637/160					✓	✓	✓	✓					**2KJ4514 - ■■■■■ - ■■ D2**
166.31	8.7	13 000	70 000	5.2	28	16465/99					✓	✓	✓	✓					**2KJ4514 - ■■■■■ - ■■ C2**
150.55	9.6	13 000	70 000	5.2	33	260147/1728					✓	✓	✓	✓					**2KJ4514 - ■■■■■ - ■■ B2**
132.24	11	13 000	70 000	5.2	40	437969/3312					✓	✓	✓	✓					**2KJ4514 - ■■■■■ - ■■ A2**
119.83	12	13 000	70 000	5.2	47	431383/3600					✓	✓	✓	✓	✓				**2KJ4514 - ■■■■■ - ■■ X1**
106.72	14	13 000	70 000	5.2	54	23051/216					✓	✓	✓	✓	✓	✓			**2KJ4514 - ■■■■■ - ■■ W1**
95.83	15	13 000	70 000	5.2	65	36223/378					✓	✓	✓	✓	✓	✓	✓		**2KJ4514 - ■■■■■ - ■■ V1**
85.51	17	13 000	70 000	5.2	75	141599/1656					✓	✓	✓	✓	✓	✓	✓		**2KJ4514 - ■■■■■ - ■■ U1**
76.23	19	13 000	70 000	5.2	88	16465/216					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ T1**
67.61	21	13 000	66 900	5.3	103	55981/828					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ S1**
62.07	23	13 000	64 500	5.3	114	62567/1008					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ R1**
54.68	27	13 000	60 900	5.3	134	181115/3312							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ Q1**
44.86	32	13 000	55 700	5.3	180	55981/1248							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ P1**
39.33	37	13 000	52 300	5.3	198	141599/3600							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ N1**
30.75	47	13 000	46 500	5.4	309	42809/1392							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ M1**
29.43	49	13 000	45 500	5.8	133	25721/874					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ L1**
27.02	54	13 000	43 500	5.9	151	1513/56					✓	✓	✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ K1**
23.80	61	13 000	40 800	5.9	181	83215/3496							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ J1**
19.53	74	12 700	40 000	6.0	249	77163/3952							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ H1**
17.12	85	12 400	40 800	6.0	288	65059/3800							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ G1**
13.39	108	11 900	41 300	6.2	457	59007/4408							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ F1**
12.20	119	6 760	38 700	8.1	202	143990/11799							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ E1**
10.01	145	6 530	37 800	8.3	280	22253/2223							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ D1**
8.78	165	6 360	37 800	8.3	328	112574/12825							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ C1**
6.86	211	6 130	37 300	8.8	523	34034/4959							✓	✓	✓	✓	✓	✓	**2KJ4514 - ■■■■■ - ■■ B1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size											Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
K.189																			
199.51	7.3	19 100	104 000	4.8	37	186543/935						✓	✓	✓					**2KJ4515 - ■■■■■ - ■■ W1**
178.49	8.1	19 500	104 000	4.8	43	367164/2057						✓	✓	✓					**2KJ4515 - ■■■■■ - ■■ V1**
160.98	9	19 500	104 000	4.8	50	60207/374						✓	✓	✓					**2KJ4515 - ■■■■■ - ■■ U1**
142.28	10	19 500	104 000	4.8	62	611940/4301						✓	✓	✓					**2KJ4515 - ■■■■■ - ■■ T1**
130.05	11	19 500	104 000	4.8	73	55272/425						✓	✓	✓	✓				**2KJ4515 - ■■■■■ - ■■ S1**
117.00	12	19 500	104 000	4.8	86	43757/374						✓	✓	✓	✓	✓			**2KJ4515 - ■■■■■ - ■■ R1**
104.56	14	19 500	104 000	4.8	100	19552/187						✓	✓	✓	✓	✓	✓		**2KJ4515 - ■■■■■ - ■■ Q1**
94.55	15	19 500	104 000	4.8	119	406644/4301						✓	✓	✓	✓	✓	✓		**2KJ4515 - ■■■■■ - ■■ P1**
83.44	17	19 500	104 000	4.8	140	15604/187						✓	✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ N1**
74.35	20	19 500	104 000	4.8	164	319788/4301						✓	✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ M1**
67.36	22	19 500	104 000	4.8	182	12596/187						✓	✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ L1**
60.58	24	19 500	104 000	4.8	220	23688/391							✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ K1**
50.34	29	19 500	104 000	4.8	273	122388/2431							✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ J1**
44.76	32	19 500	99 100	4.8	334	209244/4675							✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ H1**
35.67	41	19 500	89 900	4.9	455	193452/5423							✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ G1**
28.39	51	19 500	81 300	5.0	586	153972/5423									✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ F1**
25.37	57	19 500	77 300	5.3	335	11088/437							✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ E1**
21.09	69	19 500	70 900	5.4	439	5208/247							✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ D1**
18.75	77	19 500	67 000	5.4	545	8904/475							✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ C1**
14.94	97	19 500	60 000	5.6	786	8232/551							✓	✓	✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ B1**
11.89	122	19 500	61 300	5.7	1 109	6552/551									✓	✓	✓	✓	**2KJ4515 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.39-D19															
6 699	0.22	220	6 080	-	0.11	167640192/25025	✓	✓							**2KJ4521 - ■■■■■ - ■■ H1**
5 949	0.24	220	6 080	-	0.13	13533453/2275	✓	✓							**2KJ4521 - ■■■■■ - ■■ G1**
5 491	0.26	220	6 080	-	0.16	162401436/29575	✓	✓							**2KJ4521 - ■■■■■ - ■■ F1**
4 770	0.30	220	6 080	-	0.17	75961962/15925	✓	✓							**2KJ4521 - ■■■■■ - ■■ E1**
4 145	0.35	220	6 080	-	0.18	47148804/11375	✓	✓							**2KJ4521 - ■■■■■ - ■■ D1**
3 742	0.39	220	6 080	-	0.22	1309689/350	✓	✓							**2KJ4521 - ■■■■■ - ■■ C1**
3 522	0.41	220	6 080	-	0.26	10477512/2975	✓	✓							**2KJ4521 - ■■■■■ - ■■ B1**
3 070	0.47	220	6 080	-	0.29	6985008/2275	✓	✓							**2KJ4521 - ■■■■■ - ■■ A1**
K.39-Z19															
3 001	0.48	220	6 080	-	0.02	975384/325	✓	✓							**2KJ4520 - ■■■■■ - ■■ E2**
2 657	0.55	220	6 080	-	0.03	4318434/1625	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ D2**
2 309	0.63	220	6 080	-	0.04	3752082/1625	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ C2**
2 099	0.69	220	6 080	-	0.05	7504164/3575	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ B2**
1 786	0.81	220	6 080	-	0.07	2902554/162	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ A2**
1 624	0.89	220	6 080	-	0.08	5805108/3575	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ X1**
1 416	1.0	220	6 080	-	0.09	35397/25	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ W1**
1 267	1.1	220	6 080	-	0.12	4530816/3575	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ V1**
1 125	1.3	220	6 080	-	0.15	365769/325	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ U1**
1 039	1.4	220	6 080	-	0.18	4389228/4225	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ T1**
902	1.6	220	6 080	-	0.20	2053026/2275	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ S1**
784	1.8	220	6 080	-	0.21	1274292/1625	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ R1**
708	2.0	220	6 080	-	0.27	35397/50	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ Q1**
666	2.2	220	6 080	-	0.32	283176/425	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ P1**
581	2.5	220	6 080	-	0.36	188784/325	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ N1**
536	2.7	220	6 080	-	0.19	243846/455	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ M1**
466	3.1	220	6 080	-	0.22	114057/245	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ L1**
405	3.6	220	6 080	-	0.23	70794/175	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ K1**
365	4.0	220	6 080	-	0.29	51129/140	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ J1**
343.72	4.2	220	6 080	-	0.35	204516/595	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ H1**
329.29	4.4	220	6 080	-	0.32	699732/2125	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ G1**
287.07	5.1	220	6 080	-	0.37	466488/1625	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ F1**
264.86	5.5	220	6 080	-	0.19	602547/2275	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ E1**
230.07	6.3	220	6 080	-	0.22	563673/2450	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ D1**
199.92	7.3	220	6 080	-	0.23	174933/875	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ C1**
180.49	8.0	220	6 080	-	0.30	252681/1400	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ B1**
169.87	8.5	220	6 080	-	0.35	505362/2975	✓	✓	✓						**2KJ4520 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.49-D19															
9 641	0.15	420	7 820	-	0.08	67488/7	✓	✓							**2KJ4523 - ■■■■■ - ■■ J1**
8 630	0.17	420	7 820	-	0.11	8638464/1001	✓	✓							**2KJ4523 - ■■■■■ - ■■ H1**
7 663	0.19	420	7 820	-	0.13	697376/91	✓	✓							**2KJ4523 - ■■■■■ - ■■ G1**
7 074	0.20	420	7 820	-	0.16	8368512/1183	✓	✓							**2KJ4523 - ■■■■■ - ■■ F1**
6 145	0.24	420	7 820	-	0.17	3914304/637	✓	✓							**2KJ4523 - ■■■■■ - ■■ E1**
5 340	0.27	420	7 820	-	0.18	2429568/455	✓	✓							**2KJ4523 - ■■■■■ - ■■ D1**
4 821	0.30	420	7 820	-	0.22	33744/7	✓	✓							**2KJ4523 - ■■■■■ - ■■ C1**
4 537	0.32	420	7 820	-	0.26	539904/119	✓	✓							**2KJ4523 - ■■■■■ - ■■ B1**
3 955	0.37	420	7 820	-	0.29	359936/91	✓	✓							**2KJ4523 - ■■■■■ - ■■ A1**
K.49-Z19															
3 866	0.38	420	7 820	-	0.02	150784/39	✓	✓							**2KJ4522 - ■■■■■ - ■■ G2**
3 424	0.42	420	7 820	-	0.03	222528/65	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ F2**
2 975	0.49	420	7 820	-	0.04	193344/65	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ E2**
2 704	0.54	420	7 820	-	0.05	386688/143	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ D2**
2 301	0.63	420	7 820	-	0.07	149568/65	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ C2**
2 092	0.69	420	7 820	-	0.08	299136/143	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ B2**
1 824	0.79	420	7 820	-	0.09	1824/1	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ A2**
1 633	0.89	420	7 820	-	0.12	233472/143	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ W1**
1 450	1.0	420	7 820	-	0.15	18848/13	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ V1**
1 338	1.1	420	7 820	-	0.18	226176/169	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ U1**
1 163	1.2	420	7 820	-	0.20	105792/91	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ T1**
1 010	1.4	420	7 820	-	0.21	65664/65	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ S1**
912	1.6	420	7 820	-	0.27	912/1	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ R1**
858	1.7	420	7 820	-	0.32	14592/17	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ Q1**
748	1.9	420	7 820	-	0.36	9728/13	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ P1**
690	2.1	420	7 820	-	0.19	188480/273	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ N1**
600	2.4	420	7 820	-	0.22	88160/147	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ M1**
521	2.8	420	7 820	-	0.23	3648/7	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ L1**
470	3.1	420	7 820	-	0.30	9880/21	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ K1**
443	3.3	420	7 820	-	0.35	158080/357	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ J1**
437	3.3	420	7 820	-	0.27	24453/56	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ H1**
411	3.5	420	7 820	-	0.32	48906/119	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ G1**
358	4.1	420	7 820	-	0.37	2508/7	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ F1**
330.56	4.4	420	7 820	-	0.20	32395/98	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ E1**
287.15	5.0	420	7 820	-	0.23	393965/1372	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ D1**
249.52	5.8	420	7 820	-	0.24	24453/98	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ C1**
225.26	6.4	420	7 820	-	0.31	176605/784	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ B1**
212.01	6.8	420	7 820	-	0.37	176605/833	✓	✓	✓						**2KJ4522 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.69-D19															
9 641	0.15	600	10 800	-	0.08	67488/7	✓	✓							2KJ4525 - ■■■■■ - ■■ J1
8 630	0.17	600	10 800	-	0.11	8638464/1001	✓	✓							2KJ4525 - ■■■■■ - ■■ H1
7 663	0.19	600	10 800	-	0.13	697376/91	✓	✓							2KJ4525 - ■■■■■ - ■■ G1
7 074	0.20	600	10 800	-	0.16	8368512/1183	✓	✓							2KJ4525 - ■■■■■ - ■■ F1
6 145	0.24	600	10 800	-	0.17	3914304/637	✓	✓							2KJ4525 - ■■■■■ - ■■ E1
5 340	0.27	600	10 800	-	0.18	2429568/455	✓	✓							2KJ4525 - ■■■■■ - ■■ D1
4 821	0.30	600	10 800	-	0.22	33744/7	✓	✓							2KJ4525 - ■■■■■ - ■■ C1
4 537	0.32	600	10 800	-	0.26	539904/119	✓	✓							2KJ4525 - ■■■■■ - ■■ B1
3 955	0.37	600	10 800	-	0.29	359936/91	✓	✓							2KJ4525 - ■■■■■ - ■■ A1
K.69-Z19															
3 866	0.38	600	10 800	-	0.02	150784/39	✓	✓							2KJ4524 - ■■■■■ - ■■ F2
3 424	0.42	600	10 800	-	0.03	222528/65	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ E2
2 975	0.49	600	10 800	-	0.04	193344/65	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ D2
2 704	0.54	600	10 800	-	0.05	386688/143	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ C2
2 301	0.63	600	10 800	-	0.07	149568/65	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ B2
2 092	0.69	600	10 800	-	0.08	299136/143	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ A2
1 824	0.79	600	10 800	-	0.10	1824/1	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ W1
1 633	0.89	600	10 800	-	0.13	233472/143	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ V1
1 450	1.0	600	10 800	-	0.15	18848/13	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ U1
1 338	1.1	600	10 800	-	0.18	226176/169	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ T1
1 163	1.2	600	10 800	-	0.21	105792/91	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ S1
1 010	1.4	600	10 800	-	0.21	65664/65	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ R1
912	1.6	600	10 800	-	0.27	912/1	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ Q1
858	1.7	600	10 800	-	0.32	14592/17	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ P1
748	1.9	600	10 800	-	0.37	9728/13	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ N1
690	2.1	600	10 800	-	0.20	188480/273	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ M1
600	2.4	600	10 800	-	0.23	88160/147	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ L1
521	2.8	600	10 800	-	0.24	3648/7	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ K1
470	3.1	600	10 800	-	0.31	9880/21	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ J1
443	3.3	600	10 800	-	0.37	158080/357	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ H1
419	3.5	600	10 800	-	0.38	147136/351	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ G1
387	3.7	600	10 800	-	0.22	2850760/7371	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ F1
335.96	4.3	600	10 800	-	0.25	1333420/3969	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ E1
291.94	5.0	600	10 800	-	0.27	18392/63	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ D1
263.55	5.5	600	10 800	-	0.35	149435/567	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ C1
248.05	5.8	600	10 800	-	0.41	2390960/9639	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ B1
216.25	6.7	600	10 800	-	0.48	367840/1701	✓	✓	✓						2KJ4524 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.79-D19															
9 522	0.15	820	13 900	-	0.13	1485365/156	✓	✓							**2KJ4527 - ■■■■■ - ■■ G1**
8 789	0.16	820	13 900	-	0.16	1485365/169	✓	✓							**2KJ4527 - ■■■■■ - ■■ F1**
7 635	0.19	820	13 900	-	0.17	198505/26	✓	✓							**2KJ4527 - ■■■■■ - ■■ E1**
6 634	0.22	820	13 900	-	0.18	86247/13	✓	✓							**2KJ4527 - ■■■■■ - ■■ D1**
5 989	0.24	820	13 900	-	0.22	47915/8	✓	✓							**2KJ4527 - ■■■■■ - ■■ C1**
5 637	0.26	820	13 900	-	0.26	95830/17	✓	✓							**2KJ4527 - ■■■■■ - ■■ B1**
4 914	0.30	820	13 900	-	0.29	191660/39	✓	✓							**2KJ4527 - ■■■■■ - ■■ A1**
K.79-Z19															
4 804	0.30	820	13 900	-	0.02	562030/117	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ F2**
4 254	0.34	820	13 900	-	0.03	110593/26	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ E2**
3 696	0.39	820	13 900	-	0.04	96089/26	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ D2**
3 360	0.43	820	13 900	-	0.05	480445/143	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ C2**
2 859	0.51	820	13 900	-	0.07	74333/26	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ B2**
2 599	0.56	820	13 900	-	0.08	371665/143	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ A2**
2 266	0.64	820	13 900	-	0.10	9065/4	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ W1**
2 029	0.71	820	13 900	-	0.13	290080/143	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ V1**
1 801	0.81	820	13 900	-	0.15	281015/156	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ U1**
1 663	0.87	820	13 900	-	0.18	281015/169	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ T1**
1 444	1.0	820	13 900	-	0.21	37555/26	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ S1**
1 255	1.2	820	13 900	-	0.21	16317/13	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ R1**
1 133	1.3	820	13 900	-	0.27	9065/8	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ Q1**
1 066	1.4	820	13 900	-	0.32	18130/17	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ P1**
930	1.6	820	13 900	-	0.37	36260/39	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ N1**
858	1.7	820	13 900	-	0.20	200725/234	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ M1**
745	1.9	820	13 900	-	0.23	26825/36	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ L1**
648	2.2	820	13 900	-	0.24	1295/2	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ K1**
585	2.5	820	13 900	-	0.31	84175/144	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ J1**
550	2.6	820	13 900	-	0.37	84175/153	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ H1**
521	2.8	820	13 900	-	0.38	1096865/2106	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ G1**
481	3.0	820	13 900	-	0.22	24287725/50544	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ F1**
417	3.5	820	13 900	-	0.25	3245825/7776	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ E1**
363	4.0	820	13 900	-	0.27	156695/432	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ D1**
327.46	4.4	820	13 900	-	0.35	10185175/31104	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ C1**
308.19	4.7	820	13 900	-	0.41	10185175/33048	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ B1**
268.68	5.4	820	13 900	-	0.48	783475/2916	✓	✓	✓						**2KJ4526 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.89-D39															
9 761	0.15	1 600	18 100	-	0.17	1577036825/161568	✓	✓	✓	✓	✓	✓			**2KJ4530 - ■■■■■ - ■■ E1**
9 010	0.16	1 600	18 100	-	0.21	121310525/13464	✓	✓	✓	✓	✓	✓			**2KJ4530 - ■■■■■ - ■■ D1**
7 888	0.18	1 600	18 100	-	0.25	6436885/816	✓	✓	✓	✓	✓	✓			**2KJ4530 - ■■■■■ - ■■ C1**
6 916	0.21	1 600	18 100	-	0.23	279360809/40392	✓	✓	✓	✓	✓	✓			**2KJ4530 - ■■■■■ - ■■ B1**
6 275	0.23	1 600	18 100	-	0.33	225290975/35904	✓	✓	✓	✓	✓	✓			**2KJ4530 - ■■■■■ - ■■ A1**
K.89-Z39															
6 101	0.24	1 600	18 100	-	0.06	86972795/14256	✓	✓							**2KJ4528 - ■■■■■ - ■■ F2**
5 425	0.27	1 600	18 100	-	0.07	8592493/1584	✓	✓	✓	✓					**2KJ4528 - ■■■■■ - ■■ E2**
4 763	0.30	1 600	18 100	-	0.08	209573/44	✓	✓	✓	✓					**2KJ4528 - ■■■■■ - ■■ D2**
4 330	0.33	1 600	18 100	-	0.10	1047865/242	✓	✓	✓	✓					**2KJ4528 - ■■■■■ - ■■ C2**
3 705	0.39	1 600	18 100	-	0.12	1467011/396	✓	✓	✓	✓					**2KJ4528 - ■■■■■ - ■■ B2**
3 368	0.43	1 600	18 100	-	0.14	7335055/2178	✓	✓	✓	✓					**2KJ4528 - ■■■■■ - ■■ A2**
2 977	0.49	1 600	18 100	-	0.17	1047865/352	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ W1**
2 706	0.54	1 600	18 100	-	0.22	5239325/1936	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ V1**
2 370	0.61	1 600	18 100	-	0.26	45058195/19008	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ U1**
2 188	0.66	1 600	18 100	-	0.31	3466015/1584	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ T1**
1 937	0.75	1 600	18 100	-	0.36	6137495/3168	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ S1**
1 612	0.90	1 600	18 100	-	0.48	13622245/8448	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ R1**
1 518	0.96	1 600	18 100	-	0.56	13622245/8976	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ Q1**
1 360	1.1	1 600	18 100	-	0.61	38771005/28512	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ P1**
1 158	1.3	1 600	18 100	-	0.79	7335055/6336	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ N1**
992	1.5	1 600	18 100	-	1.04	1047865/1056			✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ M1**
854	1.7	1 600	18 100	-	1.32	32483815/38016			✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ L1**
705	2.1	1 600	18 100	-	0.61	45656975/64768	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ K1**
663	2.2	1 600	18 100	-	0.70	45656975/68816	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ J1**
594	2.4	1 600	18 100	-	0.79	129946775/218592	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ H1**
506	2.9	1 600	18 100	-	1.04	24584525/48576	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ G1**
476	3.0	1 600	18 100	-	0.65	84791525/178112	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ F1**
448	3.2	1 600	18 100	-	0.75	84791525/189244	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ E1**
401	3.6	1 600	18 100	-	0.85	241329725/601128	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ D1**
341.78	4.2	1 600	18 100	-	1.12	45656975/133584	✓	✓	✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ C1**
292.96	4.9	1 600	18 100	-	1.48	6522425/22264			✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ B1**
252.27	5.7	1 600	18 100	-	1.92	202195175/801504			✓	✓	✓	✓			**2KJ4528 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.109-D39															
13 352	0.11	2 900	24 500	-	0.12	57881096/4335	✓	✓	✓	✓	✓	✓			**2KJ4532 - ■■■■■ - ■■ G1**
11 918	0.12	2 900	24 500	-	0.15	2083719456/174845	✓	✓	✓	✓	✓	✓			**2KJ4532 - ■■■■■ - ■■ F1**
10 621	0.14	2 900	24 500	-	0.17	101291918/9537	✓	✓	✓	✓	✓	✓			**2KJ4532 - ■■■■■ - ■■ E1**
9 804	0.15	2 900	24 500	-	0.21	31166744/3179	✓	✓	✓	✓	✓	✓			**2KJ4532 - ■■■■■ - ■■ D1**
8 583	0.17	2 900	24 500	-	0.25	12403092/1445	✓	✓	✓	✓	✓	✓			**2KJ4532 - ■■■■■ - ■■ C1**
7 526	0.19	2 900	24 500	-	0.23	1794313976/238425	✓	✓	✓	✓	✓	✓			**2KJ4532 - ■■■■■ - ■■ B1**
6 828	0.21	2 900	24 500	-	0.33	21705411/3179	✓	✓	✓	✓	✓	✓			**2KJ4532 - ■■■■■ - ■■ A1**
K.109-Z39															
6 638	0.22	2 900	24 500	-	0.06	55861988/8415	✓	✓							**2KJ4531 - ■■■■■ - ■■ F2**
5 903	0.25	2 900	24 500	-	0.07	27594476/4675	✓	✓	✓	✓					**2KJ4531 - ■■■■■ - ■■ F2**
5 183	0.28	2 900	24 500	-	0.08	24229296/4675	✓	✓	✓	✓					**2KJ4531 - ■■■■■ - ■■ E2**
4 712	0.31	2 900	24 500	-	0.10	48458592/10285	✓	✓	✓	✓					**2KJ4531 - ■■■■■ - ■■ D2**
4 031	0.36	2 900	24 500	-	0.12	18845008/4675	✓	✓	✓	✓					**2KJ4531 - ■■■■■ - ■■ C2**
3 665	0.40	2 900	24 500	-	0.14	37690016/10285	✓	✓	✓	✓					**2KJ4531 - ■■■■■ - ■■ B2**
3 239	0.45	2 900	24 500	-	0.17	3028662/935	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ A2**
2 945	0.49	2 900	24 500	-	0.23	6057324/2057	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ W1**
2 579	0.56	2 900	24 500	-	0.26	7235137/2805	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ V1**
2 381	0.61	2 900	24 500	-	0.31	2226196/935	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ U1**
2 108	0.69	2 900	24 500	-	0.36	1971034/935	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ T1**
1 755	0.83	2 900	24 500	-	0.48	6562101/3740	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ S1**
1 651	0.88	2 900	24 500	-	0.57	26248404/15895	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ R1**
1 480	0.98	2 900	24 500	-	0.62	12451166/8415	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ Q1**
1 260	1.2	2 900	24 500	-	0.80	1177813/935	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ P1**
1 080	1.3	2 900	24 500	-	1.05	1009554/935			✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ N1**
930	1.6	2 900	24 500	-	1.34	5216029/5610			✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ M1**
767	1.9	2 900	24 500	-	0.63	13196313/17204	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ L1**
722	2.0	2 900	24 500	-	0.73	52785252/73117	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ K1**
647	2.2	2 900	24 500	-	0.83	8346386/12903	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ J1**
551	2.6	2 900	24 500	-	1.09	2368569/4301	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ H1**
519	2.8	2 900	24 500	-	1.40	88672493/170775			✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ G1**
428	3.4	2 900	24 500	-	0.73	24926369/58190	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ F1**
403	3.6	2 900	24 500	-	0.84	11730056/29095	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ E1**
361	4.0	2 900	24 500	-	0.97	283777124/785565	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ D1**
307.54	4.7	2 900	24 500	-	1.28	26843782/87285	✓	✓	✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ C1**
263.61	5.5	2 900	24 500	-	1.70	7669652/29095			✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ B1**
227	6.4	2 900	24 500	-	2.20	59439803/261855			✓	✓	✓	✓			**2KJ4531 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.129-D39															
14 490	0.10	4 400	40 000	-	0.09	2494142287/172125	✓	✓	✓	✓					**2KJ4534 - ■■■■■ - ■■ H1**
13 173	0.11	4 400	40 000	-	0.10	4988284574/378675	✓	✓	✓	✓					**2KJ4534 - ■■■■■ - ■■ G1**
11 550	0.13	4 400	40 000	-	0.12	1192850659/103275	✓	✓	✓	✓	✓	✓			**2KJ4534 - ■■■■■ - ■■ F1**
10 309	0.14	4 400	40 000	-	0.15	433763876/42075	✓	✓	✓	✓	✓	✓			**2KJ4534 - ■■■■■ - ■■ E1**
9 188	0.16	4 400	40 000	-	0.18	759086783/82620	✓	✓	✓	✓	✓	✓			**2KJ4534 - ■■■■■ - ■■ D1**
8 481	0.17	4 400	40 000	-	0.21	58391291/6885	✓	✓	✓	✓	✓	✓			**2KJ4534 - ■■■■■ - ■■ C1**
7 425	0.20	4 400	40 000	-	0.25	170407237/22950	✓	✓	✓	✓	✓	✓			**2KJ4534 - ■■■■■ - ■■ B1**
6 510	0.22	4 400	40 000	-	0.23	3361670039/516375	✓	✓	✓	✓	✓	✓			**2KJ4534 - ■■■■■ - ■■ A1**
K.129-Z39															
5 743	0.25	4 400	37 600	-	0.06	209316289/36450	✓	✓							**2KJ4533 - ■■■■■ - ■■ A2**
5 106	0.28	4 400	37 600	-	0.07	103397203/20250	✓	✓	✓	✓					**2KJ4533 - ■■■■■ - ■■ X1**
4 483	0.32	4 400	37 600	-	0.09	5043766/1125	✓	✓	✓	✓					**2KJ4533 - ■■■■■ - ■■ W1**
4 076	0.36	4 400	37 600	-	0.11	10087532/2475	✓	✓	✓	✓					**2KJ4533 - ■■■■■ - ■■ V1**
3 487	0.42	4 400	37 600	-	0.13	35306362/10125	✓	✓	✓	✓					**2KJ4533 - ■■■■■ - ■■ U1**
3 170	0.46	4 400	37 600	-	0.15	70612724/22275	✓	✓	✓	✓					**2KJ4533 - ■■■■■ - ■■ T1**
2 802	0.52	4 400	37 600	-	0.18	2521883/900	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ S1**
2 547	0.57	4 400	37 600	-	0.24	2521883/990	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ R1**
2 231	0.65	4 400	37 600	-	0.28	108440969/48600	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ Q1**
2 060	0.70	4 400	37 600	-	0.33	8341613/4050	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ P1**
1 824	0.79	4 400	37 600	-	0.39	14771029/8100	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ N1**
1 518	0.96	4 400	37 600	-	0.53	32784479/21600	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ M1**
1 429	1.0	4 400	37 600	-	0.61	32784479/22950	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ L1**
1 280	1.1	4 400	37 600	-	0.68	93309671/72900	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ K1**
1 090	1.3	4 400	37 600	-	0.88	17653181/16200	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ J1**
934	1.6	4 400	37 600	-	1.16	2521883/2700			✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ H1**
804	1.8	4 400	37 600	-	1.48	78178373/97200			✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ G1**
664	2.2	4 400	37 600	-	0.85	21976409/33120	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ F1**
625	2.3	4 400	37 600	-	0.98	21976409/35190	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ E1**
560	2.6	4 400	37 600	-	1.13	62548241/111780	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ D1**
476	3.0	4 400	37 600	-	1.51	11833451/24840	✓	✓	✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ C1**
408	3.6	4 400	37 600	-	2.00	1690493/4140			✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ B1**
352	4.1	4 400	37 600	-	2.60	52405283/149040			✓	✓	✓	✓			**2KJ4533 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.149-D49															
13 575	0.11	8 000	65 000	-	0.12	23891273/1760	✓	✓	✓	✓					**2KJ4536 - ■■■■■ - ■■ L1**
12 341	0.12	8 000	65 000	-	0.14	23891273/1936	✓	✓	✓	✓					**2KJ4536 - ■■■■■ - ■■ K1**
10 908	0.13	8 000	65 000	-	0.17	30717351/2816	✓	✓	✓	✓	✓	✓			**2KJ4536 - ■■■■■ - ■■ J1**
9 917	0.15	8 000	65 000	-	0.22	153586755/15488	✓	✓	✓	✓	✓	✓			**2KJ4536 - ■■■■■ - ■■ H1**
8 686	0.17	8 000	65 000	-	0.26	146760677/16896	✓	✓	✓	✓	✓	✓			**2KJ4536 - ■■■■■ - ■■ G1**
8 018	0.18	8 000	65 000	-	0.31	146760677/18304	✓	✓	✓	✓	✓	✓			**2KJ4536 - ■■■■■ - ■■ F1**
7 099	0.20	8 000	65 000	-	0.37	19990657/2816	✓	✓	✓	✓	✓	✓	✓		**2KJ4536 - ■■■■■ - ■■ E1**
5 909	0.25	8 000	65 000	-	0.50	133108521/22528	✓	✓	✓	✓	✓	✓	✓		**2KJ4536 - ■■■■■ - ■■ D1**
5 561	0.26	8 000	65 000	-	0.59	7829913/1408	✓	✓	✓	✓	✓	✓	✓		**2KJ4536 - ■■■■■ - ■■ C1**
4 983	0.29	8 000	65 000	-	0.66	126282443/25344	✓	✓	✓	✓	✓	✓	✓		**2KJ4536 - ■■■■■ - ■■ B1**
4 242	0.34	8 000	65 000	-	0.86	23891273/5632	✓	✓	✓	✓	✓	✓	✓		**2KJ4536 - ■■■■■ - ■■ A1**
K.149-Z49															
4 149	0.35	8 000	65 000	-	0.18	58423197/14080	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ B2**
3 772	0.38	8 000	65 000	-	0.22	58423197/15488	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ A2**
3 208	0.45	8 000	65 000	-	0.28	9034515/2816	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ X1**
2 917	0.5	8 000	65 000	-	0.34	45172575/15488	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ W1**
2 602	0.56	8 000	65 000	-	0.39	14655991/5632	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ V1**
2 333	0.62	8 000	65 000	-	0.47	9034515/3872	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ U1**
2 103	0.69	8 000	65 000	-	0.55	11845253/5632	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ T1**
1 941	0.75	8 000	65 000	-	0.66	35535759/18304	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ S1**
1 772	0.82	8 000	65 000	-	0.78	2495247/1408	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ R1**
1 470	0.99	8 000	65 000	-	1.00	3011505/2048	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ Q1**
1 384	1.0	8 000	65 000	-	1.16	3011505/2176	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ P1**
1 307	1.1	8 000	65 000	-	1.31	1003835/768	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ N1**
1 112	1.3	8 000	65 000	-	1.62	7829913/7040	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ M1**
953	1.5	8 000	65 000	-	2.00	29512749/30976	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ L1**
838	1.7	8 000	65 000	-	2.50	9436049/11264	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ K1**
707	2.1	8 000	65 000	-	3.20	497553/704	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ J1**
616	2.4	8 000	65 000	-	4.20	5420709/8800	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ H1**
608	2.4	8 000	65 000	-	1.81	826413/1360	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ G1**
574	2.5	8 000	65 000	-	2.00	275471/480	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ F1**
488	3.0	8 000	65 000	-	2.60	10743369/22000	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ E1**
418	3.5	8 000	65 000	-	3.40	40494237/96800	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ D1**
368	3.9	8 000	65 000	-	4.30	12947137/35200	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ C1**
310.31	4.7	8 000	65 000	-	5.70	682689/2200	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ B1**
270.46	5.4	8 000	65 000	-	7.50	7437717/27500	✓	✓	✓	✓	✓	✓	✓		**2KJ4535 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.169-D49															
14 931	0.10	13 000	70 000	-	0.22	315340973/21120	✓	✓	✓	✓	✓	✓			**2KJ4538 - ■■■■■ - ■■ H1**
13 078	0.11	13 000	70 000	-	0.26	13559661839/1036800	✓	✓	✓	✓	✓	✓			**2KJ4538 - ■■■■■ - ■■ G1**
12 072	0.12	13 000	70 000	-	0.31	13559661839/1123200	✓	✓	✓	✓	✓	✓			**2KJ4538 - ■■■■■ - ■■ F1**
10 689	0.14	13 000	70 000	-	0.38	12928979893/1209600	✓	✓	✓	✓	✓	✓	✓		**2KJ4538 - ■■■■■ - ■■ E1**
8 896	0.16	13 000	70 000	-	0.51	4099432649/460800	✓	✓	✓	✓	✓	✓	✓		**2KJ4538 - ■■■■■ - ■■ D1**
8 373	0.17	13 000	70 000	-	0.59	241143097/28800	✓	✓	✓	✓	✓	✓	✓		**2KJ4538 - ■■■■■ - ■■ C1**
7 502	0.19	13 000	70 000	-	0.66	11667616001/1555200	✓	✓	✓	✓	✓	✓	✓		**2KJ4538 - ■■■■■ - ■■ B1**
6 387	0.23	13 000	70 000	-	0.86	2207386811/345600	✓	✓	✓	✓	✓	✓	✓		**2KJ4538 - ■■■■■ - ■■ A1**
K.169-Z49															
6 248	0.23	13 000	70 000	-	0.19	1799298493/288000	✓	✓	✓	✓					**2KJ4537 - ■■■■■ - ■■ C2**
5 680	0.26	13 000	70 000	-	0.23	1799298493/316800	✓	✓	✓	✓					**2KJ4537 - ■■■■■ - ■■ B2**
4 831	0.30	13 000	70 000	-	0.28	18549469/3840	✓	✓	✓	✓					**2KJ4537 - ■■■■■ - ■■ A2**
4 391	0.33	13 000	70 000	-	0.34	18549469/4224	✓	✓	✓	✓					**2KJ4537 - ■■■■■ - ■■ X1**
3 918	0.37	13 000	70 000	-	0.40	1354111237/345600	✓	✓	✓	✓	✓	✓			**2KJ4537 - ■■■■■ - ■■ W1**
3 513	0.41	13 000	70 000	-	0.48	18549469/5280	✓	✓	✓	✓	✓	✓			**2KJ4537 - ■■■■■ - ■■ V1**
3 167	0.46	13 000	70 000	-	0.57	1094418671/345600	✓	✓	✓	✓	✓	✓			**2KJ4537 - ■■■■■ - ■■ U1**
2 923	0.50	13 000	70 000	-	0.67	1094418671/374400	✓	✓	✓	✓	✓	✓			**2KJ4537 - ■■■■■ - ■■ T1**
2 668	0.54	13 000	70 000	-	0.80	537934601/201600	✓	✓	✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ S1**
2 214	0.65	13 000	70 000	-	1.03	204044159/92160	✓	✓	✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ R1**
2 084	0.70	13 000	70 000	-	1.19	204044159/97920	✓	✓	✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ Q1**
1 968	0.74	13 000	70 000	-	1.35	204044159/103680	✓	✓	✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ P1**
1 675	0.87	13 000	70 000	-	1.67	241143097/144000	✓	✓	✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ N1**
1 435	1.0	13 000	70 000	-	2.10	908923981/633600			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ M1**
1 261	1.1	13 000	70 000	-	2.60	871825043/691200			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ L1**
1 064	1.4	13 000	70 000	-	3.30	352439911/331200			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ K1**
927	1.6	13 000	70 000	-	4.40	18549469/20000			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ J1**
915	1.6	13 000	70 000	-	1.98	279967567/306000	✓	✓	✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ H1**
864	1.7	13 000	70 000	-	2.20	279967567/324000	✓	✓	✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ G1**
735	2.0	13 000	70 000	-	2.90	330870761/450000	✓	✓	✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ F1**
630	2.3	13 000	70 000	-	3.80	1247128253/1980000			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ E1**
554	2.6	13 000	70 000	-	4.70	1196225059/2160000			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ D1**
467	3.1	13 000	70 000	-	6.30	483580343/1035000			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ C1**
416	3.5	13 000	70 000	-	6.90	25840171/62100			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ B1**
363	4.0	13 000	70 000	-	9.10	1360009/3750			✓	✓	✓	✓	✓		**2KJ4537 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

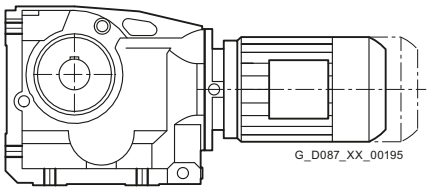
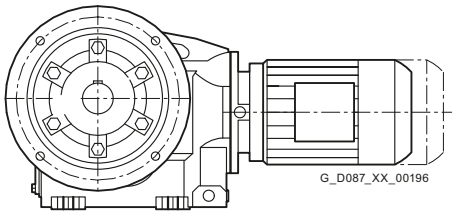
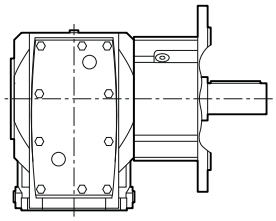
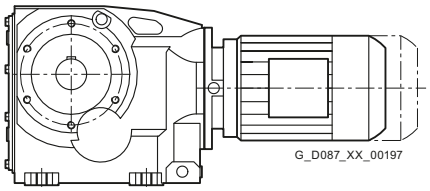
Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
K.189-D69															
13 345	0.11	19 500	104 000	-	0.26	840736/63	✓	✓	✓	✓	✓	✓			**2KJ4541 - ■■■■■ - ■■ G1**
12 318	0.12	19 500	104 000	-	0.32	258688/21	✓	✓	✓	✓	✓	✓			**2KJ4541 - ■■■■■ - ■■ F1**
10 907	0.13	19 500	104 000	-	0.38	1603264/147	✓	✓	✓	✓	✓	✓	✓		**2KJ4541 - ■■■■■ - ■■ E1**
9 078	0.16	19 500	104 000	-	0.52	63544/7	✓	✓	✓	✓	✓	✓	✓		**2KJ4541 - ■■■■■ - ■■ D1**
8 544	0.17	19 500	104 000	-	0.61	1016704/119	✓	✓	✓	✓	✓	✓	✓		**2KJ4541 - ■■■■■ - ■■ C1**
7 655	0.19	19 500	104 000	-	0.67	1446848/189	✓	✓	✓	✓	✓	✓	✓		**2KJ4541 - ■■■■■ - ■■ B1**
6 517	0.22	19 500	104 000	-	0.89	19552/3	✓	✓	✓	✓	✓	✓	✓		**2KJ4541 - ■■■■■ - ■■ A1**
K.189-Z69															
6 375	0.23	19 500	104 000	-	0.21	3793088/595	✓	✓	✓	✓					**2KJ4540 - ■■■■■ - ■■ C2**
5 795	0.25	19 500	104 000	-	0.26	7586176/1309	✓	✓	✓	✓					**2KJ4540 - ■■■■■ - ■■ B2**
4 929	0.29	19 500	104 000	-	0.32	586560/119	✓	✓	✓	✓					**2KJ4540 - ■■■■■ - ■■ A2**
4 481	0.32	19 500	104 000	-	0.39	5865600/1309	✓	✓	✓	✓					**2KJ4540 - ■■■■■ - ■■ X1**
3 998	0.36	19 500	104 000	-	0.46	1427296/357	✓	✓	✓	✓	✓	✓			**2KJ4540 - ■■■■■ - ■■ W1**
3 585	0.40	19 500	104 000	-	0.56	4692480/1309	✓	✓	✓	✓	✓	✓			**2KJ4540 - ■■■■■ - ■■ V1**
3 231	0.45	19 500	104 000	-	0.66	1153568/357	✓	✓	✓	✓	✓	✓			**2KJ4540 - ■■■■■ - ■■ U1**
2 983	0.49	19 500	104 000	-	0.78	354944/119	✓	✓	✓	✓	✓	✓			**2KJ4540 - ■■■■■ - ■■ T1**
2 723	0.53	19 500	104 000	-	0.93	2268032/833	✓	✓	✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ S1**
2 259	0.64	19 500	104 000	-	1.23	268840/119	✓	✓	✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ R1**
2 126	0.68	19 500	104 000	-	1.41	4301440/2023	✓	✓	✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ Q1**
2 008	0.72	19 500	104 000	-	1.59	2150720/1071	✓	✓	✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ P1**
1 709	0.85	19 500	104 000	-	2.0	1016704/595	✓	✓	✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ N1**
1 464	0.99	19 500	104 000	-	2.5	273728/187			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ M1**
1 287	1.1	19 500	104 000	-	3.2	459472/357			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ L1**
1 086	1.3	19 500	104 000	-	4.1	2971904/2737			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ K1**
946	1.5	19 500	104 000	-	5.5	2815488/2975			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ J1**
889	1.6	19 500	104 000	-	3.1	3128320/3519	✓	✓	✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ H1**
756	1.9	19 500	104 000	-	4.0	16267264/21505	✓	✓	✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ G1**
648	2.2	19 500	104 000	-	5.3	30657536/47311			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ F1**
570	2.5	19 500	104 000	-	6.7	7351552/12903			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ E1**
481	3.0	19 500	104 000	-	9.1	47550464/98923			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ D1**
419	3.5	19 500	104 000	-	12	45047808/107525			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ C1**
384	3.8	19 500	104 000	-	11	37948928/98923			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ B1**
334.36	4.3	19 500	104 000	-	14	35951616/107525			✓	✓	✓	✓	✓		**2KJ4540 - ■■■■■ - ■■ A1**

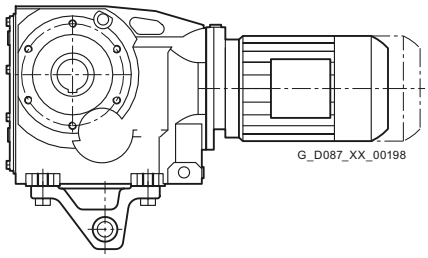
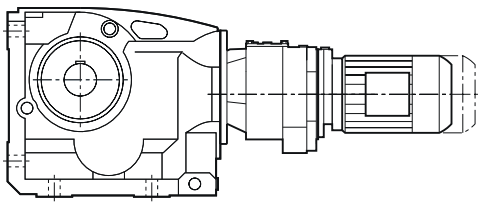
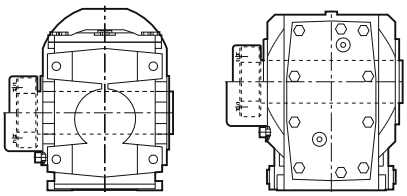
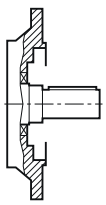
[1] Only in conjunction with reduced-backlash version

Dimensional drawing overview

Information about dimensional drawings can be found in chapter "Introduction" on page 1/18.

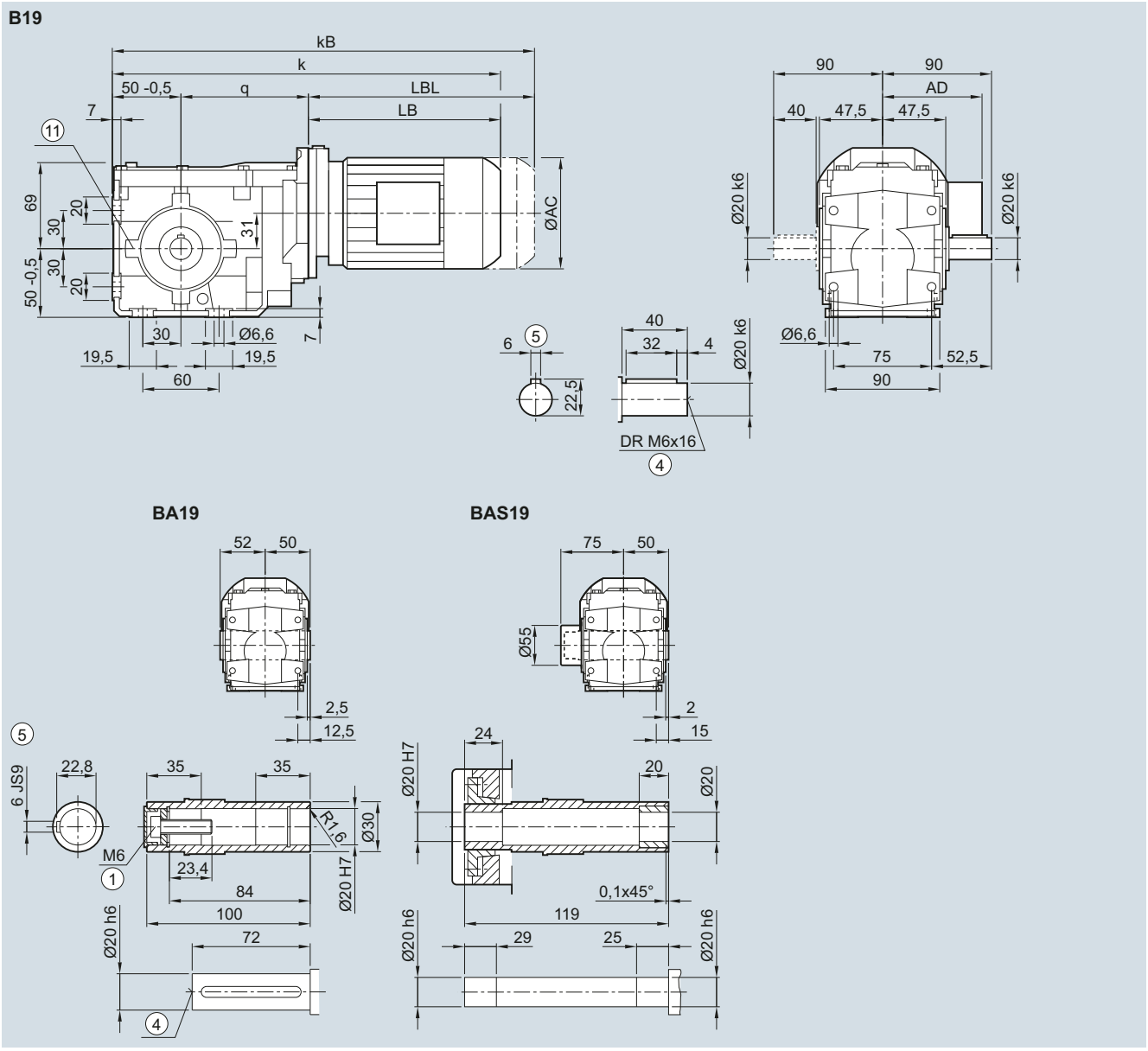
Design	Size	Dimensional drawing on page
Bevel geared motors B and K		
Foot-mounted design		
 G_D087_XX_00195	B..19	5/169
	B..29	5/173
	B..39	5/177
	B..49	5/181
	K..39	5/185
	K..49	5/189
	K..69	5/193
	K..79	5/197
	K..89	5/201
	K..109	5/206
	K..129	5/211
	K..149	5/216
	K..169	5/221
	K..189	5/226
Flange-mounted design		
 G_D087_XX_00196	B.F.19	5/170
	B.F.29	5/174
	B.F.39	5/178
	B.F.49	5/182
	K.F.39	5/186
	K.F.49	5/190
	K.F.69	5/194
	K.F.79	5/198
	K.F.89	5/202
	K.F.109	5/207
	K.F.129	5/212
	K.F.149	5/217
	K.F.169	5/222
	K.F.189	5/227
Flange-mounted design with VLplus reinforced bearing system		
	K.F.89	5/203
	K.F.109	5/208
	K.F.129	5/213
	K.F.149	5/218
	K.F.169	5/223
Housing flange design		
 G_D087_XX_00197	B.Z.19	5/171
	B.Z.29	5/175
	B.Z.39	5/179
	B.Z.49	5/183
	K.Z.39	5/187
	K.Z.49	5/191
	K.Z.69	5/195
	K.Z.79	5/199
	K.Z.89	5/204
	K.Z.109	5/209
	K.Z.129	5/214
	K.Z.149	5/219
	K.Z.169	5/224
	K.Z.189	5/228

Dimensional drawing overview (continued)

Design	Size	Dimensional drawing on page
Bevel geared motors B and K		
Shaft-mounted design		
	BAD.19	5/172
	BAD.29	5/176
	BAD.39	5/180
	BAD.49	5/184
	KAD.39	5/188
	KAD.49	5/192
	KAD.69	5/196
	KAD.79	5/200
	KAD.89	5/205
	KAD.109	5/210
	KAD.129	5/215
	KAD.149	5/220
	KAD.169	5/225
	KAD.189	5/229
Bevel tandem geared motors		
	K.39-D/Z19 ... K.189-D/Z69	5/230
Additional versions and options		
Protection covers		
	BA.19 ... KA.189	5/231
Inner contour of the flange design		
	BF19 ... KF189 BAF19 ... KAF189	5/232

B..19 gearbox in a foot-mounted design

B030, BA030



Motor[1)]	LHN63	LHN71	LEN80M
q	133.0	141.0	149.5
AC	118.0	139.0	154.5
AD[2)]	110.0	120.0	145.5
k	362.0	383.5	435.0
kB	407.0	438.5	495.0
LB	179.0	192.5	235.5
LBL	224.0	247.5	295.5

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for housing flange design

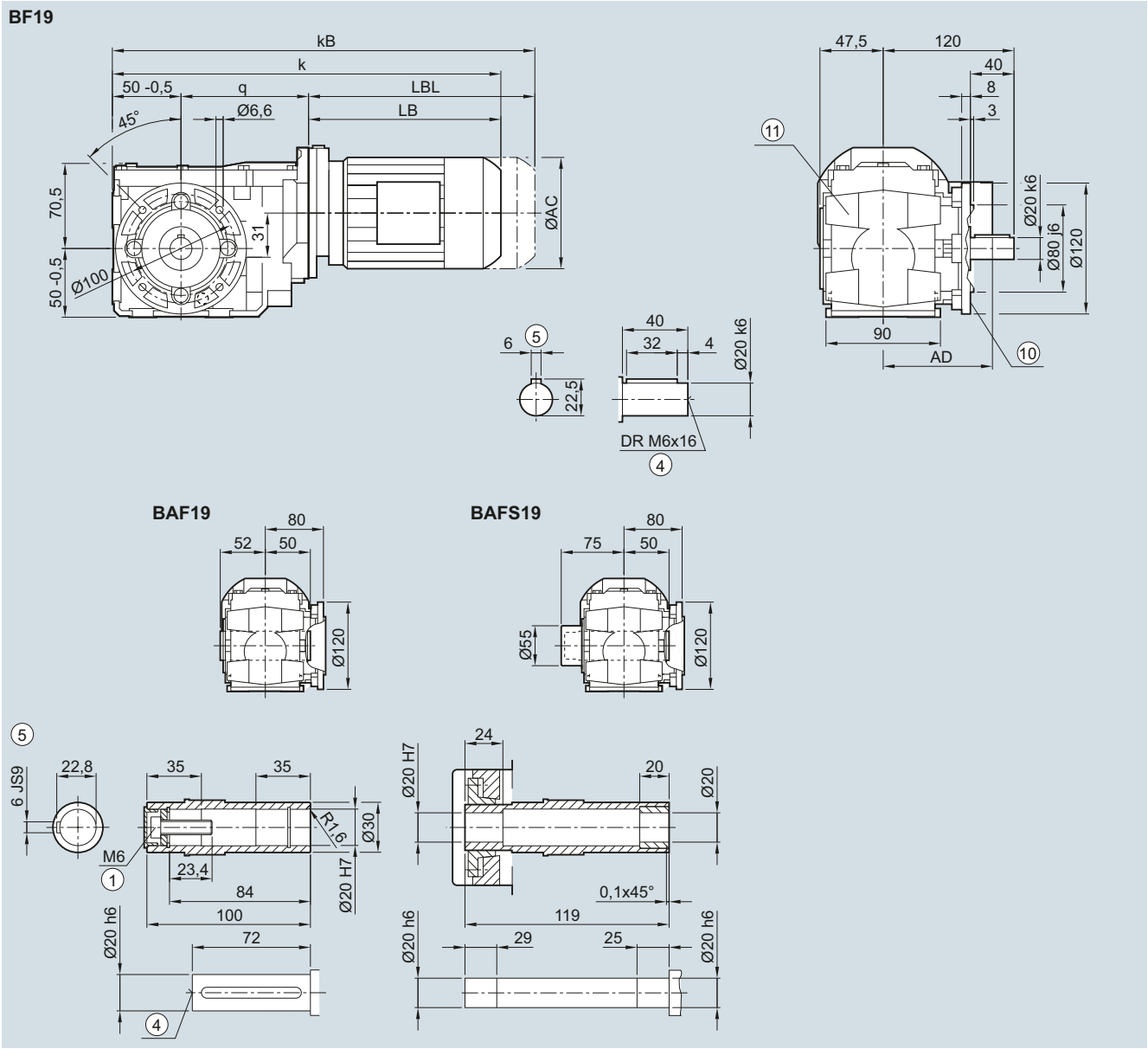
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

5

B.F.19 gearbox in a flange-mounted design

BF030, BAF030



Motor[1)]	LHN63	LHN71	LEN80M
q	133.0	141.0	149.5
AC	118.0	139.0	154.5
AD[2)]	110.0	120.0	145.5
k	362.0	383.5	435.0
kB	407.0	438.5	495.0
LB	179.0	192.5	235.5
LBL	224.0	247.5	295.5

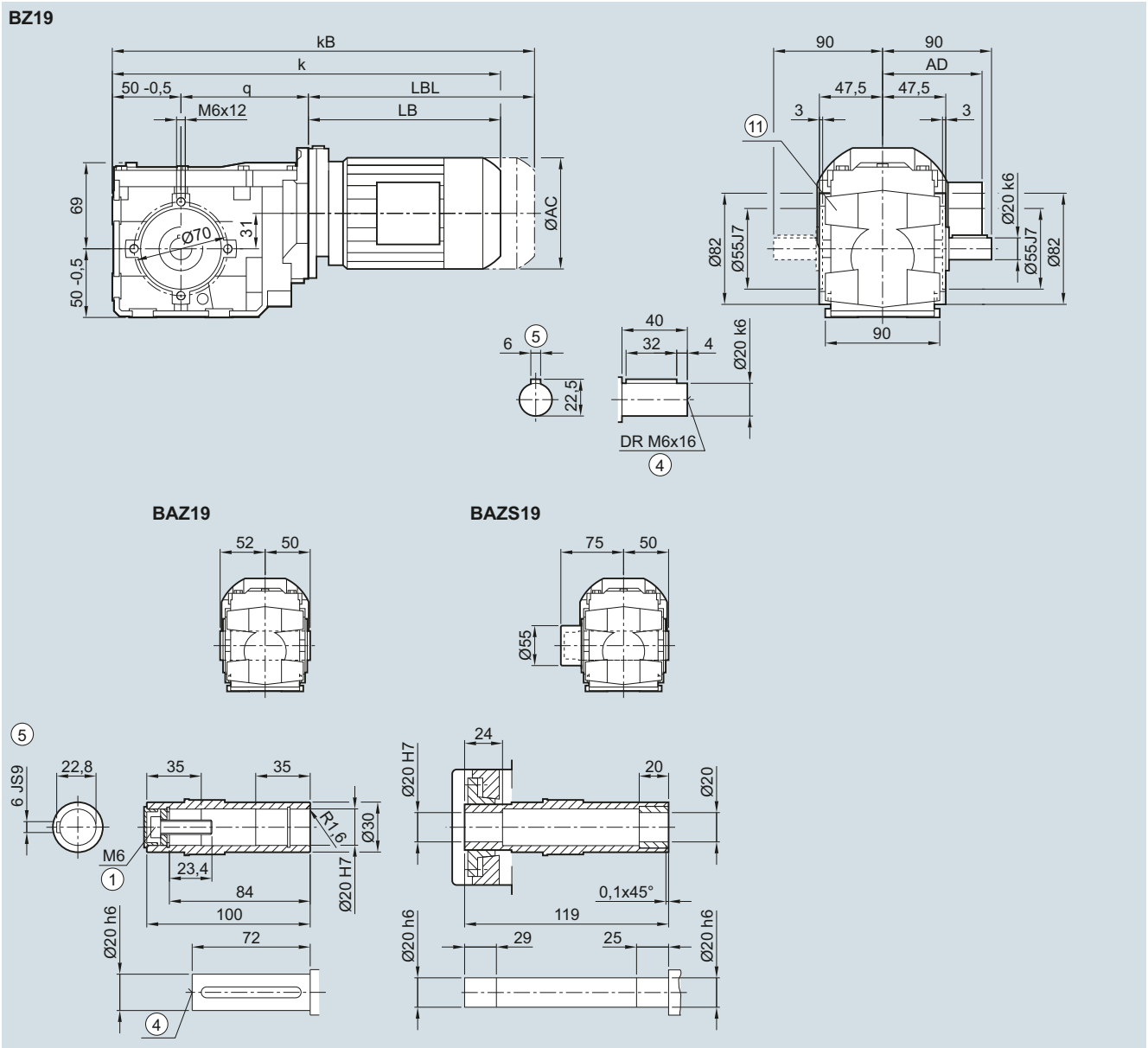
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

B.Z.19 gearbox in a housing flange design

BZ030, BAZ030



Motor[1)]	LHN63	LHN71	LEN80M
q	133.0	141.0	149.5
AC	118.0	139.0	154.5
AD[2)]	110.0	120.0	145.5
k	362.0	383.5	435.0
kB	407.0	438.5	495.0
LB	179.0	192.5	235.5
LBL	224.0	247.5	295.5

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design

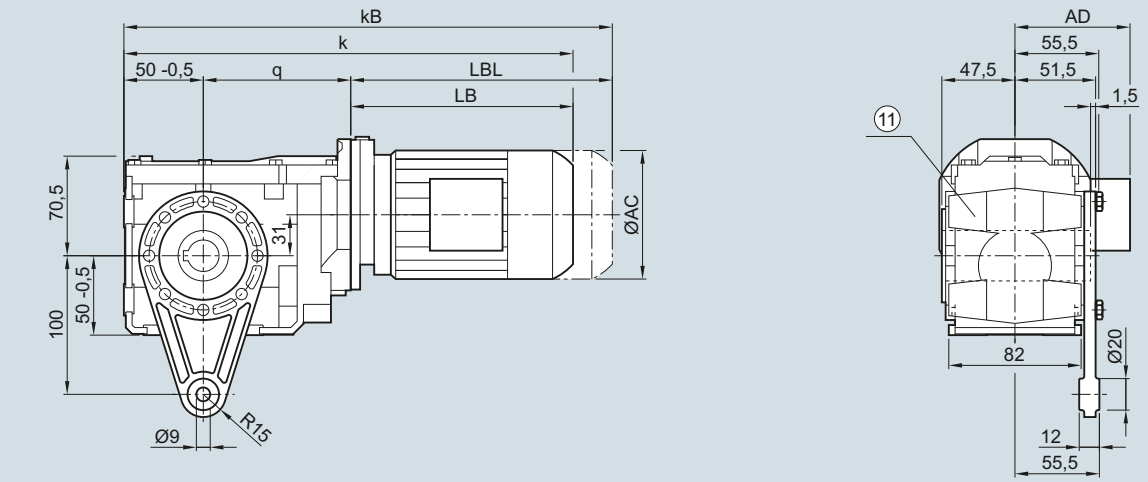
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

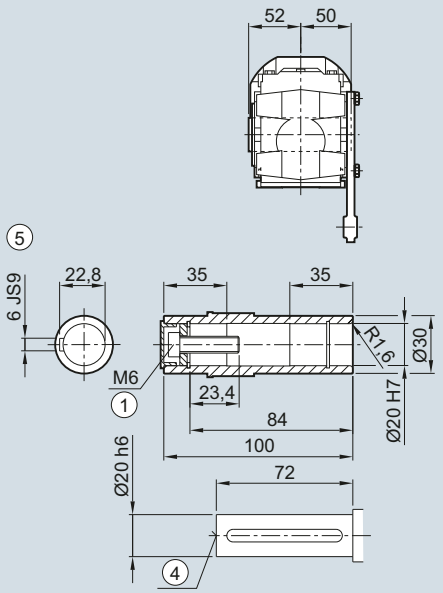
BAD.19 gearbox in a shaft-mounted design

BAD030

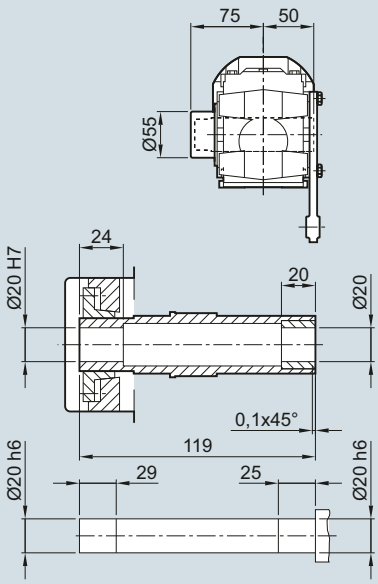
BAD19



BAD19



BADS19



Motor[1)]	LHN63	LHN71	LEN80M
q	133.0	141.0	149.5
AC	118.0	139.0	154.5
AD[2)]	110.0	120.0	145.5
k	362.0	383.5	435.0
kB	407.0	438.5	495.0
LB	179.0	192.5	235.5
LBL	224.0	247.5	295.5

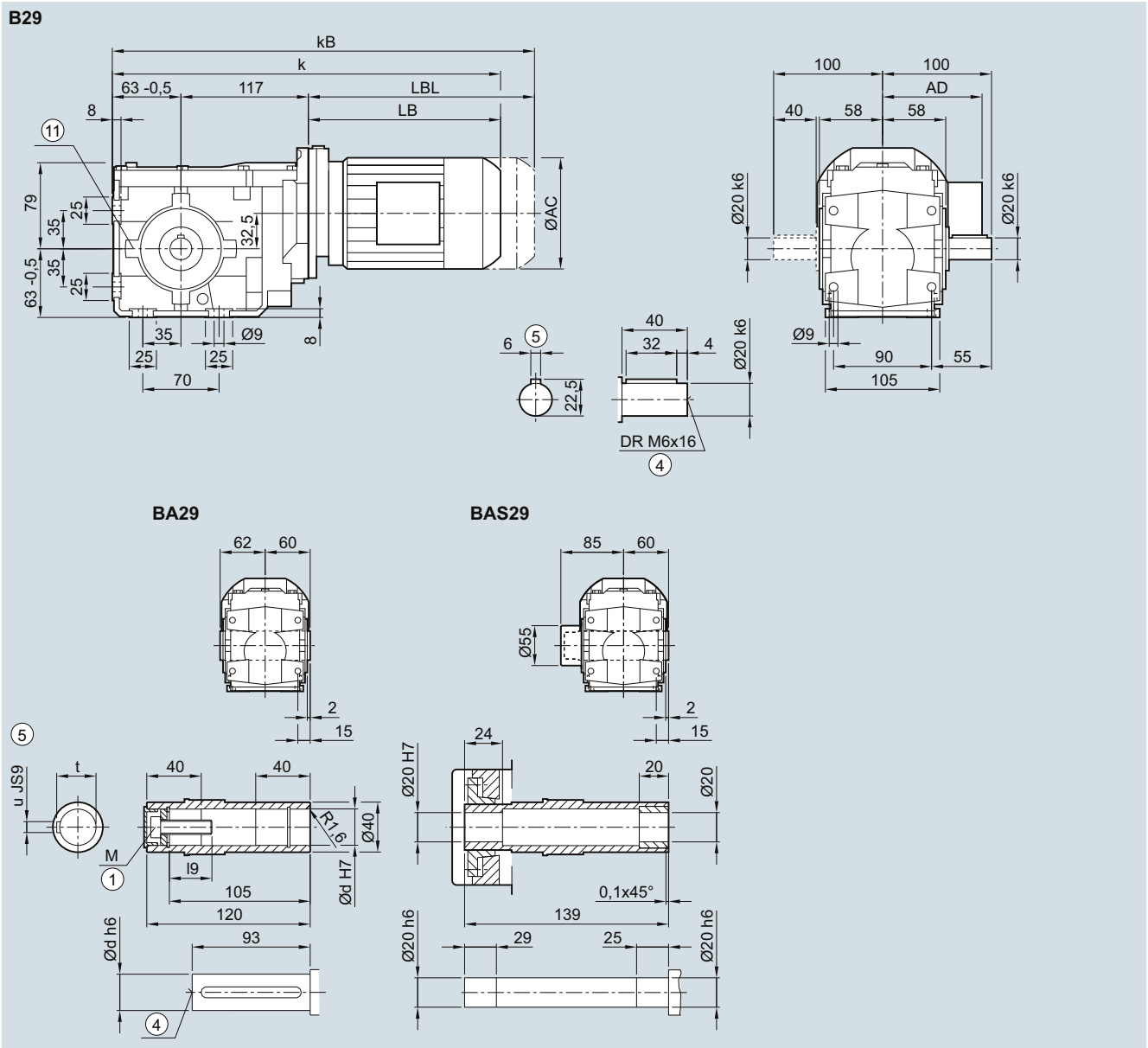
① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

B..29 gearbox in a foot-mounted design

B030, BA030, BAS030



Shaft	d	l9	M	t	u
	20	23.4	M6	22.8	6
	25	27.6	M10	28.3	8

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	392.5	414.0	465.5	526.5	501.5	603.5
kB	437.5	469.0	525.5	596.5	571.5	682.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for housing flange design

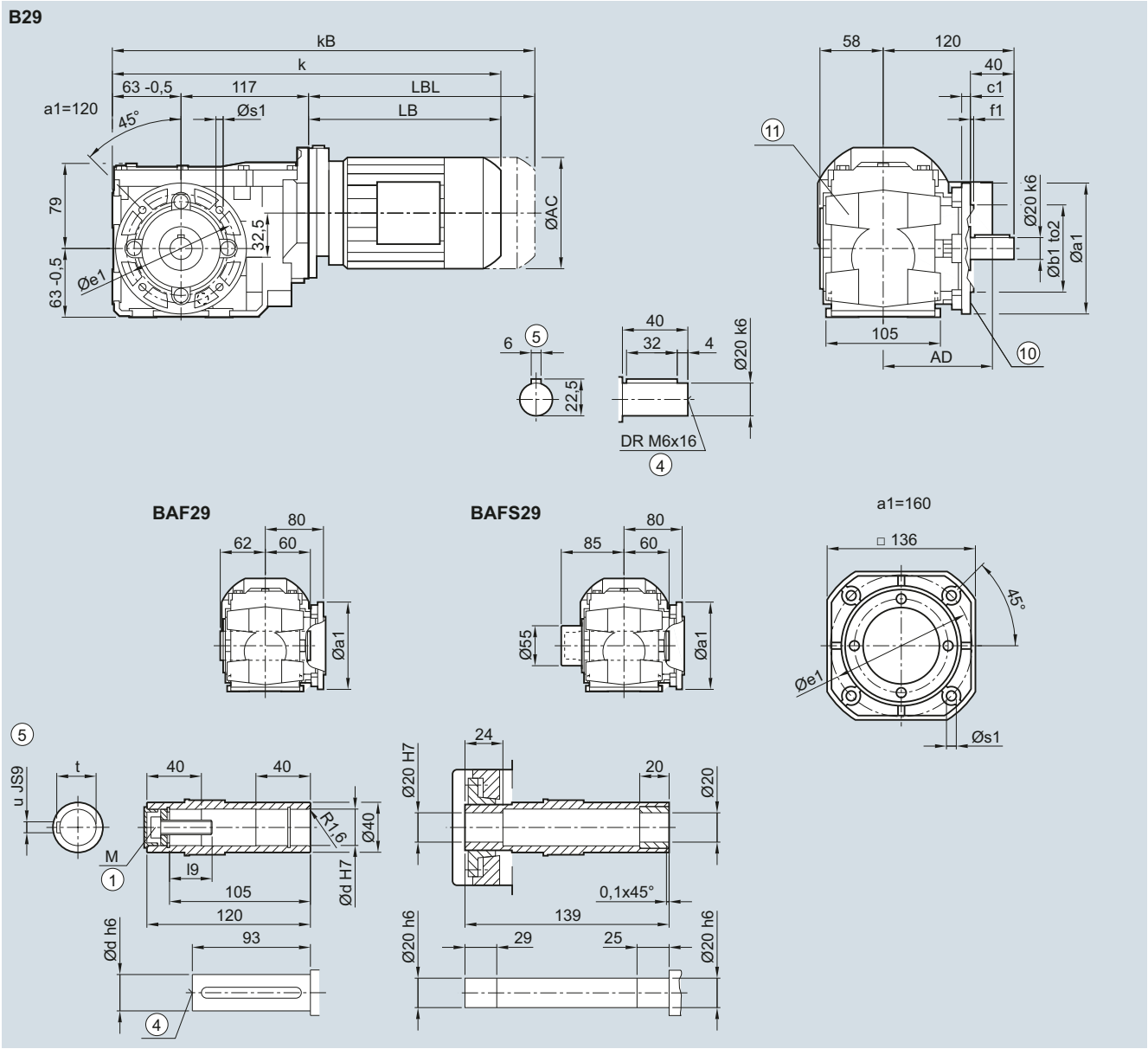
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

5

B.F.29 gearbox in a flange-mounted design

BF030, BAF030, BAFS030



Flange	a1	b1	c1	f1	e1	s1	to2
	120	80	8	3.0	100	6.6	j6
	160	110	9	3.5	130	9.0	j6

Shaft	d	l9	M	t	u
	20	23.4	M6	22.8	6
	25	27.6	M10	28.3	8

Motor[1]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2]	110.0	120.0	145.5	155.5	155.5	175.5
k	392.5	414.0	465.5	526.5	501.5	603.5
kB	437.5	469.0	525.5	596.5	571.5	682.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

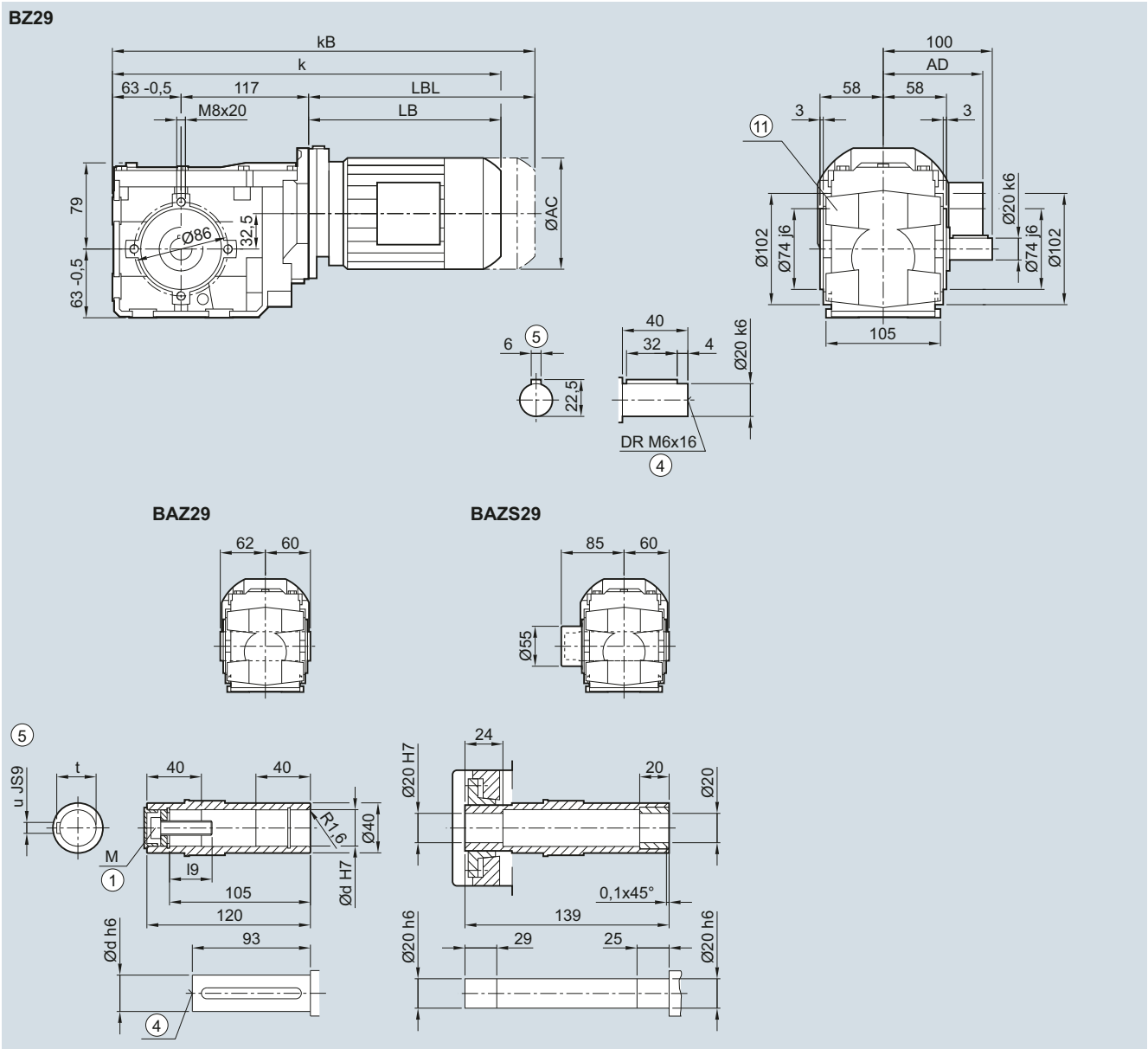
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

B.Z.29 gearbox in a housing flange design

BZ030, BAZ030, BAZS030



Shaft	d	l9	M	t	u
	20	23.4	M6	22.8	6
	25	27.6	M10	28.3	8

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	392.5	414.0	465.5	526.5	501.5	603.5
kB	437.5	469.0	525.5	596.5	571.5	682.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

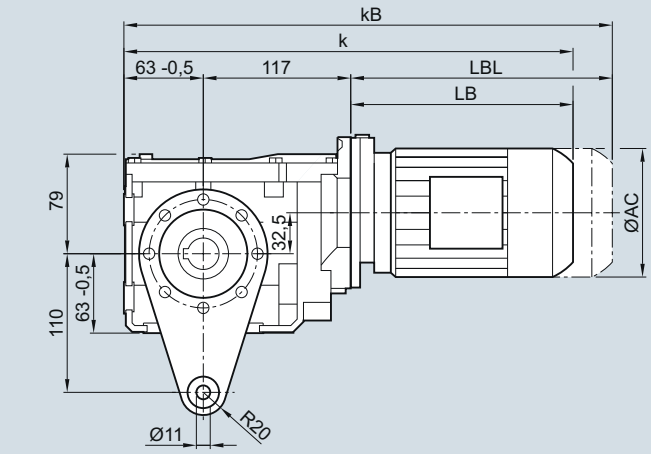
2) AD depends on the motor options, for other dimensions see page 7/20.

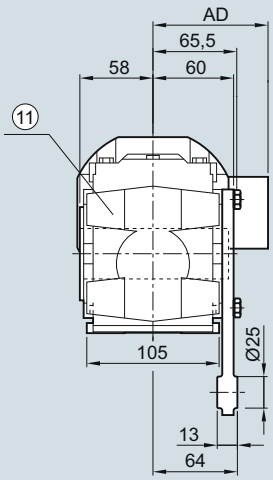
Dimensions

BAD.29 gearbox in a shaft-mounted design

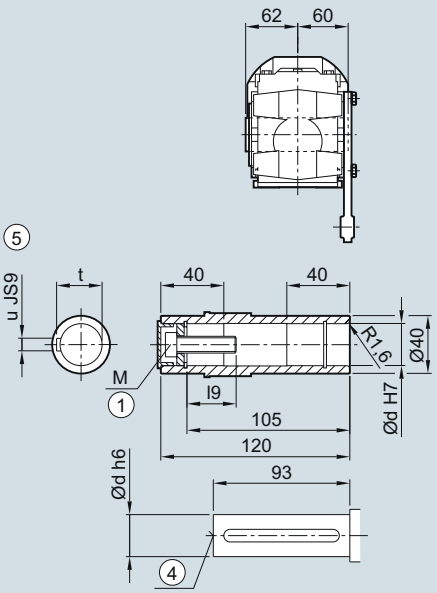
BAD030, BADS030

BAD29

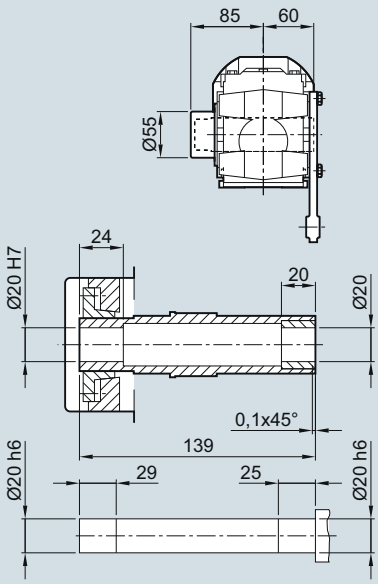




BAD29



BADS29



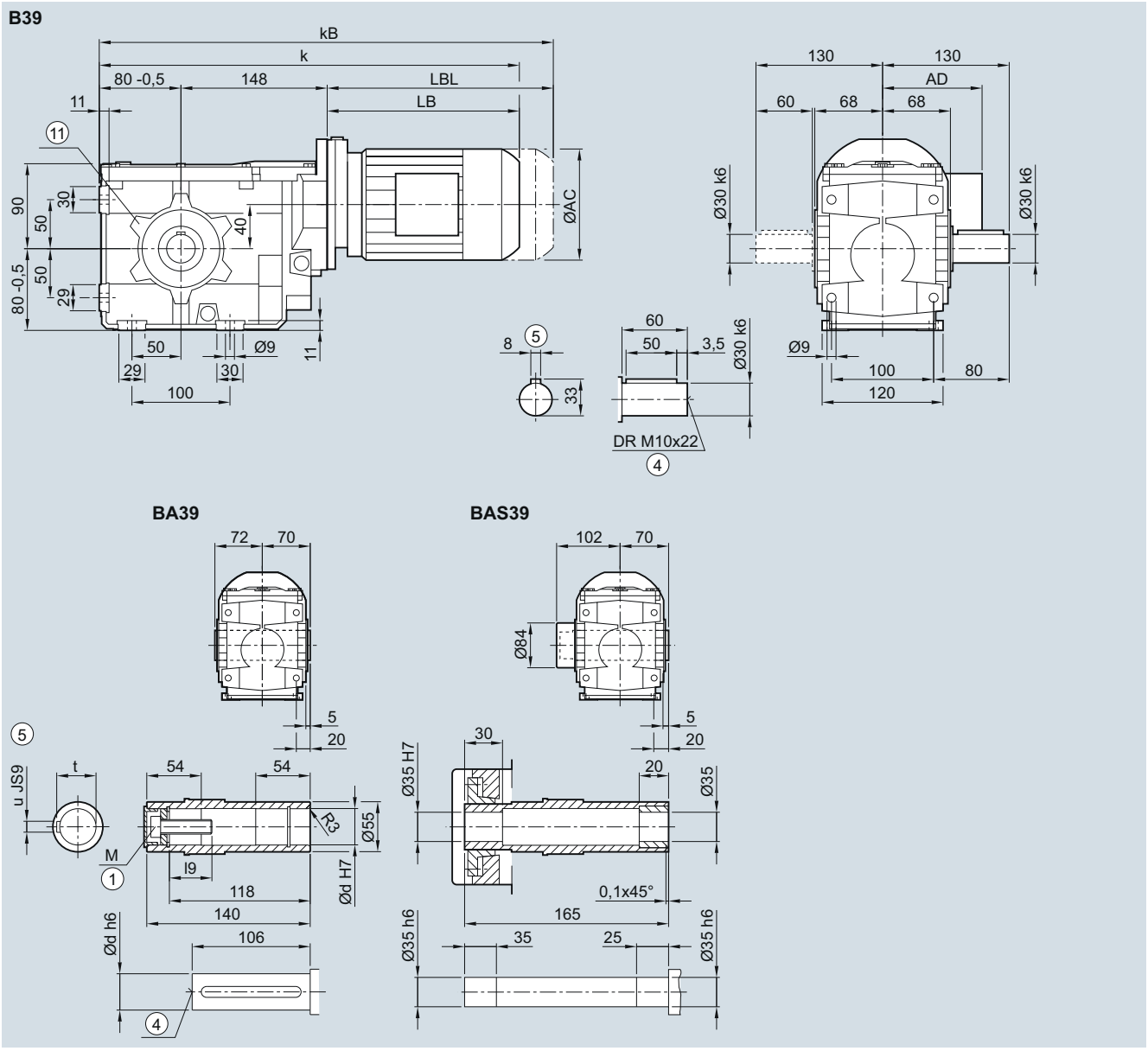
Shaft	d	l9	M	t	u
	20	23.4	M6	22.8	6
	25	27.6	M10	28.3	8

Motor[1]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2]	110.0	120.0	145.5	155.5	155.5	175.5
k	392.5	414.0	465.5	526.5	501.5	603.5
kB	437.5	469.0	525.5	596.5	571.5	682.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

B..39 gearbox in a foot-mounted design

B030, BA030, BAS030



Shaft	d	l9	M	t	u
	30	32.6	M10	33.3	8
	35	37	M12	38.3	10
	40	47.75	M16	43.3	12

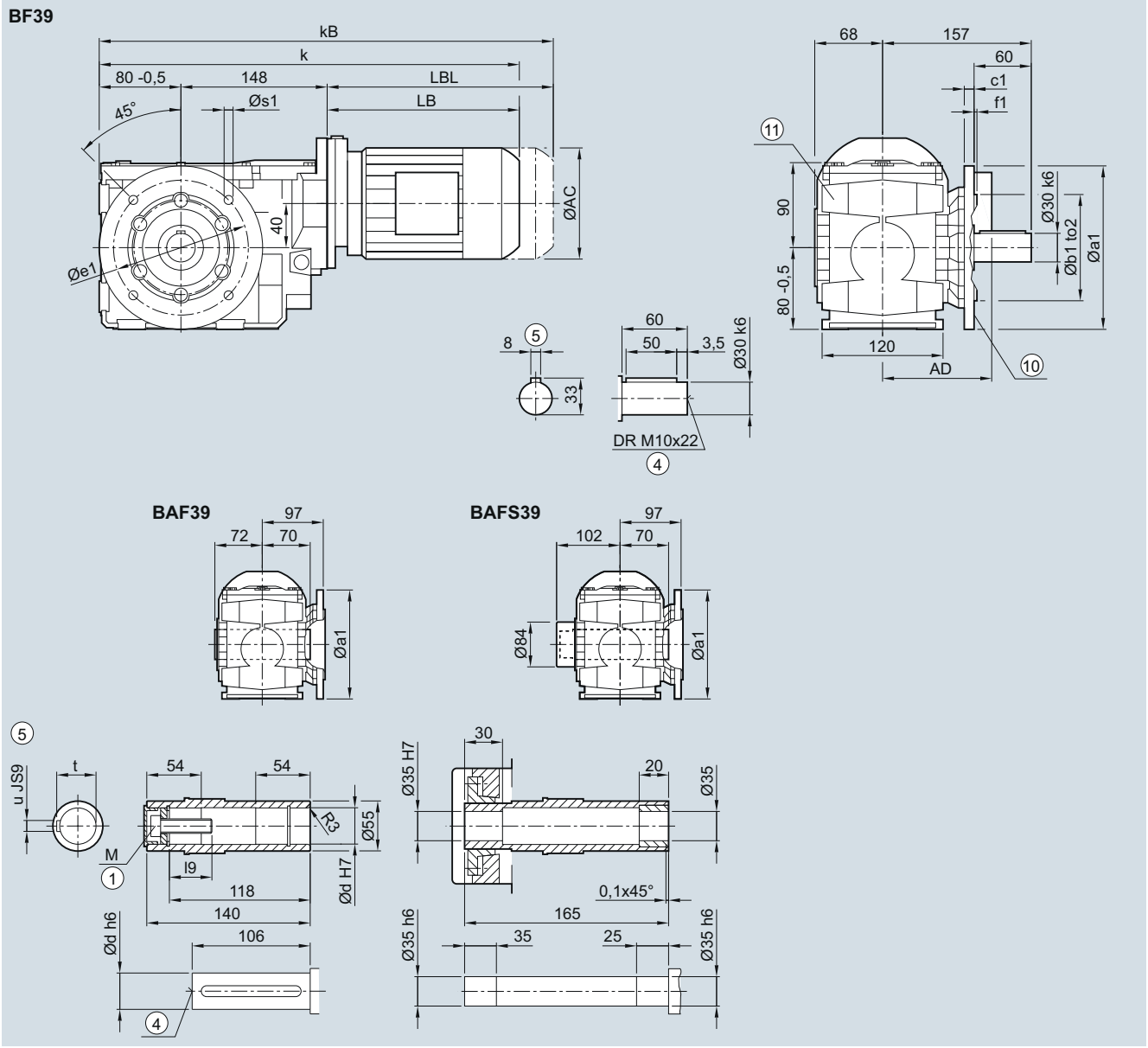
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	440.5	462.0	513.5	574.5	549.5	651.5	671.0
kB	485.5	517.0	573.5	644.5	619.5	730.0	744.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for housing flange design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

5

B.F.39 gearbox in a flange-mounted design

BF030, BAF030, BAFS030



Flange	a1	b1	c1	f1	e1	s	to2
	160	110	10	3.5	130	9	j6
	200	130	12	3.5	165	11	j6

Shaft	d	l9	M	t	u
	30	32.6	M10	33.3	8
	35	37	M12	38.3	10
	40	47.75	M16	43.3	12

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	440.5	462.0	513.5	574.5	549.5	651.5	671.0
kB	485.5	517.0	573.5	644.5	619.5	730.0	744.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

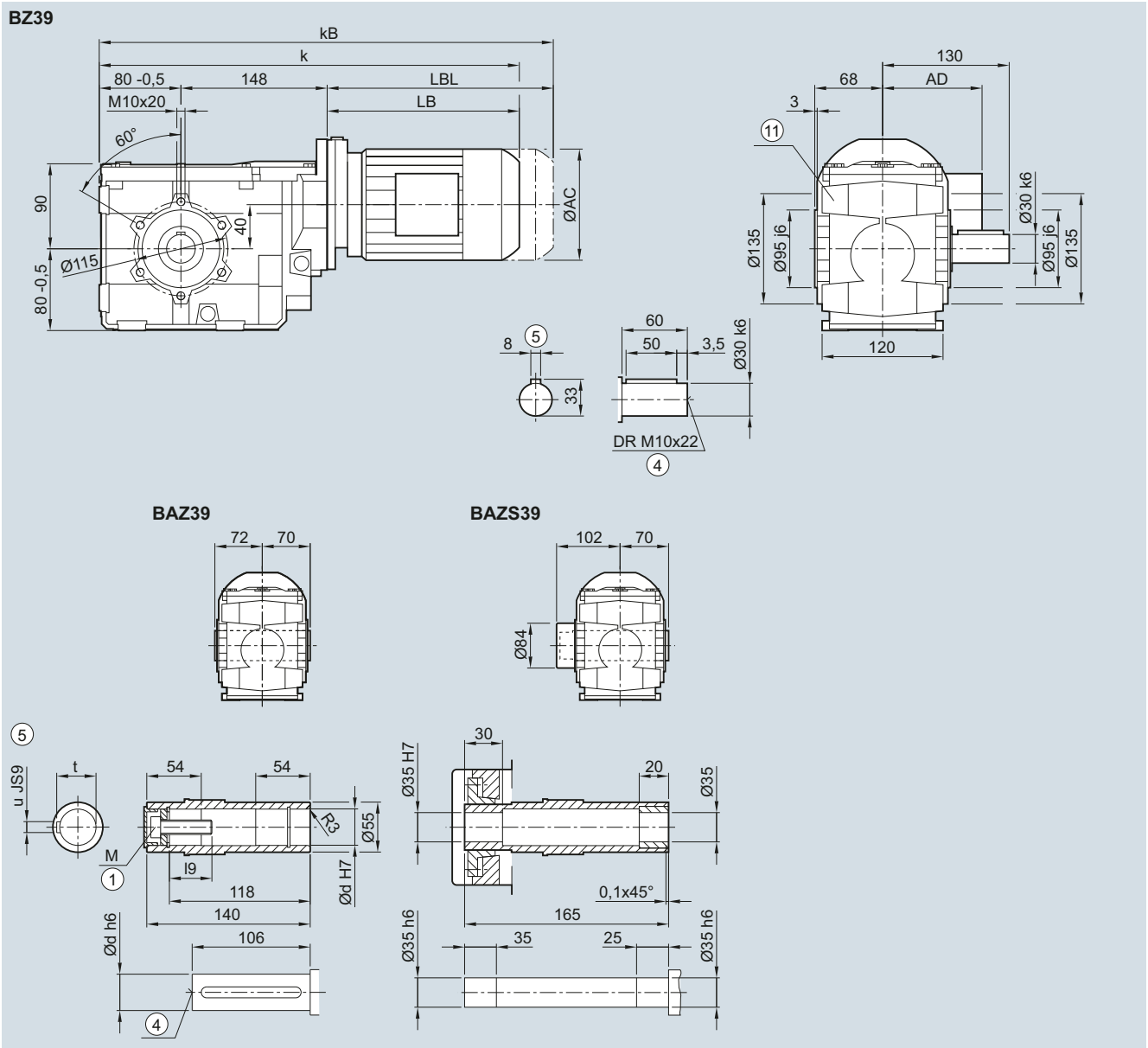
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

B.Z.39 gearbox in a housing flange design

BZ030, BAZ030, BAZS030



Shaft	d	l9	M	t	u
	30	32.6	M10	33.3	8
	35	37	M12	38.3	10
	40	47.75	M16	43.3	12

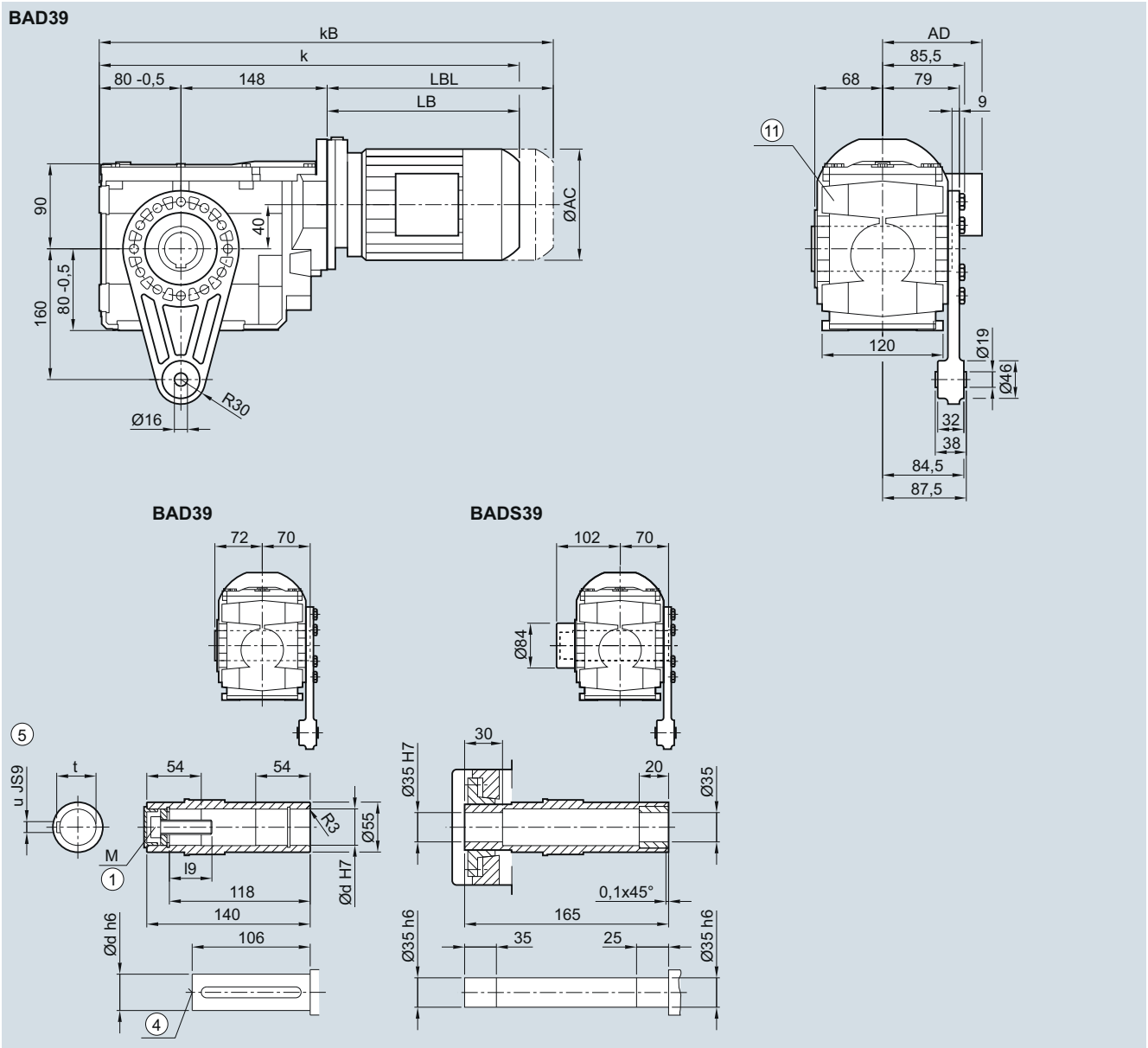
Motor[1]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	440.5	462.0	513.5	574.5	549.5	651.5	671.0
kB	485.5	517.0	573.5	644.5	619.5	730.0	744.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

BAD.39 gearbox in a shaft-mounted design

BAD030, BADS030



Shaft	d	l9	M	t	u
	30	32.6	M10	33.3	8
	35	37	M12	38.3	10
	40	47.75	M16	43.3	12

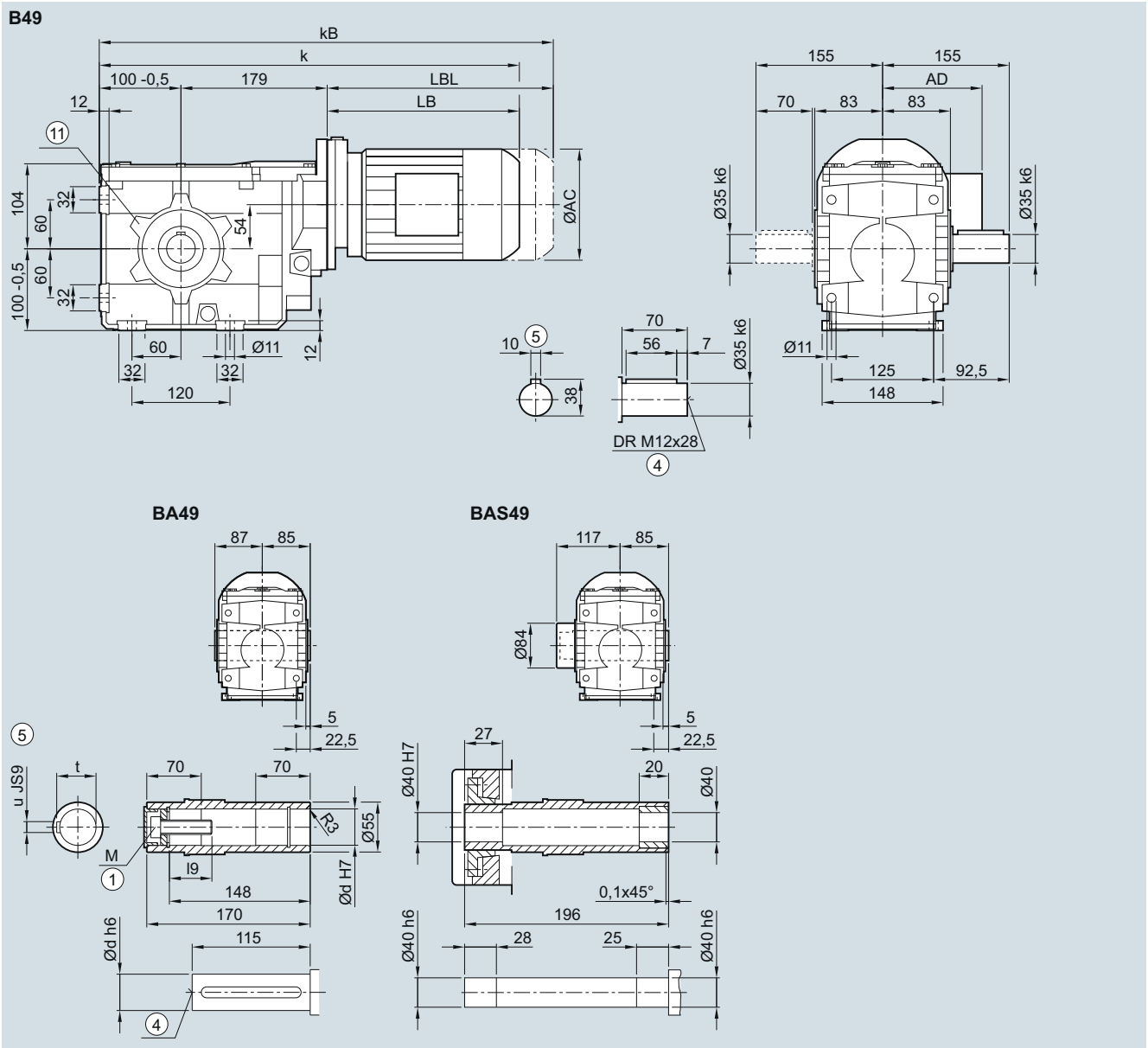
Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	440.5	462.0	513.5	574.5	549.5	651.5	671.0
kB	485.5	517.0	573.5	644.5	619.5	730.0	744.0
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

B..49 gearbox in a foot-mounted design

B030, BA030, BAS030



Shaft	d	l9	M	t	u
	35	57	M12	38.3	10
	40	67.75	M16	43.3	12

Motor[1]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	482.0	503.5	555.0	616.0	591.0	693.0	712.5	756.5	801.5
kB	527.0	558.5	615.0	686.0	661.0	771.5	785.5	861.0	906.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for housing flange design

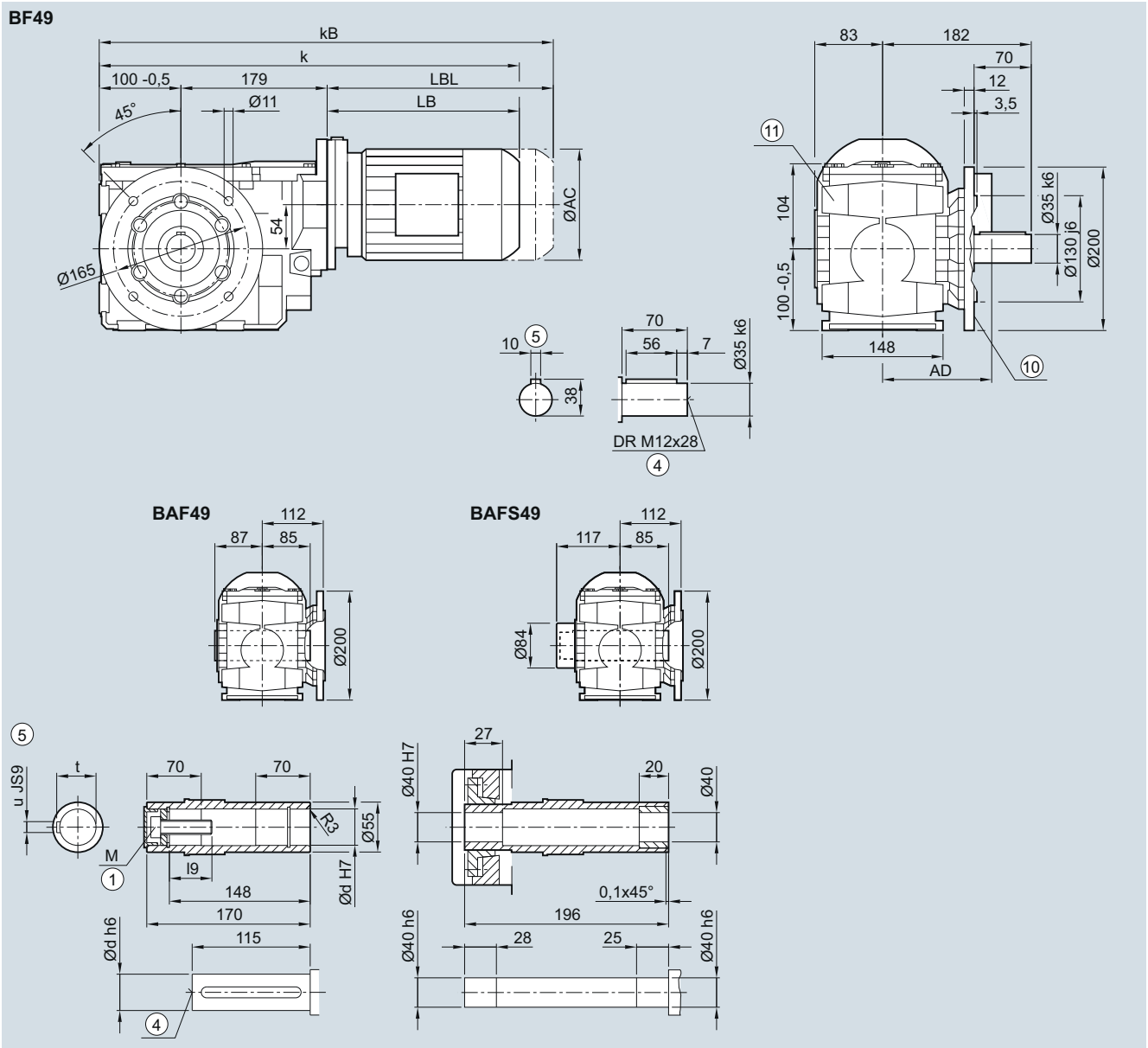
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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B.F.49 gearbox in a flange-mounted design

BF030, BAF030, BAFS030



Shaft	d	l9	M	t	u
	35	57	M12	38.3	10
	40	67.75	M16	43.3	12

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	482.0	503.5	555.0	616.0	591.0	693.0	712.5	756.5	801.5
kB	527.0	558.5	615.0	686.0	661.0	771.5	785.5	861.0	906.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

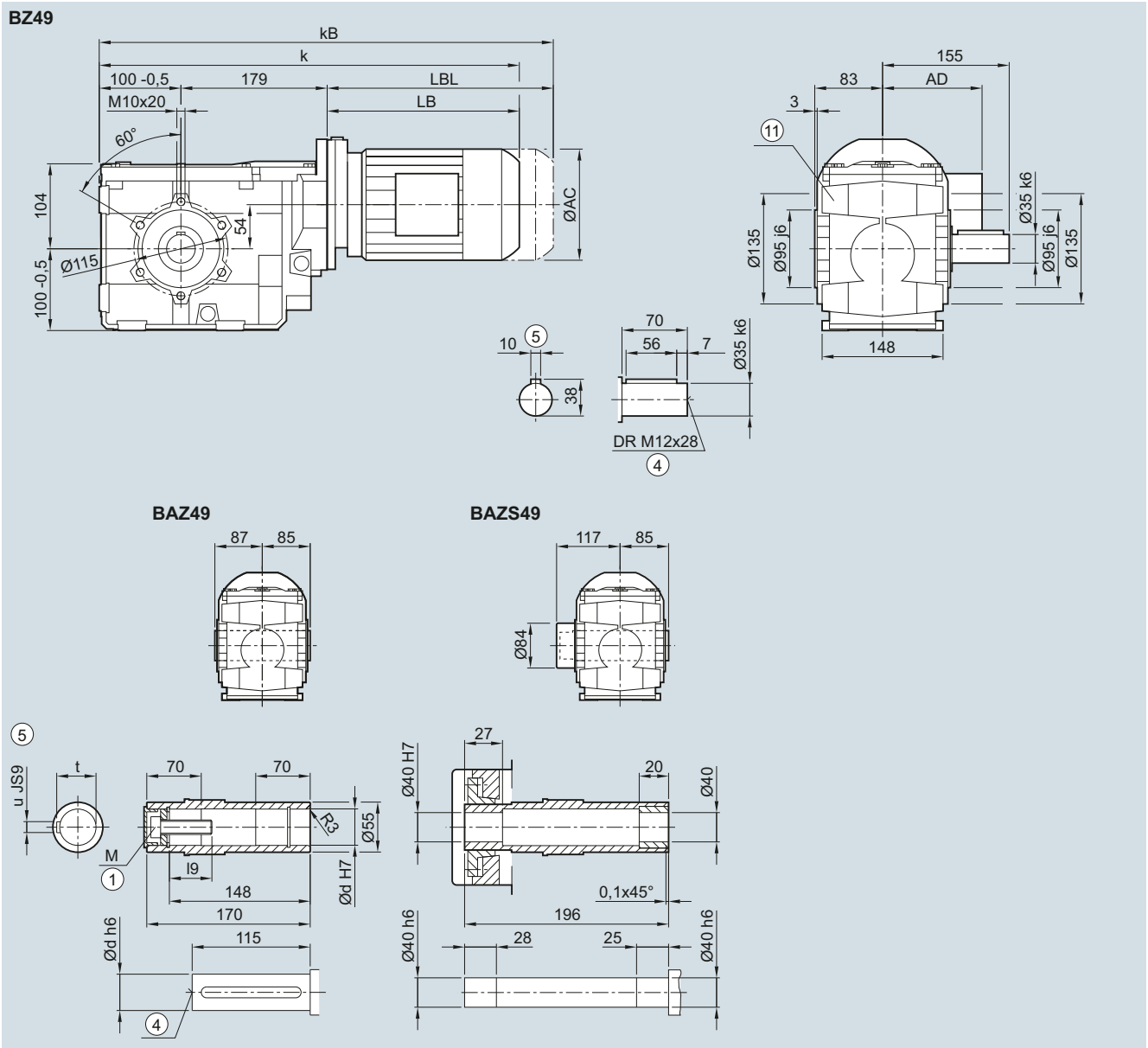
① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

B.Z.49 gearbox in a housing flange design

BZ030, BAZ030, BAZS030



Shaft	d	l9	M	t	u
	35	57	M12	38.3	10
	40	67.75	M16	43.3	12

Motor[1]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	482.0	503.5	555.0	616.0	591.0	693.0	712.5	756.5	801.5
kB	527.0	558.5	615.0	686.0	661.0	771.5	785.5	861.0	906.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design

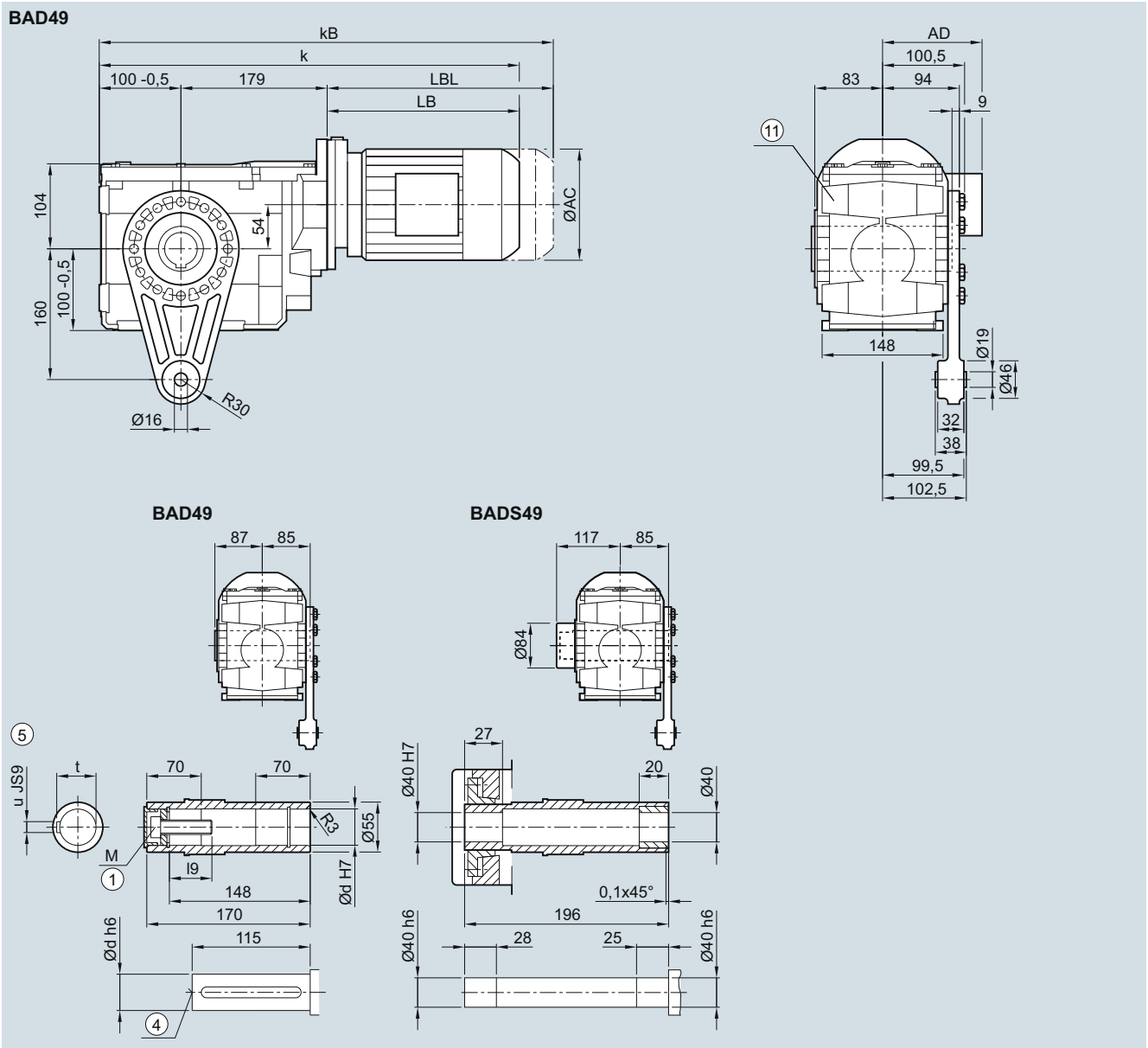
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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BAD.49 gearbox in a shaft-mounted design

BAD030, BADS030



Shaft	d	l9	M	t	u
	35	57	M12	38.3	10
	40	67.75	M16	43.3	12

Motor[1]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	482.0	503.5	555.0	616.0	591.0	693.0	712.5	756.5	801.5
kB	527.0	558.5	615.0	686.0	661.0	771.5	785.5	861.0	906.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

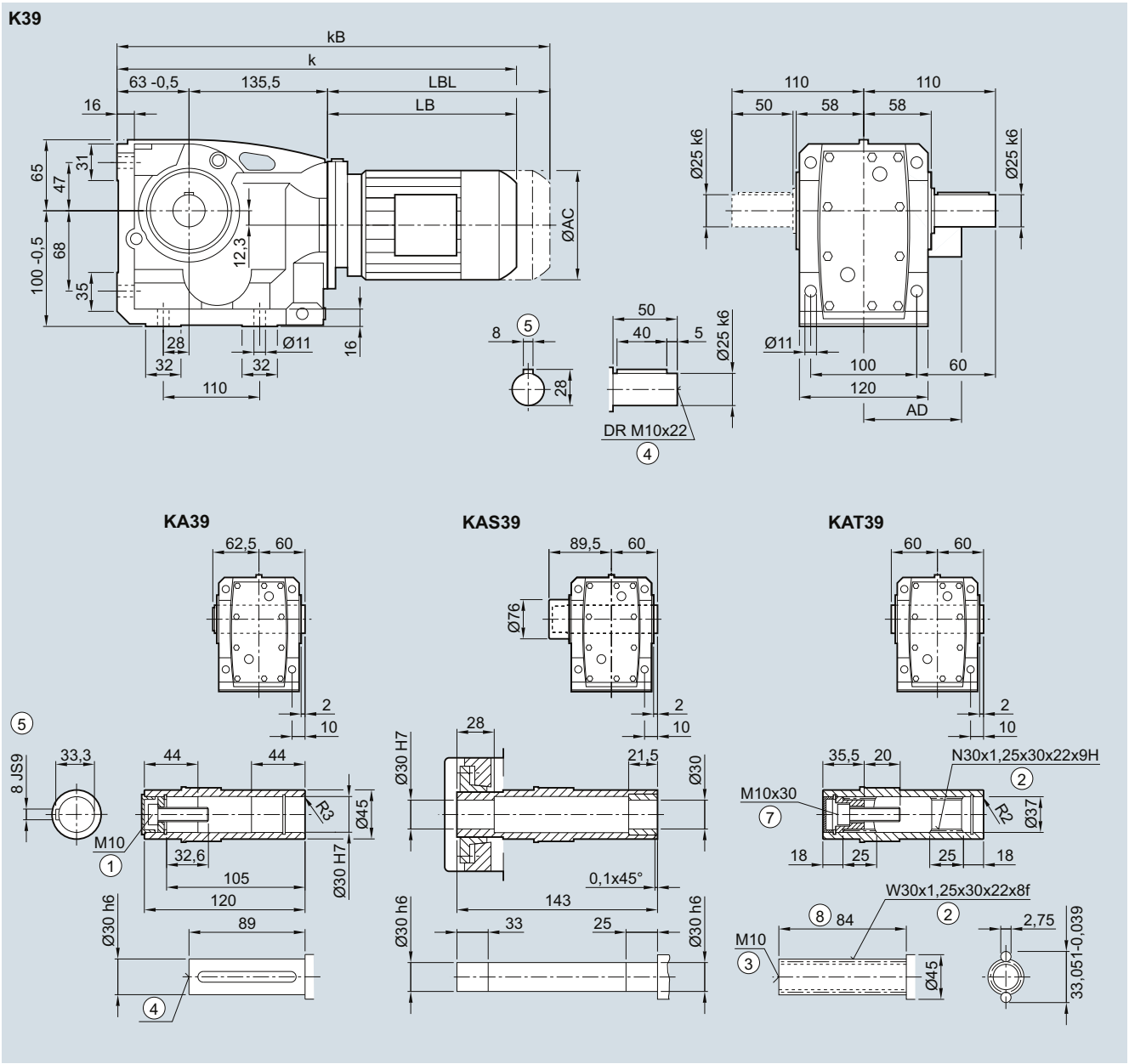
① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K..39 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	411.0	432.5	484.0	545.0	520.0	622.0	641.5
kB	456.0	487.5	544.0	615.0	590.0	700.5	714.5
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

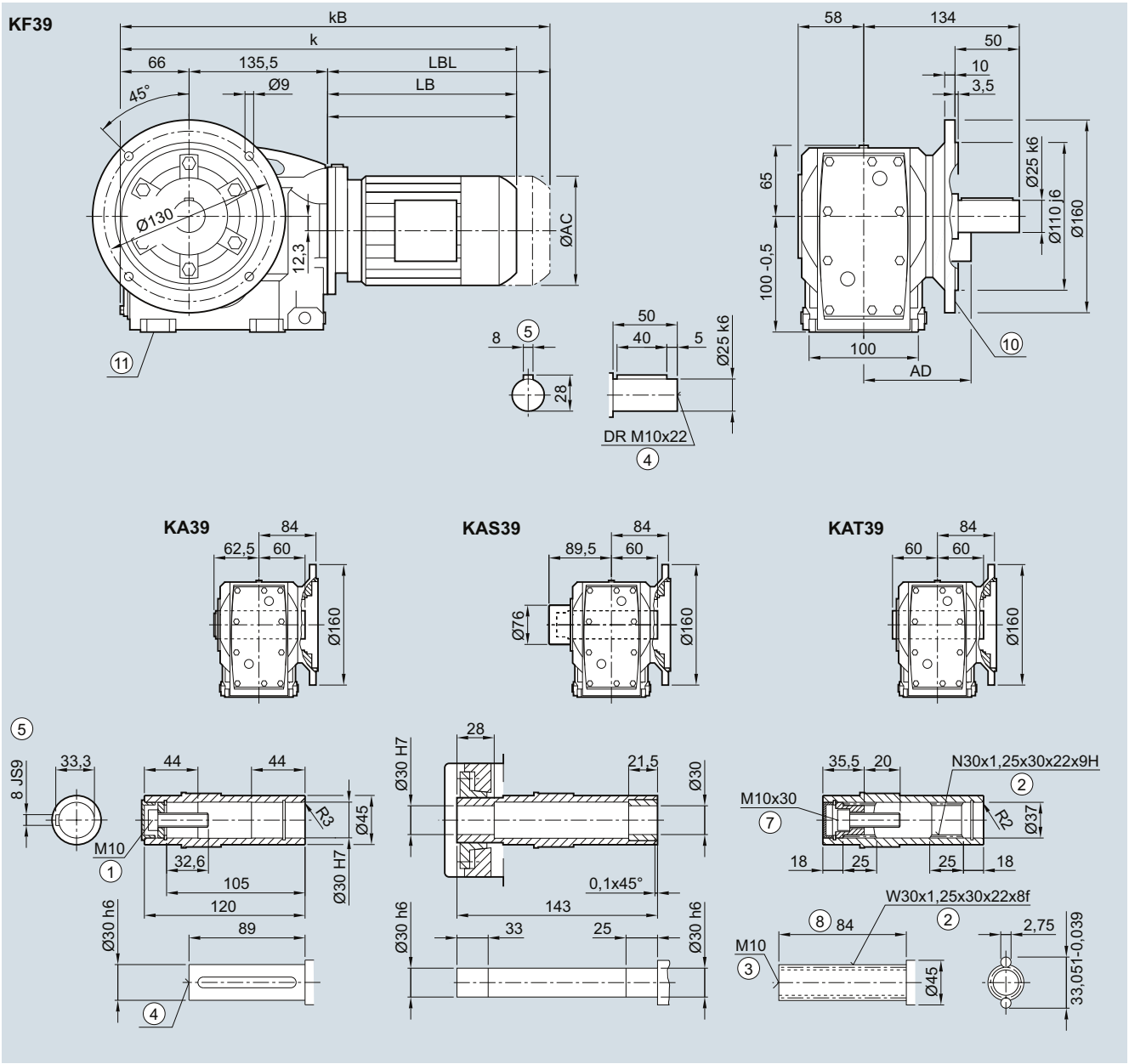
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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K.F.39 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030

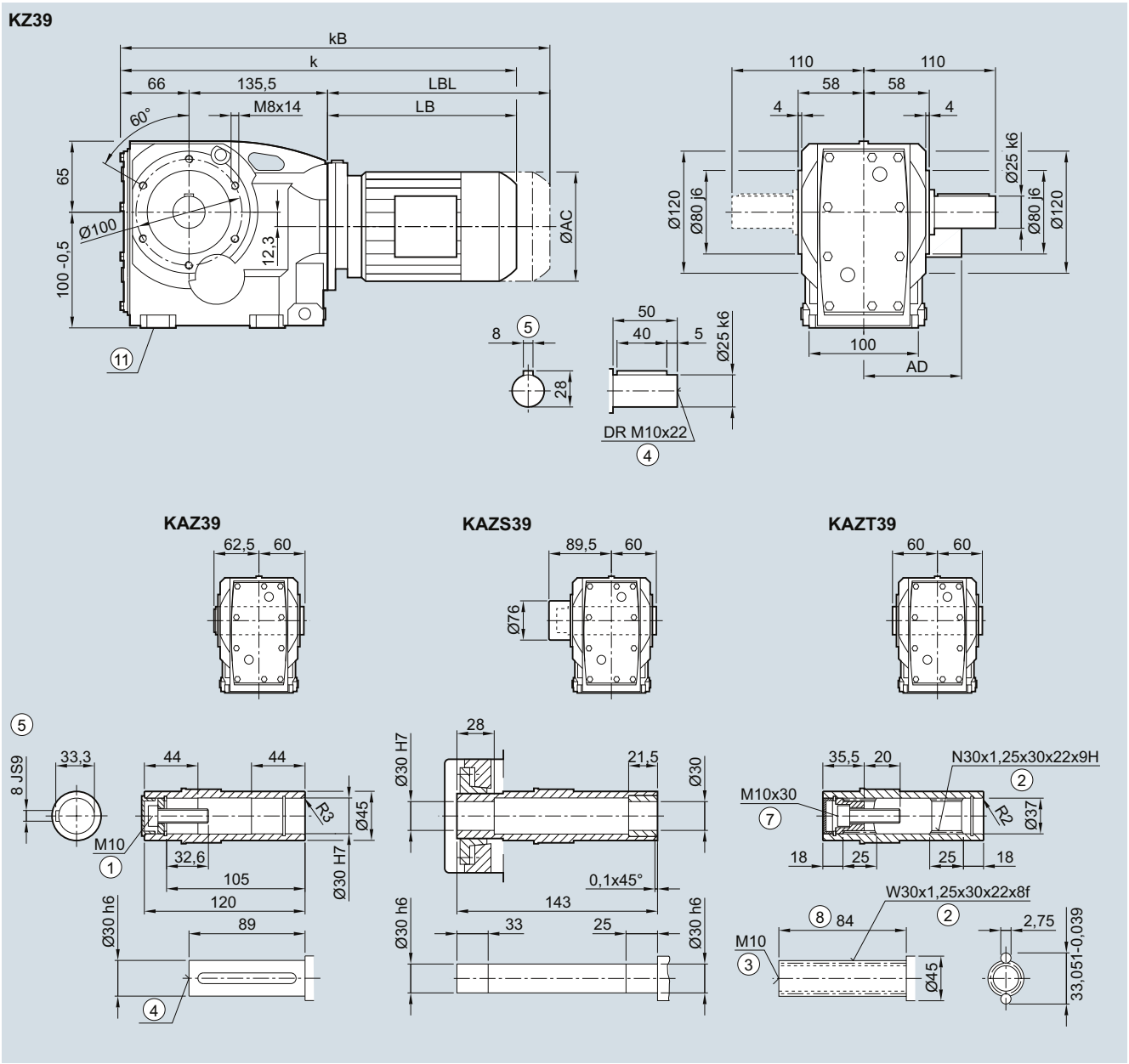


Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	414.0	435.5	487.0	548.0	523.0	625.0	644.5
kB	459.0	490.5	547.0	618.0	593.0	703.5	717.5
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑥ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

K.Z.39 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	414.0	435.5	487.0	548.0	523.0	625.0	644.5
kB	459.0	490.5	547.0	618.0	593.0	703.5	717.5
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

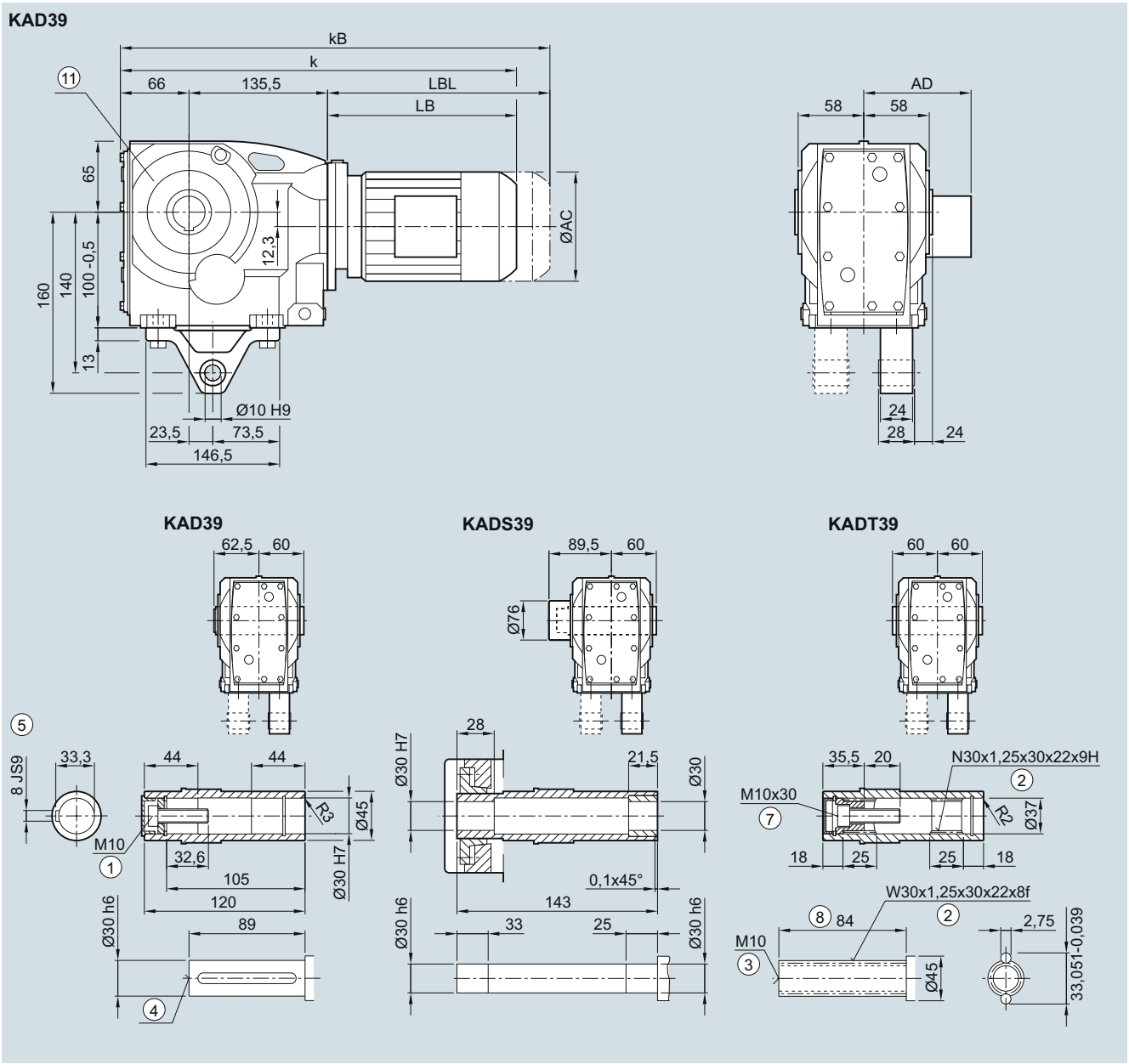
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

KAD.39 gearbox in a shaft-mounted design

KAD031, KADS031, KADT031

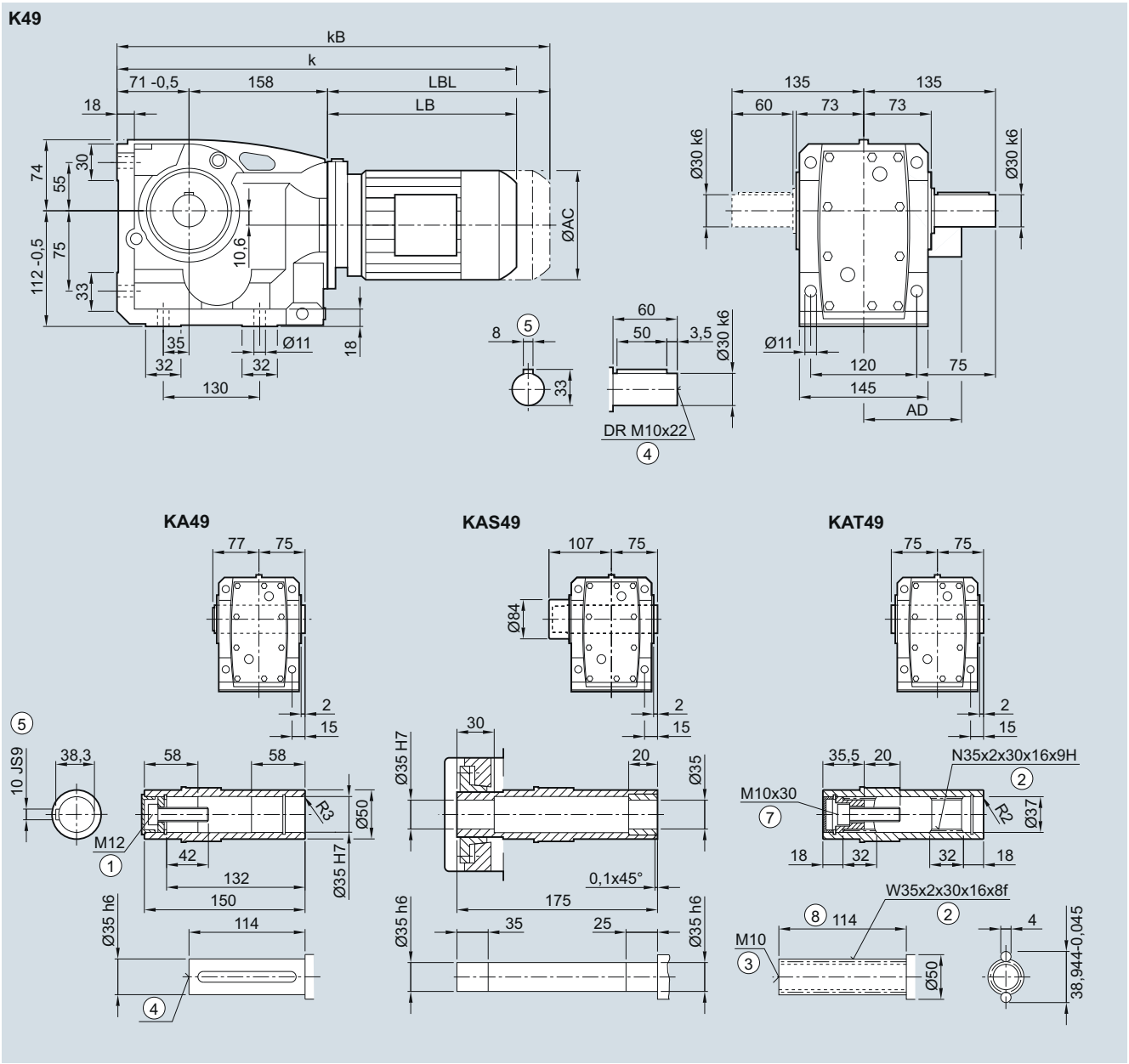


Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	414.0	435.5	487.0	548.0	523.0	625.0	644.5
kB	459.0	490.5	547.0	618.0	593.0	703.5	717.5
LB	212.5	234.0	285.5	346.5	321.5	423.5	443.0
LBL	257.5	289.0	345.5	416.5	391.5	502.0	516.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

K..49 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	432.0	453.5	505.0	566.0	541.0	643.0	662.5	706.5	751.5
kB	477.0	508.5	565.0	636.0	611.0	721.5	735.5	811.0	856.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

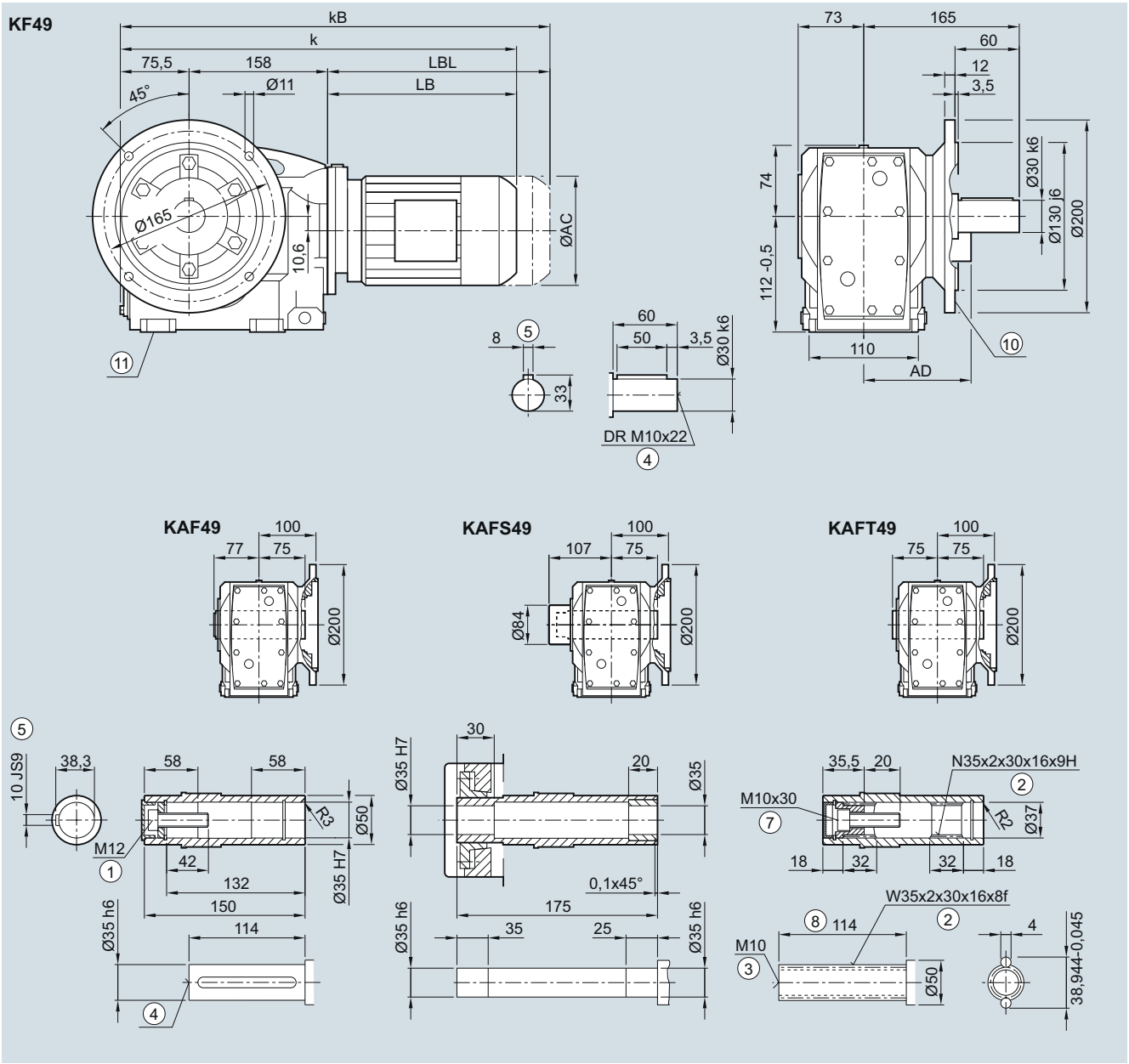
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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K.F.49 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030

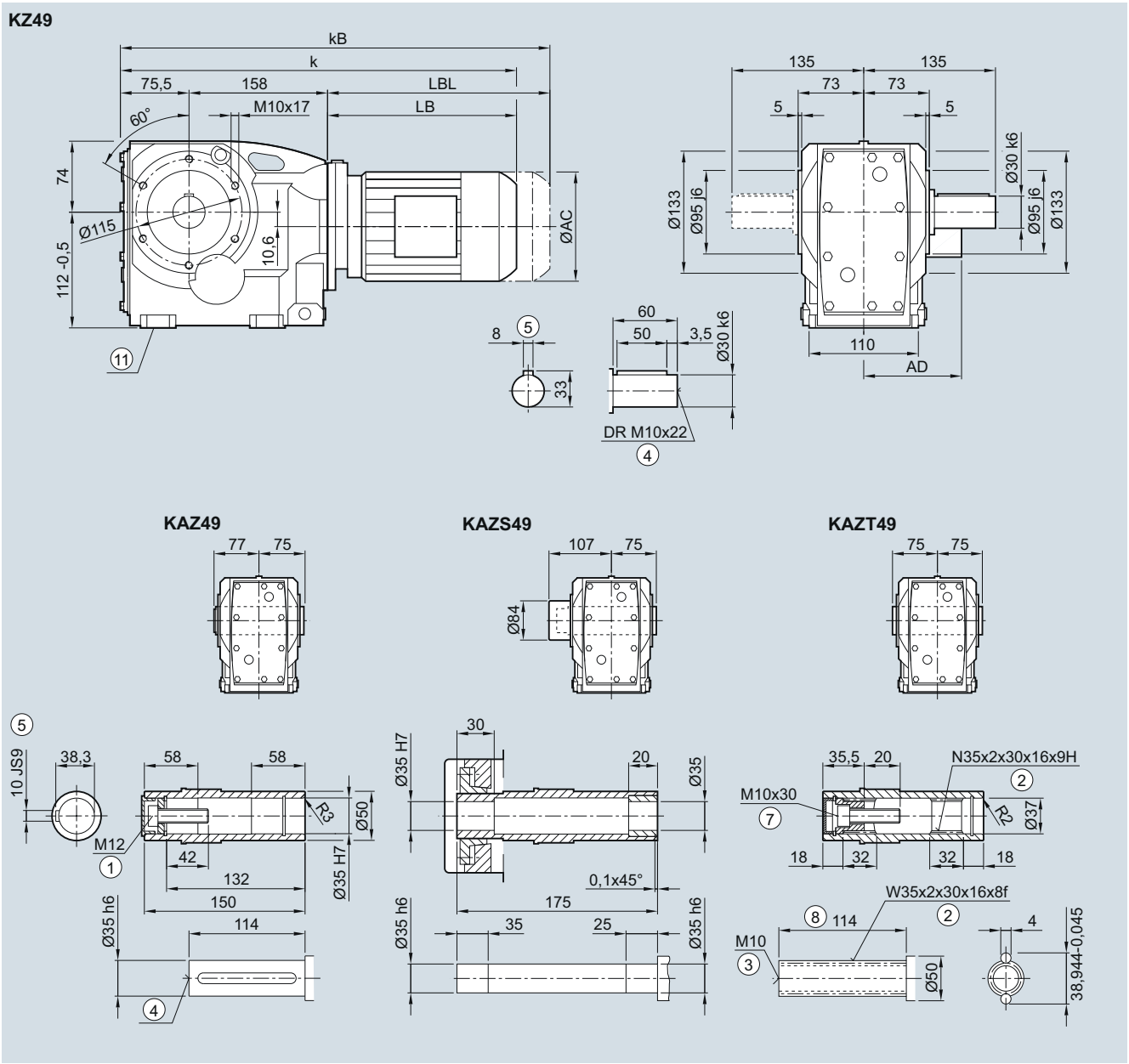


Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	436.5	458.0	509.5	570.5	545.5	647.5	667.0	711.0	756.0
kB	481.5	513.0	569.5	640.5	615.5	726.0	740.0	815.5	860.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

K.Z.49 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	436.5	458.0	509.5	570.5	545.5	647.5	667.0	711.0	756.0
kB	481.5	513.0	569.5	640.5	615.5	726.0	740.0	815.5	860.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

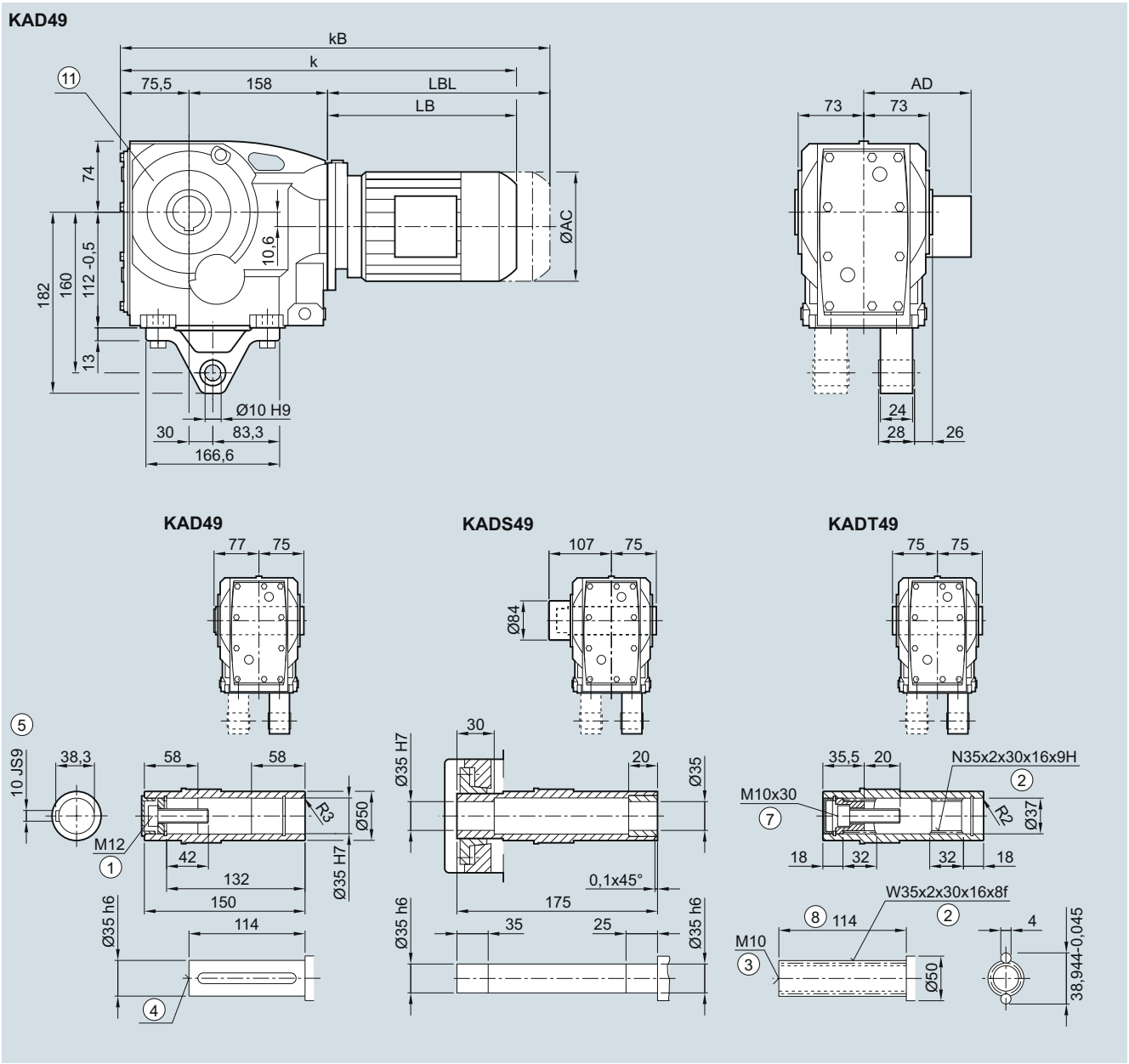
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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KAD.49 gearbox in a shaft-mounted design

KAD031, KADS031, KADT031



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	436.5	458.0	509.5	570.5	545.5	647.5	667.0	711.0	756.0
kB	481.5	513.0	569.5	640.5	615.5	726.0	740.0	815.5	860.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

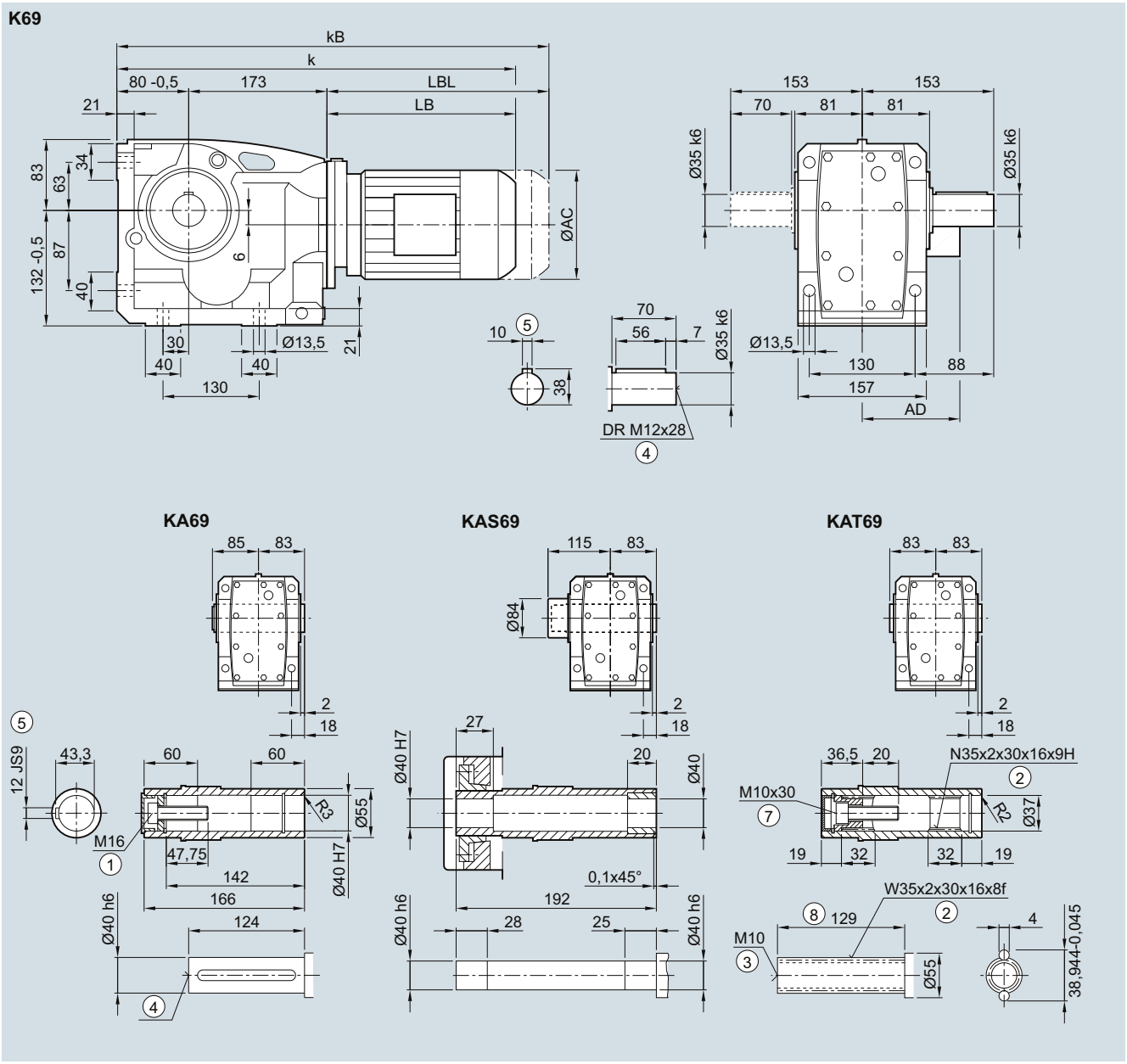
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K..69 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	456.0	477.5	529.0	590.0	565.0	667.0	686.5	730.5	775.5
kB	501.0	532.5	589.0	660.0	635.0	745.5	759.5	835.0	880.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

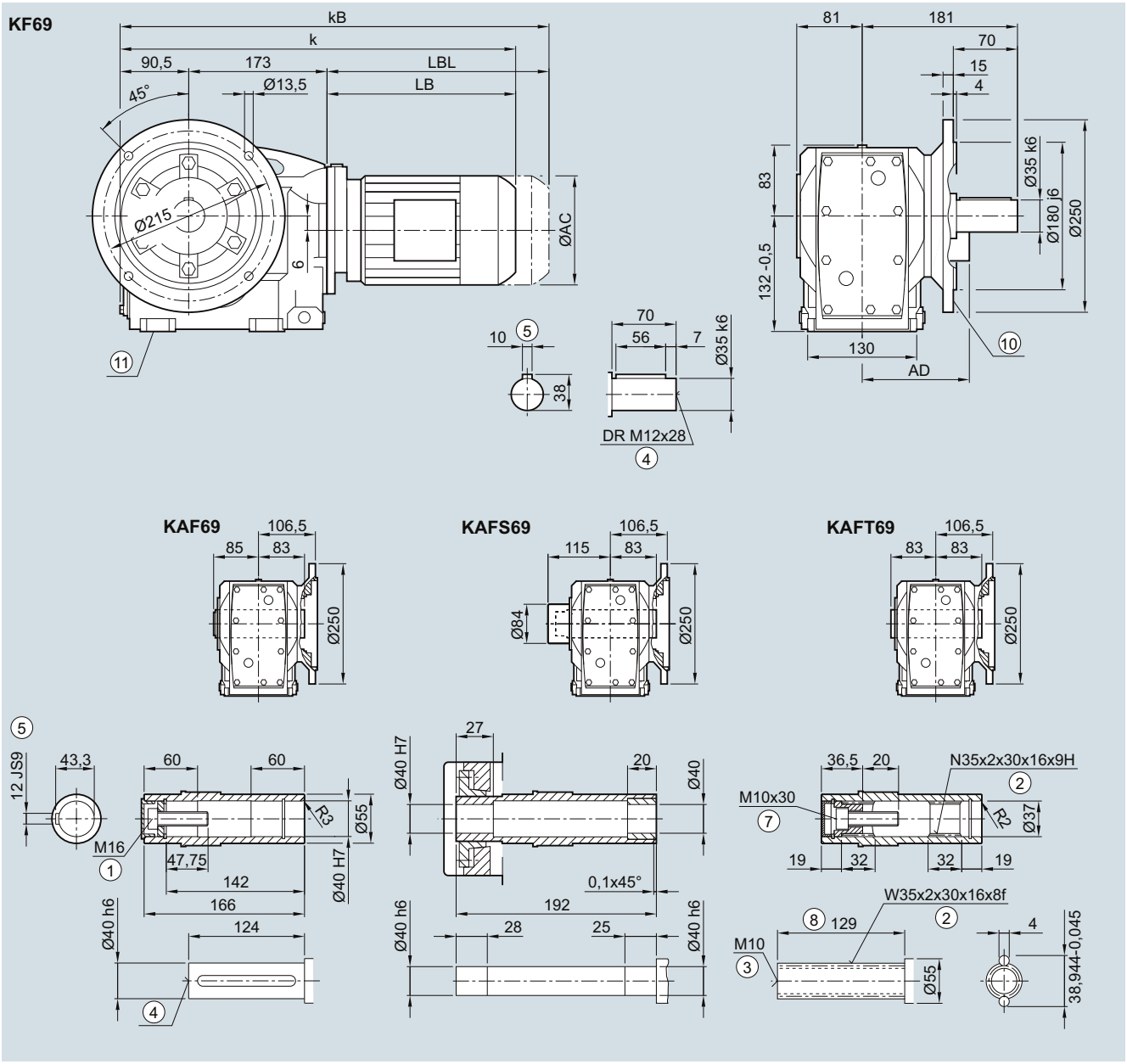
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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K.F.69 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030

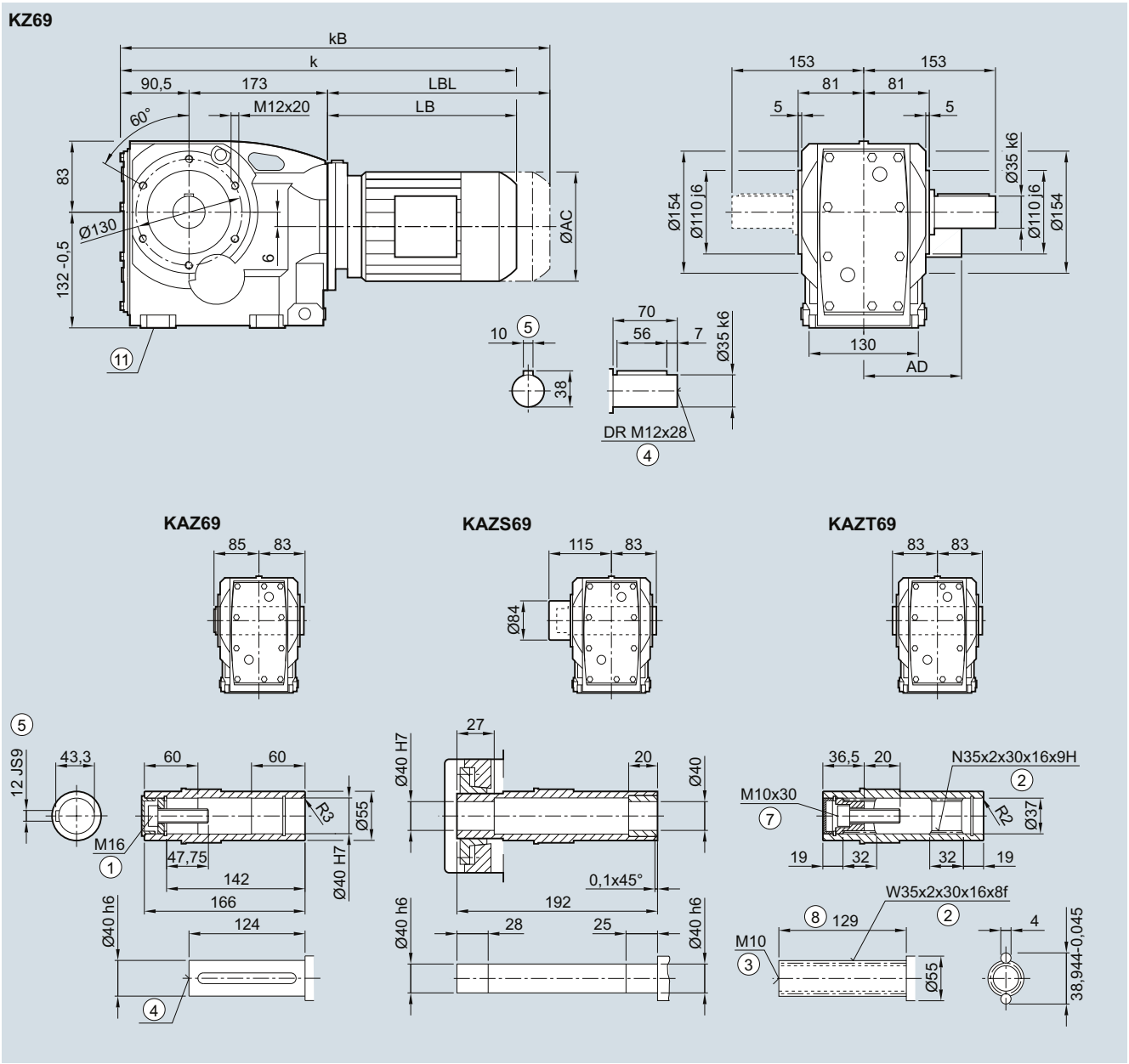


Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	466.5	488.0	539.5	600.5	575.5	677.5	697.0	741.0	786.0
kB	511.5	543.0	599.5	670.5	645.5	756.0	770.0	845.5	890.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

K.Z.69 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	466.5	488.0	539.5	600.5	575.5	677.5	697.0	741.0	786.0
kB	511.5	543.0	599.5	670.5	645.5	756.0	770.0	845.5	890.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

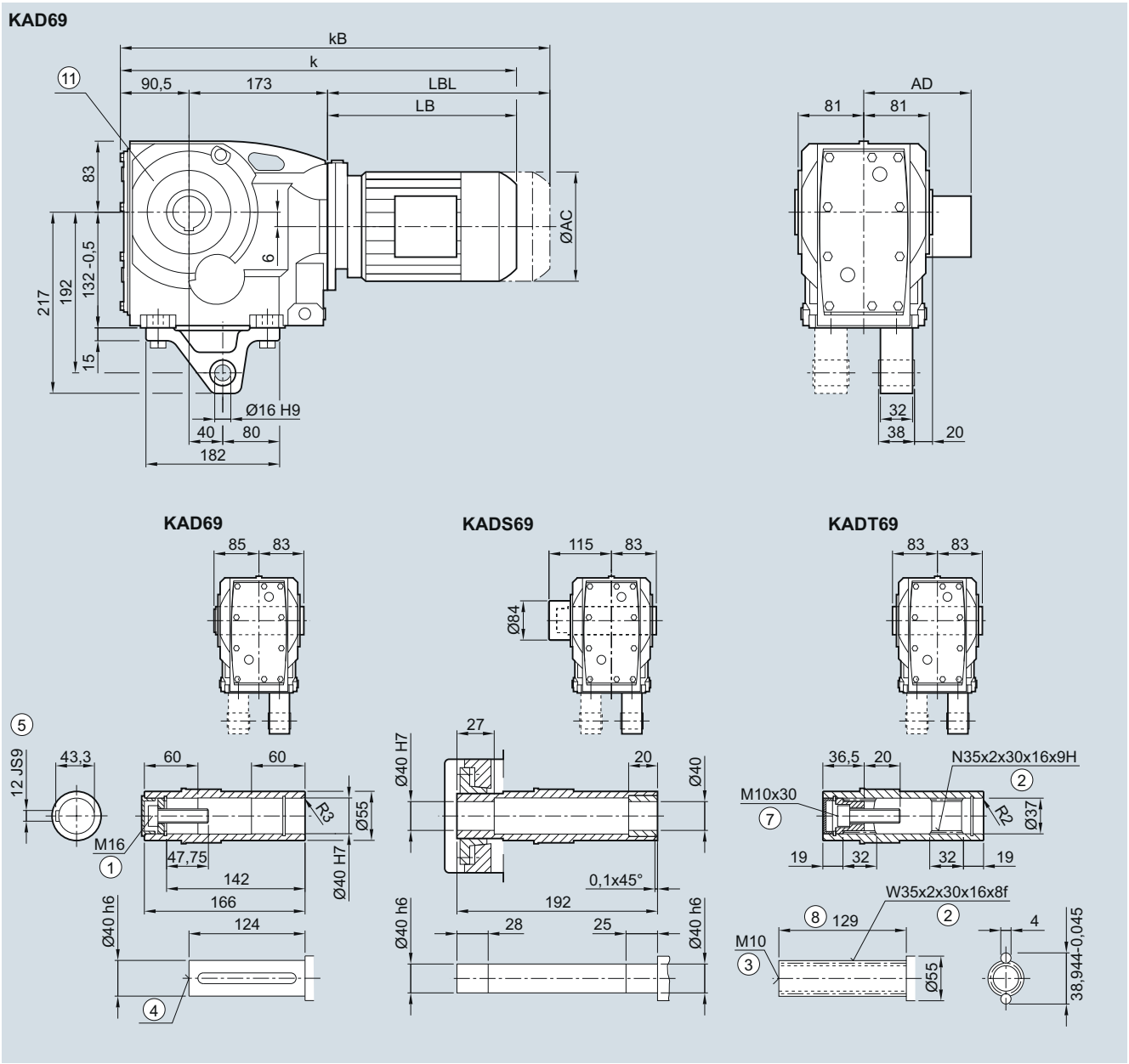
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends onions, for other dimensions see page 7/20.

5

KAD.69 gearbox in a shaft-mounted design

KAD030, KADS030, KADT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	466.5	488.0	539.5	600.5	575.5	677.5	697.0	741.0	786.0
kB	511.5	543.0	599.5	670.5	645.5	756.0	770.0	845.5	890.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

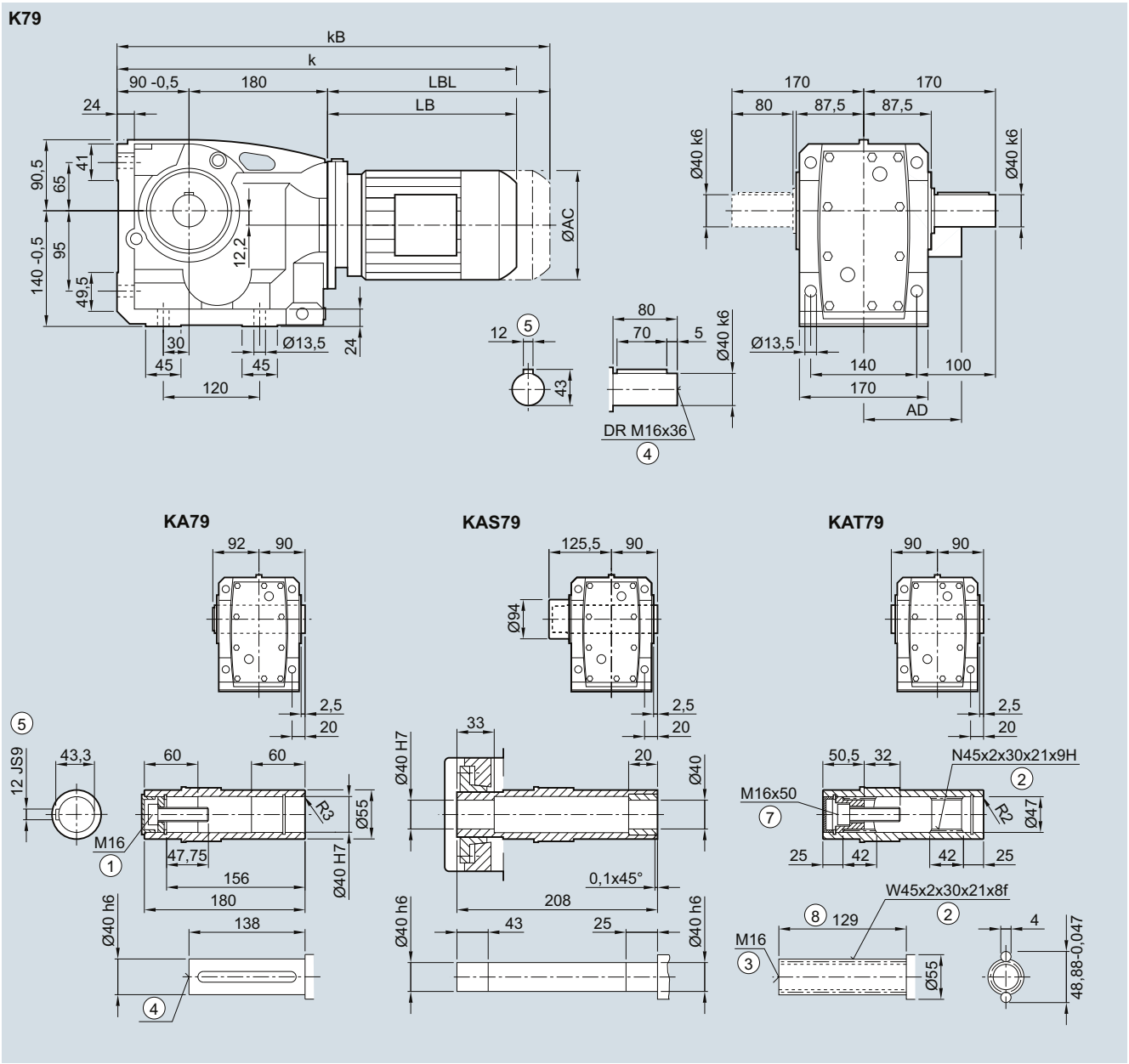
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K..79 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	473.0	494.5	546.0	607.0	582.0	684.0	703.5	747.5	792.5
kB	518.0	549.5	606.0	677.0	652.0	762.5	776.5	852.0	897.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

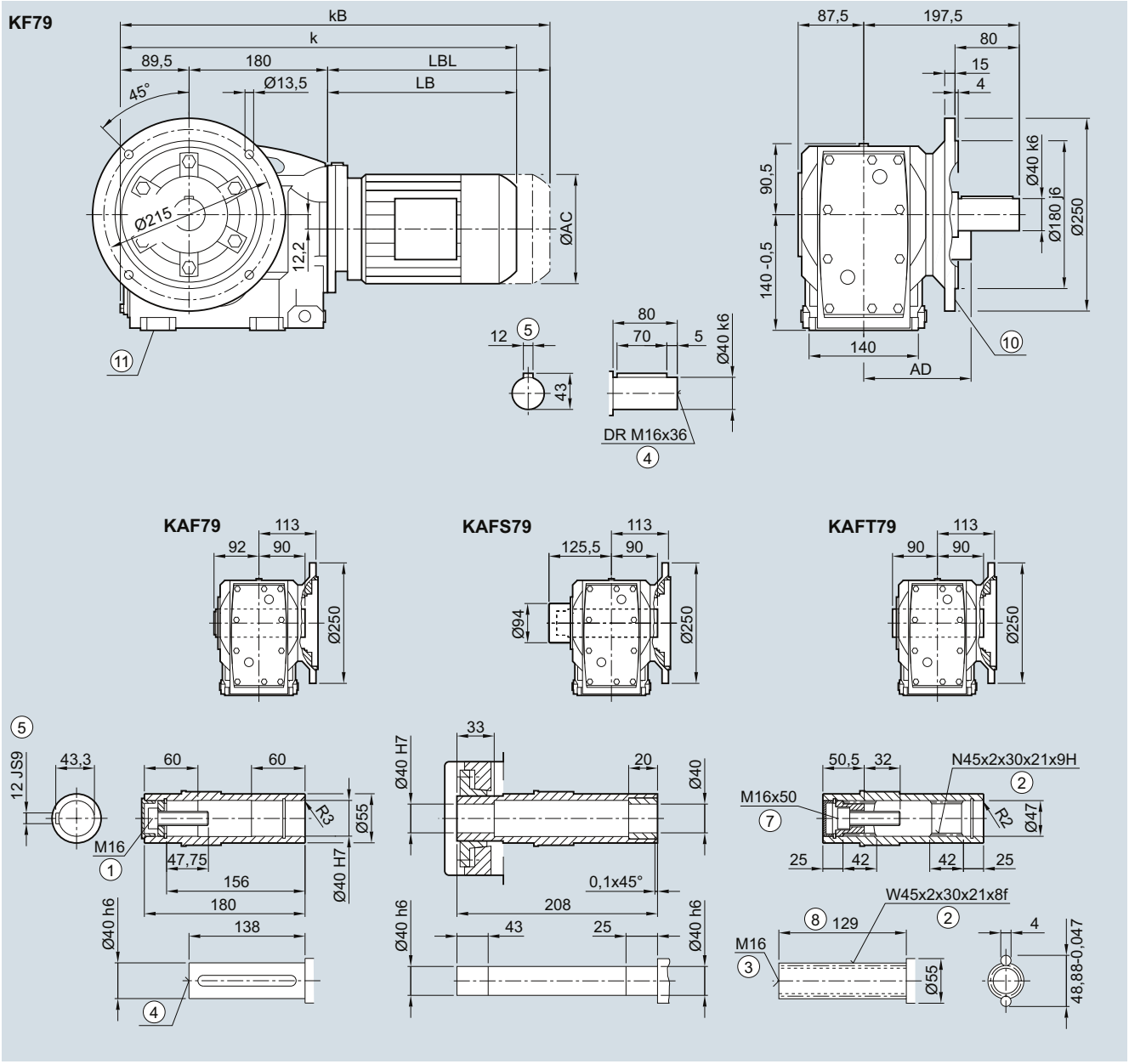
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

5

K.F.79 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030

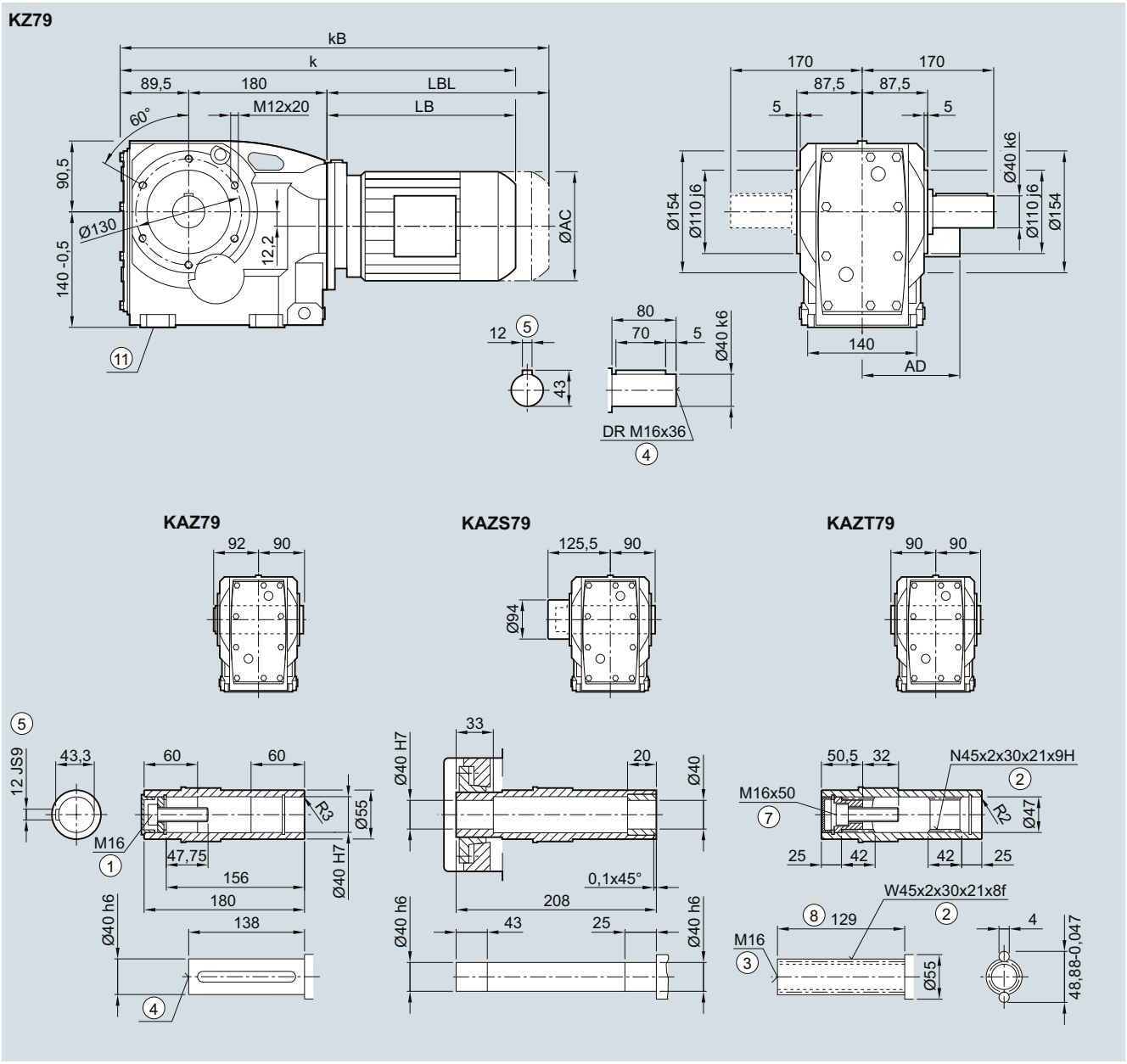


Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	472.5	494.0	545.5	606.5	581.5	683.5	703.0	747.0	792.0
kB	517.5	549.0	605.5	676.5	651.5	762.0	776.0	851.5	896.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

K.Z.79 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	472.5	494.0	545.5	606.5	581.5	683.5	703.0	747.0	792.0
kB	517.5	549.0	605.5	676.5	651.5	762.0	776.0	851.5	896.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

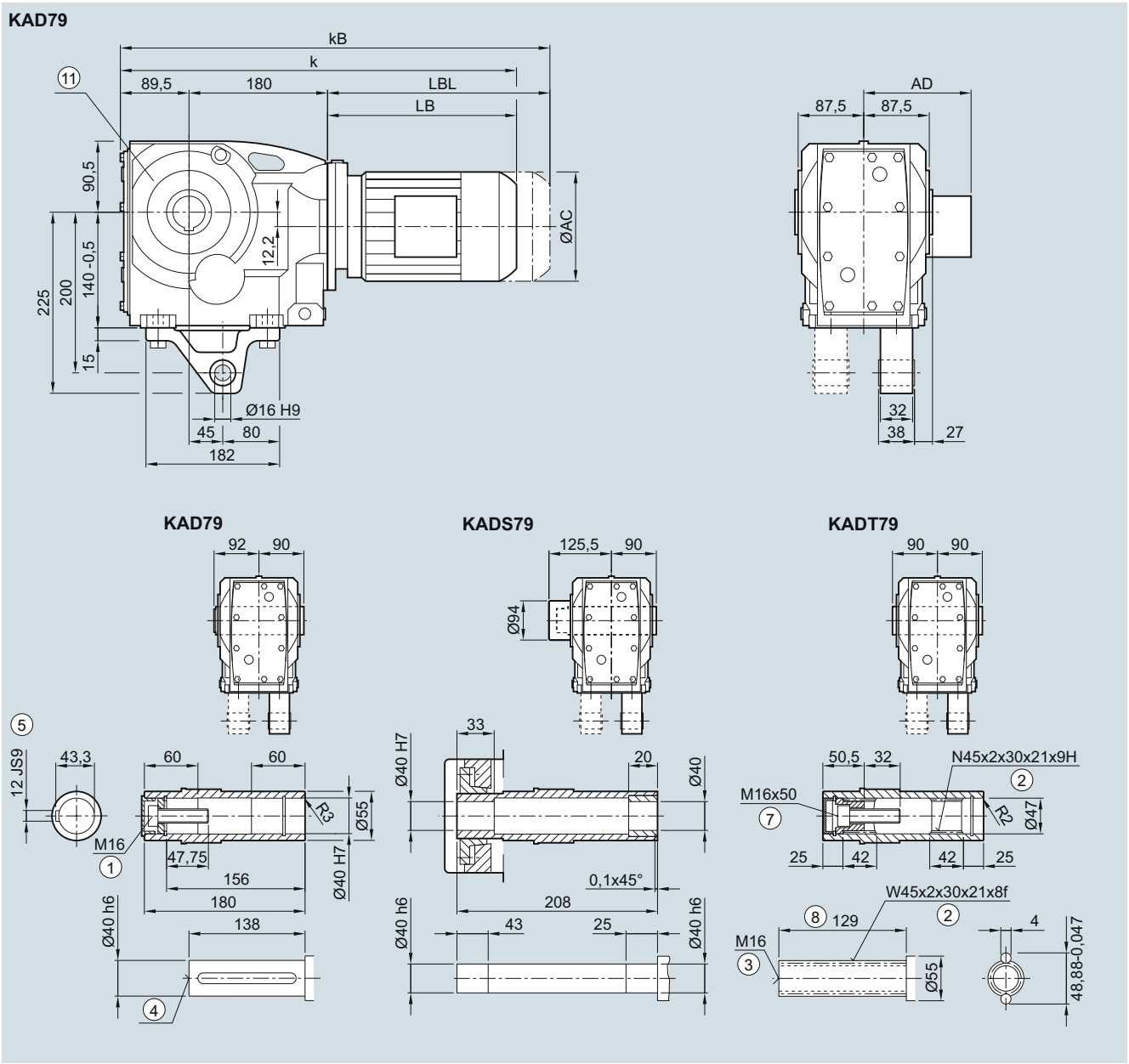
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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KAD.79 gearbox in a shaft-mounted design

KAD030, KADS030, KADT030



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	472.5	494.0	545.5	606.5	581.5	683.5	703.0	747.0	792.0
kB	517.5	549.0	605.5	676.5	651.5	762.0	776.0	851.5	896.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

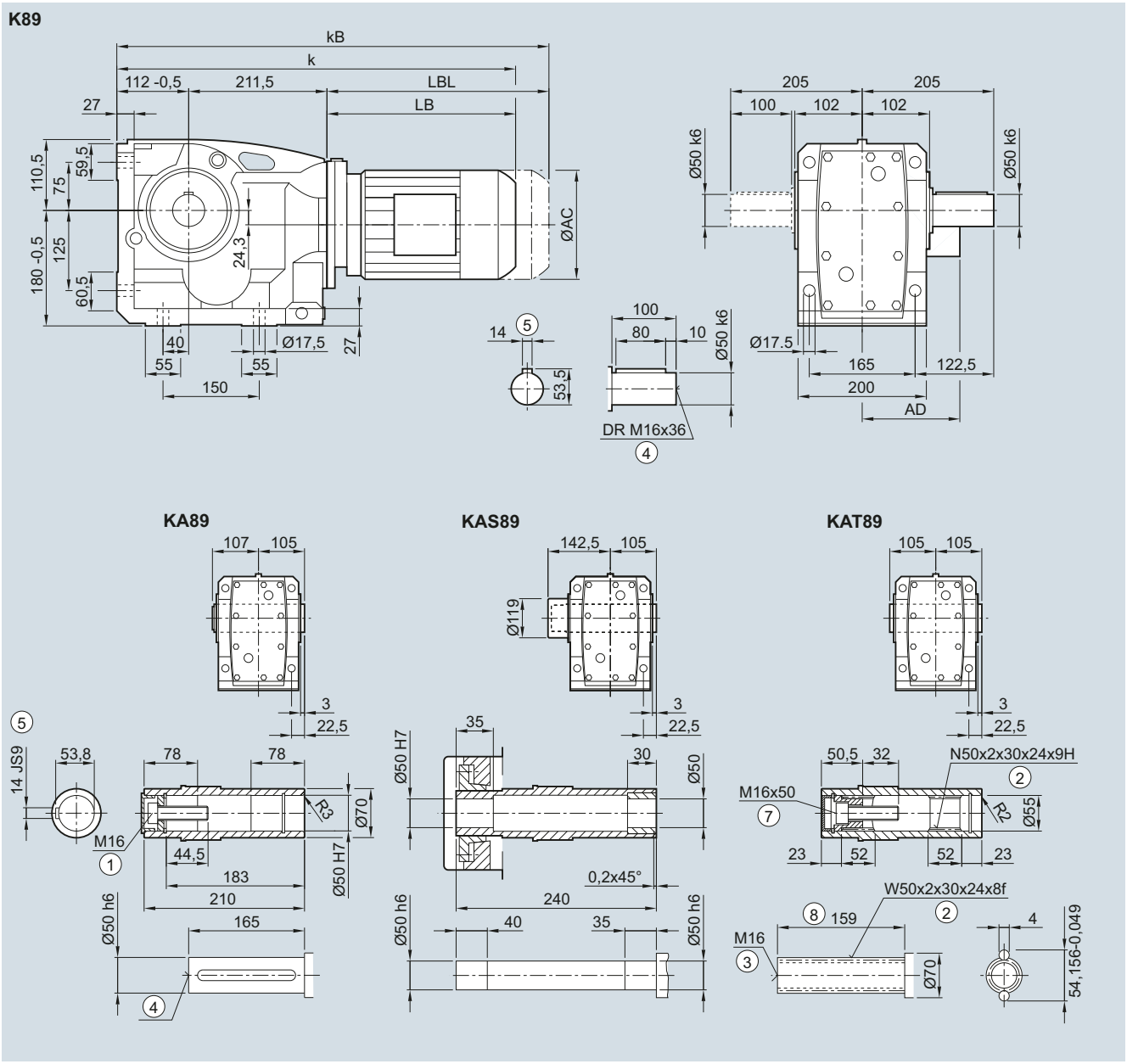
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K..89 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	546.0	593.5	654.5	629.5	731.5	751.0	795.0	840.0	880.0	940.0
kB	601.0	653.5	724.5	699.5	810.0	824.0	899.5	944.5	996.0	1 056.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑩ Without locating shoulder +1 mm

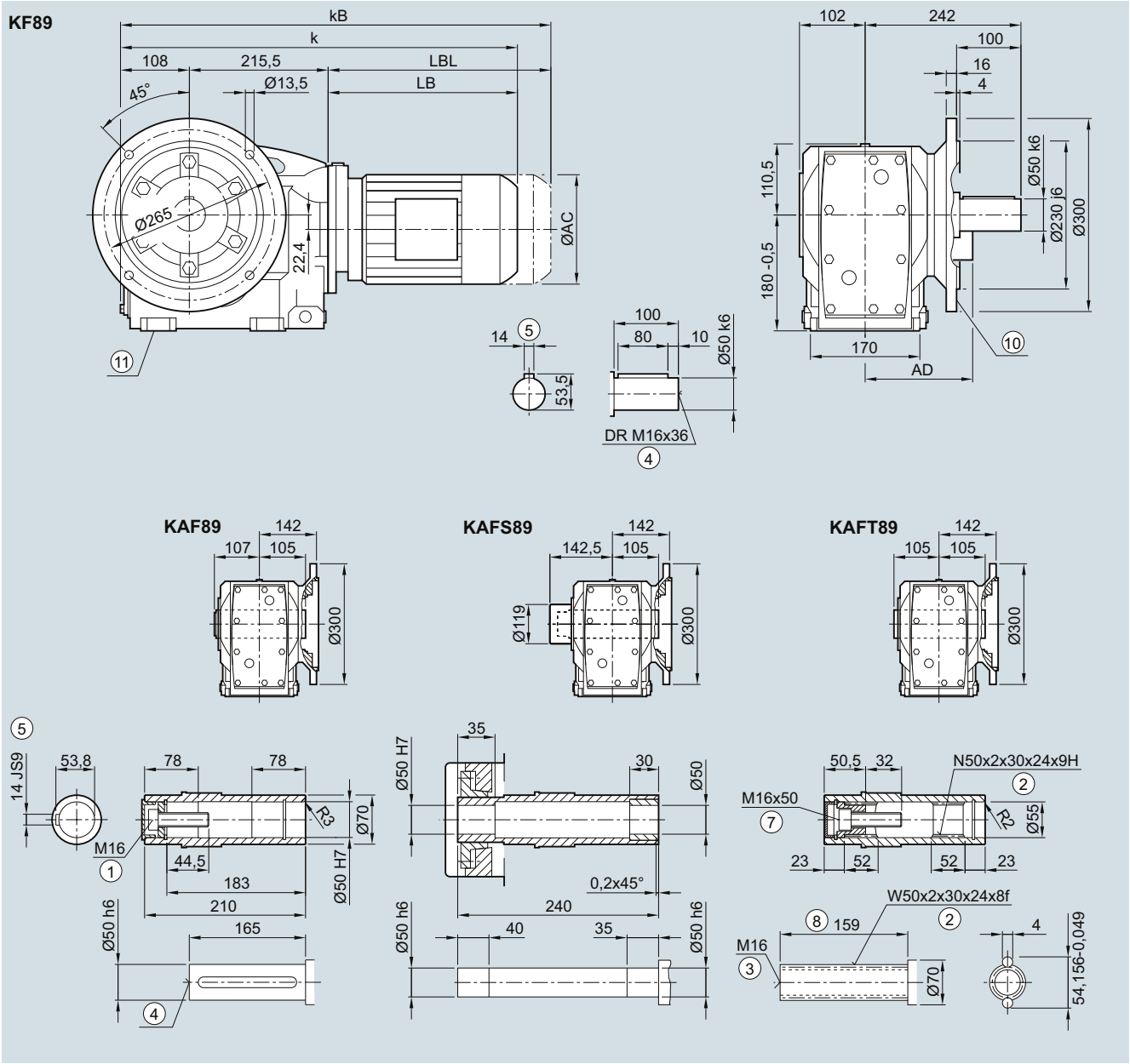
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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K.F.89 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030

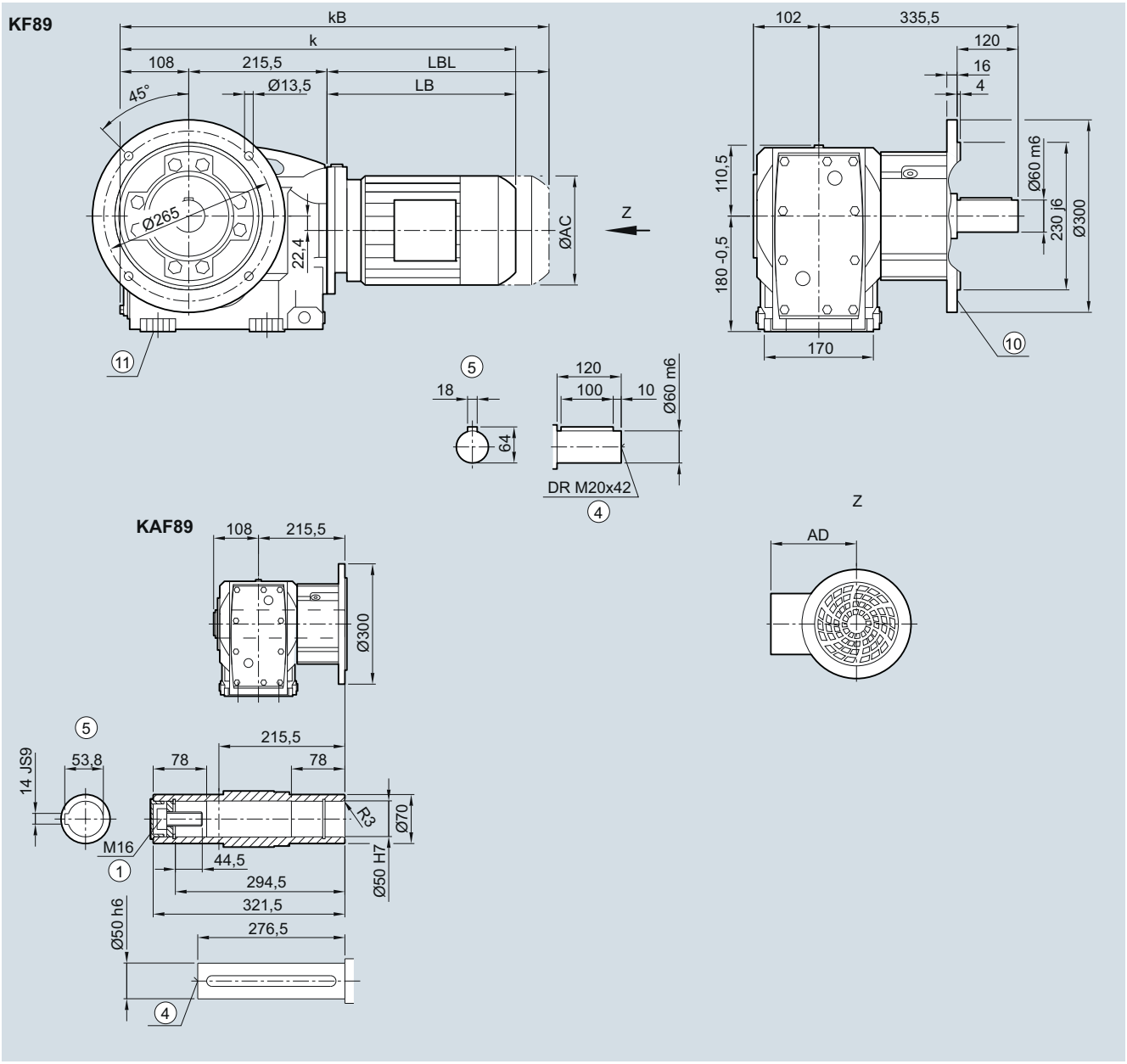


Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	546.0	593.5	654.5	629.5	731.5	751.0	795.0	840.0	880.0	940.0
kB	601.0	653.5	724.5	699.5	810.0	824.0	899.5	944.5	996.0	1 056.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

K.F.89 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

KF040, KAF040



Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	546.0	593.5	654.5	629.5	731.5	751.0	795.0	840.0	880.0	940.0
kB	601.0	653.5	724.5	699.5	810.0	824.0	899.5	944.5	996.0	1 056.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

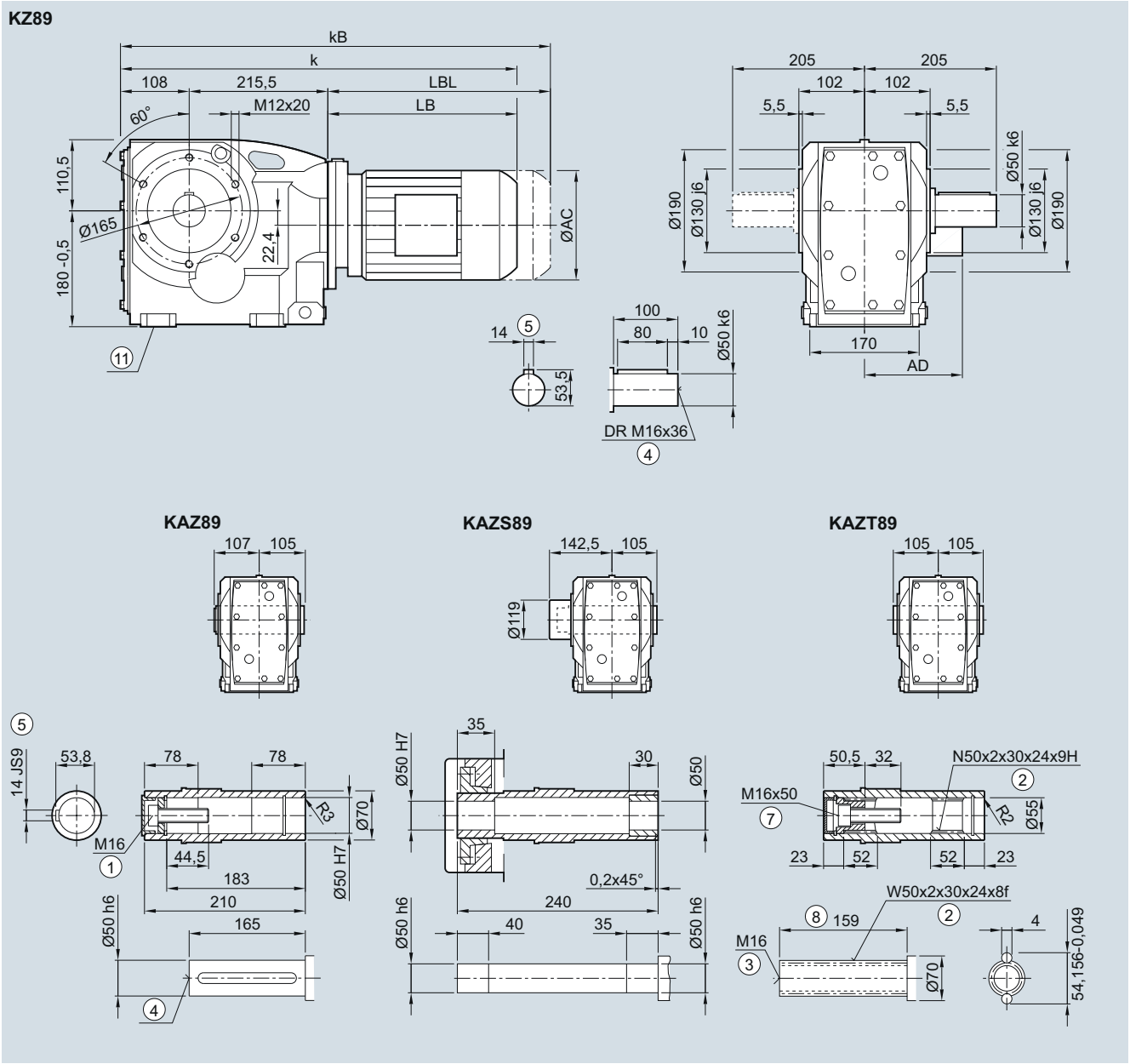
⑩ For inner contour see page 5/232

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K.Z.89 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	546.0	593.5	654.5	629.5	731.5	751.0	795.0	840.0	880.0	940.0
kB	601.0	653.5	724.5	699.5	810.0	824.0	899.5	944.5	996.0	1 056.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

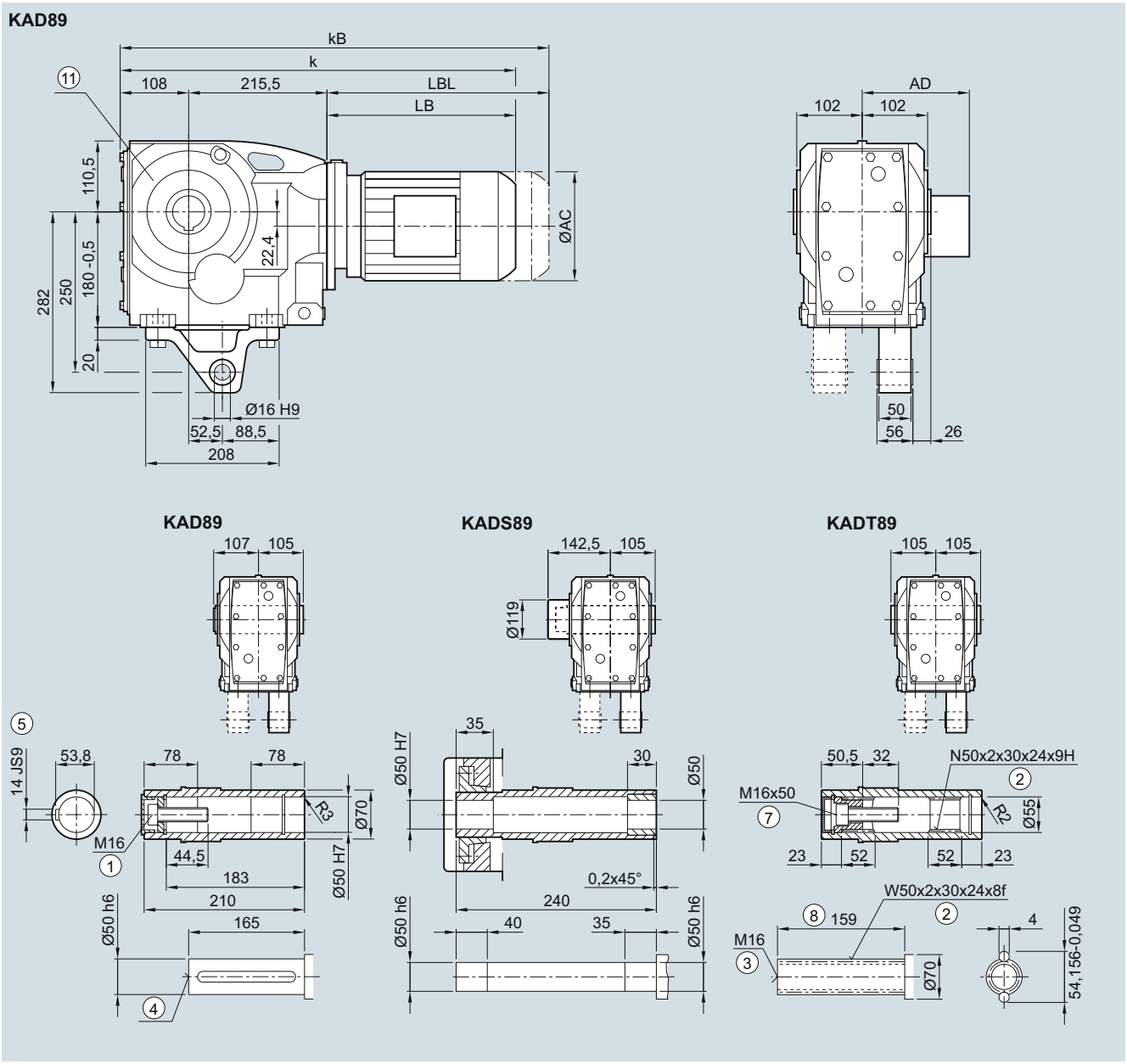
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

KAD.89 gearbox in a shaft-mounted design

KAD031, KADS031, KADT031



Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0
k	546.0	593.5	654.5	629.5	731.5	751.0	795.0	840.0	880.0	940.0
kB	601.0	653.5	724.5	699.5	810.0	824.0	899.5	944.5	996.0	1 056.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5	556.5	616.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0	672.5	732.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

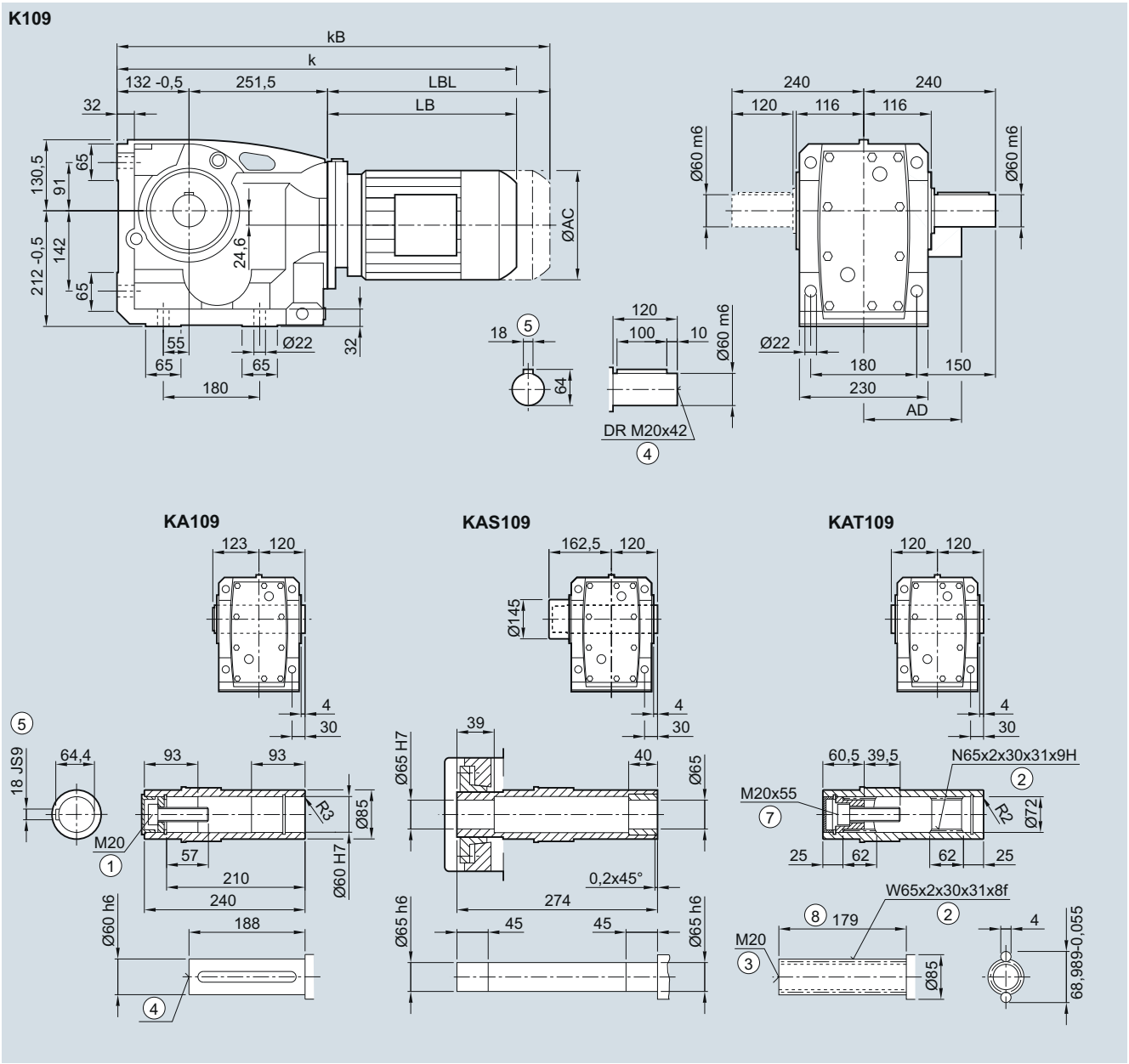
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

Dimensions

K..109 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	640.5	701.5	676.5	774.5	794.0	838.0	883.0	923.0	983.0	1 002.5	1 032.5
kB	700.5	771.5	746.5	853.0	867.0	942.5	987.5	1 039.0	1 099.0	1 131.5	1 161.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

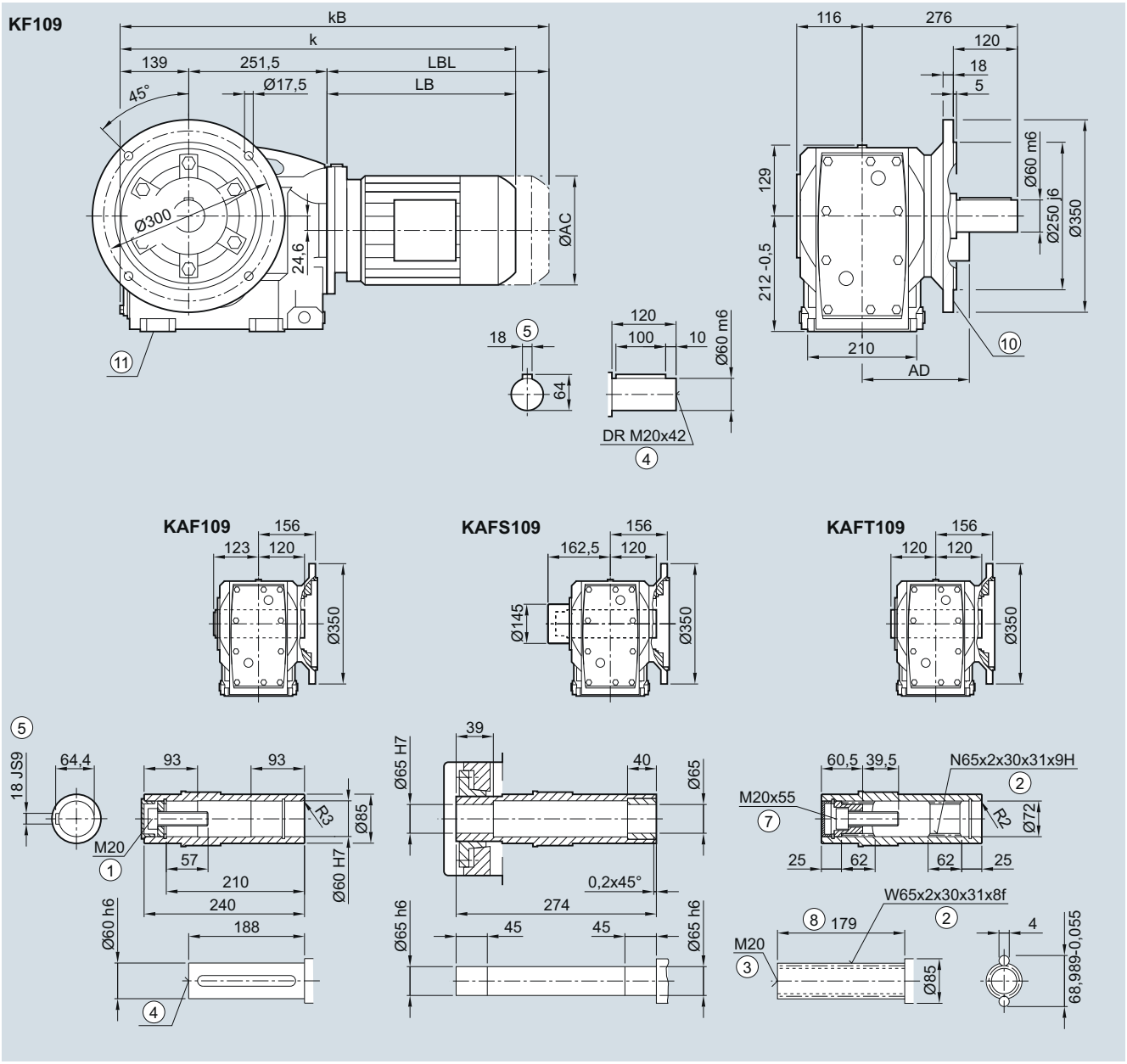
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K.F.109 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030



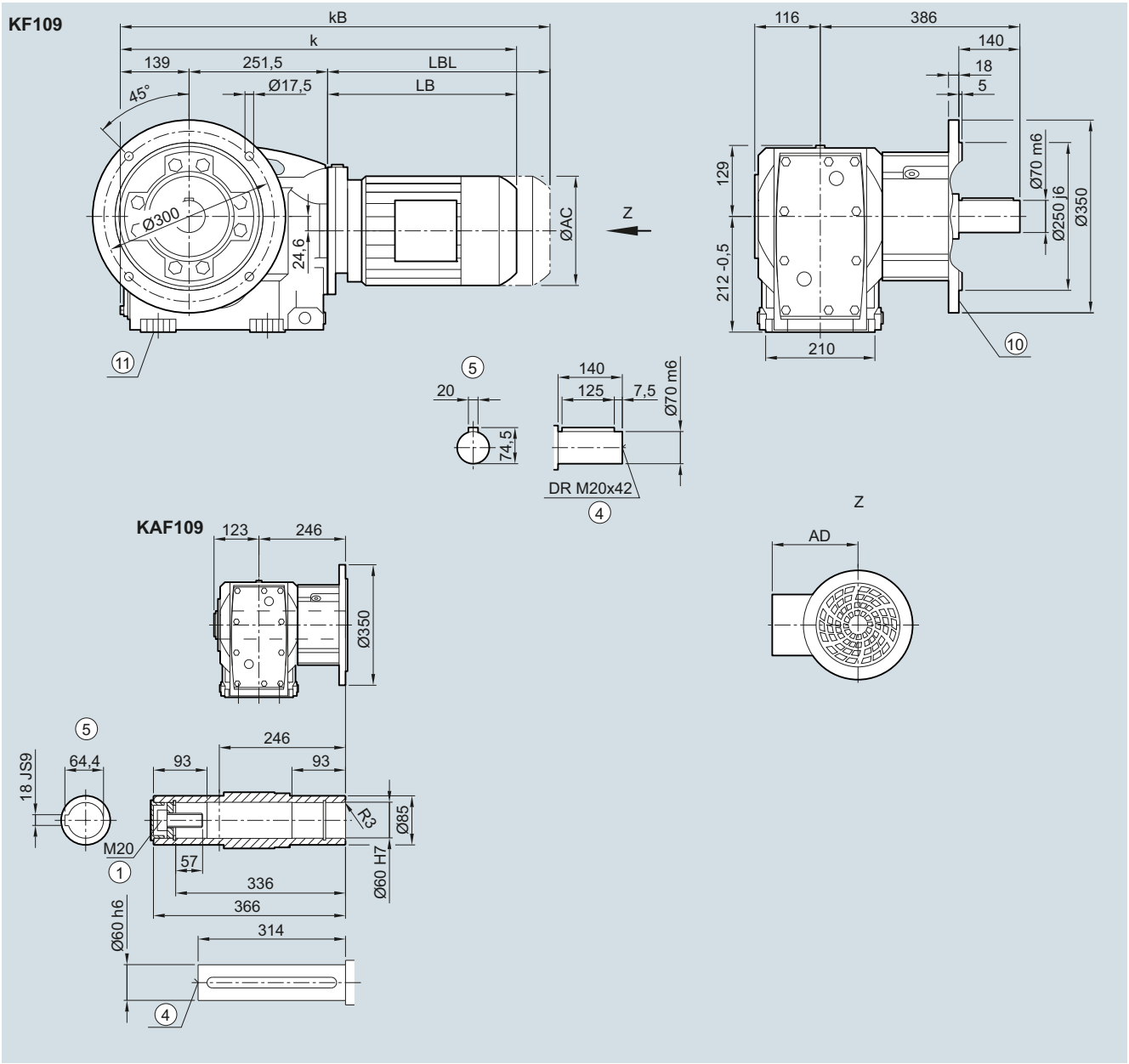
Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	647.5	708.5	683.5	781.5	801.0	845.0	890.0	930.0	990.0	1 009.5	1 039.5
kB	707.5	778.5	753.5	860.0	874.0	949.5	994.5	1 046.0	1 106.0	1 138.5	1 168.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

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K.F.109 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

KF040, KAF040



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	647.5	708.5	683.5	781.5	801.0	845.0	890.0	930.0	990.0	1 009.5	1 039.5
kB	707.5	778.5	753.5	860.0	874.0	949.5	994.5	1 046.0	1 106.0	1 138.5	1 168.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

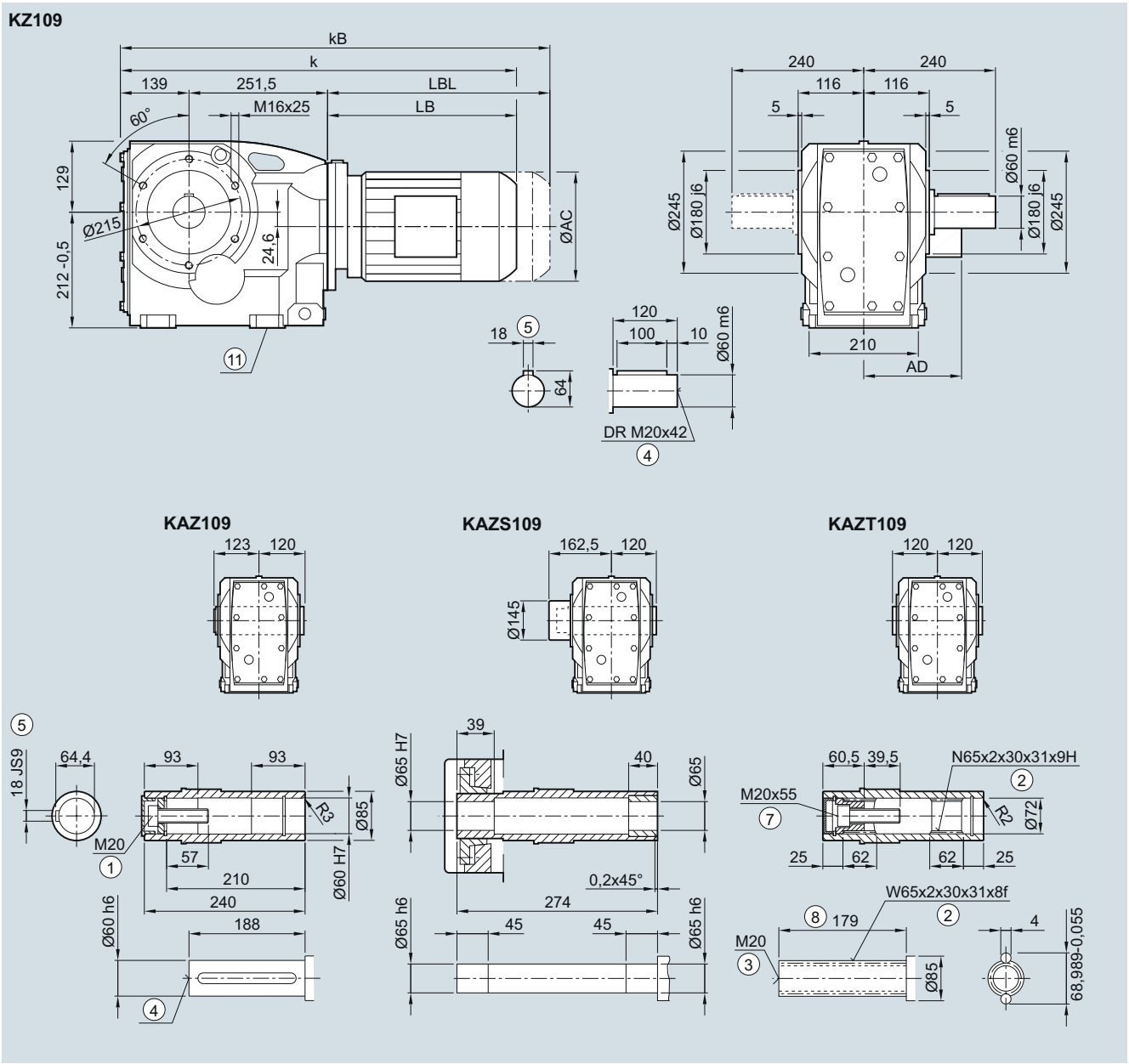
⑩ For inner contour see page 5/232

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K.Z.109 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	647.5	708.5	683.5	781.5	801.0	845.0	890.0	930.0	990.0	1 009.5	1 039.5
kB	707.5	778.5	753.5	860.0	874.0	949.5	994.5	1 046.0	1 106.0	1 138.5	1 168.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

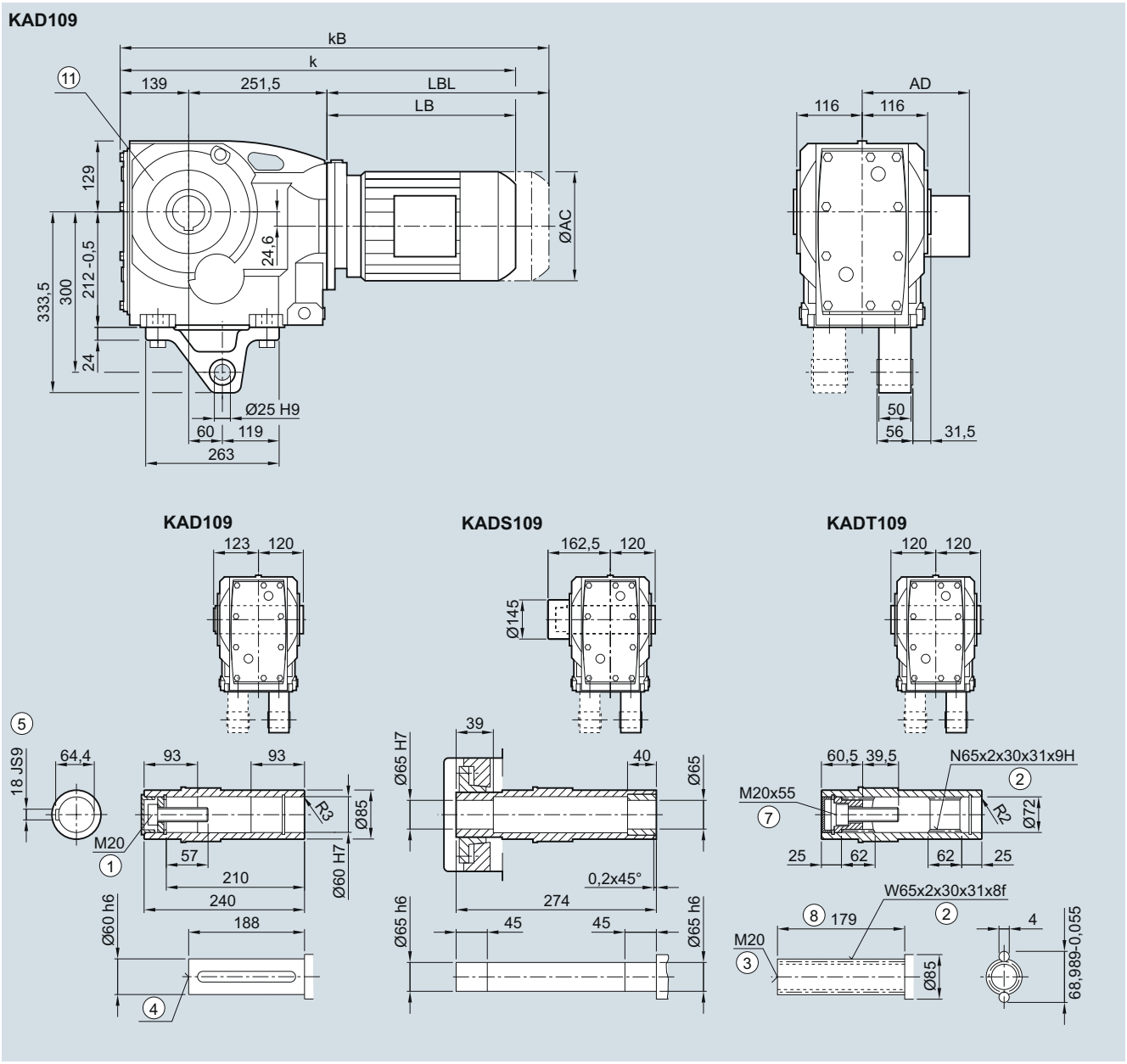
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

5

KAD.109 gearbox in a shaft-mounted design

KAD030, KADS030, KADT030



Motor[1)]	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L
AC	154.5	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0
AD[2)]	145.5	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5
k	647.5	708.5	683.5	781.5	801.0	845.0	890.0	930.0	990.0	1 009.5	1 039.5
kB	707.5	778.5	753.5	860.0	874.0	949.5	994.5	1 046.0	1 106.0	1 138.5	1 168.5
LB	257.0	318.0	293.0	391.0	410.5	454.5	499.5	539.5	599.5	619.0	649.0
LBL	317.0	388.0	363.0	469.5	483.5	559.0	604.0	655.5	715.5	748.0	778.0

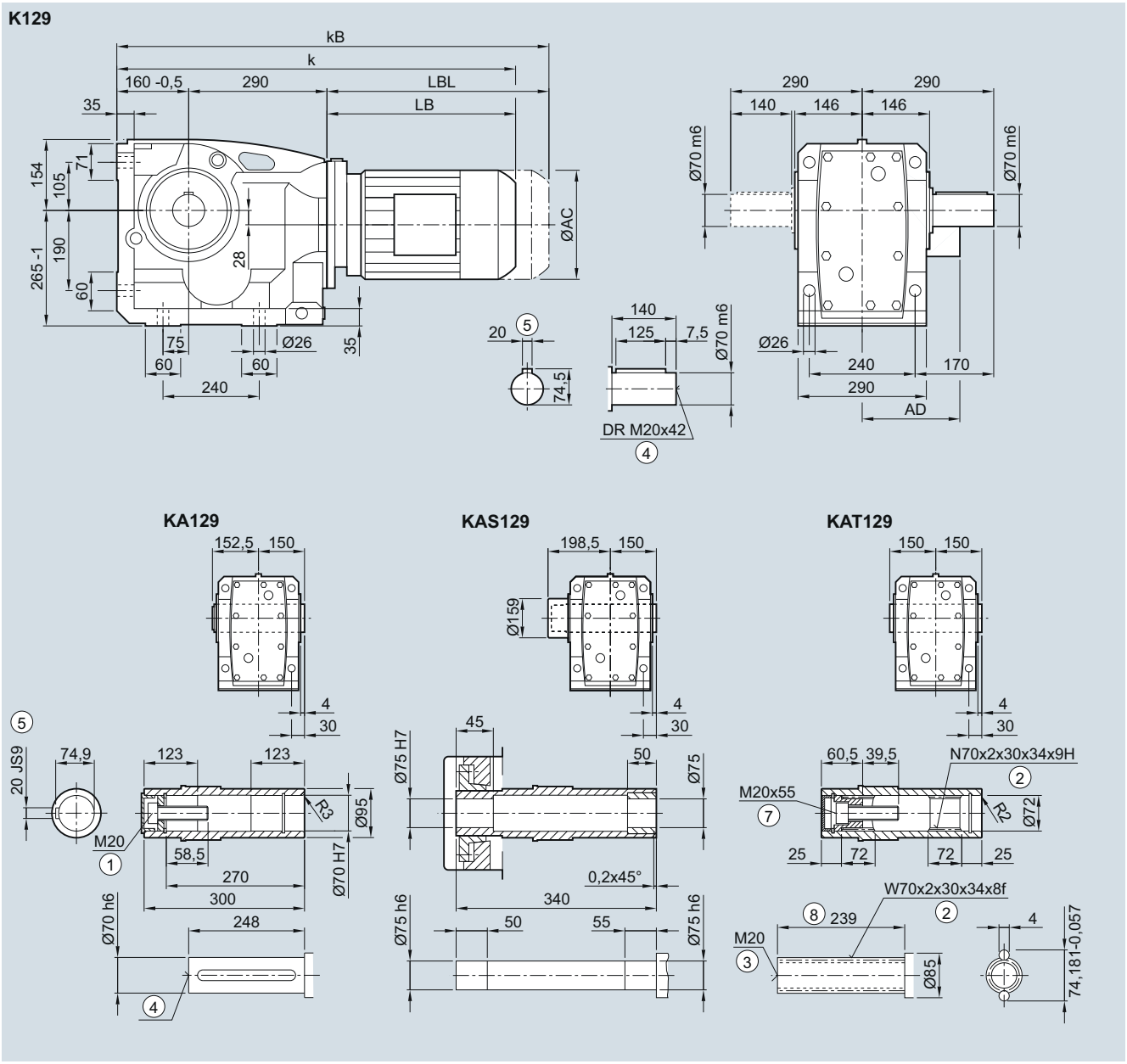
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K..129 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	761.0	736.0	832.0	851.5	895.5	940.5	980.5	1 040.5	1 060.0	1 090.0	1 163.5	1 209.0
kB	831.0	806.0	910.5	924.5	1 000.0	1 045.0	1 096.5	1 156.5	1 189.0	1 219.0	1 310.5	1 356.0
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

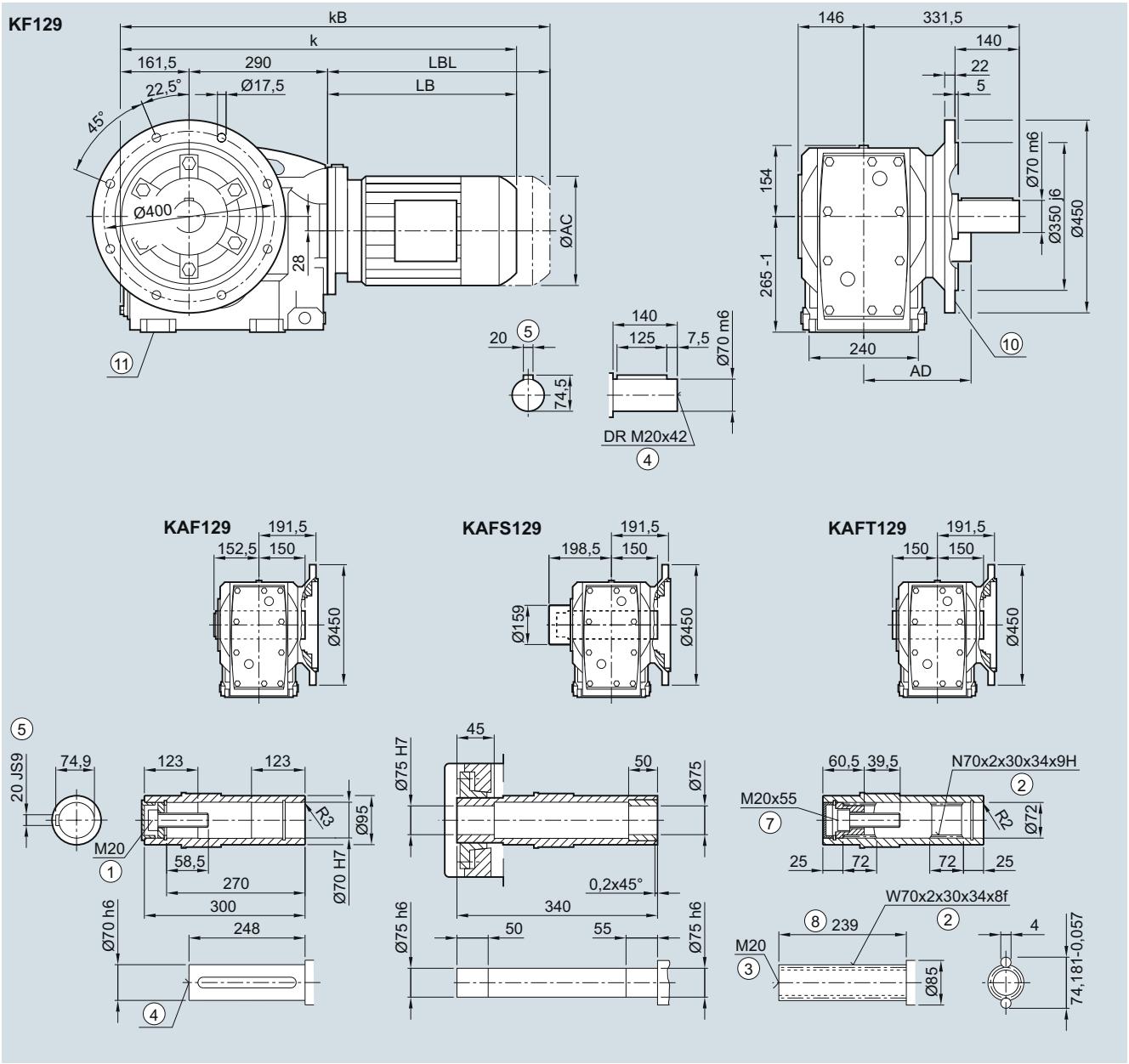
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K.F.129 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030

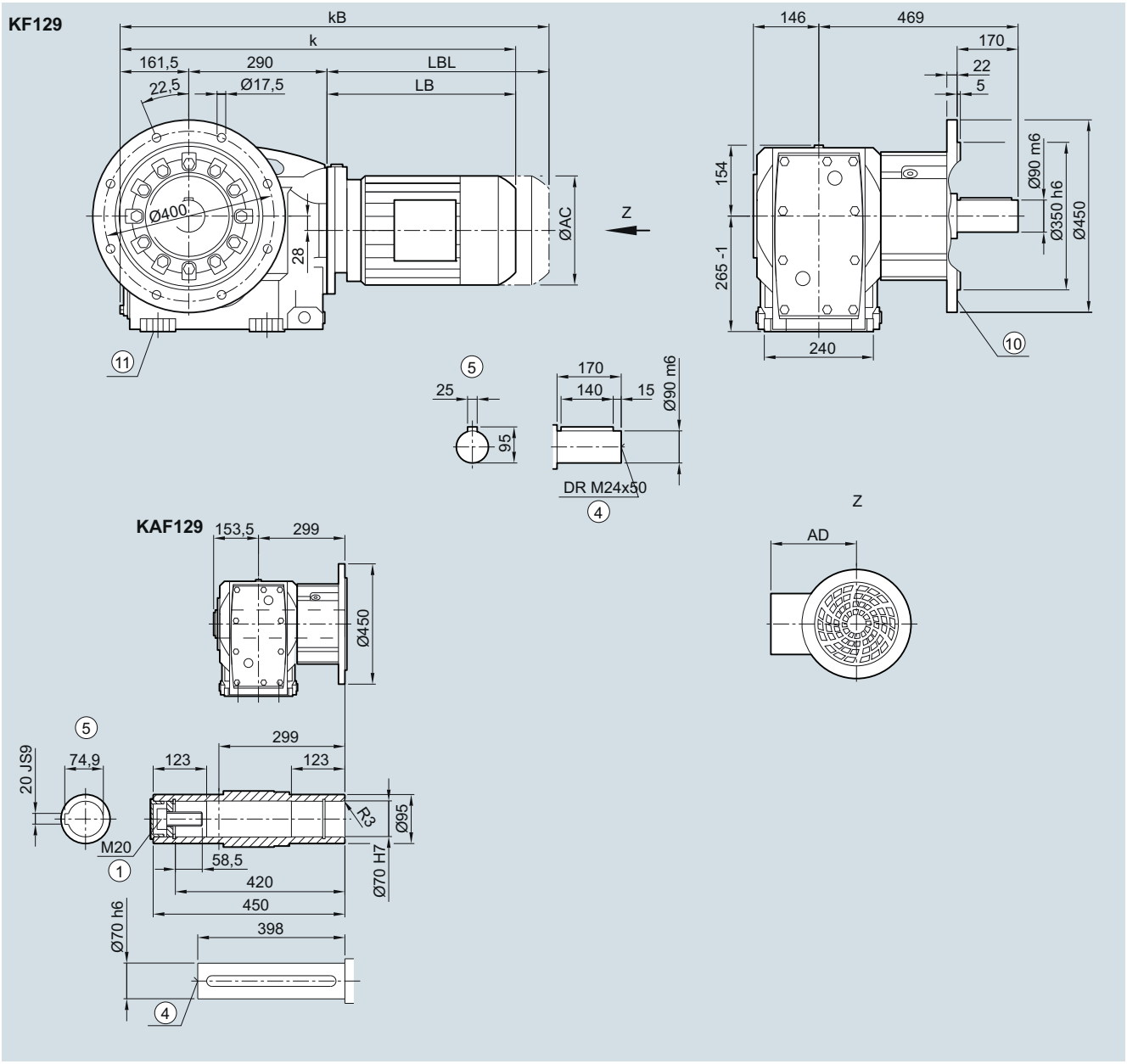


Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	762.5	737.5	833.5	853.0	897.0	942.0	982.0	1 042.0	1061.5	1 091.5	1 165.0	1 210.5
kB	832.5	807.5	912.0	926.0	1 001.5	1 046.5	1 098.0	1 158.0	1 190.5	1 220.5	1 312.0	1 357.5
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

K.F.129 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

KF040, KAF040



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	762.5	737.5	833.5	853.0	897.0	942.0	982.0	1 042.0	1 061.5	1 091.5	1 165.0	1 210.5
kB	832.5	807.5	912.0	926.0	1 001.5	1 046.5	1 098.0	1 158.0	1 190.5	1 220.5	1 312.0	1 357.5
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

⑩ For inner contour see page 5/232

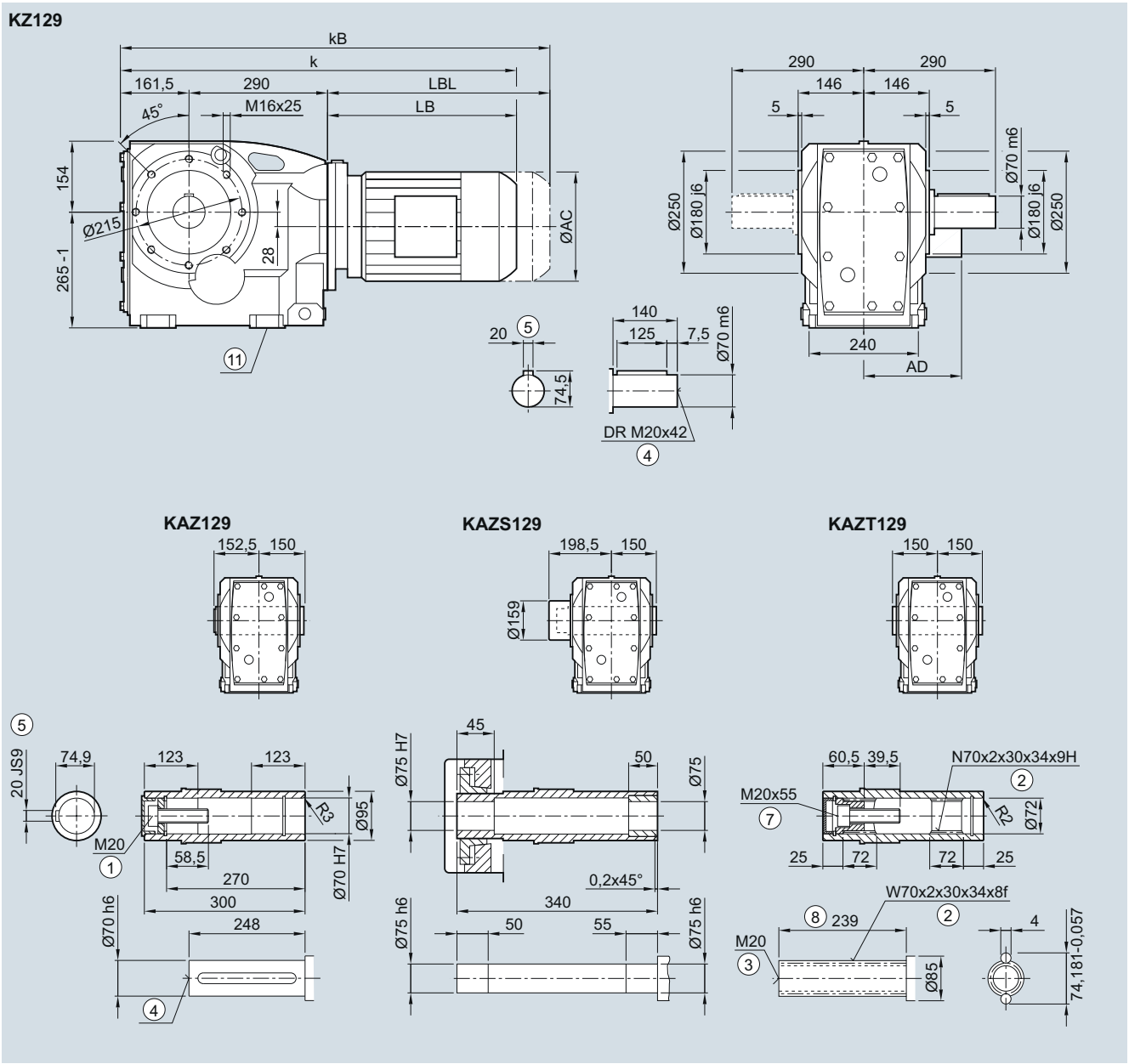
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

5

K.Z.129 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	762.5	737.5	833.5	853.0	897.0	942.0	982.0	1 042.0	1 061.5	1 091.5	1 165.0	1 210.5
kB	832.5	807.5	912.0	926.0	1 001.5	1 046.5	1 098.0	1 158.0	1 190.5	1 220.5	1 312.0	1 357.5
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

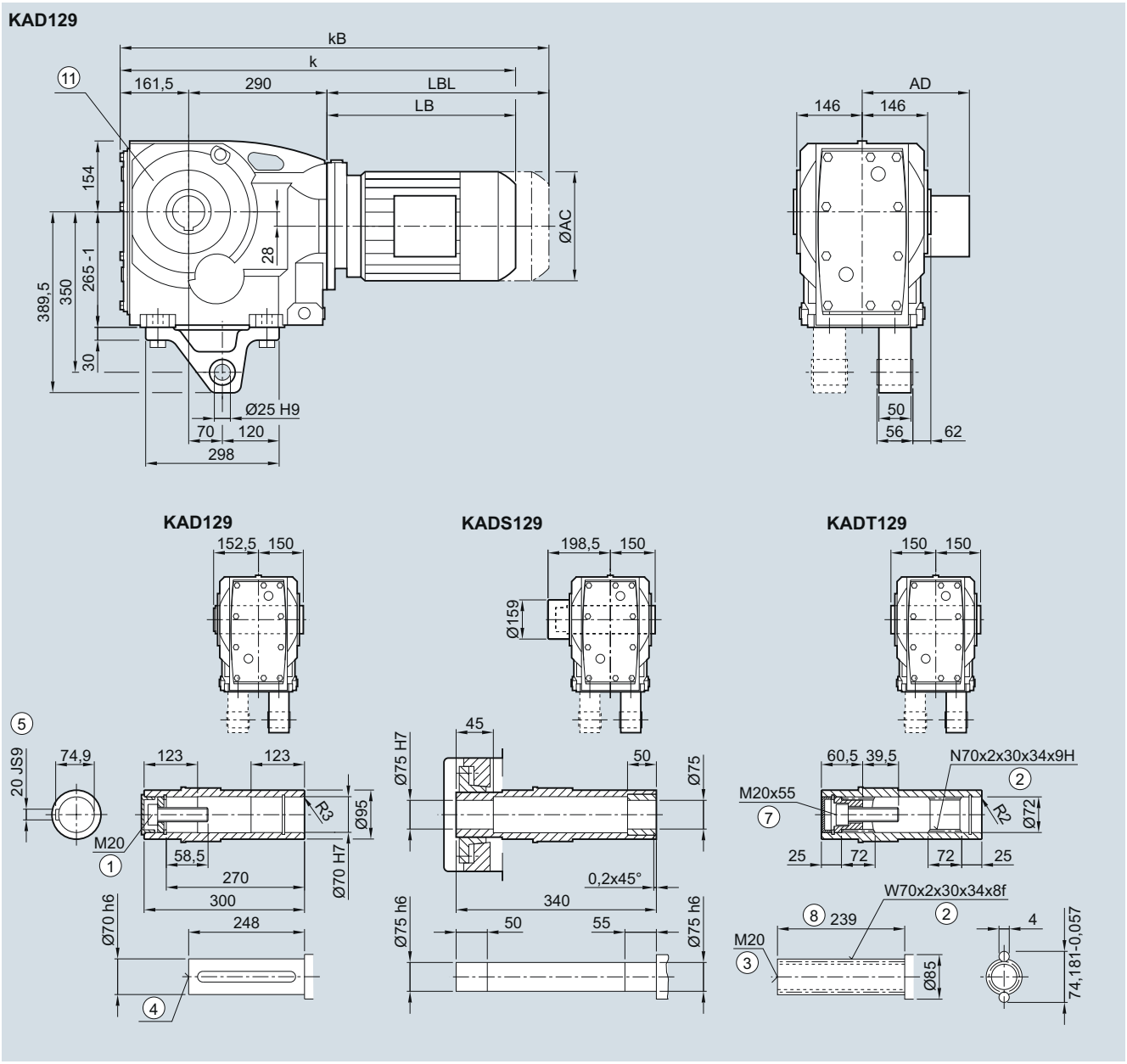
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

KAD.129 gearbox in a shaft-mounted design

KAD030, KADS030, KADT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0
k	762.5	737.5	833.5	853.0	897.0	942.0	982.0	1 042.0	1 061.5	1 091.5	1 165.0	1 210.5
kB	832.5	807.5	912.0	926.0	1 001.5	1 046.5	1 098.0	1 158.0	1 190.5	1 220.5	1 312.0	1 357.5
LB	311.0	286.0	382.0	401.5	445.5	490.5	530.5	590.5	610.0	640.0	713.5	759.0
LBL	381.0	356.0	460.5	474.5	550.0	595.0	646.5	706.5	739.0	769.0	860.5	906.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

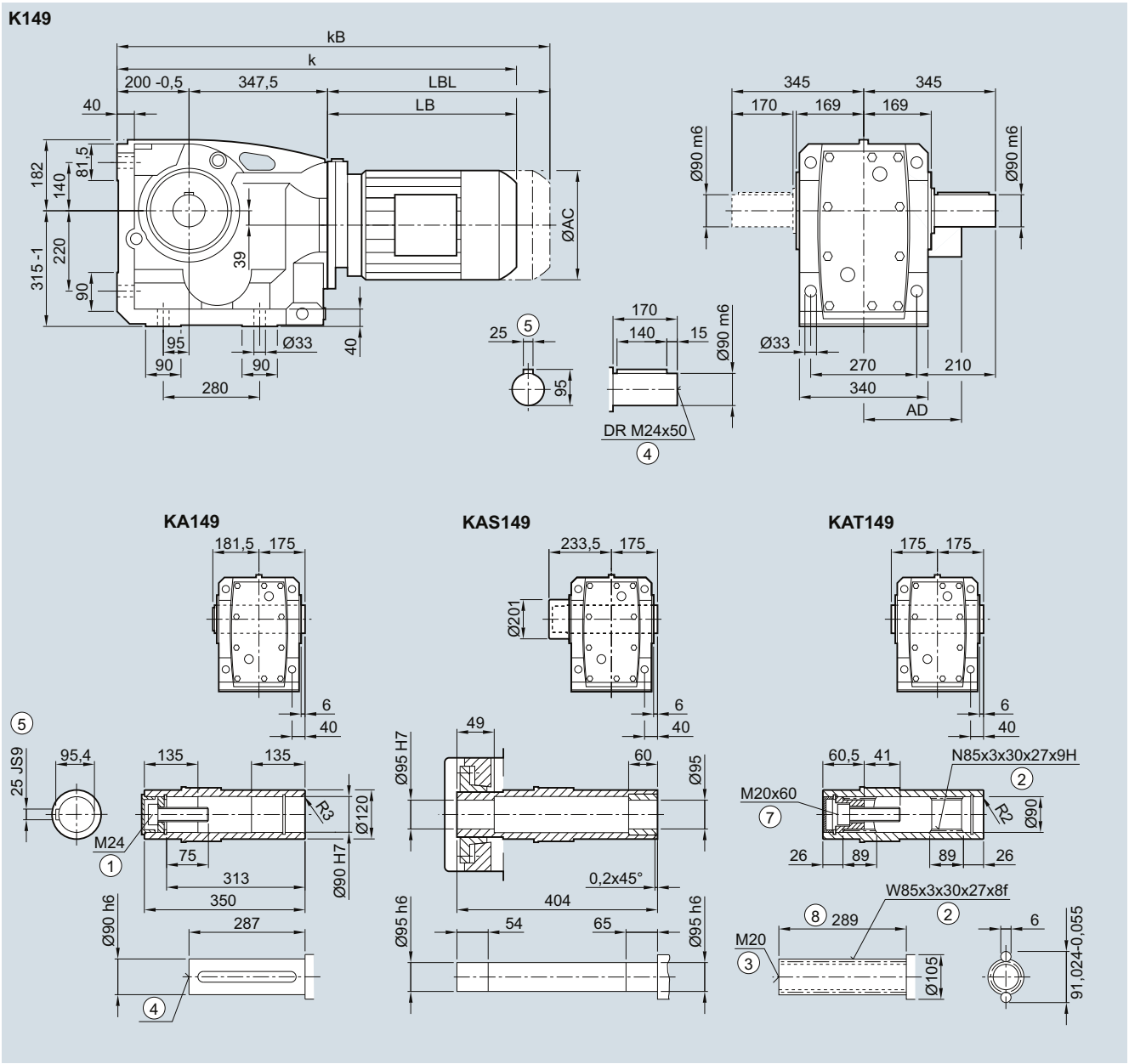
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

Dimensions

K..149 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	851.5	826.5	920.5	940.0	982.0	1 027.0	1 067.0	1 127.0	1 146.5	1 176.5	1 250.0	1 295.5	1 421.0
kB	921.5	896.5	999.0	1 013.0	1 086.5	1 131.5	1 183.0	1 243.0	1 275.5	1 305.5	1 397.0	1 442.5	1 546.0
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

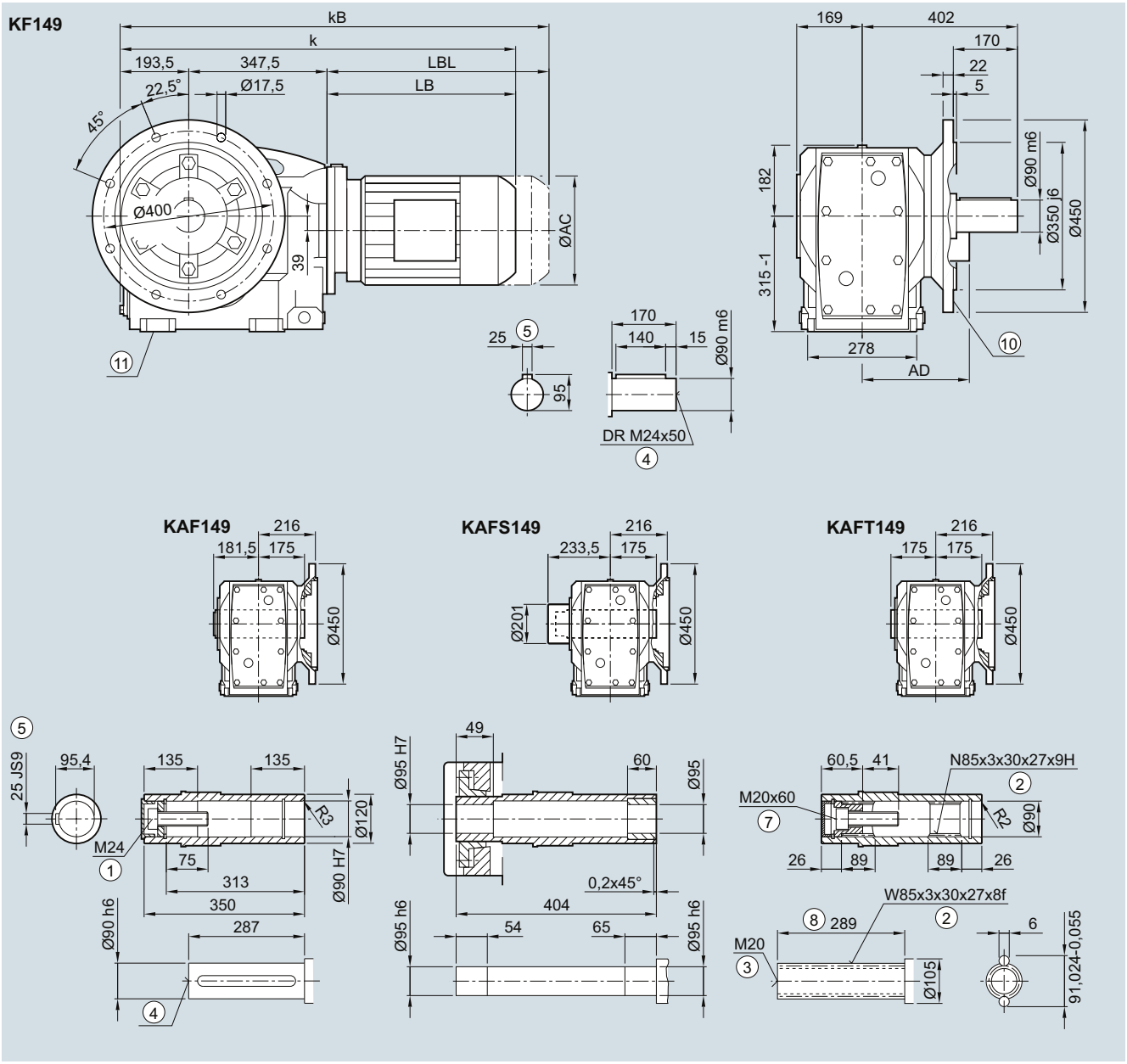
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K.F.149 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030



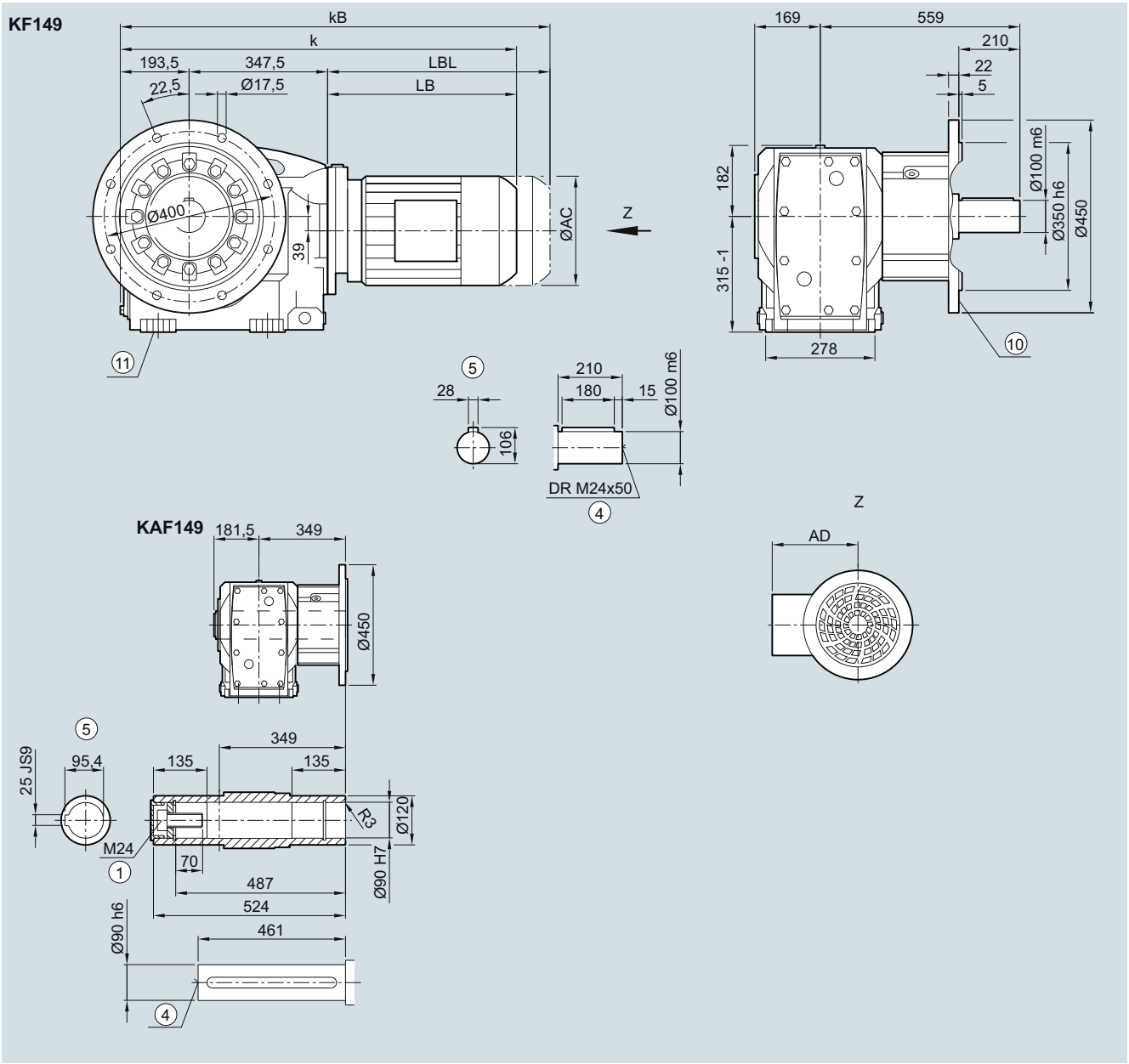
Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	845.0	820.0	914.0	933.5	975.5	1 020.5	1 060.5	1 120.5	1 140.0	1 170.0	1 243.5	1 289.0	1 414.5
kB	915.0	890.0	992.5	1 006.5	1 080.0	1 125.0	1 176.5	1 236.5	1 269.0	1 299.0	1 390.5	1 436.0	1 539.5
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

5

K.F.149 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

KF040, KAF040

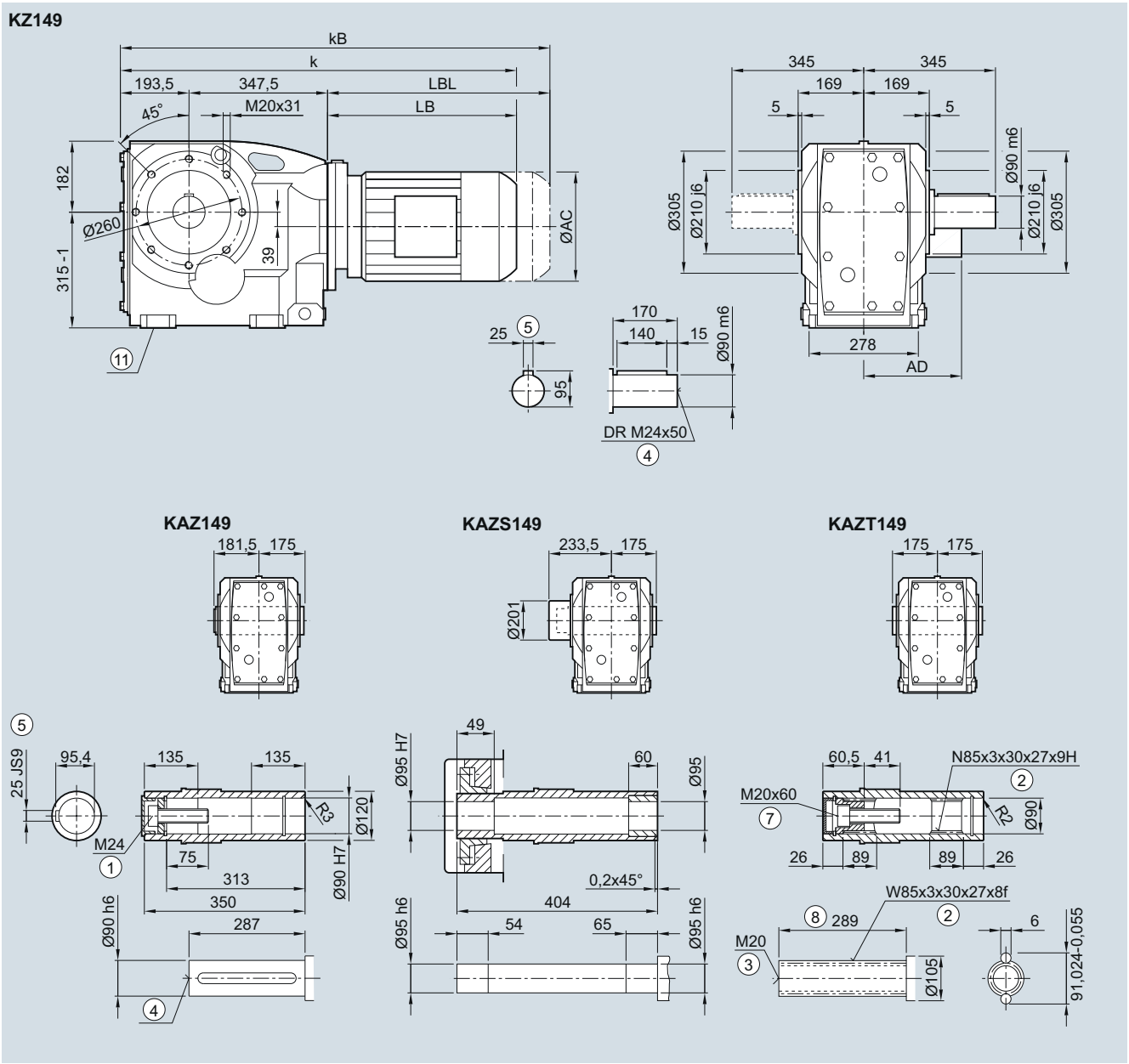


Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	845.0	820.0	914.0	933.5	975.5	1020.5	1060.5	1120.5	1140.0	1170.0	1243.5	1289.0	1414.5
kB	915.0	890.0	992.5	1006.5	1080.0	1125.0	1176.5	1236.5	1269.0	1299.0	1390.5	1436.0	1539.5
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour see page 5/232
1) Dimensions for LHN(S3-75%), LEN(IE2)
⑪ Use bores only for foot-mounted design
1) AD depends on the motor options, for other dimensions see page 7/20.
2) AD depends on the motor options, for other dimensions see page 7/20.

K.Z.149 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	845.0	820.0	914.0	933.5	975.5	1 020.5	1 060.5	1 120.5	1 140.0	1 170.0	1 243.5	1 289.0	1 414.5
kB	915.0	890.0	992.5	1 006.5	1 080.0	1 125.0	1 176.5	1 236.5	1 269.0	1 299.0	1 390.5	1 436.0	1 539.5
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

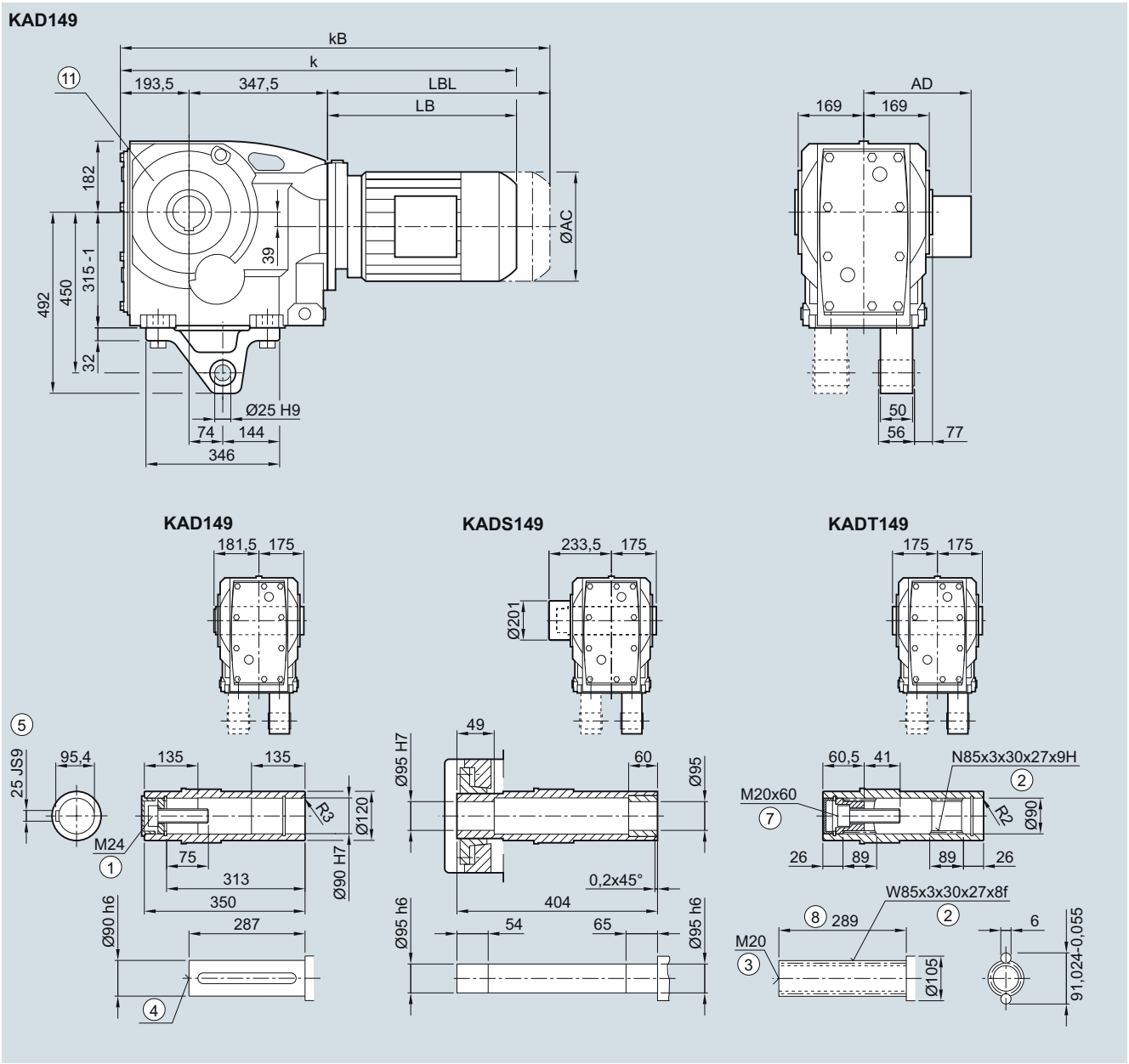
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

Dimensions

KAD.149 gearbox in a shaft-mounted design

KAD031, KADS031, KADT031



Motor[1)]	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	174.0	174.0	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	155.5	155.5	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	845.0	820.0	914.0	933.5	975.5	1 020.5	1 060.5	1 120.5	1 140.0	1 170.0	1 243.5	1 289.0	1 414.5
kB	915.0	890.0	992.5	1 006.5	1 080.0	1 125.0	1 176.5	1 236.5	1 269.0	1 299.0	1 390.5	1 436.0	1 539.5
LB	304.0	279.0	373.0	392.5	434.5	479.5	519.5	579.5	599.0	629.0	702.5	748.0	873.5
LBL	374.0	349.0	451.5	465.5	539.0	584.0	635.5	695.5	728.0	758.0	849.5	895.0	998.5

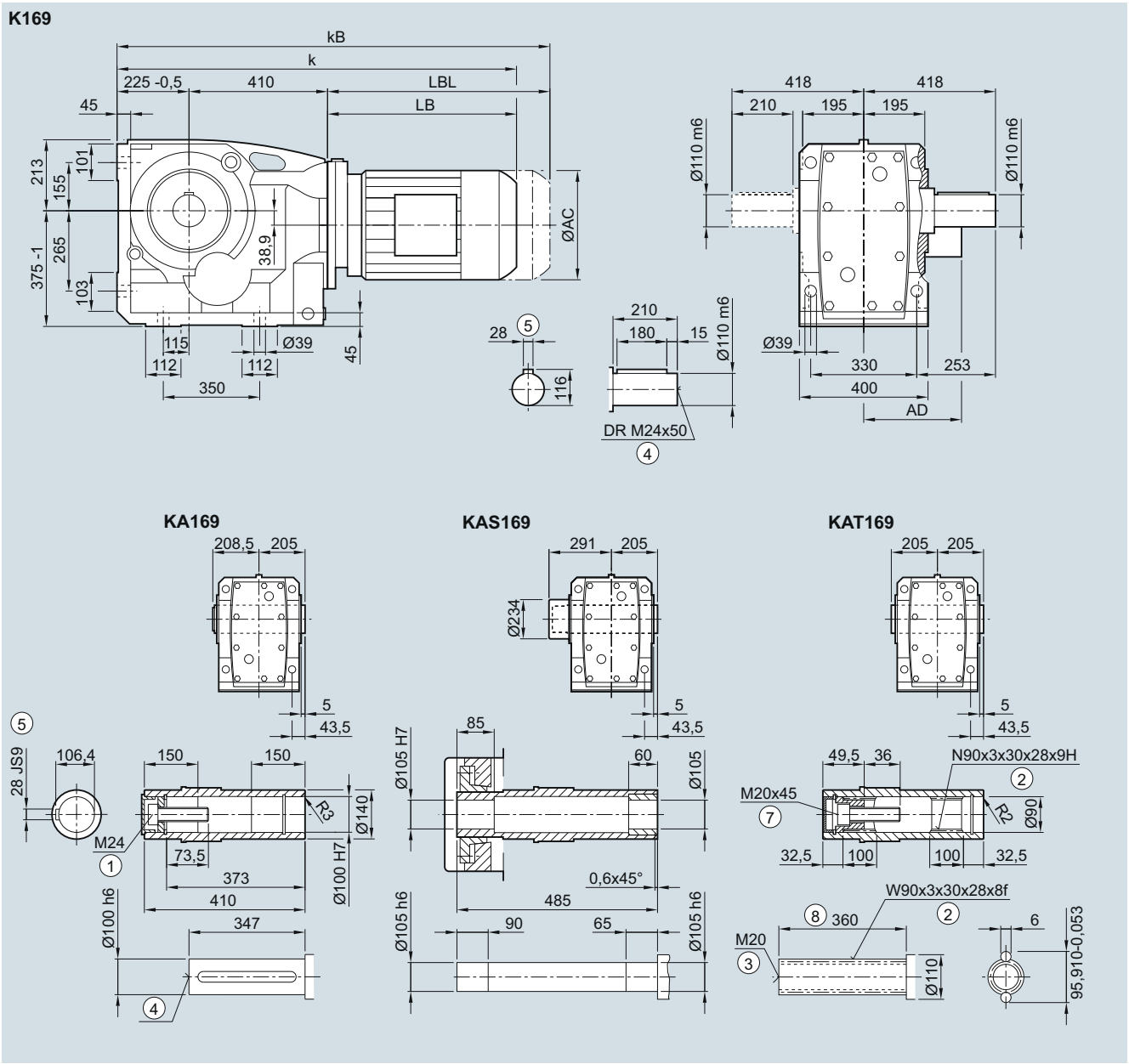
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K..169 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 006.5	1 026.0	1 063.0	1 108.0	1 148.0	1 208.0	1 227.5	1 257.5	1 331.0	1 376.5	1 502.0
kB	1 085.0	1 099.0	1 167.5	1 212.5	1 264.0	1 324.0	1 356.5	1 386.5	1 478.0	1 523.5	1 627.0
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

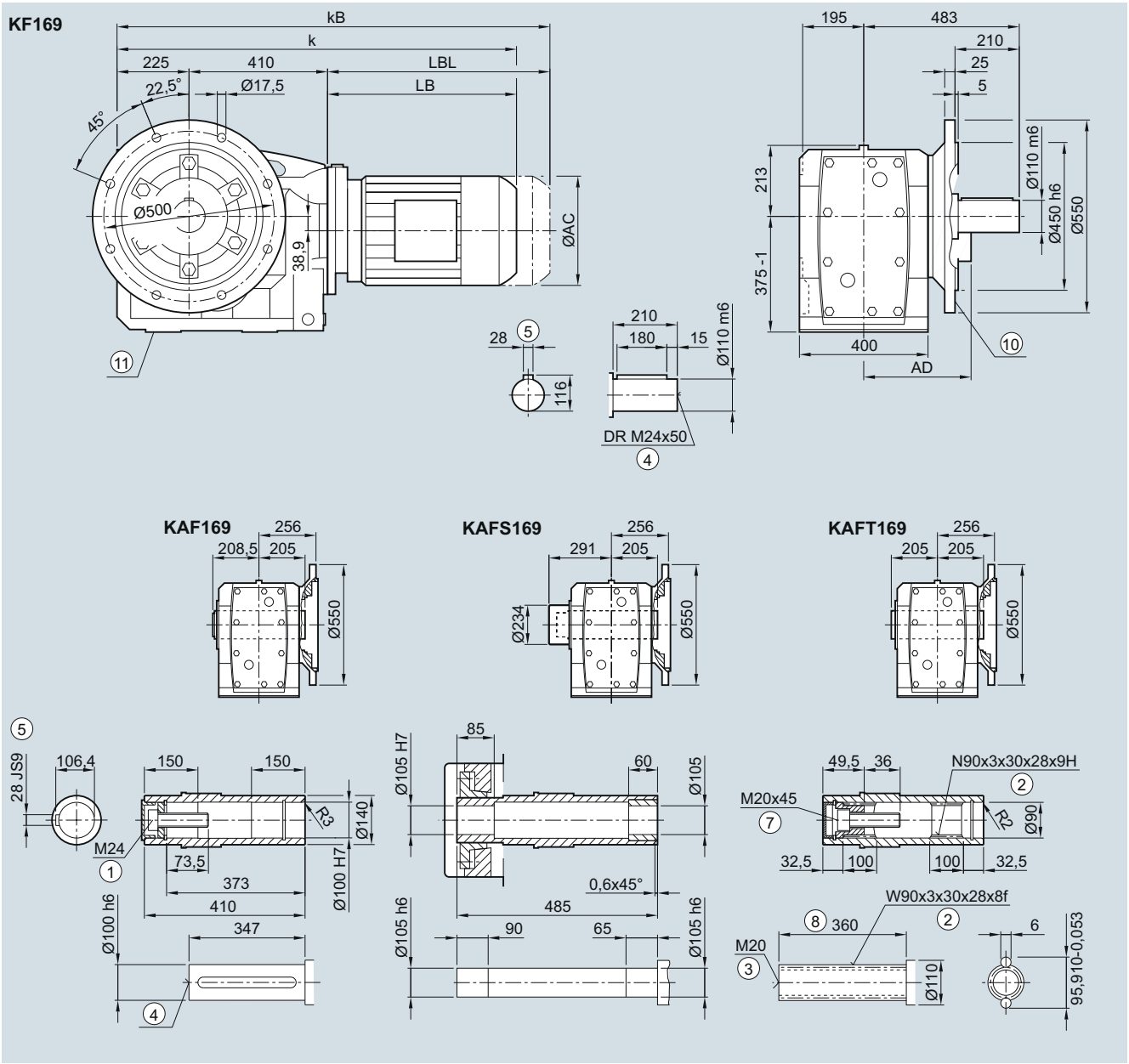
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

5

K.F.169 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030

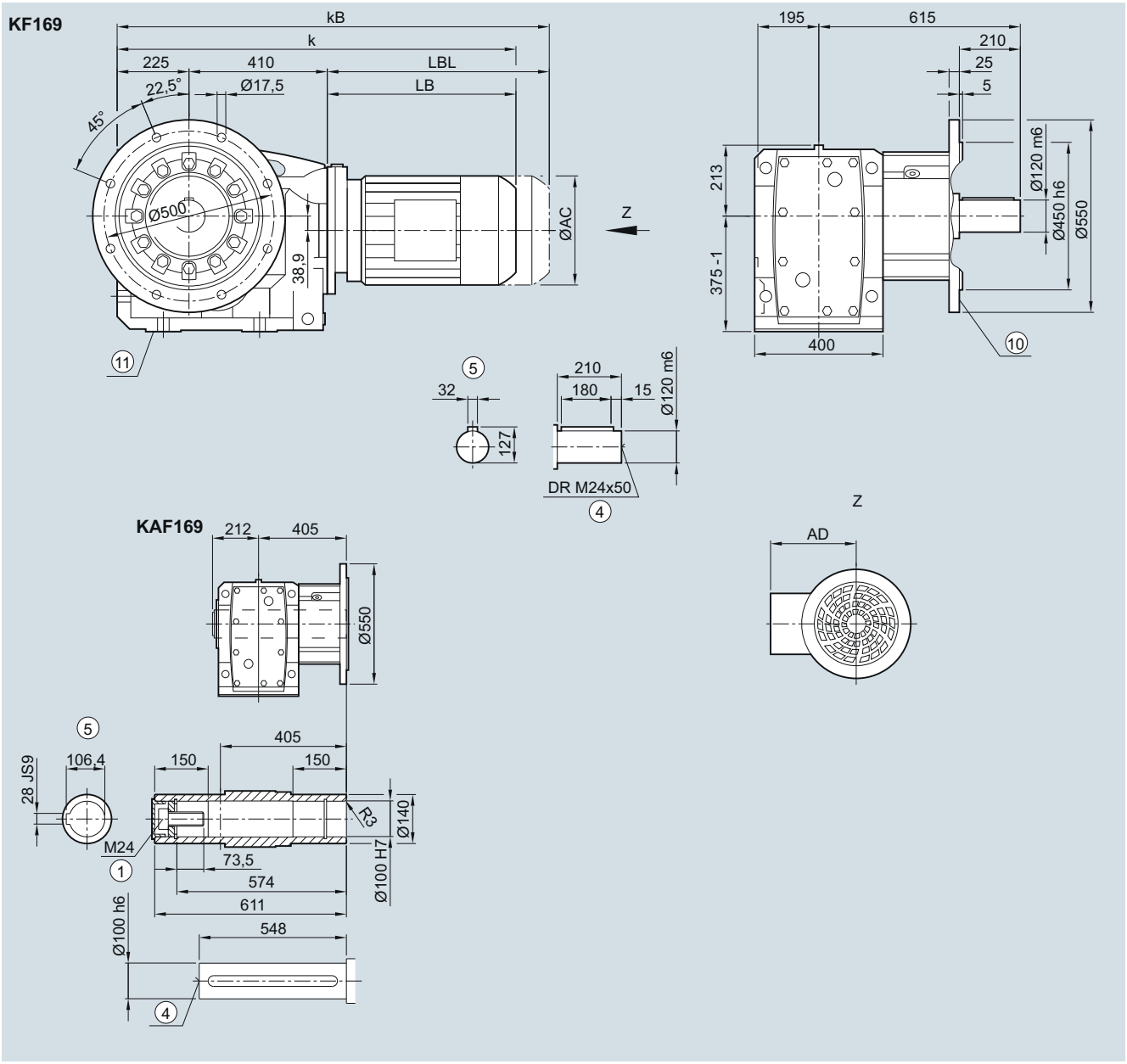


Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 006.5	1 026.0	1 063.0	1 108.0	1 148.0	1 208.0	1 227.5	1 257.5	1 331.0	1 376.5	1 502.0
kB	1 085.0	1 099.0	1 167.5	1 212.5	1 264.0	1 324.0	1 356.5	1 386.5	1 478.0	1 523.5	1 627.0
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

K.F.169 gearbox in a flange-mounted design with VLplus reinforced bearing system (G30)

KF040, KAF040



Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 006.5	1 026.0	1 063.0	1 108.0	1 148.0	1 208.0	1 227.5	1 257.5	1 331.0	1 376.5	1 502.0
kB	1 085.0	1 099.0	1 167.5	1 212.5	1 264.0	1 324.0	1 356.5	1 386.5	1 478.0	1 523.5	1 627.0
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

⑩ For inner contour see page 5/232

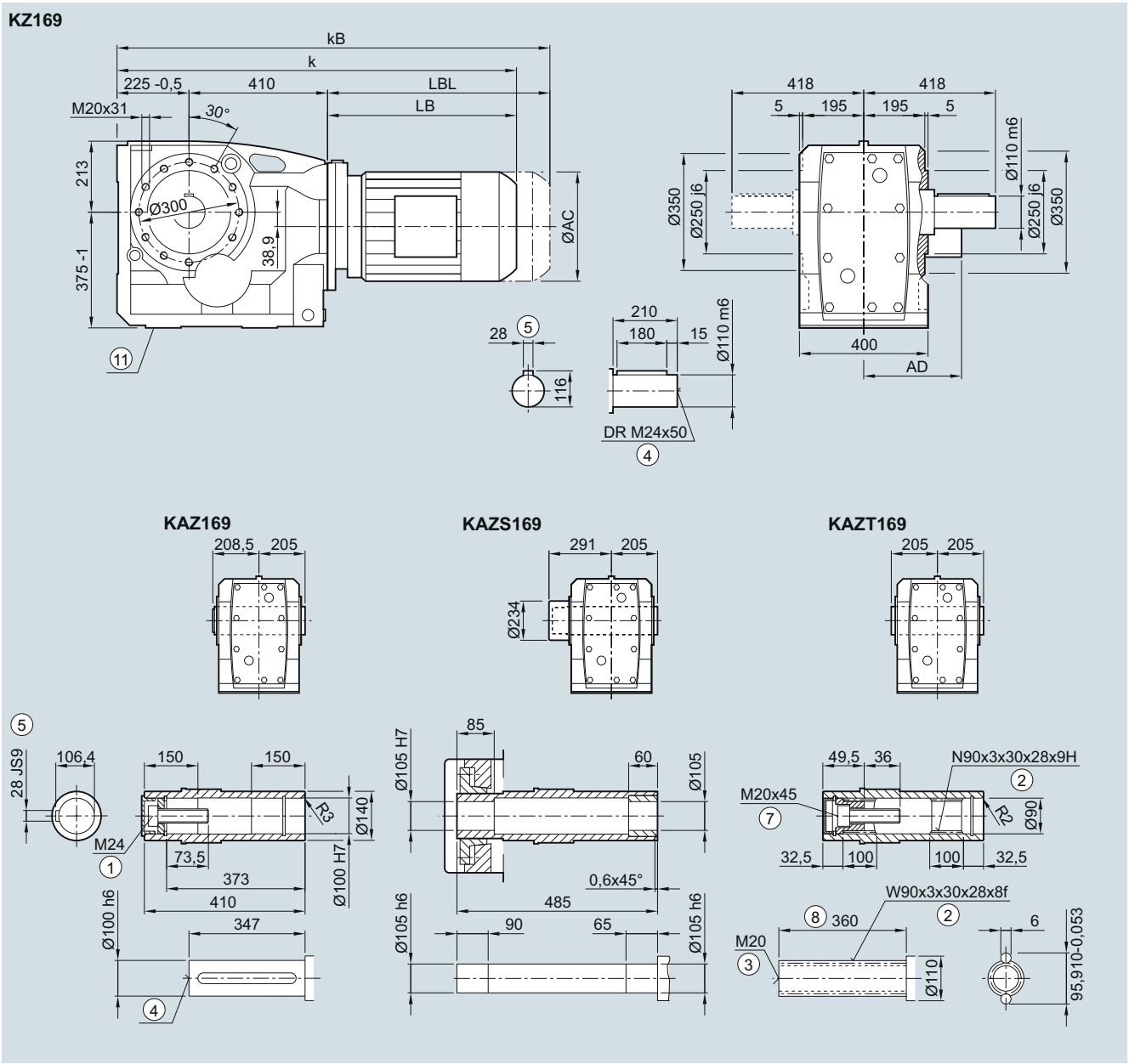
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

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K.Z.169 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030



Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 006.5	1 026.0	1 063.0	1 108.0	1 148.0	1 208.0	1 227.5	1 257.5	1 331.0	1 376.5	1 502.0
kB	1 085.0	1 099.0	1 167.5	1 212.5	1 264.0	1 324.0	1 356.5	1 386.5	1 478.0	1 523.5	1 627.0
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

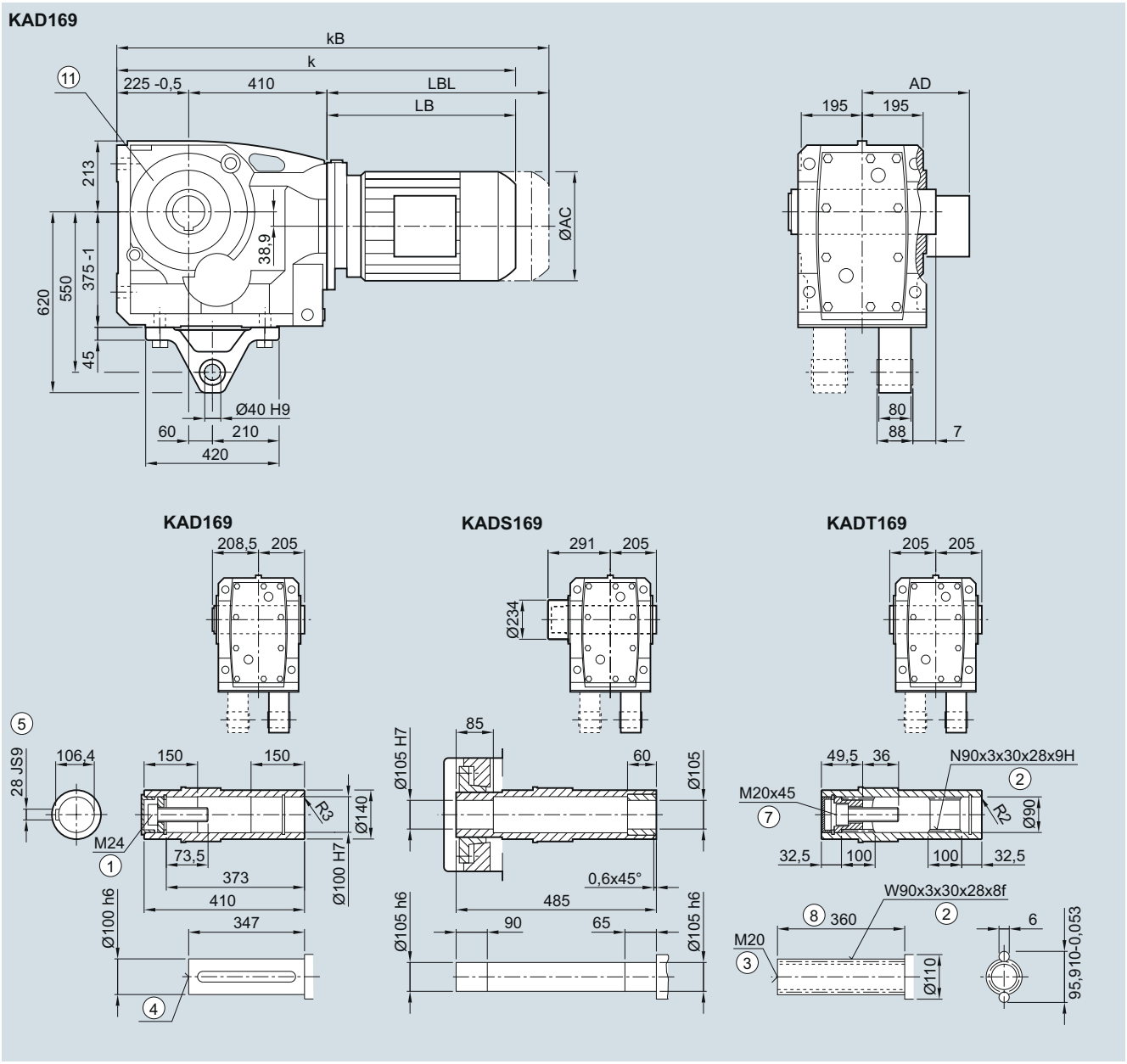
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

KAD.169 gearbox in a shaft-mounted design

KAD031, KADS031, KADT031



Motor[1)]	LEN100L	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	197.0	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	175.5	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 006.5	1 026.0	1 063.0	1 108.0	1 148.0	1 208.0	1 227.5	1 257.5	1 331.0	1 376.5	1 502.0
kB	1 085.0	1 099.0	1 167.5	1 212.5	1 264.0	1 324.0	1 356.5	1 386.5	1 478.0	1 523.5	1 627.0
LB	371.5	391.0	428.0	473.0	513.0	573.0	592.5	622.5	696.0	741.5	867.0
LBL	450.0	464.0	532.5	577.5	629.0	689.0	721.5	751.5	843.0	888.5	992.0

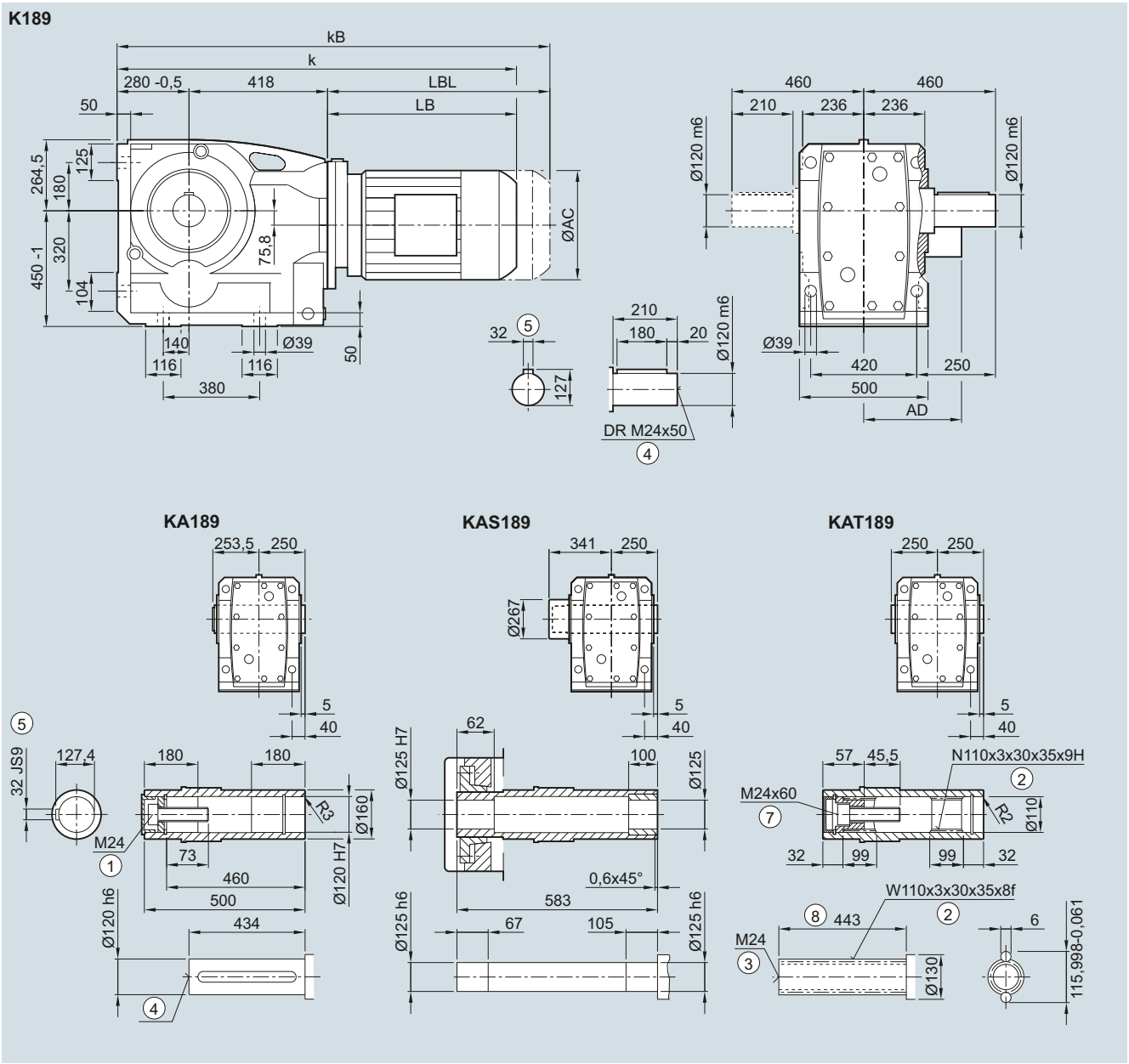
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K..189 gearbox in a foot-mounted design

K030, KA030, KAS030, KAT030



Motor[1]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 076.5	1 113.0	1 158.0	1 198.0	1 258.0	1 277.0	1 307.0	1 380.5	1 425.0	1 546.5
kB	1 149.5	1 217.5	1 262.5	1 314.0	1 374.0	1 406.0	1 436.0	1 527.5	1 572.0	1 671.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

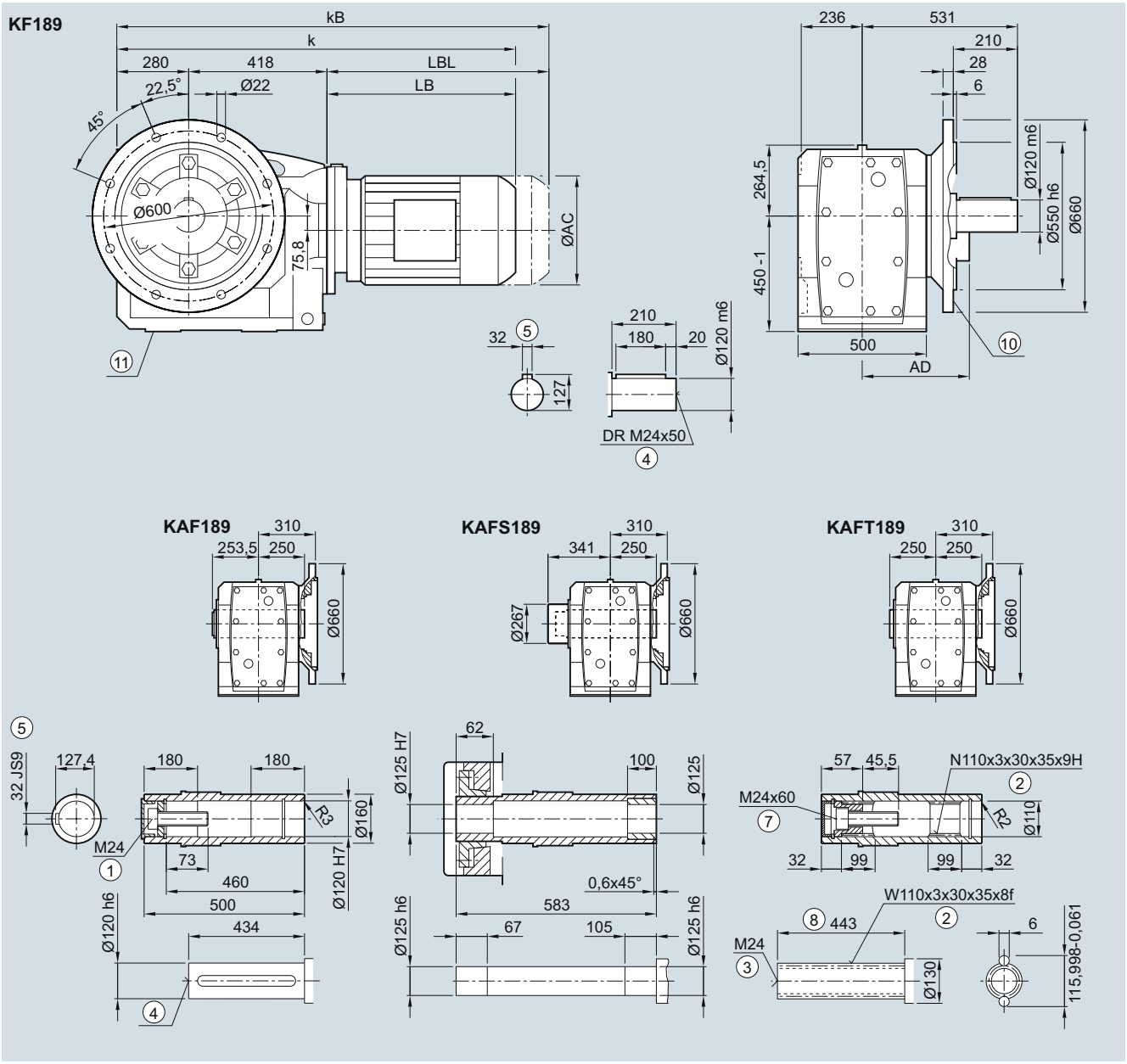
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

K.F.189 gearbox in a flange-mounted design

KF030, KAF030, KAFS030, KAFT030



Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 076.5	1 113.0	1 158.0	1 198.0	1 258.0	1 277.0	1 307.0	1 380.5	1 425.0	1 546.5
kB	1 149.5	1 217.5	1 262.5	1 314.0	1 374.0	1 406.0	1 436.0	1 527.5	1 572.0	1 671.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

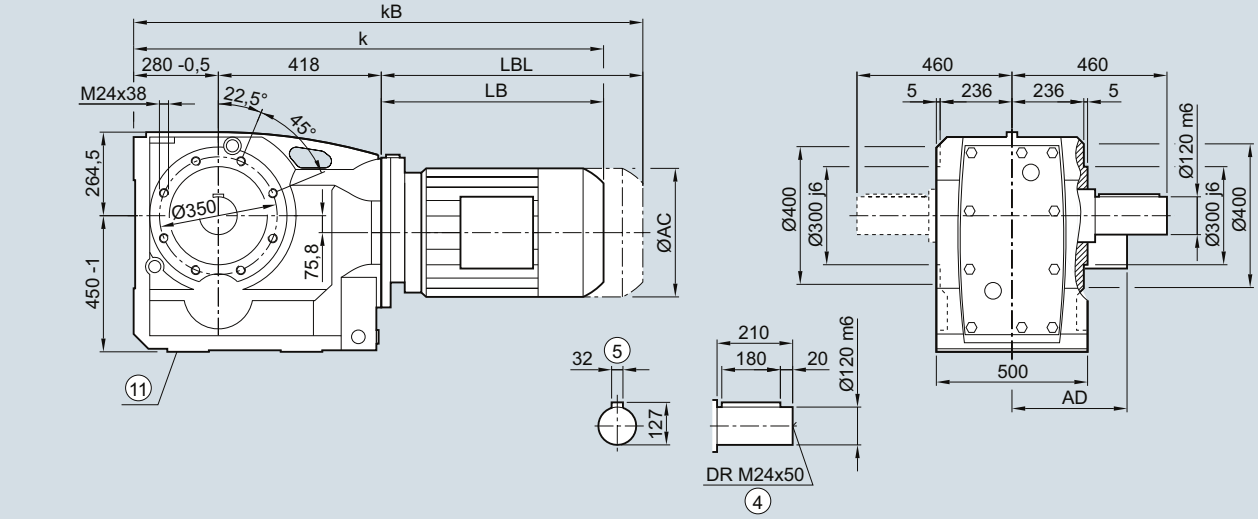
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 5/232
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

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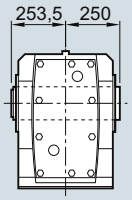
K.Z.189 gearbox in a housing flange design

KZ030, KAZ030, KAZS030, KAZT030

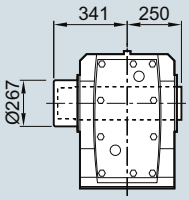
KZ189



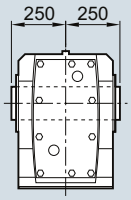
KAZ189

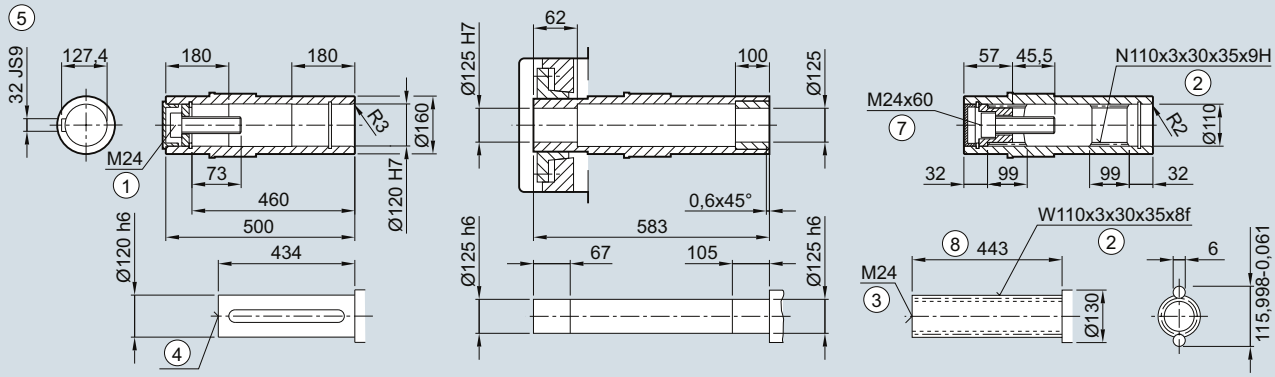


KAZS189



KAZT189





Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 076.5	1 113.0	1 158.0	1 198.0	1 258.0	1 277.0	1 307.0	1 380.5	1 425.0	1 546.5
kB	1 149.5	1 217.5	1 262.5	1 314.0	1 374.0	1 406.0	1 436.0	1 527.5	1 572.0	1 671.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

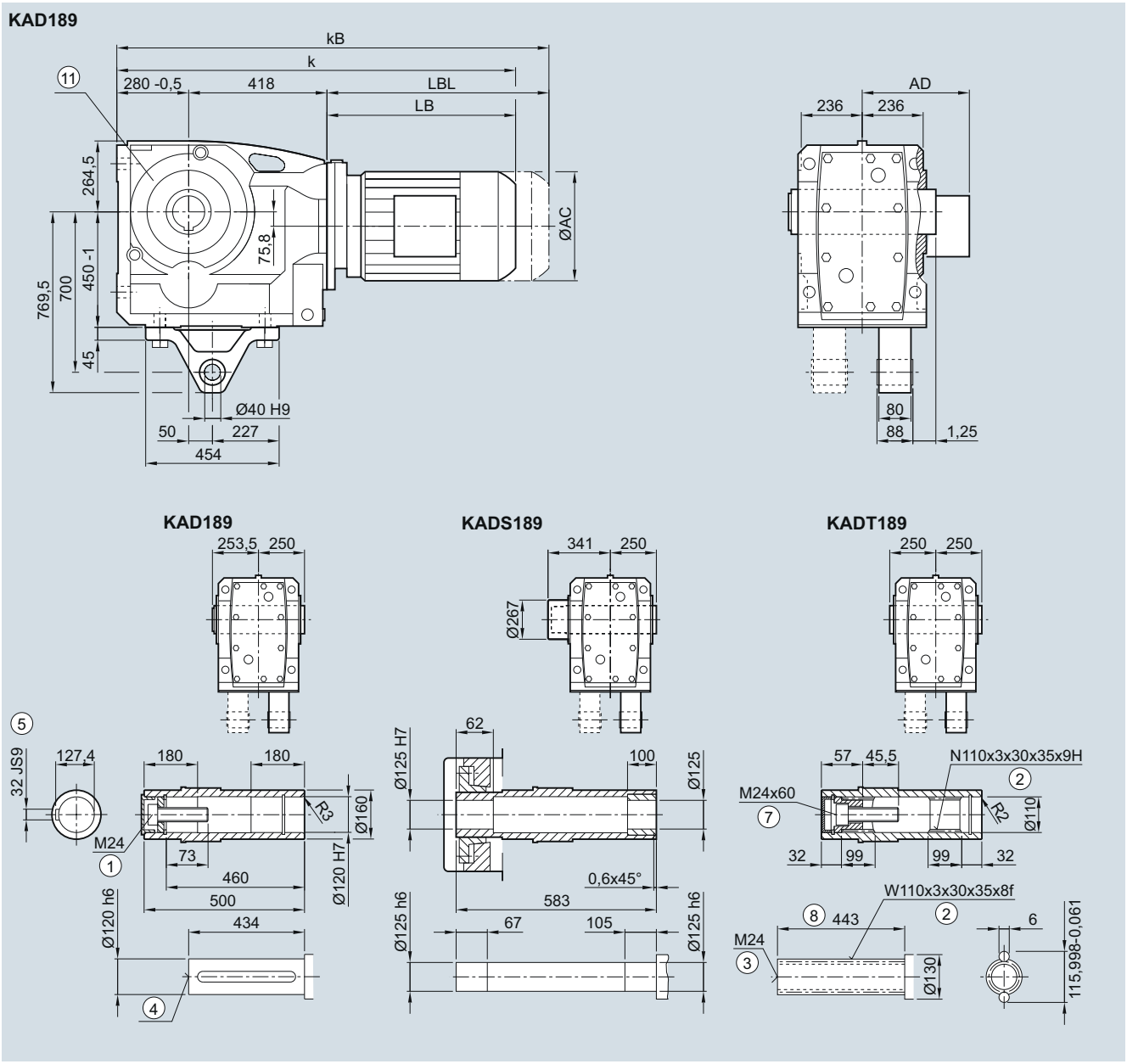
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

KAD.189 gearbox in a shaft-mounted design

KAD031, KADS031, KADT031



Motor[1)]	LEN112M	LEN132S	LEN132M	LEN160M	LEN160L	LEN180M	LEN180L	LEN200L	LHN225	LHN250
AC	222.0	262.0	262.0	315.5	315.5	350.0	350.0	391.0	450.0	485.0
AD[2)]	190.0	213.0	213.0	255.0	255.0	268.5	268.5	299.5	324.0	360.0
k	1 076.5	1 113.0	1 158.0	1 198.0	1 258.0	1 277.0	1 307.0	1 380.5	1 425.0	1 546.5
kB	1 149.5	1 217.5	1 262.5	1 314.0	1 374.0	1 406.0	1 436.0	1 527.5	1 572.0	1 671.5
LB	378.5	415.0	460.0	500.0	560.0	579.0	609.0	682.5	727.0	848.5
LBL	451.5	519.5	564.5	616.0	676.0	708.0	738.0	829.5	874.0	973.5

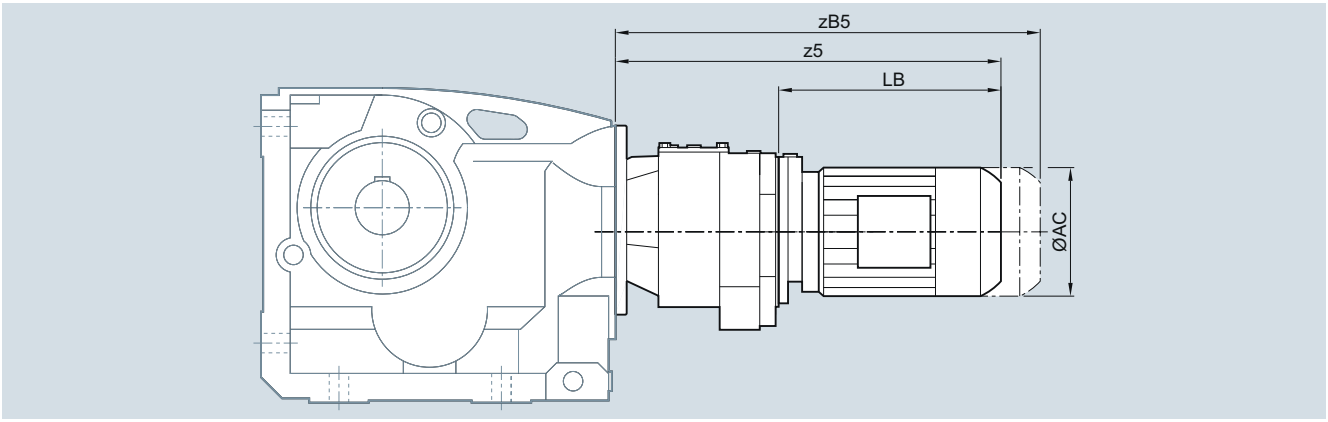
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

Dimensions

Bevel tandem geared motors



Gearbox	Motor[1)]	AC	z5	zB5	LB
K.39-D/Z19	LHN63	118.0	349.5	394.5	179.0
	LHN71	139.0	371.0	426.0	192.5
K.49-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
K.69-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
K.79-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
K.89-D/Z39	LHN63	118.0	392.0	437.0	212.5
	LHN71	139.0	413.5	468.5	234.0
	LEN80M	154.5	465.0	525.0	285.5
	LEN90L	174.0	526.0	596.0	346.5
	LEN90S	174.0	501.0	571.0	321.5
	LEN100L	197.0	603.0	681.5	423.5
K.109-D/Z39	LHN63	118.0	375.0	420.0	212.5
	LHN71	139.0	396.5	451.5	234.0
	LEN80M	154.5	448.0	508.0	285.5
	LEN90L	174.0	509.0	579.0	346.5
	LEN90S	174.0	484.0	554.0	321.5
	LEN100L	197.0	586.0	664.5	423.5
	LEN112M	222.0	605.5	678.5	443.0
K.129-D/Z39	LHN63	118.0	366.0	411.0	212.5
	LHN71	139.0	387.5	442.5	234.0
	LEN80M	154.5	439.0	499.0	285.5
	LEN90L	174.0	500.0	570.0	346.5
	LEN90S	174.0	475.0	545.0	321.5
	LEN100L	197.0	577.0	655.5	423.5
	LEN112M	222.0	596.5	669.5	443.0

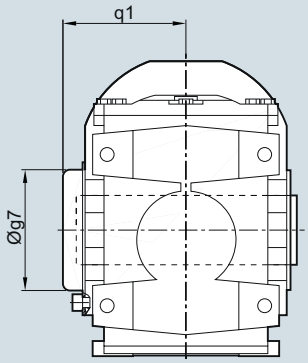
Gearbox	Motor	AC	z5	zB5	LB
K.149-D/Z49	LHN63	118.0	395.0	440.0	203.0
	LHN71	139.0	416.5	471.5	224.5
	LEN80M	154.5	468.0	528.0	276.0
	LEN90L	174.0	529.0	599.0	337.0
	LEN90S	174.0	504.0	574.0	312.0
	LEN100L	197.0	606.0	684.5	414.0
	LEN112M	222.0	625.5	698.5	433.5
	LEN132S	262.0	669.5	774.0	477.5
	LEN132M	262.0	714.5	819.0	522.5
K.169-D/Z49	LHN63	118.0	384.5	429.5	203.0
	LHN71	139.0	406.0	461.0	224.5
	LEN80M	154.5	457.5	517.5	276.0
	LEN90L	174.0	518.5	588.5	337.0
	LEN90S	174.0	493.5	563.5	312.0
	LEN100L	197.0	595.5	674.0	414.0
	LEN112M	222.0	615.0	688.0	433.5
	LEN132S	262.0	659.0	763.5	477.5
	LEN132M	262.0	704.0	808.5	522.5
K.189-D/Z69	LHN63	118.0	410.0	455.0	203.0
	LHN71	139.0	431.5	486.5	224.5
	LEN80M	154.5	483.0	543.0	276.0
	LEN90L	174.0	544.0	614.0	337.0
	LEN90S	174.0	519.0	589.0	312.0
	LEN100L	197.0	621.0	699.5	414.0
	LEN112M	222.0	640.5	713.5	433.5
	LEN132S	262.0	684.5	789.0	477.5
	LEN132M	262.0	729.5	834.0	522.5

[1)] Dimensions for LHN(S3-75%), LEN(IE2)

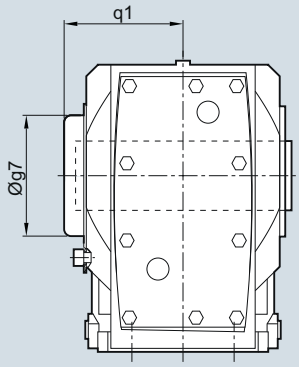
Protection covers

Protection cover for hollow shaft

BA, BAF, BAZ, BAD



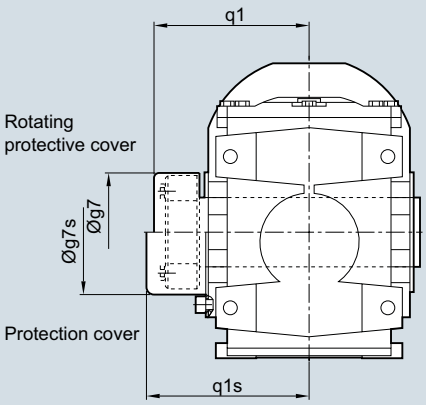
KA[1], KAF, KAZ, KAD



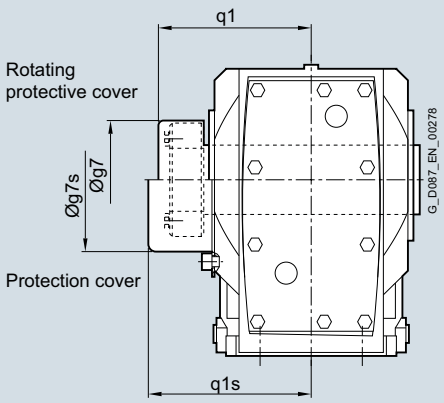
Gearbox type	BA.19	BA.29	BA.39	BA.49	KA.39	KA.49	KA.69	KA.79	KA.89	KA.109	KA.129	KA.149	KA.169	KA.189
Protection cover														
g7	82.0	67.0	80.0	80.0	82.5	80.0	99.0	99.0	137.0	187.0	187.0	218.0	257.5	309.5
q1	57.5	76.0	96.0	111.0	73.0	105.0	95.0	101.5	124.5	168.0	198.0	250.0	313.0	373.5

Protection cover for hollow shaft with shrink disk

BAS, BAFS, BAZS, BADS



KAFS, KAZS, KADS



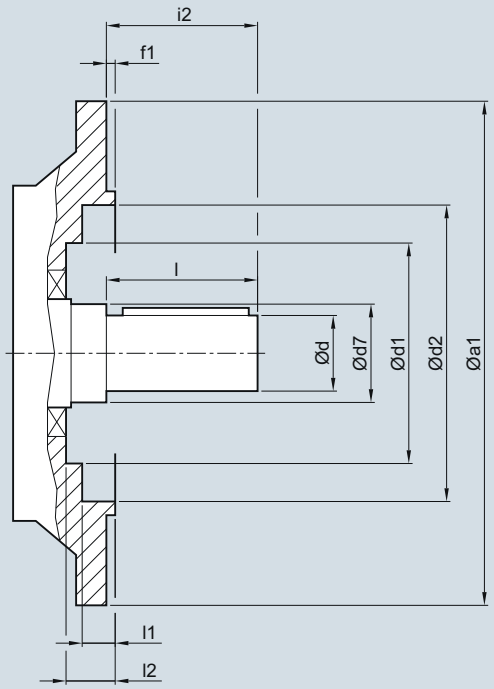
Gearbox type	BA..29	BA..39	BA..49	KA..39	KA..49	KA..69	KA..79	KA..89	KA..109	KA..129	KA..149	KA..169	KA..189
Rotating protective cover with shrink disk version													
g7	55	84	84	76.0	84	84	94.0	119.0	142.0	159.0	201.0	234.0	267.0
q1	85	102	117	89.5	107	115	125.5	142.5	162.5	198.5	233.5	291.0	343.5
Protection cover													
g7s	58	86	86	82.5	86	99	99.0	137.0	187.0	187.0	218.0	257.5	309.5
q1s	91	119	134	109.0	122	126	132.5	176.5	195.0	225.0	250.0	313.0	373.5

[1] KA/KAS version valid only for gearbox sizes 169 and 189

Inner contour of the flange design

Notes regarding the design of the customer's interface for the solid shaft design

BF, KF

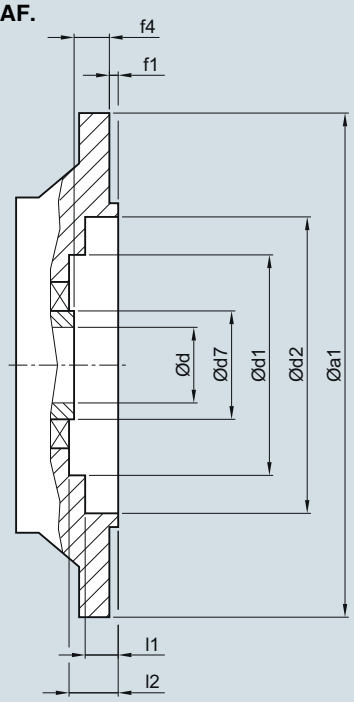


Gearbox type	a1	d	d7	d1	d2	f1	i2	l	l1	l2
BF19	120	20	30	60	68	3.0	40	40	23.5	29.5
BF29	120	20	40	-	70	3.0	40	40	24.0	-
	160	20	40	70	101	3.5	40	40	8.5	24.5
BF39	160	30	55	93	100	3.5	60	60	11.0	31.5
	200	30	55	93	119	3.5	60	60	16.0	31.5
BF49	200	35	55	93	119	3.5	70	70	16.0	31.5
KF39	160	25	30	-	100	3.5	50	50	5.0	-
		35	45	80	102	3.5	46	70	2.0	29.5
KF49	200	30	35	-	118	3.5	60	60	5.5	-
		40	50	90	120	3.5	55	80	4.0	30.5
KF69	250	35	45	-	165	4.0	70	70	6.5	-
KF79	250	40	55	-	165	4.0	80	80	6.5	-
		50	55	104	165	4.0	77	100	2.0	29.5
KF89	300	50	55	-	165	4.0	100	100	8.0	-
KF109	350	60	65	-	235	5.0	120	120	9.0	-
		80	85	184	210	5.0	134	170	13.0	45.0
KF129	450	70	75	-	336	5.0	140	140	9.0	-
		90	95	184	336	5.0	128.5	170	16.5	48.5
KF149	450	90	100	-	336	5.0	170	170	10.0	-
		100	120	214	330	5.0	169	210	10.5	50.0
KF169	550	110	120	-	427	5.0	210	210	10.0	-
		120	140	254	426	5.0	162	210	14.5	56.0
KF189	660	120	160	-	517	6.0	210	210	11.0	-
		140	160	306	518	6.0	190	250	6.0	62.0
With VLplus reinforced bearing system (G30)										
KF89	300	60	70	143	218	4.0	120	120	1.5	8
KF109	350	70	85	190	234	5.0	140	140	2.0	4
KF129	450	90	95	-	336	5.0	170	170	16.5	-
KF149	450	100	120	225	336	5.0	210	210	10.5	11
KF169	550	120	140	-	426	5.0	210	210	19.5	-

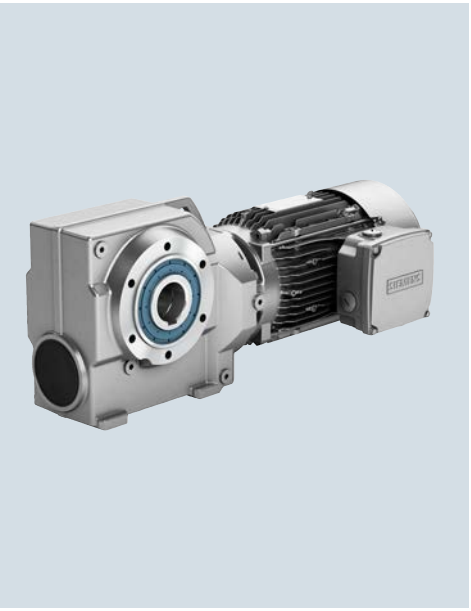
Inner contour of the flange design

Notes regarding the design of the customer's interface for the hollow shaft design

BAF., KAF.



Gearbox type	a1	d	d7	d1	d2	f1	f4	l1	l2
BAF.19	120	20	30	60	68	3.0	30.0	23.5	29.5
BAF.29	120	20	40	-	70	3.0	20.0	24.0	-
		25							
	160	20	40	70	101	3.5	20.0	8.5	24.5
		25							
BAF.39	160	30	55	93	100	3.5	27.0	11.0	31.5
		35							
		40							
BAF.39	200	30	55	93	119	3.5	27.0	16.0	31.5
		35							
		40							
BAF.49	200	35	55	93	119	3.5	27.0	16.0	31.5
		40							
KAF.39	160	25	45	80	102	3.5	24.0	2.0	29.5
		30							
KAF.49	200	30	50	90	120	3.5	25.0	4.0	30.5
		35							
KAF.69	250	40	55	104	165	4.0	23.5	2.0	29.5
KAF.79	250	40	55	104	165	4.0	23.0	2.0	29.5
KAF.89	300	50	70	135	215	4.0	37.0	2.0	44.5
KAF.109	350	60	85	184	210	5.0	36.0	13.0	45.0
		70	90						
KAF.129	450	70	95	184	336	5.0	41.5	16.5	48.5
KAF.149	450	80	120	214	330	5.0	41.0	40.0	50.0
		90							
KAF.169	550	100	140	254	426	5.0	56.0	14.5	56.0
		110							
KAF.189	660	120	160	306	518	6.0	66.0	6.0	62.0
With VLplus reinforced bearing system (G30)									
KAF.89	300	50	70	143	218	4.0	0	1.5	8
KAF.109	350	60	85	190	234	5.0	0	2.0	4
KAF.129	450	70	95	-	336	5.0	0	16.5	-
KAF.149	450	90	120	225	330	5.0	0	10.5	11
KAF.169	550	100	140	-	426	5.0	0	14.5	-



6/2 **Orientation**

6/3 **Geared motors up to 9.2 kW**
6/3 Selection and ordering data

6/42 **Transmission ratios and torques**
6/42 Selection and ordering data

6/47 **Transmission ratios and torques for very low speeds**
6/47 Selection and ordering data

6/52 **Efficiencies**
6/52 Selection and ordering data

6/62 **Dimensions**
6/62 Dimensional drawing overview
6/64 Helical worm geared motors C..29
6/68 Helical worm geared motors C..39
6/72 Helical worm geared motors C..49
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6/80 Helical worm geared motors C..89
6/84 Helical worm tandem geared motors

Protection covers
6/85 Protection covers for hollow shaft
6/85 Protection covers for hollow shaft with shrink disk
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Orientation

SIMOGEAR helical worm geared motors C

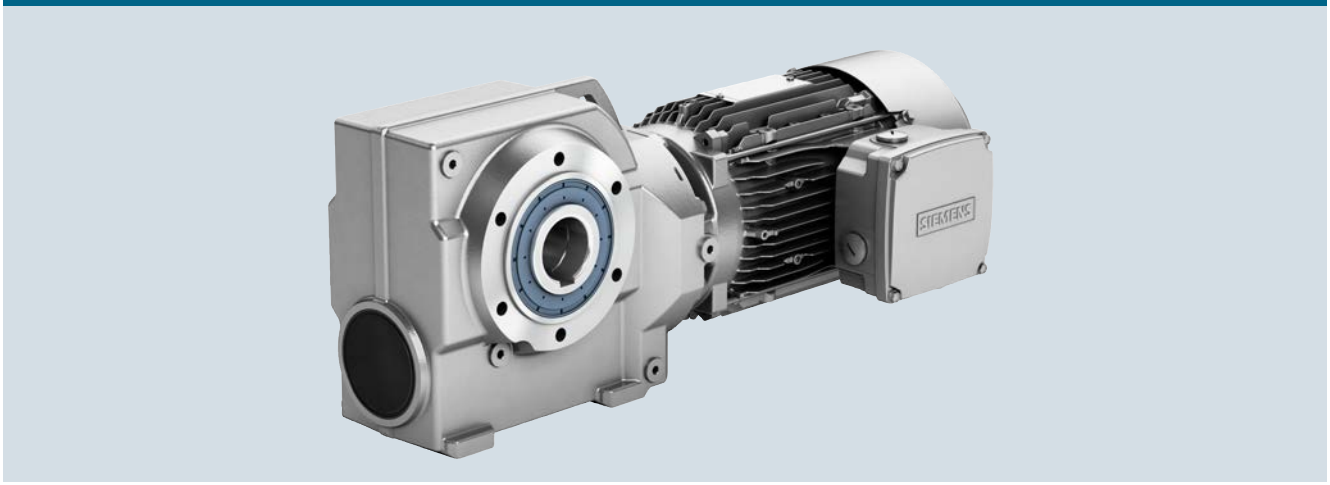


Fig. 6/1 Helical worm gearbox C

Gearbox designation	Number of sizes	Maximum output torque	Transmission ratio	Maximum motor power
		T_{2N}	i	P_1
		Nm	-	kW
C29 … C89 (2-stage)	5	82 … 1 450	6.48 … 363	7.5
C.29-D/Z19 … C.89-D/Z39 (4-stage or 5-stage)	5	80 … 1 310	270 … 19 000	7.5

SIMOGEAR helical worm geared motors are available in the following versions:

Transmission stages

- 2-stage helical worm geared motors
- 4-stage or 5-stage helical worm geared motors for very low output speeds

Designs

- Shaft-mounted design
- Flange-mounted design
- Design with integrated housing flange
- Foot-mounted design

Mounting

- Hollow shaft design with feather key
- Hollow shaft design with shrink disk
- Solid shaft design with and without feather key (at one end or both ends)

For helical worm gearboxes, the torque arm is supplied loose to enable it to be mounted as required on site. The position of the torque arm can be freely selected.

Selection and ordering data

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**C.29-LHN63MB4**							
	5.3	106	265.2	4 100	1.0	10	**2KJ4601 - ■ BC21 - ■ ■ M2**	
	6.1	95	230.1	4 200	1.1	10	**2KJ4601 - ■ BC21 - ■ ■ L2**	
	6.7	88	209.18	4 200	1.2	10	**2KJ4601 - ■ BC21 - ■ ■ K2**	
	7.8	77	179.4	4 200	1.4	10	**2KJ4601 - ■ BC21 - ■ ■ J2**	
	8.6	71	163.09	4 300	1.5	10	**2KJ4601 - ■ BC21 - ■ ■ H2**	
	9.8	64	143	4 300	1.7	10	**2KJ4601 - ■ BC21 - ■ ■ G2**	
	11	58	127.64	4 300	1.9	10	**2KJ4601 - ■ BC21 - ■ ■ F2**	
	12	52	113.75	4 400	2.1	10	**2KJ4601 - ■ BC21 - ■ ■ E2**	
	13	48	105	4 400	2.3	10	**2KJ4601 - ■ BC21 - ■ ■ D2**	
	15	42	91.93	4 400	2.6	10	**2KJ4601 - ■ BC21 - ■ ■ C2**	
	17	37	80.6	4 500	2.9	10	**2KJ4601 - ■ BC21 - ■ ■ B2**	
	19	34	73.12	4 500	3.2	10	**2KJ4601 - ■ BC21 - ■ ■ A2**	
	20	32	68.82	4 500	3.4	10	**2KJ4601 - ■ BC21 - ■ ■ X1**	
	23	28	60.67	4 500	3.9	10	**2KJ4601 - ■ BC21 - ■ ■ W1**	
	26	24	52.65	4 500	4.5	10	**2KJ4601 - ■ BC21 - ■ ■ V1**	
	28	27	49.87	4 500	3.8	10	**2KJ4601 - ■ BC21 - ■ ■ U1**	
	32	24	43.27	4 500	4.4	10	**2KJ4601 - ■ BC21 - ■ ■ T1**	
	35	22	39.33	4 500	4.8	10	**2KJ4601 - ■ BC21 - ■ ■ S1**	
	43	18	32.64	4 500	5.0	10	**2KJ4601 - ■ BC21 - ■ ■ Q1**	
	C.29-LHN63ME6							
	4.3	125	209.18	4 000	0.85	10	**2KJ4601 - ■ BF21 - ■ ■ K2**	**P01**
	5.0	111	179.4	4 100	0.97	10	**2KJ4601 - ■ BF21 - ■ ■ J2**	**P01**
	C.39-LHN63MB4							
	4.7	118	299	6 400	1.6	15	**2KJ4602 - ■ BC21 - ■ ■ N2**	
	5.3	107	265.2	6 500	1.8	15	**2KJ4602 - ■ BC21 - ■ ■ M2**	
	6.1	96	230.1	6 500	2.0	15	**2KJ4602 - ■ BC21 - ■ ■ L2**	
	C.39-LHN63ME6							
	3.0	168	299	6 200	1.1	15	**2KJ4602 - ■ BF21 - ■ ■ N2**	**P01**
	3.4	153	265.2	6 300	1.2	15	**2KJ4602 - ■ BF21 - ■ ■ M2**	**P01**
	3.9	137	230.1	6 300	1.4	15	**2KJ4602 - ■ BF21 - ■ ■ L2**	**P01**
	4.3	127	209.18	6 400	1.5	15	**2KJ4602 - ■ BF21 - ■ ■ K2**	**P01**
	C.49-LHN63ME6							
	3.0	177	299	8 700	2.0	21	**2KJ4603 - ■ BF21 - ■ ■ N2**	**P01**
	C.29-Z19-LHN63MB4							
	4.1	111	337.56	4 100	0.85	12	**2KJ4620 - ■ BC21 - ■ ■ C1**	
	4.5	103	311.44	4 100	0.91	12	**2KJ4620 - ■ BC21 - ■ ■ B1**	
	5.2	90	270.54	4 200	1.1	12	**2KJ4620 - ■ BC21 - ■ ■ A1**	
	C.39-Z19-LHN63MB4							
	1.9	205	736	6 100	0.85	18	**2KJ4622 - ■ BC21 - ■ ■ K1**	
	2.1	190	654	6 100	0.94	18	**2KJ4622 - ■ BC21 - ■ ■ J1**	
	2.3	178	604	6 200	1.0	18	**2KJ4622 - ■ BC21 - ■ ■ H1**	
	2.7	158	524	6 300	1.1	18	**2KJ4622 - ■ BC21 - ■ ■ G1**	
	3.1	141	456	6 300	1.3	18	**2KJ4622 - ■ BC21 - ■ ■ F1**	
	3.4	130	411	6 400	1.4	18	**2KJ4622 - ■ BC21 - ■ ■ E1**	
	3.6	124	387	6 400	1.5	18	**2KJ4622 - ■ BC21 - ■ ■ D1**	
	4.1	111	337.56	6 400	1.6	18	**2KJ4622 - ■ BC21 - ■ ■ C1**	
	4.5	104	311.44	6 500	1.8	18	**2KJ4622 - ■ BC21 - ■ ■ B1**	
	5.2	93	270.54	6 500	2.0	18	**2KJ4622 - ■ BC21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**C.49-Z19-LHN63MB4**							
	0.83	350	1 678	8 400	0.85	23	**2KJ4624 - ■ BC21 - ■ ■ R1**	
	0.91	325	1 525	8 400	0.94	23	**2KJ4624 - ■ BC21 - ■ ■ Q1**	
	1.0	285	1 330	8 600	1.1	23	**2KJ4624 - ■ BC21 - ■ ■ P1**	
	1.2	260	1 190	8 600	1.2	23	**2KJ4624 - ■ BC21 - ■ ■ N1**	
	1.3	235	1 057	8 700	1.3	23	**2KJ4624 - ■ BC21 - ■ ■ M1**	
	1.4	220	976	8 700	1.5	23	**2KJ4624 - ■ BC21 - ■ ■ L1**	
	1.6	199	848	8 700	1.7	23	**2KJ4624 - ■ BC21 - ■ ■ K1**	
	1.9	178	737	8 700	1.9	23	**2KJ4624 - ■ BC21 - ■ ■ J1**	
	C.69-Z19-LHN63MB4							
	0.65	605	2 134	10 800	0.85	32	**2KJ4626 - ■ BC21 - ■ ■ R1**	
	0.72	555	1 940	10 900	0.94	32	**2KJ4626 - ■ BC21 - ■ ■ Q1**	
	0.82	485	1 691	11 100	1.1	32	**2KJ4626 - ■ BC21 - ■ ■ P1**	
	0.92	435	1 514	11 200	1.2	32	**2KJ4626 - ■ BC21 - ■ ■ N1**	
	1.0	390	1 344	11 300	1.3	32	**2KJ4626 - ■ BC21 - ■ ■ M1**	
	1.1	360	1 241	11 400	1.5	32	**2KJ4626 - ■ BC21 - ■ ■ L1**	
	1.3	315	1 078	11 500	1.7	32	**2KJ4626 - ■ BC21 - ■ ■ K1**	
	1.5	280	937	11 500	1.9	32	**2KJ4626 - ■ BC21 - ■ ■ J1**	
	C.89-D39-LHN63MB4							
	0.3	1 360	4 595	16 300	0.81	56	**2KJ4630 - ■ BC21 - ■ ■ D1**	
	0.35	1 190	4 023	16 300	0.93	56	**2KJ4630 - ■ BC21 - ■ ■ C1**	
	0.4	1 050	3 527	16 300	1.1	56	**2KJ4630 - ■ BC21 - ■ ■ B1**	
	0.44	955	3 200	16 300	1.2	56	**2KJ4630 - ■ BC21 - ■ ■ A1**	
	C.89-Z39-LHN63MB4							
	0.45	940	3 111	16 300	1.2	54	**2KJ4628 - ■ BC21 - ■ ■ T1**	
	0.5	840	2 766	16 300	1.3	54	**2KJ4628 - ■ BC21 - ■ ■ S1**	
	0.57	740	2 429	16 300	1.5	54	**2KJ4628 - ■ BC21 - ■ ■ R1**	
	0.63	675	2 208	16 300	1.7	54	**2KJ4628 - ■ BC21 - ■ ■ Q1**	
	0.74	580	1 889	16 300	2.0	54	**2KJ4628 - ■ BC21 - ■ ■ P1**	
0.12	**C.29-LHN63MC4**							
	5.8	131	230.1	4 000	0.83	10	**2KJ4601 - ■ BD21 - ■ ■ L2**	
	6.4	121	209.18	4 000	0.89	10	**2KJ4601 - ■ BD21 - ■ ■ K2**	
	7.4	107	179.4	4 100	1.0	10	**2KJ4601 - ■ BD21 - ■ ■ J2**	
	8.2	98	163.09	4 100	1.1	10	**2KJ4601 - ■ BD21 - ■ ■ H2**	
	9.3	88	143	4 200	1.3	10	**2KJ4601 - ■ BD21 - ■ ■ G2**	
	10	80	127.64	4 200	1.4	10	**2KJ4601 - ■ BD21 - ■ ■ F2**	
	12	72	113.75	4 300	1.5	10	**2KJ4601 - ■ BD21 - ■ ■ E2**	
	13	67	105	4 300	1.6	10	**2KJ4601 - ■ BD21 - ■ ■ D2**	
	15	59	91.93	4 300	1.9	10	**2KJ4601 - ■ BD21 - ■ ■ C2**	
	17	52	80.6	4 400	2.1	10	**2KJ4601 - ■ BD21 - ■ ■ B2**	
	18	47	73.12	4 400	2.3	10	**2KJ4601 - ■ BD21 - ■ ■ A2**	
	19	44	68.82	4 400	2.5	10	**2KJ4601 - ■ BD21 - ■ ■ X1**	
	22	39	60.67	4 400	2.8	10	**2KJ4601 - ■ BD21 - ■ ■ W1**	
	25	34	52.65	4 500	3.2	10	**2KJ4601 - ■ BD21 - ■ ■ V1**	
	27	37	49.87	4 500	2.7	10	**2KJ4601 - ■ BD21 - ■ ■ U1**	
	31	33	43.27	4 500	3.1	10	**2KJ4601 - ■ BD21 - ■ ■ T1**	
	34	30	39.33	4 500	3.4	10	**2KJ4601 - ■ BD21 - ■ ■ S1**	
	40	26	33.73	4 500	4.0	10	**2KJ4601 - ■ BD21 - ■ ■ R1**	
	41	25	32.64	4 500	3.5	10	**2KJ4601 - ■ BD21 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.12	**C.29-LHN63MC4**							
	47	22	28.32	4 500	4.1	10	**2KJ4601 - ■ BD21 - ■ ■ P1**	
	52	20	25.75	4 500	4.5	10	**2KJ4601 - ■ BD21 - ■ ■ N1**	
	C.39-LHN63MC4							
	4.5	163	299	6 200	1.2	15	**2KJ4602 - ■ BD21 - ■ ■ N2**	
	5.0	148	265.2	6 300	1.3	15	**2KJ4602 - ■ BD21 - ■ ■ M2**	
	5.8	132	230.1	6 400	1.5	15	**2KJ4602 - ■ BD21 - ■ ■ L2**	
	6.4	122	209.18	6 400	1.6	15	**2KJ4602 - ■ BD21 - ■ ■ K2**	
	7.4	107	179.4	6 500	1.8	15	**2KJ4602 - ■ BD21 - ■ ■ J2**	
	8.2	98	163.09	6 500	2.0	15	**2KJ4602 - ■ BD21 - ■ ■ H2**	
	C.39-LHN63MF6							
	2.9	225	299	6 000	0.84	16	**2KJ4602 - ■ BG21 - ■ ■ N2**	**P01**
	3.3	205	265.2	6 100	0.92	16	**2KJ4602 - ■ BG21 - ■ ■ M2**	**P01**
	3.8	184	230.1	6 200	1.0	16	**2KJ4602 - ■ BG21 - ■ ■ L2**	**P01**
	4.2	171	209.18	6 200	1.1	16	**2KJ4602 - ■ BG21 - ■ ■ K2**	**P01**
	C.49-LHN63MC4							
	4.5	171	299	8 700	2.0	21	**2KJ4603 - ■ BD21 - ■ ■ N2**	
	C.49-LHN63MF6							
	2.9	235	299	8 700	1.5	21	**2KJ4603 - ■ BG21 - ■ ■ N2**	**P01**
	3.3	215	265.2	8 700	1.6	21	**2KJ4603 - ■ BG21 - ■ ■ M2**	**P01**
	3.8	193	230.1	8 700	1.8	21	**2KJ4603 - ■ BG21 - ■ ■ L2**	**P01**
	4.2	179	209.18	8 700	2.0	21	**2KJ4603 - ■ BG21 - ■ ■ K2**	**P01**
	C.39-Z19-LHN63MC4							
	2.9	210	456	6 100	0.84	18	**2KJ4622 - ■ BD21 - ■ ■ F1**	
	3.2	197	411	6 100	0.92	18	**2KJ4622 - ■ BD21 - ■ ■ E1**	
	3.4	187	387	6 200	0.97	18	**2KJ4622 - ■ BD21 - ■ ■ D1**	
	4.0	168	337.56	6 200	1.1	18	**2KJ4622 - ■ BD21 - ■ ■ C1**	
	4.3	157	311.44	6 300	1.2	18	**2KJ4622 - ■ BD21 - ■ ■ B1**	
	4.9	141	270.54	6 300	1.3	18	**2KJ4622 - ■ BD21 - ■ ■ A1**	
	C.49-Z19-LHN63MC4							
	1.3	360	1 057	8 300	0.89	23	**2KJ4624 - ■ BD21 - ■ ■ M1**	
	1.4	335	976	8 400	0.96	23	**2KJ4624 - ■ BD21 - ■ ■ L1**	
	1.6	300	848	8 500	1.1	23	**2KJ4624 - ■ BD21 - ■ ■ K1**	
	1.8	270	737	8 600	1.3	23	**2KJ4624 - ■ BD21 - ■ ■ J1**	
	2.0	245	665	8 700	1.4	23	**2KJ4624 - ■ BD21 - ■ ■ H1**	
	2.1	235	626	8 700	1.4	23	**2KJ4624 - ■ BD21 - ■ ■ G1**	
	2.4	210	546	8 700	1.6	23	**2KJ4624 - ■ BD21 - ■ ■ F1**	
	2.7	200	503	8 700	1.7	23	**2KJ4624 - ■ BD21 - ■ ■ E1**	
	3.1	179	437	8 700	1.9	23	**2KJ4624 - ■ BD21 - ■ ■ D1**	
	C.69-Z19-LHN63MC4							
	0.99	595	1 344	10 800	0.88	32	**2KJ4626 - ■ BD21 - ■ ■ M1**	
	1.1	550	1 241	10 900	0.96	32	**2KJ4626 - ■ BD21 - ■ ■ L1**	
	1.2	485	1 078	11 100	1.1	32	**2KJ4626 - ■ BD21 - ■ ■ K1**	
	1.4	425	937	11 200	1.3	32	**2KJ4626 - ■ BD21 - ■ ■ J1**	
	1.6	385	846	11 300	1.4	32	**2KJ4626 - ■ BD21 - ■ ■ H1**	
	1.7	365	796	11 300	1.5	32	**2KJ4626 - ■ BD21 - ■ ■ G1**	
	1.9	320	694	11 400	1.7	32	**2KJ4626 - ■ BD21 - ■ ■ F1**	
	2.1	300	640	11 500	1.8	32	**2KJ4626 - ■ BD21 - ■ ■ E1**	
	C.89-Z39-LHN63MC4							
	0.48	1 280	2 766	16 300	0.87	54	**2KJ4628 - ■ BD21 - ■ ■ S1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.12	**C.89-Z39-LHN63MC4**							
	0.55	1 130	2 429	16 300	1.0	54	**2KJ4628 - ■ BD21 - ■ ■ R1**	
	0.6	1 030	2 208	16 300	1.1	54	**2KJ4628 - ■ BD21 - ■ ■ Q1**	
	0.71	885	1 889	16 300	1.3	54	**2KJ4628 - ■ BD21 - ■ ■ P1**	
	0.78	810	1 718	16 300	1.4	54	**2KJ4628 - ■ BD21 - ■ ■ N1**	
	0.88	720	1 518	16 300	1.6	54	**2KJ4628 - ■ BD21 - ■ ■ M1**	
	0.97	655	1 380	16 300	1.7	54	**2KJ4628 - ■ BD21 - ■ ■ L1**	
	1.1	580	1 209	16 300	2.0	54	**2KJ4628 - ■ BD21 - ■ ■ K1**	
0.18	**C.29-LHN63MD4**							
	9.4	131	143	4 000	0.84	10	**2KJ4601 - ■ BE21 - ■ ■ G2**	
	11	118	127.64	4 000	0.93	10	**2KJ4601 - ■ BE21 - ■ ■ F2**	
	12	107	113.75	4 100	1.0	10	**2KJ4601 - ■ BE21 - ■ ■ E2**	
	13	99	105	4 100	1.1	10	**2KJ4601 - ■ BE21 - ■ ■ D2**	
	15	88	91.93	4 200	1.3	10	**2KJ4601 - ■ BE21 - ■ ■ C2**	
	17	77	80.6	4 200	1.4	10	**2KJ4601 - ■ BE21 - ■ ■ B2**	
	18	70	73.12	4 300	1.6	10	**2KJ4601 - ■ BE21 - ■ ■ A2**	
	20	66	68.82	4 300	1.7	10	**2KJ4601 - ■ BE21 - ■ ■ X1**	
	22	58	60.67	4 300	1.9	10	**2KJ4601 - ■ BE21 - ■ ■ W1**	
	26	51	52.65	4 400	2.2	10	**2KJ4601 - ■ BE21 - ■ ■ V1**	
	27	55	49.87	4 400	1.8	10	**2KJ4601 - ■ BE21 - ■ ■ U1**	
	31	48	43.27	4 400	2.1	10	**2KJ4601 - ■ BE21 - ■ ■ T1**	
	34	44	39.33	4 400	2.3	10	**2KJ4601 - ■ BE21 - ■ ■ S1**	
	40	38	33.73	4 400	2.7	10	**2KJ4601 - ■ BE21 - ■ ■ R1**	
	41	37	32.64	4 500	2.4	10	**2KJ4601 - ■ BE21 - ■ ■ Q1**	
	48	32	28.32	4 500	2.8	10	**2KJ4601 - ■ BE21 - ■ ■ P1**	
	52	30	25.75	4 500	3.0	10	**2KJ4601 - ■ BE21 - ■ ■ N1**	
	61	26	22.08	4 500	3.6	10	**2KJ4601 - ■ BE21 - ■ ■ M1**	
	67	23	20.07	4 500	3.9	10	**2KJ4601 - ■ BE21 - ■ ■ L1**	
	77	20	17.6	4 500	4.5	10	**2KJ4601 - ■ BE21 - ■ ■ K1**	
	86	18	15.71	4 500	5.0	10	**2KJ4601 - ■ BE21 - ■ ■ J1**	
	C.39-LHN63MD4							
	5.1	220	265.2	6 000	0.87	15	**2KJ4602 - ■ BE21 - ■ ■ M2**	
	5.9	197	230.1	6 100	0.98	15	**2KJ4602 - ■ BE21 - ■ ■ L2**	
	6.5	181	209.18	6 200	1.1	15	**2KJ4602 - ■ BE21 - ■ ■ K2**	
	7.5	159	179.4	6 300	1.2	15	**2KJ4602 - ■ BE21 - ■ ■ J2**	
	8.3	146	163.09	6 300	1.3	15	**2KJ4602 - ■ BE21 - ■ ■ H2**	
	9.4	129	143	6 400	1.5	15	**2KJ4602 - ■ BE21 - ■ ■ G2**	
	11	117	127.64	6 400	1.7	15	**2KJ4602 - ■ BE21 - ■ ■ F2**	
	12	104	113.75	6 500	1.9	15	**2KJ4602 - ■ BE21 - ■ ■ E2**	
	13	97	105	6 500	2.0	15	**2KJ4602 - ■ BE21 - ■ ■ D2**	
	C.49-LHN63MD4							
	4.5	255	299	8 600	1.4	21	**2KJ4603 - ■ BE21 - ■ ■ N2**	
	5.1	230	265.2	8 700	1.5	21	**2KJ4603 - ■ BE21 - ■ ■ M2**	
	5.9	200	230.1	8 700	1.7	21	**2KJ4603 - ■ BE21 - ■ ■ L2**	
	6.5	188	209.18	8 700	1.9	21	**2KJ4603 - ■ BE21 - ■ ■ K2**	
	C.49-LHN71MD6							
	3.0	350	299	8 400	0.98	23	**2KJ4603 - ■ CE21 - ■ ■ N2**	**P01**
	3.4	320	265.2	8 500	1.1	23	**2KJ4603 - ■ CE21 - ■ ■ M2**	**P01**
	3.9	285	230.1	8 600	1.2	23	**2KJ4603 - ■ CE21 - ■ ■ L2**	**P01**
	4.3	265	209.18	8 600	1.3	23	**2KJ4603 - ■ CE21 - ■ ■ K2**	**P01**

Article No. supplement		
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.18	**C.69-LHN71MD6**							
	2.5	435	360	11 200	1.5	32	**2KJ4604 - ■ CE21 - ■ ■ M2**	**P01**
	2.8	395	319.8	11 300	1.7	32	**2KJ4604 - ■ CE21 - ■ ■ L2**	**P01**
	3.2	355	280.8	11 400	1.9	32	**2KJ4604 - ■ CE21 - ■ ■ K2**	**P01**
	3.5	330	255.27	11 400	2.0	32	**2KJ4604 - ■ CE21 - ■ ■ J2**	**P01**
	C.39-Z19-LHN63MD4							
	5.0	225	270.54	6 000	0.81	18	**2KJ4622 - ■ BE21 - ■ ■ A1**	
	C.49-Z19-LHN63MD4							
	2.0	400	665	8 200	0.85	23	**2KJ4624 - ■ BE21 - ■ ■ H1**	
	2.2	380	626	8 300	0.89	23	**2KJ4624 - ■ BE21 - ■ ■ G1**	
	2.5	340	546	8 400	1.0	23	**2KJ4624 - ■ BE21 - ■ ■ F1**	
	2.7	320	503	8 500	1.1	23	**2KJ4624 - ■ BE21 - ■ ■ E1**	
	3.1	285	437	8 600	1.2	23	**2KJ4624 - ■ BE21 - ■ ■ D1**	
	3.6	255	380	8 600	1.3	23	**2KJ4624 - ■ BE21 - ■ ■ C1**	
	3.9	235	343.03	8 700	1.5	23	**2KJ4624 - ■ BE21 - ■ ■ B1**	
	4.2	225	322.85	8 700	1.5	23	**2KJ4624 - ■ BE21 - ■ ■ A1**	
	C.69-Z19-LHN63MD4							
	1.6	625	846	10 700	0.87	32	**2KJ4626 - ■ BE21 - ■ ■ H1**	
	1.7	590	796	10 800	0.92	32	**2KJ4626 - ■ BE21 - ■ ■ G1**	
	1.9	520	694	11 000	1.1	32	**2KJ4626 - ■ BE21 - ■ ■ F1**	
	2.1	485	640	11 100	1.1	32	**2KJ4626 - ■ BE21 - ■ ■ E1**	
	2.4	425	556	11 200	1.3	32	**2KJ4626 - ■ BE21 - ■ ■ D1**	
	2.8	375	483	11 300	1.5	32	**2KJ4626 - ■ BE21 - ■ ■ C1**	
	3.1	345	436	11 400	1.7	32	**2KJ4626 - ■ BE21 - ■ ■ B1**	
	3.3	325	411	11 400	1.8	32	**2KJ4626 - ■ BE21 - ■ ■ A1**	
	C.89-Z39-LHN63MD4							
	0.71	1 430	1 889	16 300	0.8	55	**2KJ4628 - ■ BE21 - ■ ■ P1**	
	0.79	1 300	1 718	16 300	0.87	55	**2KJ4628 - ■ BE21 - ■ ■ N1**	
	0.89	1 160	1 518	16 300	0.99	55	**2KJ4628 - ■ BE21 - ■ ■ M1**	
	0.98	1 060	1 380	16 300	1.1	55	**2KJ4628 - ■ BE21 - ■ ■ L1**	
	1.1	935	1 209	16 300	1.2	55	**2KJ4628 - ■ BE21 - ■ ■ K1**	
	1.2	870	1 116	16 300	1.3	55	**2KJ4628 - ■ BE21 - ■ ■ J1**	
	1.4	775	988	16 300	1.5	55	**2KJ4628 - ■ BE21 - ■ ■ H1**	
	1.6	650	822	16 300	1.8	55	**2KJ4628 - ■ BE21 - ■ ■ G1**	
	1.7	615	774	16 300	1.9	55	**2KJ4628 - ■ BE21 - ■ ■ F1**	
0.25	**C.29-LHN71MB4**							
	13	137	105	3 900	0.8	12	**2KJ4601 - ■ CC21 - ■ ■ D2**	
	15	121	91.93	4 000	0.91	12	**2KJ4601 - ■ CC21 - ■ ■ C2**	
	17	107	80.6	4 100	1.0	12	**2KJ4601 - ■ CC21 - ■ ■ B2**	
	19	97	73.12	4 100	1.1	12	**2KJ4601 - ■ CC21 - ■ ■ A2**	
	20	92	68.82	4 200	1.2	12	**2KJ4601 - ■ CC21 - ■ ■ X1**	
	22	81	60.67	4 200	1.4	12	**2KJ4601 - ■ CC21 - ■ ■ W1**	
	26	70	52.65	4 300	1.6	12	**2KJ4601 - ■ CC21 - ■ ■ V1**	
	27	77	49.87	4 200	1.3	12	**2KJ4601 - ■ CC21 - ■ ■ U1**	
	31	67	43.27	4 300	1.5	12	**2KJ4601 - ■ CC21 - ■ ■ T1**	
	34	61	39.33	4 300	1.7	12	**2KJ4601 - ■ CC21 - ■ ■ S1**	
	40	53	33.73	4 400	2.0	12	**2KJ4601 - ■ CC21 - ■ ■ R1**	
	42	52	32.64	4 400	1.7	12	**2KJ4601 - ■ CC21 - ■ ■ Q1**	
	48	45	28.32	4 400	2.0	12	**2KJ4601 - ■ CC21 - ■ ■ P1**	
	53	41	25.75	4 400	2.2	12	**2KJ4601 - ■ CC21 - ■ ■ N1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.25	**C.29-LHN71MB4**							
	61	35	22.08	4 500	2.6	12	**2KJ4601 - ■ CC21 - ■ ■ M1**	
	68	32	20.07	4 500	2.8	12	**2KJ4601 - ■ CC21 - ■ ■ L1**	
	77	28	17.6	4 500	3.2	12	**2KJ4601 - ■ CC21 - ■ ■ K1**	
	86	25	15.71	4 400	3.6	12	**2KJ4601 - ■ CC21 - ■ ■ J1**	
	97	23	14	4 300	4.1	12	**2KJ4601 - ■ CC21 - ■ ■ H1**	
	105	21	12.92	4 200	4.5	12	**2KJ4601 - ■ CC21 - ■ ■ G1**	
	C.39-LHN71MB4							
	7.6	220	179.4	6 000	0.88	17	**2KJ4602 - ■ CC21 - ■ ■ J2**	
	8.3	200	163.09	6 100	0.96	17	**2KJ4602 - ■ CC21 - ■ ■ H2**	
	9.5	179	143	6 200	1.1	17	**2KJ4602 - ■ CC21 - ■ ■ G2**	
	11	161	127.64	6 300	1.2	17	**2KJ4602 - ■ CC21 - ■ ■ F2**	
	12	144	113.75	6 300	1.3	17	**2KJ4602 - ■ CC21 - ■ ■ E2**	
	13	134	105	6 400	1.5	17	**2KJ4602 - ■ CC21 - ■ ■ D2**	
	15	117	91.93	6 400	1.7	17	**2KJ4602 - ■ CC21 - ■ ■ C2**	
	17	103	80.6	6 500	1.9	17	**2KJ4602 - ■ CC21 - ■ ■ B2**	
	19	94	73.12	6 500	2.1	17	**2KJ4602 - ■ CC21 - ■ ■ A2**	
	20	88	68.82	6 500	2.2	17	**2KJ4602 - ■ CC21 - ■ ■ X1**	
	22	78	60.67	6 600	2.4	17	**2KJ4602 - ■ CC21 - ■ ■ W1**	
	27	78	49.87	6 600	2.5	17	**2KJ4602 - ■ CC21 - ■ ■ U1**	
	C.49-LHN71MB4							
	4.5	350	299	8 400	0.99	23	**2KJ4603 - ■ CC21 - ■ ■ N2**	
	5.1	320	265.2	8 500	1.1	23	**2KJ4603 - ■ CC21 - ■ ■ M2**	
	5.9	280	230.1	8 600	1.2	23	**2KJ4603 - ■ CC21 - ■ ■ L2**	
	6.5	260	209.18	8 600	1.4	23	**2KJ4603 - ■ CC21 - ■ ■ K2**	
	7.6	225	179.4	8 700	1.6	23	**2KJ4603 - ■ CC21 - ■ ■ J2**	
	8.3	205	163.09	8 700	1.7	23	**2KJ4603 - ■ CC21 - ■ ■ H2**	
	9.5	184	143	8 700	1.9	23	**2KJ4603 - ■ CC21 - ■ ■ G2**	
	11	165	127.64	8 500	2.2	23	**2KJ4603 - ■ CC21 - ■ ■ F2**	
	C.49-LHN71MF6							
	3.8	400	230.1	8 200	0.87	24	**2KJ4603 - ■ CG21 - ■ ■ L2**	**P01**
	4.2	370	209.18	8 300	0.94	24	**2KJ4603 - ■ CG21 - ■ ■ K2**	**P01**
	C.69-LHN71MB4							
	3.8	430	360	11200	1.6	32	**2KJ4604 - ■ CC21 - ■ ■ M2**	
	4.2	390	319.8	11 300	1.7	32	**2KJ4604 - ■ CC21 - ■ ■ L2**	
	4.8	350	280.8	11 400	1.9	32	**2KJ4604 - ■ CC21 - ■ ■ K2**	
	5.3	320	255.27	11 400	2.1	32	**2KJ4604 - ■ CC21 - ■ ■ J2**	
	C.69-LHN71MF6							
	2.4	610	360	10 800	1.1	33	**2KJ4604 - ■ CG21 - ■ ■ M2**	**P01**
	2.8	555	319.8	10 900	1.2	33	**2KJ4604 - ■ CG21 - ■ ■ L2**	**P01**
	3.1	500	280.8	11 000	1.3	33	**2KJ4604 - ■ CG21 - ■ ■ K2**	**P01**
	3.4	465	255.27	11 100	1.5	33	**2KJ4604 - ■ CG21 - ■ ■ J2**	**P01**
	C.49-Z19-LHN71MB4							
	3.2	405	437	8 100	0.84	25	**2KJ4624 - ■ CC21 - ■ ■ D1**	
	3.7	365	380	8 300	0.95	25	**2KJ4624 - ■ CC21 - ■ ■ C1**	
	4.1	335	343.03	8 400	1.0	25	**2KJ4624 - ■ CC21 - ■ ■ B1**	
	4.3	320	322.85	8 500	1.1	25	**2KJ4624 - ■ CC21 - ■ ■ A1**	
	C.69-Z19-LHN71MB4							
	2.2	685	640	10 600	0.82	34	**2KJ4626 - ■ CC21 - ■ ■ E1**	
	2.5	600	556	10 800	0.94	34	**2KJ4626 - ■ CC21 - ■ ■ D1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.25	**C.69-Z19-LHN71MB4**							
	2.9	530	483	11 000	1.1	34	**2KJ4626 - ■ CC21 - ■ ■ C1**	
	3.2	485	436	11 100	1.2	34	**2KJ4626 - ■ CC21 - ■ ■ B1**	
	3.4	460	411	11 100	1.3	34	**2KJ4626 - ■ CC21 - ■ ■ A1**	
	C.89-Z39-LHN71MB4							
	1.2	1 220	1 116	16 300	0.96	56	**2KJ4628 - ■ CC21 - ■ ■ J1**	
	1.2	1 320	1 209	16 300	0.88	56	**2KJ4628 - ■ CC21 - ■ ■ K1**	
	1.4	1 090	988	16 300	1.1	56	**2KJ4628 - ■ CC21 - ■ ■ H1**	
	1.7	920	822	16 300	1.3	56	**2KJ4628 - ■ CC21 - ■ ■ G1**	
	1.8	870	774	16 300	1.4	56	**2KJ4628 - ■ CC21 - ■ ■ F1**	
	2.0	785	693	16 300	1.5	56	**2KJ4628 - ■ CC21 - ■ ■ E1**	
	2.4	680	590	16 300	1.8	56	**2KJ4628 - ■ CC21 - ■ ■ D1**	
0.37	**C.29-LHN71MD4**							
	20	135	68.82	4 000	0.82	12	**2KJ4601 - ■ CE21 - ■ ■ X1**	
	22	119	60.67	4 000	0.92	12	**2KJ4601 - ■ CE21 - ■ ■ W1**	
	26	103	52.65	4 100	1.1	12	**2KJ4601 - ■ CE21 - ■ ■ V1**	
	27	113	49.87	4 100	0.9	12	**2KJ4601 - ■ CE21 - ■ ■ U1**	
	31	99	43.27	4 100	1.0	12	**2KJ4601 - ■ CE21 - ■ ■ T1**	
	35	90	39.33	4 200	1.1	12	**2KJ4601 - ■ CE21 - ■ ■ S1**	
	40	78	33.73	4 200	1.3	12	**2KJ4601 - ■ CE21 - ■ ■ R1**	
	42	76	32.64	4 300	1.2	12	**2KJ4601 - ■ CE21 - ■ ■ Q1**	
	48	66	28.32	4 300	1.4	12	**2KJ4601 - ■ CE21 - ■ ■ P1**	
	53	60	25.75	4 300	1.5	12	**2KJ4601 - ■ CE21 - ■ ■ N1**	
	62	52	22.08	4 400	1.7	12	**2KJ4601 - ■ CE21 - ■ ■ M1**	
	68	48	20.07	4 400	1.9	12	**2KJ4601 - ■ CE21 - ■ ■ L1**	
	77	42	17.6	4 300	2.2	12	**2KJ4601 - ■ CE21 - ■ ■ K1**	
	87	37	15.71	4 200	2.5	12	**2KJ4601 - ■ CE21 - ■ ■ J1**	
	97	33	14	4 100	2.8	12	**2KJ4601 - ■ CE21 - ■ ■ H1**	
	105	31	12.92	4 000	3.0	12	**2KJ4601 - ■ CE21 - ■ ■ G1**	
	120	27	11.31	3 900	3.5	12	**2KJ4601 - ■ CE21 - ■ ■ F1**	
	137	24	9.92	3 700	4.0	12	**2KJ4601 - ■ CE21 - ■ ■ E1**	
	151	22	9	3 600	4.3	12	**2KJ4601 - ■ CE21 - ■ ■ D1**	
	161	20	8.47	3 600	4.6	12	**2KJ4601 - ■ CE21 - ■ ■ C1**	
	182	18	7.47	3 500	4.9	12	**2KJ4601 - ■ CE21 - ■ ■ B1**	
	C.39-LHN71MD4							
	11	235	127.64	6 000	0.82	17	**2KJ4602 - ■ CE21 - ■ ■ F2**	
	12	210	113.75	6 100	0.91	17	**2KJ4602 - ■ CE21 - ■ ■ E2**	
	13	197	105	6 100	0.98	17	**2KJ4602 - ■ CE21 - ■ ■ D2**	
	15	173	91.93	6 200	1.1	17	**2KJ4602 - ■ CE21 - ■ ■ C2**	
	17	152	80.6	6 300	1.3	17	**2KJ4602 - ■ CE21 - ■ ■ B2**	
	19	138	73.12	6 300	1.4	17	**2KJ4602 - ■ CE21 - ■ ■ A2**	
	20	130	68.82	6 400	1.5	17	**2KJ4602 - ■ CE21 - ■ ■ X1**	
	22	115	60.67	6 400	1.6	17	**2KJ4602 - ■ CE21 - ■ ■ W1**	
	26	100	52.65	6 500	1.7	17	**2KJ4602 - ■ CE21 - ■ ■ V1**	
	27	115	49.87	6 400	1.7	17	**2KJ4602 - ■ CE21 - ■ ■ U1**	
	31	100	43.27	6 500	2.0	17	**2KJ4602 - ■ CE21 - ■ ■ T1**	
	35	91	39.33	6 500	2.2	17	**2KJ4602 - ■ CE21 - ■ ■ S1**	
	40	78	33.73	6 500	2.6	17	**2KJ4602 - ■ CE21 - ■ ■ R1**	
	C.49-LHN71MD4							
	5.9	415	230.1	8 100	0.84	23	**2KJ4603 - ■ CE21 - ■ ■ L2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.37	**C.49-LHN71MD4**							
	6.5	380	209.18	8 300	0.92	23	**2KJ4603 - ■ CE21 - ■ ■ K2**	
	7.6	335	179.4	8 400	1.1	23	**2KJ4603 - ■ CE21 - ■ ■ J2**	
	8.3	305	163.09	8 300	1.2	23	**2KJ4603 - ■ CE21 - ■ ■ H2**	
	9.5	270	143	8 100	1.3	23	**2KJ4603 - ■ CE21 - ■ ■ G2**	
	11	240	127.64	8 000	1.5	23	**2KJ4603 - ■ CE21 - ■ ■ F2**	
	12	215	113.75	7 800	1.6	23	**2KJ4603 - ■ CE21 - ■ ■ E2**	
	13	200	105	7 600	1.8	23	**2KJ4603 - ■ CE21 - ■ ■ D2**	
	15	177	91.93	7 400	2.0	23	**2KJ4603 - ■ CE21 - ■ ■ C2**	
	17	155	80.6	7 200	2.2	23	**2KJ4603 - ■ CE21 - ■ ■ B2**	
	19	140	73.12	7 000	2.3	23	**2KJ4603 - ■ CE21 - ■ ■ A2**	
	20	132	68.82	6 900	2.3	23	**2KJ4603 - ■ CE21 - ■ ■ X1**	
	C.69-LHN71MD4							
	3.8	640	360	10 700	1.1	32	**2KJ4604 - ■ CE21 - ■ ■ M2**	
	4.3	575	319.8	10 800	1.2	32	**2KJ4604 - ■ CE21 - ■ ■ L2**	
	4.8	515	280.8	11 000	1.3	32	**2KJ4604 - ■ CE21 - ■ ■ K2**	
	5.3	470	255.27	11 100	1.4	32	**2KJ4604 - ■ CE21 - ■ ■ J2**	
	6.2	410	218.4	11 200	1.6	32	**2KJ4604 - ■ CE21 - ■ ■ H2**	
	6.8	375	198.55	11 300	1.8	32	**2KJ4604 - ■ CE21 - ■ ■ G2**	
	7.7	335	175.5	11 400	2.0	32	**2KJ4604 - ■ CE21 - ■ ■ F2**	
	8.5	305	159.55	11 500	2.1	32	**2KJ4604 - ■ CE21 - ■ ■ E2**	
	C.69-Z19-LHN71MD4							
	3.3	725	411	10 500	0.81	34	**2KJ4626 - ■ CE21 - ■ ■ A1**	
	C.89-Z39-LHN71MD4							
	1.7	1 440	822	16 300	0.82	57	**2KJ4628 - ■ CE21 - ■ ■ G1**	
	1.8	1 360	774	16 300	0.88	57	**2KJ4628 - ■ CE21 - ■ ■ F1**	
	2.0	1 230	693	16 300	0.98	57	**2KJ4628 - ■ CE21 - ■ ■ E1**	
	2.3	1 060	590	16 300	1.2	57	**2KJ4628 - ■ CE21 - ■ ■ D1**	
	3.8	685	360	16 300	1.9	57	**2KJ4628 - ■ CE21 - ■ ■ A1**	
0.55	**C.29-LHN71ME4**							
	40	118	33.73	4 000	0.87	13	**2KJ4601 - ■ CF21 - ■ ■ R1**	
	47	100	28.32	4 100	0.9	13	**2KJ4601 - ■ CF21 - ■ ■ P1**	
	52	92	25.75	4 200	0.98	13	**2KJ4601 - ■ CF21 - ■ ■ N1**	
	60	79	22.08	4 200	1.2	13	**2KJ4601 - ■ CF21 - ■ ■ M1**	
	67	72	20.07	4 100	1.3	13	**2KJ4601 - ■ CF21 - ■ ■ L1**	
	76	63	17.6	4 000	1.5	13	**2KJ4601 - ■ CF21 - ■ ■ K1**	
	85	56	15.71	4 000	1.6	13	**2KJ4601 - ■ CF21 - ■ ■ J1**	
	95	50	14	3 900	1.8	13	**2KJ4601 - ■ CF21 - ■ ■ H1**	
	103	46	12.92	3 800	2.0	13	**2KJ4601 - ■ CF21 - ■ ■ G1**	
	118	41	11.31	3 700	2.3	13	**2KJ4601 - ■ CF21 - ■ ■ F1**	
	135	36	9.92	3 600	2.6	13	**2KJ4601 - ■ CF21 - ■ ■ E1**	
	148	32	9	3 500	2.9	13	**2KJ4601 - ■ CF21 - ■ ■ D1**	
	158	30	8.47	3 500	3.0	13	**2KJ4601 - ■ CF21 - ■ ■ C1**	
	179	27	7.47	3 300	3.3	13	**2KJ4601 - ■ CF21 - ■ ■ B1**	
	206	23	6.48	3 200	3.6	13	**2KJ4601 - ■ CF21 - ■ ■ A1**	
	C.39-LHN71ME4							
	17	230	80.6	6 000	0.84	18	**2KJ4602 - ■ CF21 - ■ ■ B2**	
	18	205	73.12	6 100	0.93	18	**2KJ4602 - ■ CF21 - ■ ■ A2**	
	19	197	68.82	6 100	0.98	18	**2KJ4602 - ■ CF21 - ■ ■ X1**	
	22	174	60.67	6 200	1.1	18	**2KJ4602 - ■ CF21 - ■ ■ W1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**C.39-LHN71ME4**							
	25	151	52.65	6 300	1.2	18	**2KJ4602 - ■ CF21 - ■ ■ V1**	
	27	174	49.87	6 200	1.1	18	**2KJ4602 - ■ CF21 - ■ ■ U1**	
	31	151	43.27	6 300	1.3	18	**2KJ4602 - ■ CF21 - ■ ■ T1**	
	34	137	39.33	6 300	1.4	18	**2KJ4602 - ■ CF21 - ■ ■ S1**	
	40	118	33.73	6 100	1.7	18	**2KJ4602 - ■ CF21 - ■ ■ R1**	
	41	117	32.64	5 900	1.8	18	**2KJ4602 - ■ CF21 - ■ ■ Q1**	
	47	102	28.32	5 700	2.3	18	**2KJ4602 - ■ CF21 - ■ ■ P1**	
	52	92	25.75	5 600	2.5	18	**2KJ4602 - ■ CF21 - ■ ■ N1**	
	60	79	22.08	5 400	3.0	18	**2KJ4602 - ■ CF21 - ■ ■ M1**	
	C.49-LHN71ME4							
	9.3	410	143	7 200	0.86	24	**2KJ4603 - ■ CF21 - ■ ■ G2**	
	10	365	127.64	7 100	0.97	24	**2KJ4603 - ■ CF21 - ■ ■ F2**	
	12	325	113.75	7 000	1.1	24	**2KJ4603 - ■ CF21 - ■ ■ E2**	
	13	300	105	7 000	1.2	24	**2KJ4603 - ■ CF21 - ■ ■ D2**	
	15	265	91.93	6 800	1.3	24	**2KJ4603 - ■ CF21 - ■ ■ C2**	
	17	230	80.6	6 700	1.5	24	**2KJ4603 - ■ CF21 - ■ ■ B2**	
	18	210	73.12	6 600	1.5	24	**2KJ4603 - ■ CF21 - ■ ■ A2**	
	19	200	68.82	6 500	1.6	24	**2KJ4603 - ■ CF21 - ■ ■ X1**	
	22	176	60.67	6 400	1.7	24	**2KJ4603 - ■ CF21 - ■ ■ W1**	
	25	153	52.65	6 200	1.8	24	**2KJ4603 - ■ CF21 - ■ ■ V1**	
	27	175	49.87	5 500	1.8	24	**2KJ4603 - ■ CF21 - ■ ■ U1**	
	31	152	43.27	5 400	2.3	24	**2KJ4603 - ■ CF21 - ■ ■ T1**	
	C.69-LHN71ME4							
	4.8	780	280.8	10 400	0.87	33	**2KJ4604 - ■ CF21 - ■ ■ K2**	
	5.2	715	255.27	10 500	0.94	33	**2KJ4604 - ■ CF21 - ■ ■ J2**	
	6.1	620	218.4	10 700	1.1	33	**2KJ4604 - ■ CF21 - ■ ■ H2**	
	6.7	570	198.55	10 900	1.2	33	**2KJ4604 - ■ CF21 - ■ ■ G2**	
	7.6	505	175.5	11 000	1.3	33	**2KJ4604 - ■ CF21 - ■ ■ F2**	
	8.4	460	159.55	11 100	1.4	33	**2KJ4604 - ■ CF21 - ■ ■ E2**	
	9.6	405	139.75	11 200	1.5	33	**2KJ4604 - ■ CF21 - ■ ■ D2**	
	10	375	129	11 300	1.6	33	**2KJ4604 - ■ CF21 - ■ ■ C2**	
	12	330	114.21	11 300	1.7	33	**2KJ4604 - ■ CF21 - ■ ■ B2**	
	13	345	102.5	10 500	1.9	33	**2KJ4604 - ■ CF21 - ■ ■ A2**	
	15	305	90	10 200	2.2	33	**2KJ4604 - ■ CF21 - ■ ■ X1**	
	C.89-LHN71ME4							
	3.7	1020	363	16 300	1.4	52	**2KJ4605 - ■ CF21 - ■ ■ N2**	
	4.0	930	329.73	16 300	1.6	52	**2KJ4605 - ■ CF21 - ■ ■ M2**	
	4.5	840	295.75	16 300	1.7	52	**2KJ4605 - ■ CF21 - ■ ■ L2**	
	5.0	760	265.91	16 300	1.9	52	**2KJ4605 - ■ CF21 - ■ ■ K2**	
	5.6	690	240.5	16 300	2.1	52	**2KJ4605 - ■ CF21 - ■ ■ J2**	
	C.29-LHN80MD4E							
	36	129	39.33	3 500	0.8	16	**2KJ4601 - ■ DD22 - ■ ■ S1**	
	42	111	33.73	3 600	0.93	16	**2KJ4601 - ■ DD22 - ■ ■ R1**	
	44	108	32.64	3 600	0.83	16	**2KJ4601 - ■ DD22 - ■ ■ Q1**	
	50	95	28.32	3 600	0.95	16	**2KJ4601 - ■ DD22 - ■ ■ P1**	
	55	86	25.75	3 600	1.1	16	**2KJ4601 - ■ DD22 - ■ ■ N1**	
	64	74	22.08	3 700	1.2	16	**2KJ4601 - ■ DD22 - ■ ■ M1**	
	71	68	20.07	3 700	1.3	16	**2KJ4601 - ■ DD22 - ■ ■ L1**	
	81	60	17.6	3 700	1.5	16	**2KJ4601 - ■ DD22 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**C.29-LHN80MD4E**							
	90	53	15.71	3 800	1.7	16	**2KJ4601 - ■ DD22 - ■ ■ J1**	
	101	47	14	3 800	2.0	16	**2KJ4601 - ■ DD22 - ■ ■ H1**	
	110	44	12.92	3 800	2.1	16	**2KJ4601 - ■ DD22 - ■ ■ G1**	
	126	38	11.31	3 700	2.5	16	**2KJ4601 - ■ DD22 - ■ ■ F1**	
	143	34	9.92	3 600	2.8	16	**2KJ4601 - ■ DD22 - ■ ■ E1**	
	158	30	9	3 500	3.0	16	**2KJ4601 - ■ DD22 - ■ ■ D1**	
	168	29	8.47	3 500	3.2	16	**2KJ4601 - ■ DD22 - ■ ■ C1**	
	190	25	7.47	3 300	3.4	16	**2KJ4601 - ■ DD22 - ■ ■ B1**	
	219	22	6.48	3 200	3.8	16	**2KJ4601 - ■ DD22 - ■ ■ A1**	
	C.39-LHN80MD4E							
	18	215	80.6	5 500	0.9	22	**2KJ4602 - ■ DD22 - ■ ■ B2**	
	19	196	73.12	5 500	0.99	22	**2KJ4602 - ■ DD22 - ■ ■ A2**	
	21	185	68.82	5 500	1.0	22	**2KJ4602 - ■ DD22 - ■ ■ X1**	
	23	163	60.67	5 500	1.1	22	**2KJ4602 - ■ DD22 - ■ ■ W1**	
	27	142	52.65	5 600	1.2	22	**2KJ4602 - ■ DD22 - ■ ■ V1**	
	28	164	49.87	5 400	1.2	22	**2KJ4602 - ■ DD22 - ■ ■ U1**	
	33	142	43.27	5 500	1.4	22	**2KJ4602 - ■ DD22 - ■ ■ T1**	
	36	129	39.33	5 500	1.5	22	**2KJ4602 - ■ DD22 - ■ ■ S1**	
	42	111	33.73	5 600	1.8	22	**2KJ4602 - ■ DD22 - ■ ■ R1**	
	44	110	32.64	5 600	2.0	22	**2KJ4602 - ■ DD22 - ■ ■ Q1**	
	50	96	28.32	5 600	2.5	22	**2KJ4602 - ■ DD22 - ■ ■ P1**	
	55	87	25.75	5 600	2.7	22	**2KJ4602 - ■ DD22 - ■ ■ N1**	
	C.39-LHN80MH6E							
	17	225	52.65	5 600	0.86	23	**2KJ4602 - ■ DG22 - ■ ■ V1**	**P01**
	C.49-LHN80MD4E							
	8.7	435	163.09	6 400	0.81	28	**2KJ4603 - ■ DD22 - ■ ■ H2**	
	9.9	385	143	6 600	0.92	28	**2KJ4603 - ■ DD22 - ■ ■ G2**	
	11	345	127.64	6 800	1.0	28	**2KJ4603 - ■ DD22 - ■ ■ F2**	
	12	310	113.75	6 900	1.1	28	**2KJ4603 - ■ DD22 - ■ ■ E2**	
	14	285	105	7 000	1.2	28	**2KJ4603 - ■ DD22 - ■ ■ D2**	
	15	250	91.93	7 200	1.4	28	**2KJ4603 - ■ DD22 - ■ ■ C2**	
	18	220	80.6	7 300	1.5	28	**2KJ4603 - ■ DD22 - ■ ■ B2**	
	19	200	73.12	7 400	1.6	28	**2KJ4603 - ■ DD22 - ■ ■ A2**	
	21	188	68.82	7 400	1.6	28	**2KJ4603 - ■ DD22 - ■ ■ X1**	
	23	166	60.67	7 500	1.8	28	**2KJ4603 - ■ DD22 - ■ ■ W1**	
	27	144	52.65	7 600	1.9	28	**2KJ4603 - ■ DD22 - ■ ■ V1**	
	28	164	49.87	7 100	1.9	28	**2KJ4603 - ■ DD22 - ■ ■ U1**	
	33	143	43.27	7 200	2.4	28	**2KJ4603 - ■ DD22 - ■ ■ T1**	
	C.69-LHN80MD4E							
	11	350	129	10 000	1.6	37	**2KJ4604 - ■ DD22 - ■ ■ C2**	
	12	310	114.21	10 100	1.7	37	**2KJ4604 - ■ DD22 - ■ ■ B2**	
	4.4	825	319.8	9 400	0.81	37	**2KJ4604 - ■ DD22 - ■ ■ L2**	
	5.1	735	280.8	9 500	0.91	37	**2KJ4604 - ■ DD22 - ■ ■ K2**	
	5.6	675	255.27	9 600	1.0	37	**2KJ4604 - ■ DD22 - ■ ■ J2**	
	6.5	585	218.4	9 700	1.1	37	**2KJ4604 - ■ DD22 - ■ ■ H2**	
	7.2	535	198.55	9 800	1.3	37	**2KJ4604 - ■ DD22 - ■ ■ G2**	
	8.1	475	175.5	9 900	1.4	37	**2KJ4604 - ■ DD22 - ■ ■ F2**	
	8.9	435	159.55	9 900	1.5	37	**2KJ4604 - ■ DD22 - ■ ■ E2**	
	10	380	139.75	10 000	1.6	37	**2KJ4604 - ■ DD22 - ■ ■ D2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**C.69-LHN80MD4E**							
	14	325	102.5	9 900	2.1	37	**2KJ4604 - ■ DD22 - ■ ■ A2**	
	16	285	90	10 000	2.3	37	**2KJ4604 - ■ DD22 - ■ ■ X1**	
	C.89-LHN80MD4E							
	3.9	965	363	15 100	1.5	56	**2KJ4605 - ■ DD22 - ■ ■ N2**	
	4.3	880	329.73	15 200	1.6	56	**2KJ4605 - ■ DD22 - ■ ■ M2**	
	4.8	790	295.75	15 300	1.8	56	**2KJ4605 - ■ DD22 - ■ ■ L2**	
	5.3	715	265.91	15 400	2.0	56	**2KJ4605 - ■ DD22 - ■ ■ K2**	
	C.89-LHN80MH6E							
	2.5	1 450	363	15 100	1.0	57	**2KJ4605 - ■ DG22 - ■ ■ N2**	**P01**
	2.7	1 330	329.73	15 200	1.1	57	**2KJ4605 - ■ DG22 - ■ ■ M2**	**P01**
	3.0	1 210	295.75	15 300	1.2	57	**2KJ4605 - ■ DG22 - ■ ■ L2**	**P01**
	3.3	1 110	265.91	15 400	1.3	57	**2KJ4605 - ■ DG22 - ■ ■ K2**	**P01**
	3.7	1 010	240.5	15 400	1.4	57	**2KJ4605 - ■ DG22 - ■ ■ J2**	**P01**
	C.89-Z39-LHN71ME4							
	3.7	1 070	360	16 300	1.2	57	**2KJ4628 - ■ CF21 - ■ ■ A1**	
	C.89-Z39-LHN80MD4E							
	2.8	1 360	506	16 300	0.92	61	**2KJ4628 - ■ DD22 - ■ ■ C1**	
	3.3	1 190	436	16 300	1.1	61	**2KJ4628 - ■ DD22 - ■ ■ B1**	
	3.9	1 000	360	16 300	1.3	61	**2KJ4628 - ■ DD22 - ■ ■ A1**	
0.75	**C.29-LHN80MG4E**							
	64	101	22.08	3 700	0.9	23	**2KJ4601 - ■ DF22 - ■ ■ M1**	
	71	92	20.07	3 700	0.98	23	**2KJ4601 - ■ DF22 - ■ ■ L1**	
	81	81	17.6	3 700	1.1	23	**2KJ4601 - ■ DF22 - ■ ■ K1**	
	90	72	15.71	3 800	1.3	23	**2KJ4601 - ■ DF22 - ■ ■ J1**	
	101	65	14	3 800	1.4	23	**2KJ4601 - ■ DF22 - ■ ■ H1**	
	110	60	12.92	3 800	1.6	23	**2KJ4601 - ■ DF22 - ■ ■ G1**	
	126	52	11.31	3 700	1.8	23	**2KJ4601 - ■ DF22 - ■ ■ F1**	
	143	46	9.92	3 600	2.1	23	**2KJ4601 - ■ DF22 - ■ ■ E1**	
	158	42	9	3 500	2.2	23	**2KJ4601 - ■ DF22 - ■ ■ D1**	
	168	39	8.47	3 500	2.3	23	**2KJ4601 - ■ DF22 - ■ ■ C1**	
	190	34	7.47	3 300	2.5	23	**2KJ4601 - ■ DF22 - ■ ■ B1**	
	219	30	6.48	3 200	2.8	23	**2KJ4601 - ■ DF22 - ■ ■ A1**	
	C.39-LHN80MG4E							
	23	220	60.67	5 500	0.83	28	**2KJ4602 - ■ DF22 - ■ ■ W1**	
	27	193	52.65	5 600	0.89	28	**2KJ4602 - ■ DF22 - ■ ■ V1**	
	28	220	49.87	5 400	0.89	28	**2KJ4602 - ■ DF22 - ■ ■ U1**	
	33	194	43.27	5 500	1.0	28	**2KJ4602 - ■ DF22 - ■ ■ T1**	
	36	176	39.33	5 500	1.1	28	**2KJ4602 - ■ DF22 - ■ ■ S1**	
	42	151	33.73	5 600	1.3	28	**2KJ4602 - ■ DF22 - ■ ■ R1**	
	44	150	32.64	5 600	1.4	28	**2KJ4602 - ■ DF22 - ■ ■ Q1**	
	50	130	28.32	5 600	1.8	28	**2KJ4602 - ■ DF22 - ■ ■ P1**	
	55	119	25.75	5 600	2.0	28	**2KJ4602 - ■ DF22 - ■ ■ N1**	
	64	102	22.08	5 500	2.3	28	**2KJ4602 - ■ DF22 - ■ ■ M1**	
	71	92	20.07	5 400	2.5	28	**2KJ4602 - ■ DF22 - ■ ■ L1**	
	81	81	17.6	5 200	2.8	28	**2KJ4602 - ■ DF22 - ■ ■ K1**	
	90	72	15.71	5 000	3.0	28	**2KJ4602 - ■ DF22 - ■ ■ J1**	
	101	65	14	4 900	3.2	28	**2KJ4602 - ■ DF22 - ■ ■ H1**	
	110	60	12.92	4 800	3.4	28	**2KJ4602 - ■ DF22 - ■ ■ G1**	
	126	52	11.31	4 600	3.7	28	**2KJ4602 - ■ DF22 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**C.49-LHN80MG4E**							
	12	420	113.75	6 900	0.84	35	**2KJ4603 - ■ DF22 - ■ ■ E2**	
	14	390	105	7 000	0.91	35	**2KJ4603 - ■ DF22 - ■ ■ D2**	
	15	340	91.93	7 200	1.0	35	**2KJ4603 - ■ DF22 - ■ ■ C2**	
	18	300	80.6	7 300	1.1	35	**2KJ4603 - ■ DF22 - ■ ■ B2**	
	19	270	73.12	7 400	1.2	35	**2KJ4603 - ■ DF22 - ■ ■ A2**	
	21	255	68.82	7 400	1.2	35	**2KJ4603 - ■ DF22 - ■ ■ X1**	
	23	225	60.67	7 500	1.3	35	**2KJ4603 - ■ DF22 - ■ ■ W1**	
	27	196	52.65	7 600	1.4	35	**2KJ4603 - ■ DF22 - ■ ■ V1**	
	28	220	49.87	7 100	1.4	35	**2KJ4603 - ■ DF22 - ■ ■ U1**	
	33	195	43.27	7 200	1.8	35	**2KJ4603 - ■ DF22 - ■ ■ T1**	
	36	177	39.33	7 200	2.3	35	**2KJ4603 - ■ DF22 - ■ ■ S1**	
	42	152	33.73	6 900	2.5	35	**2KJ4603 - ■ DF22 - ■ ■ R1**	
	46	138	30.67	6 700	2.8	35	**2KJ4603 - ■ DF22 - ■ ■ Q1**	
	C.69-LHN80MG4E							
	6.5	800	218.4	9 700	0.84	43	**2KJ4604 - ■ DF22 - ■ ■ H2**	
	7.2	735	198.55	9 800	0.92	43	**2KJ4604 - ■ DF22 - ■ ■ G2**	
	8.1	650	175.5	9 900	1.0	43	**2KJ4604 - ■ DF22 - ■ ■ F2**	
	8.9	595	159.55	9 900	1.1	43	**2KJ4604 - ■ DF22 - ■ ■ E2**	
	10	520	139.75	10 000	1.1	43	**2KJ4604 - ■ DF22 - ■ ■ D2**	
	11	480	129	10 000	1.2	43	**2KJ4604 - ■ DF22 - ■ ■ C2**	
	12	425	114.21	10 100	1.3	43	**2KJ4604 - ■ DF22 - ■ ■ B2**	
	14	445	102.5	9 900	1.5	43	**2KJ4604 - ■ DF22 - ■ ■ A2**	
	16	390	90	10 000	1.7	43	**2KJ4604 - ■ DF22 - ■ ■ X1**	
	17	355	81.82	10 000	1.9	43	**2KJ4604 - ■ DF22 - ■ ■ W1**	
	20	305	70	10 100	2.2	43	**2KJ4604 - ■ DF22 - ■ ■ V1**	
	22	280	63.64	10 100	2.3	43	**2KJ4604 - ■ DF22 - ■ ■ U1**	
	C.89-LHN80MG4E							
	3.9	1 310	363	15 100	1.1	63	**2KJ4605 - ■ DF22 - ■ ■ N2**	
	4.3	1 200	329.73	15 200	1.2	63	**2KJ4605 - ■ DF22 - ■ ■ M2**	
	4.8	1 080	295.75	15 300	1.3	63	**2KJ4605 - ■ DF22 - ■ ■ L2**	
	5.3	975	265.91	15 400	1.5	63	**2KJ4605 - ■ DF22 - ■ ■ K2**	
	5.9	885	240.5	15 400	1.6	63	**2KJ4605 - ■ DF22 - ■ ■ J2**	
	6.4	820	222	15 500	1.8	63	**2KJ4605 - ■ DF22 - ■ ■ H2**	
	7.0	755	203.36	15 500	1.9	63	**2KJ4605 - ■ DF22 - ■ ■ G2**	
	C.89-LHN90SH6E							
	3.5	1 440	265.91	15 400	1.0	71	**2KJ4605 - ■ EC22 - ■ ■ K2**	**P01**
	2.9	1 740	329.73	15 200	0.83	71	**2KJ4605 - ■ EC22 - ■ ■ M2**	**P01**
	3.2	1 580	295.75	15 300	0.92	71	**2KJ4605 - ■ EC22 - ■ ■ L2**	**P01**
	C.89-Z39-LHN80MG4E							
	3.9	1 380	360	16 300	0.94	68	**2KJ4628 - ■ DF22 - ■ ■ A1**	
1.1	**C.29-LHN90SH4E**							
	90	106	15.71	3 800	0.86	30	**2KJ4601 - ■ EL22 - ■ ■ J1**	
	101	95	14	3 800	0.98	30	**2KJ4601 - ■ EL22 - ■ ■ H1**	
	110	88	12.92	3 800	1.1	30	**2KJ4601 - ■ EL22 - ■ ■ G1**	
	126	77	11.31	3 700	1.2	30	**2KJ4601 - ■ EL22 - ■ ■ F1**	
	143	67	9.92	3 600	1.4	30	**2KJ4601 - ■ EL22 - ■ ■ E1**	
	158	61	9	3 500	1.5	30	**2KJ4601 - ■ EL22 - ■ ■ D1**	
	168	57	8.47	3 500	1.6	30	**2KJ4601 - ■ EL22 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**C.29-LHN90SH4E**							
	190	51	7.47	3 300	1.7	30	**2KJ4601 - ■ EL22 - ■ ■ B1**	
	219	44	6.48	3 200	1.9	30	**2KJ4601 - ■ EL22 - ■ ■ A1**	
	C.39-LHN90SH4E							
	42	220	33.73	5 600	0.9	36	**2KJ4602 - ■ EL22 - ■ ■ R1**	
	44	220	32.64	5 600	0.98	36	**2KJ4602 - ■ EL22 - ■ ■ Q1**	
	50	191	28.32	5 600	1.2	36	**2KJ4602 - ■ EL22 - ■ ■ P1**	
	55	174	25.75	5 600	1.4	36	**2KJ4602 - ■ EL22 - ■ ■ N1**	
	64	149	22.08	5 500	1.6	36	**2KJ4602 - ■ EL22 - ■ ■ M1**	
	71	136	20.07	5 400	1.7	36	**2KJ4602 - ■ EL22 - ■ ■ L1**	
	81	119	17.6	5 200	1.9	36	**2KJ4602 - ■ EL22 - ■ ■ K1**	
	90	106	15.71	5 000	2.0	36	**2KJ4602 - ■ EL22 - ■ ■ J1**	
	101	95	14	4 900	2.2	36	**2KJ4602 - ■ EL22 - ■ ■ H1**	
	110	88	12.92	4 800	2.3	36	**2KJ4602 - ■ EL22 - ■ ■ G1**	
	126	76	11.31	4 600	2.5	36	**2KJ4602 - ■ EL22 - ■ ■ F1**	
	143	67	9.92	4 400	2.7	36	**2KJ4602 - ■ EL22 - ■ ■ E1**	
	158	61	9	4 300	2.9	36	**2KJ4602 - ■ EL22 - ■ ■ D1**	
	168	57	8.47	4 200	3.0	36	**2KJ4602 - ■ EL22 - ■ ■ C1**	
	190	50	7.47	4 100	3.2	36	**2KJ4602 - ■ EL22 - ■ ■ B1**	
	219	44	6.48	3 900	3.5	36	**2KJ4602 - ■ EL22 - ■ ■ A1**	
	C.49-LHN90SH4E							
	21	375	68.82	7 400	0.81	40	**2KJ4603 - ■ EL22 - ■ ■ X1**	
	23	330	60.67	7 500	0.88	40	**2KJ4603 - ■ EL22 - ■ ■ W1**	
	27	285	52.65	7 600	0.94	40	**2KJ4603 - ■ EL22 - ■ ■ V1**	
	28	325	49.87	7 100	0.97	40	**2KJ4603 - ■ EL22 - ■ ■ U1**	
	33	285	43.27	7 200	1.2	40	**2KJ4603 - ■ EL22 - ■ ■ T1**	
	36	260	39.33	7 200	1.5	40	**2KJ4603 - ■ EL22 - ■ ■ S1**	
	42	220	33.73	6 900	1.7	40	**2KJ4603 - ■ EL22 - ■ ■ R1**	
	46	200	30.67	6 700	1.9	40	**2KJ4603 - ■ EL22 - ■ ■ Q1**	
	53	178	26.89	6 500	2.0	40	**2KJ4603 - ■ EL22 - ■ ■ P1**	
	59	159	24	6 300	2.2	40	**2KJ4603 - ■ EL22 - ■ ■ N1**	
	66	142	21.39	6 100	2.3	40	**2KJ4603 - ■ EL22 - ■ ■ M1**	
	72	131	19.74	5 900	2.4	40	**2KJ4603 - ■ EL22 - ■ ■ L1**	
	82	115	17.29	5 700	2.7	40	**2KJ4603 - ■ EL22 - ■ ■ K1**	
	94	100	15.16	5 500	2.9	40	**2KJ4603 - ■ EL22 - ■ ■ J1**	
	103	91	13.75	5 300	3.1	40	**2KJ4603 - ■ EL22 - ■ ■ H1**	
	110	86	12.94	5 300	3.2	40	**2KJ4603 - ■ EL22 - ■ ■ G1**	
	124	76	11.41	5 100	3.4	40	**2KJ4603 - ■ EL22 - ■ ■ F1**	
	143	66	9.9	4 800	3.7	40	**2KJ4603 - ■ EL22 - ■ ■ E1**	
	C.69-LHN90SH4E							
	11	705	129	10 000	0.81	49	**2KJ4604 - ■ EL22 - ■ ■ C2**	
	12	625	114.21	10 100	0.86	49	**2KJ4604 - ■ EL22 - ■ ■ B2**	
	14	650	102.5	9 900	1.0	49	**2KJ4604 - ■ EL22 - ■ ■ A2**	
	16	575	90	10 000	1.2	49	**2KJ4604 - ■ EL22 - ■ ■ X1**	
	17	525	81.82	10 000	1.3	49	**2KJ4604 - ■ EL22 - ■ ■ W1**	
	20	450	70	10 100	1.5	49	**2KJ4604 - ■ EL22 - ■ ■ V1**	
	22	410	63.64	10 100	1.6	49	**2KJ4604 - ■ EL22 - ■ ■ U1**	
	25	360	56.25	10 200	1.7	49	**2KJ4604 - ■ EL22 - ■ ■ T1**	
	28	330	51.14	10 200	1.8	49	**2KJ4604 - ■ EL22 - ■ ■ S1**	
	32	285	44.79	10 200	1.9	49	**2KJ4604 - ■ EL22 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**C.69-LHN90SH4E**							
	34	265	41.35	10 200	2.0	49	**2KJ4604 - ■ EL22 - ■ ■ Q1**	
	39	235	36.61	10 300	2.1	49	**2KJ4604 - ■ EL22 - ■ ■ P1**	
	47	200	30	9 800	2.7	49	**2KJ4604 - ■ EL22 - ■ ■ N1**	
	89	108	15.88	8 000	3.3	49	**2KJ4604 - ■ EL22 - ■ ■ H1**	
	C.89-LHN90SH4E							
	4.3	1 760	329.73	15 200	0.82	71	**2KJ4605 - ■ EL22 - ■ ■ M2**	
	4.8	1 580	295.75	15 300	0.91	71	**2KJ4605 - ■ EL22 - ■ ■ L2**	
	5.3	1 430	265.91	15 400	1.0	71	**2KJ4605 - ■ EL22 - ■ ■ K2**	
	5.9	1 300	240.5	15 400	1.1	71	**2KJ4605 - ■ EL22 - ■ ■ J2**	
	6.4	1 200	222	15 500	1.2	71	**2KJ4605 - ■ EL22 - ■ ■ H2**	
	7.0	1 100	203.36	15 500	1.3	71	**2KJ4605 - ■ EL22 - ■ ■ G2**	
	8.3	925	170.62	15 600	1.5	71	**2KJ4605 - ■ EL22 - ■ ■ F2**	
	8.8	875	160.59	15 600	1.5	71	**2KJ4605 - ■ EL22 - ■ ■ E2**	
	9.6	800	147.33	15 600	1.6	71	**2KJ4605 - ■ EL22 - ■ ■ D2**	
	11	700	128.7	15 600	1.7	71	**2KJ4605 - ■ EL22 - ■ ■ C2**	
	12	625	115.23	15 700	1.8	71	**2KJ4605 - ■ EL22 - ■ ■ B2**	
	14	545	100.75	15 700	1.9	71	**2KJ4605 - ■ EL22 - ■ ■ A2**	
	16	470	86.48	15 700	2.1	71	**2KJ4605 - ■ EL22 - ■ ■ X1**	
	19	415	76.44	15 700	2.3	71	**2KJ4605 - ■ EL22 - ■ ■ W1**	
1.5	**C.29-LHN90LJ4E**							
	126	105	11.31	3 700	0.9	31	**2KJ4601 - ■ EP22 - ■ ■ F1**	
	143	92	9.92	3 600	1.0	31	**2KJ4601 - ■ EP22 - ■ ■ E1**	
	158	83	9	3 500	1.1	31	**2KJ4601 - ■ EP22 - ■ ■ D1**	
	168	78	8.47	3 500	1.2	31	**2KJ4601 - ■ EP22 - ■ ■ C1**	
	190	69	7.47	3 300	1.2	31	**2KJ4601 - ■ EP22 - ■ ■ B1**	
	219	60	6.48	3 200	1.4	31	**2KJ4601 - ■ EP22 - ■ ■ A1**	
	C.39-LHN90LJ4E							
	50	260	28.32	5 600	0.9	37	**2KJ4602 - ■ EP22 - ■ ■ P1**	
	55	235	25.75	5 600	0.99	37	**2KJ4602 - ■ EP22 - ■ ■ N1**	
	64	200	22.08	5 500	1.2	37	**2KJ4602 - ■ EP22 - ■ ■ M1**	
	71	185	20.07	5 400	1.3	37	**2KJ4602 - ■ EP22 - ■ ■ L1**	
	81	163	17.6	5 200	1.4	37	**2KJ4602 - ■ EP22 - ■ ■ K1**	
	90	145	15.71	5 000	1.5	37	**2KJ4602 - ■ EP22 - ■ ■ J1**	
	101	129	14	4 900	1.6	37	**2KJ4602 - ■ EP22 - ■ ■ H1**	
	110	119	12.92	4 800	1.7	37	**2KJ4602 - ■ EP22 - ■ ■ G1**	
	126	104	11.31	4 600	1.8	37	**2KJ4602 - ■ EP22 - ■ ■ F1**	
	143	92	9.92	4 400	2.0	37	**2KJ4602 - ■ EP22 - ■ ■ E1**	
	158	83	9	4 300	2.1	37	**2KJ4602 - ■ EP22 - ■ ■ D1**	
	168	78	8.47	4 200	2.2	37	**2KJ4602 - ■ EP22 - ■ ■ C1**	
	190	69	7.47	4 100	2.4	37	**2KJ4602 - ■ EP22 - ■ ■ B1**	
	219	60	6.48	3 900	2.6	37	**2KJ4602 - ■ EP22 - ■ ■ A1**	
	C.49-LHN90LJ4E							
	33	390	43.27	7 200	0.9	41	**2KJ4603 - ■ EP22 - ■ ■ T1**	
	36	355	39.33	7 200	1.1	41	**2KJ4603 - ■ EP22 - ■ ■ S1**	
	42	305	33.73	6 900	1.2	41	**2KJ4603 - ■ EP22 - ■ ■ R1**	
	46	275	30.67	6 700	1.4	41	**2KJ4603 - ■ EP22 - ■ ■ Q1**	
	53	240	26.89	6 500	1.5	41	**2KJ4603 - ■ EP22 - ■ ■ P1**	
	59	215	24	6 300	1.6	41	**2KJ4603 - ■ EP22 - ■ ■ N1**	
	66	193	21.39	6 100	1.7	41	**2KJ4603 - ■ EP22 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**C.49-LHN90LJ4E**							
	72	178	19.74	5 900	1.8	41	**2KJ4603 - ■ EP22 - ■ ■ L1**	
	82	156	17.29	5 700	2.0	41	**2KJ4603 - ■ EP22 - ■ ■ K1**	
	94	137	15.16	5 500	2.1	41	**2KJ4603 - ■ EP22 - ■ ■ J1**	
	103	124	13.75	5 300	2.3	41	**2KJ4603 - ■ EP22 - ■ ■ H1**	
	110	117	12.94	5 300	2.3	41	**2KJ4603 - ■ EP22 - ■ ■ G1**	
	124	103	11.41	5 100	2.5	41	**2KJ4603 - ■ EP22 - ■ ■ F1**	
	143	89	9.9	4 800	2.7	41	**2KJ4603 - ■ EP22 - ■ ■ E1**	
	158	83	9	4 700	3.1	41	**2KJ4603 - ■ EP22 - ■ ■ D1**	
	168	78	8.47	4 600	3.3	41	**2KJ4603 - ■ EP22 - ■ ■ C1**	
	190	69	7.47	4 400	3.6	41	**2KJ4603 - ■ EP22 - ■ ■ B1**	
	219	60	6.48	4 200	3.8	41	**2KJ4603 - ■ EP22 - ■ ■ A1**	
	C.69-LHN90LJ4E							
	16	785	90	10 000	0.86	50	**2KJ4604 - ■ EP22 - ■ ■ X1**	
	17	715	81.82	10 000	0.94	50	**2KJ4604 - ■ EP22 - ■ ■ W1**	
	20	615	70	10 100	1.1	50	**2KJ4604 - ■ EP22 - ■ ■ V1**	
	22	560	63.64	10 100	1.2	50	**2KJ4604 - ■ EP22 - ■ ■ U1**	
	25	495	56.25	10 200	1.2	50	**2KJ4604 - ■ EP22 - ■ ■ T1**	
	28	450	51.14	10 200	1.3	50	**2KJ4604 - ■ EP22 - ■ ■ S1**	
	32	390	44.79	10 200	1.4	50	**2KJ4604 - ■ EP22 - ■ ■ R1**	
	34	360	41.35	10 200	1.5	50	**2KJ4604 - ■ EP22 - ■ ■ Q1**	
	39	320	36.61	10 300	1.6	50	**2KJ4604 - ■ EP22 - ■ ■ P1**	
	47	270	30	9 800	2.0	50	**2KJ4604 - ■ EP22 - ■ ■ N1**	
	54	240	26.28	9 400	2.2	50	**2KJ4604 - ■ EP22 - ■ ■ M1**	
	59	220	24.26	9 200	2.3	50	**2KJ4604 - ■ EP22 - ■ ■ L1**	
	66	196	21.48	8 900	2.4	50	**2KJ4604 - ■ EP22 - ■ ■ K1**	
	79	163	17.88	8 400	2.7	50	**2KJ4604 - ■ EP22 - ■ ■ J1**	
	89	147	15.88	8 000	2.4	50	**2KJ4604 - ■ EP22 - ■ ■ H1**	
	101	130	14.06	7 700	2.7	50	**2KJ4604 - ■ EP22 - ■ ■ G1**	
	121	108	11.7	7 300	3.3	50	**2KJ4604 - ■ EP22 - ■ ■ F1**	
	129	102	11.01	7 200	3.5	50	**2KJ4604 - ■ EP22 - ■ ■ E1**	
	144	91	9.87	6 900	3.9	50	**2KJ4604 - ■ EP22 - ■ ■ D1**	
	C.89-LHN90LJ4E							
	5.9	1 770	240.5	15 400	0.82	72	**2KJ4605 - ■ EP22 - ■ ■ J2**	
	6.4	1 640	222	15 500	0.88	72	**2KJ4605 - ■ EP22 - ■ ■ H2**	
	7.0	1 500	203.36	15 500	0.96	72	**2KJ4605 - ■ EP22 - ■ ■ G2**	
	8.3	1 260	170.62	15 600	1.1	72	**2KJ4605 - ■ EP22 - ■ ■ F2**	
	8.8	1 190	160.59	15 600	1.1	72	**2KJ4605 - ■ EP22 - ■ ■ E2**	
	9.6	1 090	147.33	15 600	1.2	72	**2KJ4605 - ■ EP22 - ■ ■ D2**	
	11	955	128.7	15 600	1.2	72	**2KJ4605 - ■ EP22 - ■ ■ C2**	
	12	855	115.23	15 700	1.3	72	**2KJ4605 - ■ EP22 - ■ ■ B2**	
	14	745	100.75	15 700	1.4	72	**2KJ4605 - ■ EP22 - ■ ■ A2**	
	16	640	86.48	15 700	1.5	72	**2KJ4605 - ■ EP22 - ■ ■ X1**	
	19	565	76.44	15 700	1.7	72	**2KJ4605 - ■ EP22 - ■ ■ W1**	
2.2	**C.39-LHN100LD4E**							
	82	235	17.6	5 200	0.95	44	**2KJ4602 - ■ FL22 - ■ ■ K1**	
	91	210	15.71	5 000	1.0	44	**2KJ4602 - ■ FL22 - ■ ■ J1**	
	102	188	14	4 900	1.1	44	**2KJ4602 - ■ FL22 - ■ ■ H1**	
	111	173	12.92	4 800	1.2	44	**2KJ4602 - ■ FL22 - ■ ■ G1**	
	127	151	11.31	4 600	1.3	44	**2KJ4602 - ■ FL22 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**C.39-LHN100LD4E**							
	145	133	9.92	4 400	1.4	44	**2KJ4602 - ■ FL22 - ■ ■ E1**	
	159	121	9	4 300	1.5	44	**2KJ4602 - ■ FL22 - ■ ■ D1**	
	169	113	8.47	4 200	1.5	44	**2KJ4602 - ■ FL22 - ■ ■ C1**	
	192	100	7.47	4 100	1.6	44	**2KJ4602 - ■ FL22 - ■ ■ B1**	
	221	87	6.48	3 900	1.8	44	**2KJ4602 - ■ FL22 - ■ ■ A1**	
	C.49-LHN100LD4E							
	53	350	26.89	6 500	1.0	52	**2KJ4603 - ■ FL22 - ■ ■ P1**	
	60	315	24	6 300	1.1	52	**2KJ4603 - ■ FL22 - ■ ■ N1**	
	67	280	21.39	6 100	1.2	52	**2KJ4603 - ■ FL22 - ■ ■ M1**	
	73	255	19.74	5 900	1.2	52	**2KJ4603 - ■ FL22 - ■ ■ L1**	
	83	225	17.29	5 700	1.3	52	**2KJ4603 - ■ FL22 - ■ ■ K1**	
	95	199	15.16	5 500	1.4	52	**2KJ4603 - ■ FL22 - ■ ■ J1**	
	104	180	13.75	5 300	1.5	52	**2KJ4603 - ■ FL22 - ■ ■ H1**	
	111	170	12.94	5 200	1.6	52	**2KJ4603 - ■ FL22 - ■ ■ G1**	
	126	150	11.41	5 000	1.7	52	**2KJ4603 - ■ FL22 - ■ ■ F1**	
	145	130	9.9	4 800	1.9	52	**2KJ4603 - ■ FL22 - ■ ■ E1**	
	159	121	9	4 700	2.1	52	**2KJ4603 - ■ FL22 - ■ ■ D1**	
	169	114	8.47	4 600	2.2	52	**2KJ4603 - ■ FL22 - ■ ■ C1**	
	192	100	7.47	4 400	2.4	52	**2KJ4603 - ■ FL22 - ■ ■ B1**	
	221	87	6.48	4 200	2.6	52	**2KJ4603 - ■ FL22 - ■ ■ A1**	
	C.69-LHN100LD4E							
	26	715	56.25	10 200	0.86	61	**2KJ4604 - ■ FL22 - ■ ■ T1**	
	28	650	51.14	10 200	0.89	61	**2KJ4604 - ■ FL22 - ■ ■ S1**	
	32	570	44.79	10 200	0.95	61	**2KJ4604 - ■ FL22 - ■ ■ R1**	
	35	525	41.35	10 200	0.99	61	**2KJ4604 - ■ FL22 - ■ ■ Q1**	
	39	465	36.61	10 300	1.1	61	**2KJ4604 - ■ FL22 - ■ ■ P1**	
	48	395	30	9 800	1.4	61	**2KJ4604 - ■ FL22 - ■ ■ N1**	
	55	345	26.28	9 400	1.5	61	**2KJ4604 - ■ FL22 - ■ ■ M1**	
	59	320	24.26	9 200	1.6	61	**2KJ4604 - ■ FL22 - ■ ■ L1**	
	67	285	21.48	8 800	1.7	61	**2KJ4604 - ■ FL22 - ■ ■ K1**	
	80	235	17.88	8 300	1.9	61	**2KJ4604 - ■ FL22 - ■ ■ J1**	
	90	210	15.88	8 000	1.7	61	**2KJ4604 - ■ FL22 - ■ ■ H1**	
	102	189	14.06	7 700	1.9	61	**2KJ4604 - ■ FL22 - ■ ■ G1**	
	123	157	11.7	7 300	2.3	61	**2KJ4604 - ■ FL22 - ■ ■ F1**	
	130	148	11.01	7 100	2.4	61	**2KJ4604 - ■ FL22 - ■ ■ E1**	
	145	133	9.87	6 900	2.7	61	**2KJ4604 - ■ FL22 - ■ ■ D1**	
	171	113	8.4	6 600	3.2	61	**2KJ4604 - ■ FL22 - ■ ■ C1**	
	199	97	7.2	6 200	3.7	61	**2KJ4604 - ■ FL22 - ■ ■ B1**	
	231	83	6.2	6 000	4.3	61	**2KJ4604 - ■ FL22 - ■ ■ A1**	
	C.89-LHN100LD4E							
	9.7	1580	147.33	15 600	0.81	81	**2KJ4605 - ■ FL22 - ■ ■ D2**	
	11	1380	128.7	15 600	0.86	81	**2KJ4605 - ■ FL22 - ■ ■ C2**	
	12	1240	115.23	15 700	0.91	81	**2KJ4605 - ■ FL22 - ■ ■ B2**	
	14	1080	100.75	15 700	0.98	81	**2KJ4605 - ■ FL22 - ■ ■ A2**	
	17	930	86.48	15 700	1.1	81	**2KJ4605 - ■ FL22 - ■ ■ X1**	
	19	820	76.44	15 700	1.1	81	**2KJ4605 - ■ FL22 - ■ ■ W1**	
	22	695	65	15 800	1.2	81	**2KJ4605 - ■ FL22 - ■ ■ V1**	
	26	735	55.61	15 700	2.0	81	**2KJ4605 - ■ FL22 - ■ ■ U1**	
	29	660	50	15 800	2.2	81	**2KJ4605 - ■ FL22 - ■ ■ T1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**C.89-LHN100LD4E**							
	32	595	45.22	15 800	2.3	81	**2KJ4605 - ■ FL22 - ■ ■ S1**	
	34	550	41.74	15 800	2.4	81	**2KJ4605 - ■ FL22 - ■ ■ R1**	
	38	505	38.24	15 800	2.6	81	**2KJ4605 - ■ FL22 - ■ ■ Q1**	
3	**C.39-LHN100LJ4E**							
	102	255	14	4 900	0.8	43	**2KJ4602 - ■ FM22 - ■ ■ H1**	
	111	235	12.92	4 800	0.85	43	**2KJ4602 - ■ FM22 - ■ ■ G1**	
	127	205	11.31	4 600	0.92	43	**2KJ4602 - ■ FM22 - ■ ■ F1**	
	145	181	9.92	4 400	1.0	43	**2KJ4602 - ■ FM22 - ■ ■ E1**	
	159	164	9	4 300	1.1	43	**2KJ4602 - ■ FM22 - ■ ■ D1**	
	169	155	8.47	4 200	1.1	43	**2KJ4602 - ■ FM22 - ■ ■ C1**	
	192	136	7.47	4 100	1.2	43	**2KJ4602 - ■ FM22 - ■ ■ B1**	
	221	118	6.48	3 900	1.3	43	**2KJ4602 - ■ FM22 - ■ ■ A1**	
	C.49-LHN100LJ4E							
	60	425	24	6 300	0.8	51	**2KJ4603 - ■ FM22 - ■ ■ N1**	
	67	380	21.39	6 100	0.86	51	**2KJ4603 - ■ FM22 - ■ ■ M1**	
	73	350	19.74	5 900	0.91	51	**2KJ4603 - ■ FM22 - ■ ■ L1**	
	83	305	17.29	5 700	0.97	51	**2KJ4603 - ■ FM22 - ■ ■ K1**	
	95	270	15.16	5 500	1.1	51	**2KJ4603 - ■ FM22 - ■ ■ J1**	
	104	245	13.75	5 300	1.1	51	**2KJ4603 - ■ FM22 - ■ ■ H1**	
	111	230	12.94	5 200	1.2	51	**2KJ4603 - ■ FM22 - ■ ■ G1**	
	126	200	11.41	5 000	1.3	51	**2KJ4603 - ■ FM22 - ■ ■ F1**	
	145	177	9.9	4 800	1.4	51	**2KJ4603 - ■ FM22 - ■ ■ E1**	
	159	164	9	4 700	1.6	51	**2KJ4603 - ■ FM22 - ■ ■ D1**	
	169	155	8.47	4 600	1.6	51	**2KJ4603 - ■ FM22 - ■ ■ C1**	
	192	137	7.47	4 400	1.8	51	**2KJ4603 - ■ FM22 - ■ ■ B1**	
	221	118	6.48	4 200	1.9	51	**2KJ4603 - ■ FM22 - ■ ■ A1**	
	C.69-LHN100LJ4E							
	48	540	30	9 800	1.0	60	**2KJ4604 - ■ FM22 - ■ ■ N1**	
	55	475	26.28	9 400	1.1	60	**2KJ4604 - ■ FM22 - ■ ■ M1**	
	59	435	24.26	9 200	1.1	60	**2KJ4604 - ■ FM22 - ■ ■ L1**	
	67	385	21.48	8 800	1.2	60	**2KJ4604 - ■ FM22 - ■ ■ K1**	
	80	320	17.88	8 300	1.4	60	**2KJ4604 - ■ FM22 - ■ ■ J1**	
	90	290	15.88	8 000	1.2	60	**2KJ4604 - ■ FM22 - ■ ■ H1**	
	102	255	14.06	7 700	1.4	60	**2KJ4604 - ■ FM22 - ■ ■ G1**	
	123	210	11.7	7 300	1.7	60	**2KJ4604 - ■ FM22 - ■ ■ F1**	
	130	200	11.01	7 100	1.8	60	**2KJ4604 - ■ FM22 - ■ ■ E1**	
	145	181	9.87	6 900	2.0	60	**2KJ4604 - ■ FM22 - ■ ■ D1**	
	171	154	8.4	6 600	2.3	60	**2KJ4604 - ■ FM22 - ■ ■ C1**	
	199	132	7.2	6 200	2.7	60	**2KJ4604 - ■ FM22 - ■ ■ B1**	
	231	114	6.2	6 000	3.1	60	**2KJ4604 - ■ FM22 - ■ ■ A1**	
	C.89-LHN100LJ4E							
	19	1 120	76.44	15 700	0.83	80	**2KJ4605 - ■ FM22 - ■ ■ W1**	
	22	950	65	15 800	0.91	80	**2KJ4605 - ■ FM22 - ■ ■ V1**	
	26	1 000	55.61	15 700	1.4	80	**2KJ4605 - ■ FM22 - ■ ■ U1**	
	29	900	50	15 800	1.6	80	**2KJ4605 - ■ FM22 - ■ ■ T1**	
	32	815	45.22	15 800	1.7	80	**2KJ4605 - ■ FM22 - ■ ■ S1**	
	34	755	41.74	15 800	1.8	80	**2KJ4605 - ■ FM22 - ■ ■ R1**	
	38	690	38.24	15 800	1.9	80	**2KJ4605 - ■ FM22 - ■ ■ Q1**	
	45	580	32.08	15 800	2.1	80	**2KJ4605 - ■ FM22 - ■ ■ P1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**C.89-LHN100LJ4E**							
	48	545	30.2	15 800	2.2	80	**2KJ4605 - ■ FM22 - ■ ■ N1**	
	52	500	27.7	15 800	2.3	80	**2KJ4605 - ■ FM22 - ■ ■ M1**	
	57	460	25.03	15 400	2.3	80	**2KJ4605 - ■ FM22 - ■ ■ L1**	
	68	385	21	14 500	2.7	80	**2KJ4605 - ■ FM22 - ■ ■ K1**	
	73	365	19.76	14 300	3.1	80	**2KJ4605 - ■ FM22 - ■ ■ J1**	
4	**C.39-LHN112MF4**							
	161	215	9	1 400	0.8	67	**2KJ4602 - ■ GJ21 - ■ ■ D1**	
	171	205	8.47	1 500	0.83	67	**2KJ4602 - ■ GJ21 - ■ ■ C1**	
	193	180	7.47	1 900	0.9	67	**2KJ4602 - ■ GJ21 - ■ ■ B1**	
	223	157	6.48	2 200	0.98	67	**2KJ4602 - ■ GJ21 - ■ ■ A1**	
	C.49-LHN112MF4							
	105	325	13.75	1 100	0.85	72	**2KJ4603 - ■ GJ21 - ■ ■ H1**	
	112	305	12.94	1 300	0.88	72	**2KJ4603 - ■ GJ21 - ■ ■ G1**	
	127	270	11.41	1 700	0.94	72	**2KJ4603 - ■ GJ21 - ■ ■ F1**	
	146	230	9.9	2 000	1.0	72	**2KJ4603 - ■ GJ21 - ■ ■ E1**	
	161	215	9	1 000	1.2	72	**2KJ4603 - ■ GJ21 - ■ ■ D1**	
	171	205	8.47	1 100	1.2	72	**2KJ4603 - ■ GJ21 - ■ ■ C1**	
	193	181	7.47	1 500	1.4	72	**2KJ4603 - ■ GJ21 - ■ ■ B1**	
	223	157	6.48	1 800	1.5	72	**2KJ4603 - ■ GJ21 - ■ ■ A1**	
	C.69-LHN112MF4							
	55	625	26.28	3 100	0.82	81	**2KJ4604 - ■ GJ21 - ■ ■ M1**	
	60	580	24.26	3 500	0.86	81	**2KJ4604 - ■ GJ21 - ■ ■ L1**	
	67	510	21.48	3 700	0.92	81	**2KJ4604 - ■ GJ21 - ■ ■ K1**	
	81	425	17.88	3 900	1.0	81	**2KJ4604 - ■ GJ21 - ■ ■ J1**	
	91	385	15.88	3 200	0.93	81	**2KJ4604 - ■ GJ21 - ■ ■ H1**	
	103	340	14.06	3 700	1.0	81	**2KJ4604 - ■ GJ21 - ■ ■ G1**	
	124	280	11.7	3 800	1.3	81	**2KJ4604 - ■ GJ21 - ■ ■ F1**	
	131	265	11.01	3 800	1.3	81	**2KJ4604 - ■ GJ21 - ■ ■ E1**	
	146	235	9.87	3 800	1.5	81	**2KJ4604 - ■ GJ21 - ■ ■ D1**	
	172	200	8.4	3 800	1.8	81	**2KJ4604 - ■ GJ21 - ■ ■ C1**	
	201	175	7.2	3 700	2.1	81	**2KJ4604 - ■ GJ21 - ■ ■ B1**	
	233	151	6.2	3 700	2.4	81	**2KJ4604 - ■ GJ21 - ■ ■ A1**	
	C.89-LHN112MF4							
	26	1 330	55.61	8 900	1.1	100	**2KJ4605 - ■ GJ21 - ■ ■ U1**	
	29	1 190	50	9 100	1.2	100	**2KJ4605 - ■ GJ21 - ■ ■ T1**	
	32	1 080	45.22	9 200	1.3	100	**2KJ4605 - ■ GJ21 - ■ ■ S1**	
	35	1 000	41.74	9 200	1.3	100	**2KJ4605 - ■ GJ21 - ■ ■ R1**	
	38	915	38.24	9 300	1.4	100	**2KJ4605 - ■ GJ21 - ■ ■ Q1**	
	45	765	32.08	9 400	1.6	100	**2KJ4605 - ■ GJ21 - ■ ■ P1**	
	48	720	30.2	9 300	1.7	100	**2KJ4605 - ■ GJ21 - ■ ■ N1**	
	52	660	27.7	9 300	1.7	100	**2KJ4605 - ■ GJ21 - ■ ■ M1**	
	58	610	25.03	8 700	1.8	100	**2KJ4605 - ■ GJ21 - ■ ■ L1**	
	69	515	21	8 600	2.1	100	**2KJ4605 - ■ GJ21 - ■ ■ K1**	
	73	485	19.76	8 500	2.3	100	**2KJ4605 - ■ GJ21 - ■ ■ J1**	
	80	445	18.13	8 500	2.5	100	**2KJ4605 - ■ GJ21 - ■ ■ H1**	
	91	385	15.84	8 400	2.9	100	**2KJ4605 - ■ GJ21 - ■ ■ G1**	
	102	345	14.18	8 200	3.1	100	**2KJ4605 - ■ GJ21 - ■ ■ F1**	
	117	300	12.4	8 100	3.4	100	**2KJ4605 - ■ GJ21 - ■ ■ E1**	
	136	260	10.64	7 800	3.7	100	**2KJ4605 - ■ GJ21 - ■ ■ D1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**C.89-LHN112MF4**							
	154	230	9.41	7 600	4.0	100	**2KJ4605 - ■ GJ21 - ■ ■ C1**	
	181	196	8	7 400	4.3	100	**2KJ4605 - ■ GJ21 - ■ ■ B1**	
	211	168	6.86	7 100	4.3	100	**2KJ4605 - ■ GJ21 - ■ ■ A1**	
5.5	**C.69-LHN132SH4**							
	124	390	11.7	2 100	0.92	102	**2KJ4604 - ■ HF21 - ■ ■ F1**	
	131	365	11.01	2 400	0.98	102	**2KJ4604 - ■ HF21 - ■ ■ E1**	
	146	325	9.87	2 800	1.1	102	**2KJ4604 - ■ HF21 - ■ ■ D1**	
	172	280	8.4	3 200	1.3	102	**2KJ4604 - ■ HF21 - ■ ■ C1**	
	201	240	7.2	3 200	1.5	102	**2KJ4604 - ■ HF21 - ■ ■ B1**	
	233	205	6.2	3 200	1.7	102	**2KJ4604 - ■ HF21 - ■ ■ A1**	
	C.89-LHN132SH4							
	38	1 250	38.24	7 400	1.0	122	**2KJ4605 - ■ HF21 - ■ ■ Q1**	
	45	1 050	32.08	7 800	1.2	122	**2KJ4605 - ■ HF21 - ■ ■ P1**	
	48	995	30.2	7 800	1.2	122	**2KJ4605 - ■ HF21 - ■ ■ N1**	
	52	910	27.7	7 900	1.3	122	**2KJ4605 - ■ HF21 - ■ ■ M1**	
	58	845	25.03	7 200	1.3	122	**2KJ4605 - ■ HF21 - ■ ■ L1**	
	69	705	21	7 400	1.5	122	**2KJ4605 - ■ HF21 - ■ ■ K1**	
	73	665	19.76	7 400	1.7	122	**2KJ4605 - ■ HF21 - ■ ■ J1**	
	80	610	18.13	7 400	1.8	122	**2KJ4605 - ■ HF21 - ■ ■ H1**	
	91	535	15.84	7 400	2.1	122	**2KJ4605 - ■ HF21 - ■ ■ G1**	
	102	475	14.18	7 400	2.2	122	**2KJ4605 - ■ HF21 - ■ ■ F1**	
	117	415	12.4	7 300	2.4	122	**2KJ4605 - ■ HF21 - ■ ■ E1**	
	136	355	10.64	7 200	2.7	122	**2KJ4605 - ■ HF21 - ■ ■ D1**	
	154	315	9.41	7 100	2.9	122	**2KJ4605 - ■ HF21 - ■ ■ C1**	
	181	270	8	6 900	3.1	122	**2KJ4605 - ■ HF21 - ■ ■ B1**	
	211	230	6.86	6 700	3.1	122	**2KJ4605 - ■ HF21 - ■ ■ A1**	
7.5	**C.69-LHN132MKA4**							
	147	445	9.87	600	0.8	117	**2KJ4604 - ■ HJ21 - ■ ■ D1**	
	173	380	8.4	1 300	0.95	117	**2KJ4604 - ■ HJ21 - ■ ■ C1**	
	201	325	7.2	1 900	1.1	117	**2KJ4604 - ■ HJ21 - ■ ■ B1**	
	234	280	6.2	2 300	1.3	117	**2KJ4604 - ■ HJ21 - ■ ■ A1**	
	C.89-LHN132MKA4							
	45	1 430	32.08	5 600	0.85	137	**2KJ4605 - ■ HJ21 - ■ ■ P1**	
	48	1 350	30.2	5 800	0.89	137	**2KJ4605 - ■ HJ21 - ■ ■ N1**	
	52	1 230	27.7	6 100	0.92	137	**2KJ4605 - ■ HJ21 - ■ ■ M1**	
	58	1 140	25.03	2 700	0.95	137	**2KJ4605 - ■ HJ21 - ■ ■ L1**	
	69	960	21	4 400	1.1	137	**2KJ4605 - ■ HJ21 - ■ ■ K1**	
	73	905	19.76	4 800	1.2	137	**2KJ4605 - ■ HJ21 - ■ ■ J1**	
	80	830	18.13	5 500	1.3	137	**2KJ4605 - ■ HJ21 - ■ ■ H1**	
	92	725	15.84	6 300	1.5	137	**2KJ4605 - ■ HJ21 - ■ ■ G1**	
	102	650	14.18	6 300	1.6	137	**2KJ4605 - ■ HJ21 - ■ ■ F1**	
	117	565	12.4	6 400	1.8	137	**2KJ4605 - ■ HJ21 - ■ ■ E1**	
	136	485	10.64	6 400	2.0	137	**2KJ4605 - ■ HJ21 - ■ ■ D1**	
	154	430	9.41	6 400	2.1	137	**2KJ4605 - ■ HJ21 - ■ ■ C1**	
	181	365	8	6 300	2.3	137	**2KJ4605 - ■ HJ21 - ■ ■ B1**	
	211	310	6.86	6 200	2.3	137	**2KJ4605 - ■ HJ21 - ■ ■ A1**	
9.2	**C.69-LHN132MKB4**							
	201	400	7.2	500	0.9	117	**2KJ4604 - ■ HT21 - ■ ■ B1**	
	233	345	6.2	1 100	1.0	117	**2KJ4604 - ■ HT21 - ■ ■ A1**	

Article No. supplement		
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Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**C.89-LHN132MKB4**							
	69	1 180	21	1 200	0.9	137	**2KJ4605 - ■ HT21 - ■ ■ K1**	
	73	1 110	19.76	1 800	1.0	137	**2KJ4605 - ■ HT21 - ■ ■ J1**	
	80	1 020	18.13	2 700	1.1	137	**2KJ4605 - ■ HT21 - ■ ■ H1**	
	91	890	15.84	3 800	1.3	137	**2KJ4605 - ■ HT21 - ■ ■ G1**	
	102	800	14.18	4 500	1.3	137	**2KJ4605 - ■ HT21 - ■ ■ F1**	
	117	700	12.4	5 300	1.5	137	**2KJ4605 - ■ HT21 - ■ ■ E1**	
	136	600	10.64	5 700	1.6	137	**2KJ4605 - ■ HT21 - ■ ■ D1**	
	154	530	9.41	5 800	1.7	137	**2KJ4605 - ■ HT21 - ■ ■ C1**	
	181	450	8	5 800	1.9	137	**2KJ4605 - ■ HT21 - ■ ■ B1**	
	211	385	6.86	5 800	1.9	137	**2KJ4605 - ■ HT21 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**C.29-LEN80MD4E**							
	36	129	39.33	4 000	0.8	22	**2KJ4601 - ■ DC32 - ■ ■ S1**	
	42	111	33.73	4 100	0.94	22	**2KJ4601 - ■ DC32 - ■ ■ R1**	
	44	108	32.64	4 100	0.83	22	**2KJ4601 - ■ DC32 - ■ ■ Q1**	
	50	94	28.32	4 200	0.95	22	**2KJ4601 - ■ DC32 - ■ ■ P1**	
	55	86	25.75	4 200	1.1	22	**2KJ4601 - ■ DC32 - ■ ■ N1**	
	65	74	22.08	4 200	1.2	22	**2KJ4601 - ■ DC32 - ■ ■ M1**	
	71	68	20.07	4 100	1.3	22	**2KJ4601 - ■ DC32 - ■ ■ L1**	
	81	59	17.6	4 000	1.5	22	**2KJ4601 - ■ DC32 - ■ ■ K1**	
	91	53	15.71	3 900	1.7	22	**2KJ4601 - ■ DC32 - ■ ■ J1**	
	102	47	14	3 800	2.0	22	**2KJ4601 - ■ DC32 - ■ ■ H1**	
	110	44	12.92	3 700	2.1	22	**2KJ4601 - ■ DC32 - ■ ■ G1**	
	126	38	11.31	3 600	2.5	22	**2KJ4601 - ■ DC32 - ■ ■ F1**	
	144	34	9.92	3 500	2.8	22	**2KJ4601 - ■ DC32 - ■ ■ E1**	
	158	30	9	3 500	3.0	22	**2KJ4601 - ■ DC32 - ■ ■ D1**	
	168	29	8.47	3 400	3.2	22	**2KJ4601 - ■ DC32 - ■ ■ C1**	
	191	25	7.47	3 300	3.4	22	**2KJ4601 - ■ DC32 - ■ ■ B1**	
	220	22	6.48	3 200	3.7	22	**2KJ4601 - ■ DC32 - ■ ■ A1**	
	C.39-LEN80MD4E							
	18	215	80.6	6 100	0.9	27	**2KJ4602 - ■ DC32 - ■ ■ B2**	
	19	196	73.12	6 100	0.99	27	**2KJ4602 - ■ DC32 - ■ ■ A2**	
	21	185	68.82	6 200	1.1	27	**2KJ4602 - ■ DC32 - ■ ■ X1**	
	23	163	60.67	6 200	1.1	27	**2KJ4602 - ■ DC32 - ■ ■ W1**	
	27	141	52.65	6 300	1.2	27	**2KJ4602 - ■ DC32 - ■ ■ V1**	
	29	163	49.87	6 200	1.2	27	**2KJ4602 - ■ DC32 - ■ ■ U1**	
	33	141	43.27	6 300	1.4	27	**2KJ4602 - ■ DC32 - ■ ■ T1**	
	36	129	39.33	6 200	1.6	27	**2KJ4602 - ■ DC32 - ■ ■ S1**	
	42	110	33.73	6 000	1.8	27	**2KJ4602 - ■ DC32 - ■ ■ R1**	
	44	110	32.64	5 800	2.0	27	**2KJ4602 - ■ DC32 - ■ ■ Q1**	
	50	95	28.32	5 600	2.5	27	**2KJ4602 - ■ DC32 - ■ ■ P1**	
	55	87	25.75	5 500	2.7	27	**2KJ4602 - ■ DC32 - ■ ■ N1**	
	C.39-LEN80MK6E							
	17	225	52.65	6 000	0.86	28	**2KJ4602 - ■ DF32 - ■ ■ V1**	**P01**
	C.49-LEN80MD4E							
	8.7	435	163.09	7 200	0.81	33	**2KJ4603 - ■ DC32 - ■ ■ H2**	
	10	385	143	7 100	0.92	33	**2KJ4603 - ■ DC32 - ■ ■ G2**	
	11	345	127.64	7 100	1.0	33	**2KJ4603 - ■ DC32 - ■ ■ F2**	
	13	305	113.75	7 000	1.2	33	**2KJ4603 - ■ DC32 - ■ ■ E2**	
	14	285	105	6 900	1.2	33	**2KJ4603 - ■ DC32 - ■ ■ D2**	
	16	250	91.93	6 800	1.4	33	**2KJ4603 - ■ DC32 - ■ ■ C2**	
	18	215	80.6	6 600	1.5	33	**2KJ4603 - ■ DC32 - ■ ■ B2**	
	19	199	73.12	6 500	1.6	33	**2KJ4603 - ■ DC32 - ■ ■ A2**	
	21	187	68.82	6 400	1.6	33	**2KJ4603 - ■ DC32 - ■ ■ X1**	
	23	165	60.67	6 300	1.7	33	**2KJ4603 - ■ DC32 - ■ ■ W1**	
	27	143	52.65	6 100	1.9	33	**2KJ4603 - ■ DC32 - ■ ■ V1**	
	29	164	49.87	5 500	2.0	33	**2KJ4603 - ■ DC32 - ■ ■ U1**	
	33	142	43.27	5 400	2.5	33	**2KJ4603 - ■ DC32 - ■ ■ T1**	
	C.69-LEN80MD4E							
	4.5	825	319.8	10 300	0.82	42	**2KJ4604 - ■ DC32 - ■ ■ L2**	
	5.1	735	280.8	10 500	0.92	42	**2KJ4604 - ■ DC32 - ■ ■ K2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**C.69-LEN80MD4E**							
	5.6	675	255.27	10 600	1.0	42	**2KJ4604 - ■ DC32 - ■ ■ J2**	
	6.5	585	218.4	10 800	1.1	42	**2KJ4604 - ■ DC32 - ■ ■ H2**	
	7.2	535	198.55	10 900	1.3	42	**2KJ4604 - ■ DC32 - ■ ■ G2**	
	8.1	475	175.5	11 100	1.4	42	**2KJ4604 - ■ DC32 - ■ ■ F2**	
	8.9	435	159.55	11 200	1.5	42	**2KJ4604 - ■ DC32 - ■ ■ E2**	
	10	380	139.75	11 300	1.6	42	**2KJ4604 - ■ DC32 - ■ ■ D2**	
	11	350	129	11 400	1.6	42	**2KJ4604 - ■ DC32 - ■ ■ C2**	
	12	310	114.21	11 100	1.7	42	**2KJ4604 - ■ DC32 - ■ ■ B2**	
	14	325	102.5	10 300	2.1	42	**2KJ4604 - ■ DC32 - ■ ■ A2**	
	C.89-LEN80MD4E							
	3.9	960	363	16 300	1.5	62	**2KJ4605 - ■ DC32 - ■ ■ N2**	
	4.3	875	329.73	16 300	1.6	62	**2KJ4605 - ■ DC32 - ■ ■ M2**	
	4.8	790	295.75	16 300	1.8	62	**2KJ4605 - ■ DC32 - ■ ■ L2**	
	5.4	715	265.91	16 300	2.0	62	**2KJ4605 - ■ DC32 - ■ ■ K2**	
	C.89-LEN80MK6E							
	2.5	1 440	363	16 300	1.0	63	**2KJ4605 - ■ DF32 - ■ ■ N2**	**P01**
	2.7	1 330	329.73	16 300	1.1	63	**2KJ4605 - ■ DF32 - ■ ■ M2**	**P01**
	3.0	1 210	295.75	16 300	1.2	63	**2KJ4605 - ■ DF32 - ■ ■ L2**	**P01**
	3.4	1 100	265.91	16 300	1.3	63	**2KJ4605 - ■ DF32 - ■ ■ K2**	**P01**
	3.7	1010	240.5	16 300	1.4	63	**2KJ4605 - ■ DF32 - ■ ■ J2**	**P01**
	C.89-Z39-LEN80MD4E							
	2.8	1 350	506	16 300	0.92	67	**2KJ4628 - ■ DC32 - ■ ■ C1**	
	3.3	1 180	436	16 300	1.1	67	**2KJ4628 - ■ DC32 - ■ ■ B1**	
	4.0	1 000	360	16 300	1.3	67	**2KJ4628 - ■ DC32 - ■ ■ A1**	
0.75	**C.29-LEN80MH4E**							
	65	100	22.08	3 700	0.91	23	**2KJ4601 - ■ DE32 - ■ ■ M1**	
	72	91	20.07	3 700	1.0	23	**2KJ4601 - ■ DE32 - ■ ■ L1**	
	82	80	17.6	3 700	1.1	23	**2KJ4601 - ■ DE32 - ■ ■ K1**	
	92	72	15.71	3 600	1.3	23	**2KJ4601 - ■ DE32 - ■ ■ J1**	
	103	64	14	3 500	1.5	23	**2KJ4601 - ■ DE32 - ■ ■ H1**	
	111	59	12.92	3 500	1.6	23	**2KJ4601 - ■ DE32 - ■ ■ G1**	
	127	52	11.31	3 400	1.8	23	**2KJ4601 - ■ DE32 - ■ ■ F1**	
	145	45	9.92	3 300	2.1	23	**2KJ4601 - ■ DE32 - ■ ■ E1**	
	160	41	9	3 300	2.2	23	**2KJ4601 - ■ DE32 - ■ ■ D1**	
	170	39	8.47	3 200	2.3	23	**2KJ4601 - ■ DE32 - ■ ■ C1**	
	193	34	7.47	3 100	2.5	23	**2KJ4601 - ■ DE32 - ■ ■ B1**	
	222	30	6.48	3 000	2.8	23	**2KJ4601 - ■ DE32 - ■ ■ A1**	
	C.39-LEN80MH4E							
	24	220	60.67	6 000	0.83	29	**2KJ4602 - ■ DE32 - ■ ■ W1**	
	27	190	52.65	6 100	0.9	29	**2KJ4602 - ■ DE32 - ■ ■ V1**	
	29	220	49.87	5 800	0.9	29	**2KJ4602 - ■ DE32 - ■ ■ U1**	
	33	191	43.27	5 700	1.0	29	**2KJ4602 - ■ DE32 - ■ ■ T1**	
	37	174	39.33	5 700	1.2	29	**2KJ4602 - ■ DE32 - ■ ■ S1**	
	43	149	33.73	5 600	1.3	29	**2KJ4602 - ■ DE32 - ■ ■ R1**	
	44	148	32.64	5 300	1.5	29	**2KJ4602 - ■ DE32 - ■ ■ Q1**	
	51	129	28.32	5 200	1.8	29	**2KJ4602 - ■ DE32 - ■ ■ P1**	
	56	117	25.75	5 100	2.0	29	**2KJ4602 - ■ DE32 - ■ ■ N1**	
	65	100	22.08	5 000	2.3	29	**2KJ4602 - ■ DE32 - ■ ■ M1**	
	72	91	20.07	4 900	2.6	29	**2KJ4602 - ■ DE32 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**C.39-LEN80MH4E**							
	82	80	17.6	4 800	2.8	29	**2KJ4602 - ■ DE32 - ■ ■ K1**	
	92	72	15.71	4 700	3.0	29	**2KJ4602 - ■ DE32 - ■ ■ J1**	
	103	64	14	4 600	3.2	29	**2KJ4602 - ■ DE32 - ■ ■ H1**	
	111	59	12.92	4 500	3.4	29	**2KJ4602 - ■ DE32 - ■ ■ G1**	
	127	52	11.31	4 400	3.7	29	**2KJ4602 - ■ DE32 - ■ ■ F1**	
	145	45	9.92	4 200	4.0	29	**2KJ4602 - ■ DE32 - ■ ■ E1**	
	C.49-LEN80MH4E							
	13	415	113.75	6 200	0.85	35	**2KJ4603 - ■ DE32 - ■ ■ E2**	
	14	385	105	6 100	0.92	35	**2KJ4603 - ■ DE32 - ■ ■ D2**	
	16	335	91.93	6 100	1.0	35	**2KJ4603 - ■ DE32 - ■ ■ C2**	
	18	295	80.6	6 000	1.1	35	**2KJ4603 - ■ DE32 - ■ ■ B2**	
	20	265	73.12	6 000	1.2	35	**2KJ4603 - ■ DE32 - ■ ■ A2**	
	21	250	68.82	5 900	1.2	35	**2KJ4603 - ■ DE32 - ■ ■ X1**	
	24	220	60.67	5 900	1.3	35	**2KJ4603 - ■ DE32 - ■ ■ W1**	
	27	193	52.65	5 700	1.4	35	**2KJ4603 - ■ DE32 - ■ ■ V1**	
	29	220	49.87	5 000	1.4	35	**2KJ4603 - ■ DE32 - ■ ■ U1**	
	33	192	43.27	4 900	1.8	35	**2KJ4603 - ■ DE32 - ■ ■ T1**	
	37	175	39.33	4 800	2.3	35	**2KJ4603 - ■ DE32 - ■ ■ S1**	
	43	150	33.73	4 700	2.5	35	**2KJ4603 - ■ DE32 - ■ ■ R1**	
	47	136	30.67	4 700	2.8	35	**2KJ4603 - ■ DE32 - ■ ■ Q1**	
	C.69-LEN80MH4E							
	6.6	790	218.4	10 300	0.85	44	**2KJ4604 - ■ DE32 - ■ ■ H2**	
	7.3	725	198.55	10 500	0.93	44	**2KJ4604 - ■ DE32 - ■ ■ G2**	
	8.2	640	175.5	10 700	1.0	44	**2KJ4604 - ■ DE32 - ■ ■ F2**	
	9.0	585	159.55	10 800	1.1	44	**2KJ4604 - ■ DE32 - ■ ■ E2**	
	10	515	139.75	10 800	1.1	44	**2KJ4604 - ■ DE32 - ■ ■ D2**	
	11	475	129	10 700	1.2	44	**2KJ4604 - ■ DE32 - ■ ■ C2**	
	13	420	114.21	10 500	1.3	44	**2KJ4604 - ■ DE32 - ■ ■ B2**	
	14	440	102.5	9 500	1.5	44	**2KJ4604 - ■ DE32 - ■ ■ A2**	
	16	385	90	9 400	1.7	44	**2KJ4604 - ■ DE32 - ■ ■ X1**	
	18	350	81.82	9 200	1.9	44	**2KJ4604 - ■ DE32 - ■ ■ W1**	
	21	300	70	9 000	2.2	44	**2KJ4604 - ■ DE32 - ■ ■ V1**	
	23	275	63.64	8 800	2.3	44	**2KJ4604 - ■ DE32 - ■ ■ U1**	
	C.89-LEN80MH4E							
	4.0	1 290	363	16 300	1.1	64	**2KJ4605 - ■ DE32 - ■ ■ N2**	
	4.4	1 180	329.73	16 300	1.2	64	**2KJ4605 - ■ DE32 - ■ ■ M2**	
	4.9	1 060	295.75	16 300	1.4	64	**2KJ4605 - ■ DE32 - ■ ■ L2**	
	5.4	965	265.91	16 300	1.5	64	**2KJ4605 - ■ DE32 - ■ ■ K2**	
	6.0	875	240.5	16 300	1.7	64	**2KJ4605 - ■ DE32 - ■ ■ J2**	
	6.5	810	222	16 300	1.8	64	**2KJ4605 - ■ DE32 - ■ ■ H2**	
	7.1	740	203.36	16 300	1.9	64	**2KJ4605 - ■ DE32 - ■ ■ G2**	
	C.89-LEN90SH6E							
	2.8	1 740	329.73	15 800	0.83	71	**2KJ4605 - ■ EC32 - ■ ■ M2**	**P01**
	3.2	1 590	295.75	16 000	0.91	71	**2KJ4605 - ■ EC32 - ■ ■ L2**	**P01**
	3.5	1 440	265.91	16 300	1.0	71	**2KJ4605 - ■ EC32 - ■ ■ K2**	**P01**
	C.89-LEN90SS6P							
	2.9	1 740	329.73	15 800	0.83	61	**2KJ4605 - ■ ED33 - ■ ■ M2**	**P01**
	3.2	1 580	295.75	16 000	0.92	61	**2KJ4605 - ■ ED33 - ■ ■ L2**	**P01**

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**C.29-LEN80ZMQ4P**							
	65	100	22.08	3 700	0.91	15	**2KJ4601 - ■ DE33 - ■ ■ M1**	
	72	91	20.07	3 700	1.0	15	**2KJ4601 - ■ DE33 - ■ ■ L1**	
	82	80	17.6	3 600	1.2	15	**2KJ4601 - ■ DE33 - ■ ■ K1**	
	92	71	15.71	3 600	1.3	15	**2KJ4601 - ■ DE33 - ■ ■ J1**	
	103	64	14	3 500	1.5	15	**2KJ4601 - ■ DE33 - ■ ■ H1**	
	112	59	12.92	3 500	1.6	15	**2KJ4601 - ■ DE33 - ■ ■ G1**	
	128	51	11.31	3 400	1.8	15	**2KJ4601 - ■ DE33 - ■ ■ F1**	
	146	45	9.92	3 300	2.1	15	**2KJ4601 - ■ DE33 - ■ ■ E1**	
	161	41	9	3 300	2.2	15	**2KJ4601 - ■ DE33 - ■ ■ D1**	
	171	38	8.47	3 200	2.3	15	**2KJ4601 - ■ DE33 - ■ ■ C1**	
	193	34	7.47	3 100	2.5	15	**2KJ4601 - ■ DE33 - ■ ■ B1**	
	223	29	6.48	3 000	2.8	15	**2KJ4601 - ■ DE33 - ■ ■ A1**	
	C.39-LEN80ZMQ4P							
	24	215	60.67	6 100	0.84	21	**2KJ4602 - ■ DE33 - ■ ■ W1**	
	27	190	52.65	6 100	0.9	21	**2KJ4602 - ■ DE33 - ■ ■ V1**	
	29	215	49.87	5 800	0.9	21	**2KJ4602 - ■ DE33 - ■ ■ U1**	
	33	190	43.27	5 700	1.0	21	**2KJ4602 - ■ DE33 - ■ ■ T1**	
	37	173	39.33	5 700	1.2	21	**2KJ4602 - ■ DE33 - ■ ■ S1**	
	43	148	33.73	5 600	1.3	21	**2KJ4602 - ■ DE33 - ■ ■ R1**	
	44	147	32.64	5 300	1.5	21	**2KJ4602 - ■ DE33 - ■ ■ Q1**	
	51	128	28.32	5 200	1.8	21	**2KJ4602 - ■ DE33 - ■ ■ P1**	
	56	117	25.75	5 100	2.0	21	**2KJ4602 - ■ DE33 - ■ ■ N1**	
	65	100	22.08	5 000	2.3	21	**2KJ4602 - ■ DE33 - ■ ■ M1**	
	72	91	20.07	4 900	2.6	21	**2KJ4602 - ■ DE33 - ■ ■ L1**	
	82	80	17.6	4 800	2.8	21	**2KJ4602 - ■ DE33 - ■ ■ K1**	
	92	71	15.71	4 700	3.0	21	**2KJ4602 - ■ DE33 - ■ ■ J1**	
	103	64	14	4 600	3.2	21	**2KJ4602 - ■ DE33 - ■ ■ H1**	
	112	59	12.92	4 500	3.4	21	**2KJ4602 - ■ DE33 - ■ ■ G1**	
	128	51	11.31	4 400	3.7	21	**2KJ4602 - ■ DE33 - ■ ■ F1**	
	146	45	9.92	4 200	4.0	21	**2KJ4602 - ■ DE33 - ■ ■ E1**	
	C.49-LEN80ZMQ4P							
	13	415	113.75	6 200	0.86	27	**2KJ4603 - ■ DE33 - ■ ■ E2**	
	14	380	105	6 200	0.93	27	**2KJ4603 - ■ DE33 - ■ ■ D2**	
	16	335	91.93	6 100	1.0	27	**2KJ4603 - ■ DE33 - ■ ■ C2**	
	18	295	80.6	6 000	1.1	27	**2KJ4603 - ■ DE33 - ■ ■ B2**	
	20	265	73.12	6 000	1.2	27	**2KJ4603 - ■ DE33 - ■ ■ A2**	
	21	250	68.82	5 900	1.2	27	**2KJ4603 - ■ DE33 - ■ ■ X1**	
	24	220	60.67	5 800	1.3	27	**2KJ4603 - ■ DE33 - ■ ■ W1**	
	27	192	52.65	5 700	1.4	27	**2KJ4603 - ■ DE33 - ■ ■ V1**	
	29	220	49.87	4 900	1.5	27	**2KJ4603 - ■ DE33 - ■ ■ U1**	
	33	192	43.27	4 900	1.8	27	**2KJ4603 - ■ DE33 - ■ ■ T1**	
	37	174	39.33	4 800	2.3	27	**2KJ4603 - ■ DE33 - ■ ■ S1**	
	43	150	33.73	4 700	2.5	27	**2KJ4603 - ■ DE33 - ■ ■ R1**	
	47	136	30.67	4 700	2.8	27	**2KJ4603 - ■ DE33 - ■ ■ Q1**	
	C.69-LEN80ZMQ4P							
	6.6	790	218.4	10 300	0.85	36	**2KJ4604 - ■ DE33 - ■ ■ H2**	
	7.3	720	198.55	10 500	0.93	36	**2KJ4604 - ■ DE33 - ■ ■ G2**	
	8.2	640	175.5	10 700	1.0	36	**2KJ4604 - ■ DE33 - ■ ■ F2**	
	9.1	585	159.55	10 800	1.1	36	**2KJ4604 - ■ DE33 - ■ ■ E2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.75	**C.69-LEN80ZMQ4P**							
	10	510	139.75	10 800	1.1	36	**2KJ4604 - ■ DE33 - ■ ■ D2**	
	11	470	129	10 700	1.2	36	**2KJ4604 - ■ DE33 - ■ ■ C2**	
	13	420	114.21	10 500	1.3	36	**2KJ4604 - ■ DE33 - ■ ■ B2**	
	14	435	102.5	9 600	1.5	36	**2KJ4604 - ■ DE33 - ■ ■ A2**	
	16	385	90	9 400	1.7	36	**2KJ4604 - ■ DE33 - ■ ■ X1**	
	18	350	81.82	9 200	1.9	36	**2KJ4604 - ■ DE33 - ■ ■ W1**	
	21	300	70	9 000	2.2	36	**2KJ4604 - ■ DE33 - ■ ■ V1**	
	23	275	63.64	8 800	2.3	36	**2KJ4604 - ■ DE33 - ■ ■ U1**	
	C.89-LEN80ZMQ4P							
	4.0	1 290	363	16 300	1.1	55	**2KJ4605 - ■ DE33 - ■ ■ N2**	
	4.4	1 180	329.73	16 300	1.2	55	**2KJ4605 - ■ DE33 - ■ ■ M2**	
	4.9	1 060	295.75	16 300	1.4	55	**2KJ4605 - ■ DE33 - ■ ■ L2**	
	5.4	960	265.91	16 300	1.5	55	**2KJ4605 - ■ DE33 - ■ ■ K2**	
	6.0	870	240.5	16 300	1.7	55	**2KJ4605 - ■ DE33 - ■ ■ J2**	
	6.5	805	222	16 300	1.8	55	**2KJ4605 - ■ DE33 - ■ ■ H2**	
	7.1	740	203.36	16 300	2.0	55	**2KJ4605 - ■ DE33 - ■ ■ G2**	
	C.89-Z39-LEN80MH4E							
	4.0	1 370	360	16 300	0.95	68	**2KJ4628 - ■ DE32 - ■ ■ A1**	
	C.89-Z39-LEN80ZMQ4P							
	4.0	1 360	360	16 300	0.95	60	**2KJ4628 - ■ DE33 - ■ ■ A1**	
1.1	**C.29-LEN90SH4E**							
	92	105	15.71	3 100	0.88	30	**2KJ4601 - ■ EL32 - ■ ■ J1**	
	103	94	14	3 100	0.99	30	**2KJ4601 - ■ EL32 - ■ ■ H1**	
	111	86	12.92	3 100	1.1	30	**2KJ4601 - ■ EL32 - ■ ■ G1**	
	127	76	11.31	3 000	1.2	30	**2KJ4601 - ■ EL32 - ■ ■ F1**	
	145	66	9.92	3 000	1.4	30	**2KJ4601 - ■ EL32 - ■ ■ E1**	
	160	60	9	3 000	1.5	30	**2KJ4601 - ■ EL32 - ■ ■ D1**	
	170	57	8.47	2 900	1.6	30	**2KJ4601 - ■ EL32 - ■ ■ C1**	
	193	50	7.47	2 900	1.7	30	**2KJ4601 - ■ EL32 - ■ ■ B1**	
	222	43	6.48	2 800	1.9	30	**2KJ4601 - ■ EL32 - ■ ■ A1**	
	C.29-LEN90SN4P							
	91	106	15.71	3 100	0.87	17	**2KJ4601 - ■ EL33 - ■ ■ J1**	
	102	94	14	3 100	0.99	17	**2KJ4601 - ■ EL33 - ■ ■ H1**	
	111	87	12.92	3 100	1.1	17	**2KJ4601 - ■ EL33 - ■ ■ G1**	
	126	76	11.31	3 000	1.2	17	**2KJ4601 - ■ EL33 - ■ ■ F1**	
	144	67	9.92	3 000	1.4	17	**2KJ4601 - ■ EL33 - ■ ■ E1**	
	159	61	9	3 000	1.5	17	**2KJ4601 - ■ EL33 - ■ ■ D1**	
	169	57	8.47	3 000	1.6	17	**2KJ4601 - ■ EL33 - ■ ■ C1**	
	191	50	7.47	2 900	1.7	17	**2KJ4601 - ■ EL33 - ■ ■ B1**	
	221	44	6.48	2 800	1.9	17	**2KJ4601 - ■ EL33 - ■ ■ A1**	
	C.39-LEN90SH4E							
	43	215	33.73	4 800	0.92	36	**2KJ4602 - ■ EL32 - ■ ■ R1**	
	44	215	32.64	4 500	0.99	36	**2KJ4602 - ■ EL32 - ■ ■ Q1**	
	51	189	28.32	4 500	1.2	36	**2KJ4602 - ■ EL32 - ■ ■ P1**	
	56	171	25.75	4 500	1.4	36	**2KJ4602 - ■ EL32 - ■ ■ N1**	
	65	147	22.08	4 400	1.6	36	**2KJ4602 - ■ EL32 - ■ ■ M1**	
	72	134	20.07	4 400	1.8	36	**2KJ4602 - ■ EL32 - ■ ■ L1**	
	82	118	17.6	4 300	1.9	36	**2KJ4602 - ■ EL32 - ■ ■ K1**	
	92	105	15.71	4 300	2.1	36	**2KJ4602 - ■ EL32 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**C.39-LEN90SH4E**							
	103	93	14	4 200	2.2	36	**2KJ4602 - ■ EL32 - ■ ■ H1**	
	111	86	12.92	4 200	2.3	36	**2KJ4602 - ■ EL32 - ■ ■ G1**	
	127	76	11.31	4 100	2.5	36	**2KJ4602 - ■ EL32 - ■ ■ F1**	
	145	66	9.92	4 000	2.7	36	**2KJ4602 - ■ EL32 - ■ ■ E1**	
	160	60	9	3 900	2.9	36	**2KJ4602 - ■ EL32 - ■ ■ D1**	
	170	56	8.47	3 900	3.0	36	**2KJ4602 - ■ EL32 - ■ ■ C1**	
	193	50	7.47	3 700	3.3	36	**2KJ4602 - ■ EL32 - ■ ■ B1**	
	222	43	6.48	3 600	3.6	36	**2KJ4602 - ■ EL32 - ■ ■ A1**	
	C.39-LEN90SN4P							
	42	220	33.73	4 800	0.91	23	**2KJ4602 - ■ EL33 - ■ ■ R1**	
	44	215	32.64	4 500	0.98	23	**2KJ4602 - ■ EL33 - ■ ■ Q1**	
	50	190	28.32	4 500	1.2	23	**2KJ4602 - ■ EL33 - ■ ■ P1**	
	56	173	25.75	4 500	1.4	23	**2KJ4602 - ■ EL33 - ■ ■ N1**	
	65	148	22.08	4 500	1.6	23	**2KJ4602 - ■ EL33 - ■ ■ M1**	
	71	135	20.07	4 400	1.7	23	**2KJ4602 - ■ EL33 - ■ ■ L1**	
	81	118	17.6	4 400	1.9	23	**2KJ4602 - ■ EL33 - ■ ■ K1**	
	91	106	15.71	4 300	2.0	23	**2KJ4602 - ■ EL33 - ■ ■ J1**	
	102	94	14	4 200	2.2	23	**2KJ4602 - ■ EL33 - ■ ■ H1**	
	111	87	12.92	4 200	2.3	23	**2KJ4602 - ■ EL33 - ■ ■ G1**	
	126	76	11.31	4 100	2.5	23	**2KJ4602 - ■ EL33 - ■ ■ F1**	
	144	67	9.92	4 000	2.7	23	**2KJ4602 - ■ EL33 - ■ ■ E1**	
	159	60	9	3 900	2.9	23	**2KJ4602 - ■ EL33 - ■ ■ D1**	
	169	57	8.47	3 900	3.0	23	**2KJ4602 - ■ EL33 - ■ ■ C1**	
	191	50	7.47	3 700	3.3	23	**2KJ4602 - ■ EL33 - ■ ■ B1**	
	221	44	6.48	3 600	3.6	23	**2KJ4602 - ■ EL33 - ■ ■ A1**	
	C.49-LEN90SH4E							
	20	390	73.12	5 100	0.8	40	**2KJ4603 - ■ EL32 - ■ ■ A2**	
	21	370	68.82	5 100	0.82	40	**2KJ4603 - ■ EL32 - ■ ■ X1**	
	24	325	60.67	5 100	0.87	40	**2KJ4603 - ■ EL32 - ■ ■ W1**	
	27	280	52.65	5 100	0.95	40	**2KJ4603 - ■ EL32 - ■ ■ V1**	
	29	320	49.87	4 100	0.99	40	**2KJ4603 - ■ EL32 - ■ ■ U1**	
	33	280	43.27	4 100	1.2	40	**2KJ4603 - ■ EL32 - ■ ■ T1**	
	37	255	39.33	4 100	1.6	40	**2KJ4603 - ■ EL32 - ■ ■ S1**	
	43	220	33.73	4 100	1.7	40	**2KJ4603 - ■ EL32 - ■ ■ R1**	
	47	200	30.67	4 100	1.9	40	**2KJ4603 - ■ EL32 - ■ ■ Q1**	
	54	176	26.89	4 100	2.1	40	**2KJ4603 - ■ EL32 - ■ ■ P1**	
	60	157	24	4 000	2.2	40	**2KJ4603 - ■ EL32 - ■ ■ N1**	
	67	140	21.39	4 000	2.4	40	**2KJ4603 - ■ EL32 - ■ ■ M1**	
	73	129	19.74	3 900	2.5	40	**2KJ4603 - ■ EL32 - ■ ■ L1**	
	83	113	17.29	3 900	2.7	40	**2KJ4603 - ■ EL32 - ■ ■ K1**	
	95	99	15.16	3 800	2.9	40	**2KJ4603 - ■ EL32 - ■ ■ J1**	
	105	90	13.75	3 700	3.1	40	**2KJ4603 - ■ EL32 - ■ ■ H1**	
	111	84	12.94	3 700	3.2	40	**2KJ4603 - ■ EL32 - ■ ■ G1**	
	126	74	11.41	3 600	3.4	40	**2KJ4603 - ■ EL32 - ■ ■ F1**	
	145	65	9.9	3 500	3.8	40	**2KJ4603 - ■ EL32 - ■ ■ E1**	
	C.49-LEN90SN4P							
	21	370	68.82	5 100	0.82	27	**2KJ4603 - ■ EL33 - ■ ■ X1**	
	24	325	60.67	5 100	0.87	27	**2KJ4603 - ■ EL33 - ■ ■ W1**	
	27	285	52.65	5 100	0.95	27	**2KJ4603 - ■ EL33 - ■ ■ V1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**C.49-LEN90SN4P**							
	29	325	49.87	4 000	0.98	27	**2KJ4603 - ■ EL33 - ■ ■ U1**	
	33	280	43.27	4 100	1.2	27	**2KJ4603 - ■ EL33 - ■ ■ T1**	
	36	255	39.33	4 100	1.5	27	**2KJ4603 - ■ EL33 - ■ ■ S1**	
	42	220	33.73	4 100	1.7	27	**2KJ4603 - ■ EL33 - ■ ■ R1**	
	47	200	30.67	4 100	1.9	27	**2KJ4603 - ■ EL33 - ■ ■ Q1**	
	53	177	26.89	4 100	2.1	27	**2KJ4603 - ■ EL33 - ■ ■ P1**	
	60	158	24	4 000	2.2	27	**2KJ4603 - ■ EL33 - ■ ■ N1**	
	67	141	21.39	4 000	2.3	27	**2KJ4603 - ■ EL33 - ■ ■ M1**	
	72	130	19.74	3 900	2.5	27	**2KJ4603 - ■ EL33 - ■ ■ L1**	
	83	114	17.29	3 900	2.6	27	**2KJ4603 - ■ EL33 - ■ ■ K1**	
	94	100	15.16	3 800	2.9	27	**2KJ4603 - ■ EL33 - ■ ■ J1**	
	104	90	13.75	3 700	3.0	27	**2KJ4603 - ■ EL33 - ■ ■ H1**	
	111	85	12.94	3 700	3.2	27	**2KJ4603 - ■ EL33 - ■ ■ G1**	
	125	75	11.41	3 600	3.5	27	**2KJ4603 - ■ EL33 - ■ ■ F1**	
	144	65	9.9	3 500	3.8	27	**2KJ4603 - ■ EL33 - ■ ■ E1**	
	C.69-LEN90SH4E							
	11	695	129	9 400	0.82	49	**2KJ4604 - ■ EL32 - ■ ■ C2**	
	13	615	114.21	9 400	0.87	49	**2KJ4604 - ■ EL32 - ■ ■ B2**	
	14	645	102.5	8 200	1.0	49	**2KJ4604 - ■ EL32 - ■ ■ A2**	
	16	565	90	8 200	1.2	49	**2KJ4604 - ■ EL32 - ■ ■ X1**	
	18	515	81.82	8 200	1.3	49	**2KJ4604 - ■ EL32 - ■ ■ W1**	
	21	440	70	8 100	1.5	49	**2KJ4604 - ■ EL32 - ■ ■ V1**	
	23	405	63.64	7 900	1.6	49	**2KJ4604 - ■ EL32 - ■ ■ U1**	
	26	355	56.25	7 800	1.7	49	**2KJ4604 - ■ EL32 - ■ ■ T1**	
	28	325	51.14	7 700	1.8	49	**2KJ4604 - ■ EL32 - ■ ■ S1**	
	32	285	44.79	7 600	1.9	49	**2KJ4604 - ■ EL32 - ■ ■ R1**	
	35	260	41.35	7 500	2.0	49	**2KJ4604 - ■ EL32 - ■ ■ Q1**	
	39	230	36.61	7 300	2.1	49	**2KJ4604 - ■ EL32 - ■ ■ P1**	
	48	198	30	6 800	2.8	49	**2KJ4604 - ■ EL32 - ■ ■ N1**	
	91	106	15.88	5 800	3.4	49	**2KJ4604 - ■ EL32 - ■ ■ H1**	
	C.69-LEN90SN4P							
	11	700	129	9 400	0.81	36	**2KJ4604 - ■ EL33 - ■ ■ C2**	
	13	620	114.21	9 400	0.86	36	**2KJ4604 - ■ EL33 - ■ ■ B2**	
	14	645	102.5	8 200	1.0	36	**2KJ4604 - ■ EL33 - ■ ■ A2**	
	16	570	90	8 200	1.2	36	**2KJ4604 - ■ EL33 - ■ ■ X1**	
	17	520	81.82	8 200	1.3	36	**2KJ4604 - ■ EL33 - ■ ■ W1**	
	20	445	70	8 100	1.5	36	**2KJ4604 - ■ EL33 - ■ ■ V1**	
	22	405	63.64	8 000	1.6	36	**2KJ4604 - ■ EL33 - ■ ■ U1**	
	25	360	56.25	7 800	1.7	36	**2KJ4604 - ■ EL33 - ■ ■ T1**	
	28	325	51.14	7 700	1.8	36	**2KJ4604 - ■ EL33 - ■ ■ S1**	
	32	285	44.79	7 600	1.9	36	**2KJ4604 - ■ EL33 - ■ ■ R1**	
	35	265	41.35	7 500	2.0	36	**2KJ4604 - ■ EL33 - ■ ■ Q1**	
	39	235	36.61	7 300	2.1	36	**2KJ4604 - ■ EL33 - ■ ■ P1**	
	48	199	30	6 800	2.7	36	**2KJ4604 - ■ EL33 - ■ ■ N1**	
	90	107	15.88	5 800	3.4	36	**2KJ4604 - ■ EL33 - ■ ■ H1**	
	C.89-LEN90SH4E							
	4.4	1740	329.73	15 800	0.83	71	**2KJ4605 - ■ EL32 - ■ ■ M2**	
	4.9	1560	295.75	16 100	0.92	71	**2KJ4605 - ■ EL32 - ■ ■ L2**	
	5.4	1410	265.91	16 300	1.0	71	**2KJ4605 - ■ EL32 - ■ ■ K2**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**C.89-LEN90SH4E**							
	6.0	1280	240.5	16 300	1.1	71	**2KJ4605 - ■ EL32 - ■ ■ J2**	
	6.5	1180	222	16 300	1.2	71	**2KJ4605 - ■ EL32 - ■ ■ H2**	
	7.1	1090	203.36	16 300	1.3	71	**2KJ4605 - ■ EL32 - ■ ■ G2**	
	8.4	915	170.62	16 300	1.5	71	**2KJ4605 - ■ EL32 - ■ ■ F2**	
	9.0	860	160.59	16 300	1.5	71	**2KJ4605 - ■ EL32 - ■ ■ E2**	
	9.8	790	147.33	16 300	1.6	71	**2KJ4605 - ■ EL32 - ■ ■ D2**	
	11	690	128.7	16 300	1.7	71	**2KJ4605 - ■ EL32 - ■ ■ C2**	
	12	615	115.23	16 300	1.8	71	**2KJ4605 - ■ EL32 - ■ ■ B2**	
	14	540	100.75	16 300	2.0	71	**2KJ4605 - ■ EL32 - ■ ■ A2**	
	17	460	86.48	16 300	2.1	71	**2KJ4605 - ■ EL32 - ■ ■ X1**	
	19	410	76.44	16 300	2.3	71	**2KJ4605 - ■ EL32 - ■ ■ W1**	
	C.89-LEN90SN4P							
	4.3	1750	329.73	15 700	0.83	58	**2KJ4605 - ■ EL33 - ■ ■ M2**	
	4.8	1570	295.75	16 000	0.92	58	**2KJ4605 - ■ EL33 - ■ ■ L2**	
	5.4	1420	265.91	16 300	1.0	58	**2KJ4605 - ■ EL33 - ■ ■ K2**	
	5.9	1290	240.5	16 300	1.1	58	**2KJ4605 - ■ EL33 - ■ ■ J2**	
	6.4	1190	222	16 300	1.2	58	**2KJ4605 - ■ EL33 - ■ ■ H2**	
	7.0	1090	203.36	16 300	1.3	58	**2KJ4605 - ■ EL33 - ■ ■ G2**	
	8.4	920	170.62	16 300	1.5	58	**2KJ4605 - ■ EL33 - ■ ■ F2**	
	8.9	865	160.59	16 300	1.5	58	**2KJ4605 - ■ EL33 - ■ ■ E2**	
	9.7	795	147.33	16 300	1.6	58	**2KJ4605 - ■ EL33 - ■ ■ D2**	
	11	695	128.7	16 300	1.7	58	**2KJ4605 - ■ EL33 - ■ ■ C2**	
	12	620	115.23	16 300	1.8	58	**2KJ4605 - ■ EL33 - ■ ■ B2**	
	14	540	100.75	16 300	1.9	58	**2KJ4605 - ■ EL33 - ■ ■ A2**	
	17	465	86.48	16 300	2.1	58	**2KJ4605 - ■ EL33 - ■ ■ X1**	
	19	410	76.44	16 300	2.3	58	**2KJ4605 - ■ EL33 - ■ ■ W1**	
1.5	**C.29-LEN90LJ4E**							
	127	103	11.31	2 600	0.91	31	**2KJ4601 - ■ EN32 - ■ ■ F1**	
	145	90	9.92	2 600	1.0	31	**2KJ4601 - ■ EN32 - ■ ■ E1**	
	160	82	9	2 600	1.1	31	**2KJ4601 - ■ EN32 - ■ ■ D1**	
	170	77	8.47	2 600	1.2	31	**2KJ4601 - ■ EN32 - ■ ■ C1**	
	193	68	7.47	2 600	1.3	31	**2KJ4601 - ■ EN32 - ■ ■ B1**	
	222	59	6.48	2 600	1.4	31	**2KJ4601 - ■ EN32 - ■ ■ A1**	
	C.29-LEN90LR4P							
	127	103	11.31	2 600	0.91	20	**2KJ4601 - ■ EN33 - ■ ■ F1**	
	145	90	9.92	2 600	1.0	20	**2KJ4601 - ■ EN33 - ■ ■ E1**	
	160	82	9	2 600	1.1	20	**2KJ4601 - ■ EN33 - ■ ■ D1**	
	170	77	8.47	2 600	1.2	20	**2KJ4601 - ■ EN33 - ■ ■ C1**	
	193	68	7.47	2 600	1.3	20	**2KJ4601 - ■ EN33 - ■ ■ B1**	
	222	59	6.48	2 600	1.4	20	**2KJ4601 - ■ EN33 - ■ ■ A1**	
	C.39-LEN90LJ4E							
	51	255	28.32	3 700	0.91	37	**2KJ4602 - ■ EN32 - ■ ■ P1**	
	56	230	25.75	3 800	1.0	37	**2KJ4602 - ■ EN32 - ■ ■ N1**	
	65	200	22.08	3 800	1.2	37	**2KJ4602 - ■ EN32 - ■ ■ M1**	
	72	183	20.07	3 800	1.3	37	**2KJ4602 - ■ EN32 - ■ ■ L1**	
	82	160	17.6	3 800	1.4	37	**2KJ4602 - ■ EN32 - ■ ■ K1**	
	92	143	15.71	3 800	1.5	37	**2KJ4602 - ■ EN32 - ■ ■ J1**	
	103	127	14	3 800	1.6	37	**2KJ4602 - ■ EN32 - ■ ■ H1**	
	111	118	12.92	3 800	1.7	37	**2KJ4602 - ■ EN32 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**C.39-LEN90LJ4E**							
	127	103	11.31	3 700	1.8	37	**2KJ4602 - ■ EN32 - ■ ■ F1**	
	145	90	9.92	3 700	2.0	37	**2KJ4602 - ■ EN32 - ■ ■ E1**	
	160	82	9	3 600	2.1	37	**2KJ4602 - ■ EN32 - ■ ■ D1**	
	170	77	8.47	3 600	2.2	37	**2KJ4602 - ■ EN32 - ■ ■ C1**	
	193	68	7.47	3 500	2.4	37	**2KJ4602 - ■ EN32 - ■ ■ B1**	
	222	59	6.48	3 400	2.6	37	**2KJ4602 - ■ EN32 - ■ ■ A1**	
	C.39-LEN90LR4P							
	51	255	28.32	3 700	0.91	26	**2KJ4602 - ■ EN33 - ■ ■ P1**	
	56	230	25.75	3 800	1.0	26	**2KJ4602 - ■ EN33 - ■ ■ N1**	
	65	200	22.08	3 800	1.2	26	**2KJ4602 - ■ EN33 - ■ ■ M1**	
	72	183	20.07	3 800	1.3	26	**2KJ4602 - ■ EN33 - ■ ■ L1**	
	82	160	17.6	3 800	1.4	26	**2KJ4602 - ■ EN33 - ■ ■ K1**	
	92	143	15.71	3 800	1.5	26	**2KJ4602 - ■ EN33 - ■ ■ J1**	
	103	127	14	3 800	1.6	26	**2KJ4602 - ■ EN33 - ■ ■ H1**	
	111	118	12.92	3 800	1.7	26	**2KJ4602 - ■ EN33 - ■ ■ G1**	
	127	103	11.31	3 700	1.8	26	**2KJ4602 - ■ EN33 - ■ ■ F1**	
	145	90	9.92	3 700	2.0	26	**2KJ4602 - ■ EN33 - ■ ■ E1**	
	160	82	9	3 600	2.1	26	**2KJ4602 - ■ EN33 - ■ ■ D1**	
	170	77	8.47	3 600	2.2	26	**2KJ4602 - ■ EN33 - ■ ■ C1**	
	193	68	7.47	3 500	2.4	26	**2KJ4602 - ■ EN33 - ■ ■ B1**	
	222	59	6.48	3 400	2.6	26	**2KJ4602 - ■ EN33 - ■ ■ A1**	
	C.49-LEN90LJ4E							
	33	385	43.27	3 100	0.91	41	**2KJ4603 - ■ EN32 - ■ ■ T1**	
	37	350	39.33	3 300	1.1	41	**2KJ4603 - ■ EN32 - ■ ■ S1**	
	43	300	33.73	3 400	1.2	41	**2KJ4603 - ■ EN32 - ■ ■ R1**	
	47	270	30.67	3 500	1.4	41	**2KJ4603 - ■ EN32 - ■ ■ Q1**	
	54	240	26.89	3 500	1.5	41	**2KJ4603 - ■ EN32 - ■ ■ P1**	
	60	210	24	3 500	1.6	41	**2KJ4603 - ■ EN32 - ■ ■ N1**	
	67	190	21.39	3 500	1.7	41	**2KJ4603 - ■ EN32 - ■ ■ M1**	
	73	176	19.74	3 500	1.8	41	**2KJ4603 - ■ EN32 - ■ ■ L1**	
	83	154	17.29	3 500	1.9	41	**2KJ4603 - ■ EN32 - ■ ■ K1**	
	95	135	15.16	3 500	2.1	41	**2KJ4603 - ■ EN32 - ■ ■ J1**	
	105	122	13.75	3 400	2.2	41	**2KJ4603 - ■ EN32 - ■ ■ H1**	
	111	115	12.94	3 400	2.3	41	**2KJ4603 - ■ EN32 - ■ ■ G1**	
	126	102	11.41	3 300	2.5	41	**2KJ4603 - ■ EN32 - ■ ■ F1**	
	145	88	9.9	3 300	2.8	41	**2KJ4603 - ■ EN32 - ■ ■ E1**	
	160	82	9	3 100	3.1	41	**2KJ4603 - ■ EN32 - ■ ■ D1**	
	170	77	8.47	3 100	3.3	41	**2KJ4603 - ■ EN32 - ■ ■ C1**	
	193	68	7.47	3 000	3.6	41	**2KJ4603 - ■ EN32 - ■ ■ B1**	
	222	59	6.48	2 900	3.9	41	**2KJ4603 - ■ EN32 - ■ ■ A1**	
	C.49-LEN90LR4P							
	33	385	43.27	3 100	0.91	30	**2KJ4603 - ■ EN33 - ■ ■ T1**	
	37	350	39.33	3 300	1.1	30	**2KJ4603 - ■ EN33 - ■ ■ S1**	
	43	300	33.73	3 400	1.2	30	**2KJ4603 - ■ EN33 - ■ ■ R1**	
	47	270	30.67	3 500	1.4	30	**2KJ4603 - ■ EN33 - ■ ■ Q1**	
	54	240	26.89	3 500	1.5	30	**2KJ4603 - ■ EN33 - ■ ■ P1**	
	60	210	24	3 500	1.6	30	**2KJ4603 - ■ EN33 - ■ ■ N1**	
	67	190	21.39	3 500	1.7	30	**2KJ4603 - ■ EN33 - ■ ■ M1**	
	73	176	19.74	3 500	1.8	30	**2KJ4603 - ■ EN33 - ■ ■ L1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**C.49-LEN90LR4P**							
	83	154	17.29	3 500	1.9	30	**2KJ4603 - ■ EN33 - ■ ■ K1**	
	95	135	15.16	3 500	2.1	30	**2KJ4603 - ■ EN33 - ■ ■ J1**	
	105	122	13.75	3 400	2.2	30	**2KJ4603 - ■ EN33 - ■ ■ H1**	
	111	115	12.94	3 400	2.3	30	**2KJ4603 - ■ EN33 - ■ ■ G1**	
	126	102	11.41	3 300	2.5	30	**2KJ4603 - ■ EN33 - ■ ■ F1**	
	145	88	9.9	3 300	2.8	30	**2KJ4603 - ■ EN33 - ■ ■ E1**	
	160	82	9	3 100	3.1	30	**2KJ4603 - ■ EN33 - ■ ■ D1**	
	170	77	8.47	3 100	3.3	30	**2KJ4603 - ■ EN33 - ■ ■ C1**	
	193	68	7.47	3 000	3.6	30	**2KJ4603 - ■ EN33 - ■ ■ B1**	
	222	59	6.48	2 900	3.9	30	**2KJ4603 - ■ EN33 - ■ ■ A1**	
	C.69-LEN90LJ4E							
	16	775	90	6 800	0.87	50	**2KJ4604 - ■ EN32 - ■ ■ X1**	
	18	705	81.82	6 900	0.96	50	**2KJ4604 - ■ EN32 - ■ ■ W1**	
	21	605	70	7 000	1.1	50	**2KJ4604 - ■ EN32 - ■ ■ V1**	
	23	550	63.64	7 000	1.2	50	**2KJ4604 - ■ EN32 - ■ ■ U1**	
	26	485	56.25	7 000	1.2	50	**2KJ4604 - ■ EN32 - ■ ■ T1**	
	28	440	51.14	7 000	1.3	50	**2KJ4604 - ■ EN32 - ■ ■ S1**	
	32	385	44.79	6 900	1.4	50	**2KJ4604 - ■ EN32 - ■ ■ R1**	
	35	355	41.35	6 800	1.5	50	**2KJ4604 - ■ EN32 - ■ ■ Q1**	
	39	315	36.61	6 700	1.6	50	**2KJ4604 - ■ EN32 - ■ ■ P1**	
	48	270	30	6 300	2.0	50	**2KJ4604 - ■ EN32 - ■ ■ N1**	
	55	235	26.28	6 200	2.2	50	**2KJ4604 - ■ EN32 - ■ ■ M1**	
	59	215	24.26	6 100	2.3	50	**2KJ4604 - ■ EN32 - ■ ■ L1**	
	67	193	21.48	6 000	2.5	50	**2KJ4604 - ■ EN32 - ■ ■ K1**	
	81	161	17.88	5 800	2.7	50	**2KJ4604 - ■ EN32 - ■ ■ J1**	
	91	145	15.88	5 500	2.5	50	**2KJ4604 - ■ EN32 - ■ ■ H1**	
	102	128	14.06	5 400	2.8	50	**2KJ4604 - ■ EN32 - ■ ■ G1**	
	123	107	11.7	5 100	3.4	50	**2KJ4604 - ■ EN32 - ■ ■ F1**	
	131	101	11.01	5 100	3.6	50	**2KJ4604 - ■ EN32 - ■ ■ E1**	
	146	90	9.87	5 000	4.0	50	**2KJ4604 - ■ EN32 - ■ ■ D1**	
	C.69-LEN90LR4P							
	16	775	90	6 800	0.87	39	**2KJ4604 - ■ EN33 - ■ ■ X1**	
	18	705	81.82	6 900	0.96	39	**2KJ4604 - ■ EN33 - ■ ■ W1**	
	21	605	70	7 000	1.1	39	**2KJ4604 - ■ EN33 - ■ ■ V1**	
	23	550	63.64	7 000	1.2	39	**2KJ4604 - ■ EN33 - ■ ■ U1**	
	26	485	56.25	7 000	1.2	39	**2KJ4604 - ■ EN33 - ■ ■ T1**	
	28	440	51.14	7 000	1.3	39	**2KJ4604 - ■ EN33 - ■ ■ S1**	
	32	385	44.79	6 900	1.4	39	**2KJ4604 - ■ EN33 - ■ ■ R1**	
	35	355	41.35	6 800	1.5	39	**2KJ4604 - ■ EN33 - ■ ■ Q1**	
	39	315	36.61	6 700	1.6	39	**2KJ4604 - ■ EN33 - ■ ■ P1**	
	48	270	30	6 300	2.0	39	**2KJ4604 - ■ EN33 - ■ ■ N1**	
	55	235	26.28	6 200	2.2	39	**2KJ4604 - ■ EN33 - ■ ■ M1**	
	59	215	24.26	6 100	2.3	39	**2KJ4604 - ■ EN33 - ■ ■ L1**	
	67	193	21.48	6 000	2.5	39	**2KJ4604 - ■ EN33 - ■ ■ K1**	
	81	161	17.88	5 800	2.7	39	**2KJ4604 - ■ EN33 - ■ ■ J1**	
	91	145	15.88	5 500	2.5	39	**2KJ4604 - ■ EN33 - ■ ■ H1**	
	102	128	14.06	5 400	2.8	39	**2KJ4604 - ■ EN33 - ■ ■ G1**	
	123	107	11.7	5 100	3.4	39	**2KJ4604 - ■ EN33 - ■ ■ F1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**C.69-LEN90LR4P**							
	131	101	11.01	5 100	3.6	39	**2KJ4604 - ■ EN33 - ■ ■ E1**	
	146	90	9.87	5 000	4.0	39	**2KJ4604 - ■ EN33 - ■ ■ D1**	
	C.89-LEN90LJ4E							
	6.0	1750	240.5	15 700	0.83	72	**2KJ4605 - ■ EN32 - ■ ■ J2**	
	6.5	1620	222	16 000	0.89	72	**2KJ4605 - ■ EN32 - ■ ■ H2**	
	7.1	1480	203.36	16 200	0.97	72	**2KJ4605 - ■ EN32 - ■ ■ G2**	
	8.4	1240	170.62	16 300	1.1	72	**2KJ4605 - ■ EN32 - ■ ■ F2**	
	9.0	1170	160.59	16 300	1.1	72	**2KJ4605 - ■ EN32 - ■ ■ E2**	
	9.8	1080	147.33	16 300	1.2	72	**2KJ4605 - ■ EN32 - ■ ■ D2**	
	11	940	128.7	16 300	1.3	72	**2KJ4605 - ■ EN32 - ■ ■ C2**	
	12	840	115.23	16 300	1.3	72	**2KJ4605 - ■ EN32 - ■ ■ B2**	
	14	735	100.75	16 300	1.4	72	**2KJ4605 - ■ EN32 - ■ ■ A2**	
	17	630	86.48	16 200	1.6	72	**2KJ4605 - ■ EN32 - ■ ■ X1**	
	19	555	76.44	15 700	1.7	72	**2KJ4605 - ■ EN32 - ■ ■ W1**	
	C.89-LEN90LR4P							
	6.0	1750	240.5	15 700	0.83	61	**2KJ4605 - ■ EN33 - ■ ■ J2**	
	6.5	1620	222	16 000	0.89	61	**2KJ4605 - ■ EN33 - ■ ■ H2**	
	7.1	1480	203.36	16 200	0.97	61	**2KJ4605 - ■ EN33 - ■ ■ G2**	
	8.4	1240	170.62	16 300	1.1	61	**2KJ4605 - ■ EN33 - ■ ■ F2**	
	9.0	1170	160.59	16 300	1.1	61	**2KJ4605 - ■ EN33 - ■ ■ E2**	
	9.8	1080	147.33	16 300	1.2	61	**2KJ4605 - ■ EN33 - ■ ■ D2**	
	11	940	128.7	16 300	1.3	61	**2KJ4605 - ■ EN33 - ■ ■ C2**	
	12	840	115.23	16 300	1.3	61	**2KJ4605 - ■ EN33 - ■ ■ B2**	
	14	735	100.75	16 300	1.4	61	**2KJ4605 - ■ EN33 - ■ ■ A2**	
	17	630	86.48	16 200	1.6	61	**2KJ4605 - ■ EN33 - ■ ■ X1**	
	19	555	76.44	15 700	1.7	61	**2KJ4605 - ■ EN33 - ■ ■ W1**	
2.2	**C.39-LEN100LH4E**							
	82	235	17.6	2 600	0.95	43	**2KJ4602 - ■ FM32 - ■ ■ K1**	
	91	210	15.71	2 900	1.0	43	**2KJ4602 - ■ FM32 - ■ ■ J1**	
	102	188	14	3 100	1.1	43	**2KJ4602 - ■ FM32 - ■ ■ H1**	
	111	173	12.92	3 100	1.2	43	**2KJ4602 - ■ FM32 - ■ ■ G1**	
	127	151	11.31	3 200	1.3	43	**2KJ4602 - ■ FM32 - ■ ■ F1**	
	145	133	9.92	3 200	1.4	43	**2KJ4602 - ■ FM32 - ■ ■ E1**	
	159	121	9	3 200	1.5	43	**2KJ4602 - ■ FM32 - ■ ■ D1**	
	169	113	8.47	3 200	1.5	43	**2KJ4602 - ■ FM32 - ■ ■ C1**	
	192	100	7.47	3 200	1.6	43	**2KJ4602 - ■ FM32 - ■ ■ B1**	
	221	87	6.48	3 100	1.8	43	**2KJ4602 - ■ FM32 - ■ ■ A1**	
	C.39-LEN100LU4P							
	82	230	17.6	2 700	0.96	40	**2KJ4602 - ■ FL33 - ■ ■ K1**	
	92	205	15.71	3 000	1.0	40	**2KJ4602 - ■ FL33 - ■ ■ J1**	
	103	186	14	3 100	1.1	40	**2KJ4602 - ■ FL33 - ■ ■ H1**	
	112	172	12.92	3 100	1.2	40	**2KJ4602 - ■ FL33 - ■ ■ G1**	
	128	150	11.31	3 200	1.3	40	**2KJ4602 - ■ FL33 - ■ ■ F1**	
	146	132	9.92	3 200	1.4	40	**2KJ4602 - ■ FL33 - ■ ■ E1**	
	161	120	9	3 200	1.5	40	**2KJ4602 - ■ FL33 - ■ ■ D1**	
	171	113	8.47	3 200	1.5	40	**2KJ4602 - ■ FL33 - ■ ■ C1**	
	193	99	7.47	3 200	1.6	40	**2KJ4602 - ■ FL33 - ■ ■ B1**	
	223	86	6.48	3 100	1.8	40	**2KJ4602 - ■ FL33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**C.49-LEN100LH4E**							
	53	350	26.89	2 300	1.0	51	**2KJ4603 - ■ FM32 - ■ ■ P1**	
	60	315	24	2 600	1.1	51	**2KJ4603 - ■ FM32 - ■ ■ N1**	
	67	280	21.39	2 700	1.2	51	**2KJ4603 - ■ FM32 - ■ ■ M1**	
	73	255	19.74	2 800	1.2	51	**2KJ4603 - ■ FM32 - ■ ■ L1**	
	83	225	17.29	2 900	1.3	51	**2KJ4603 - ■ FM32 - ■ ■ K1**	
	95	199	15.16	2 900	1.4	51	**2KJ4603 - ■ FM32 - ■ ■ J1**	
	104	180	13.75	2 900	1.5	51	**2KJ4603 - ■ FM32 - ■ ■ H1**	
	111	170	12.94	2 900	1.6	51	**2KJ4603 - ■ FM32 - ■ ■ G1**	
	126	150	11.41	2 900	1.7	51	**2KJ4603 - ■ FM32 - ■ ■ F1**	
	145	130	9.9	2 900	1.9	51	**2KJ4603 - ■ FM32 - ■ ■ E1**	
	159	121	9	2 700	2.1	51	**2KJ4603 - ■ FM32 - ■ ■ D1**	
	169	114	8.47	2 700	2.2	51	**2KJ4603 - ■ FM32 - ■ ■ C1**	
	192	100	7.47	2 700	2.4	51	**2KJ4603 - ■ FM32 - ■ ■ B1**	
	221	87	6.48	2 700	2.6	51	**2KJ4603 - ■ FM32 - ■ ■ A1**	
	C.49-LEN100LU4P							
	54	350	26.89	2 300	1.0	48	**2KJ4603 - ■ FL33 - ■ ■ P1**	
	60	310	24	2 600	1.1	48	**2KJ4603 - ■ FL33 - ■ ■ N1**	
	68	275	21.39	2 700	1.2	48	**2KJ4603 - ■ FL33 - ■ ■ M1**	
	73	255	19.74	2 800	1.2	48	**2KJ4603 - ■ FL33 - ■ ■ L1**	
	84	225	17.29	2 900	1.3	48	**2KJ4603 - ■ FL33 - ■ ■ K1**	
	95	197	15.16	2 900	1.4	48	**2KJ4603 - ■ FL33 - ■ ■ J1**	
	105	179	13.75	2 900	1.5	48	**2KJ4603 - ■ FL33 - ■ ■ H1**	
	112	168	12.94	2 900	1.6	48	**2KJ4603 - ■ FL33 - ■ ■ G1**	
	127	149	11.41	2 900	1.7	48	**2KJ4603 - ■ FL33 - ■ ■ F1**	
	146	129	9.9	2 900	1.9	48	**2KJ4603 - ■ FL33 - ■ ■ E1**	
	161	120	9	2 700	2.1	48	**2KJ4603 - ■ FL33 - ■ ■ D1**	
	171	113	8.47	2 700	2.3	48	**2KJ4603 - ■ FL33 - ■ ■ C1**	
	193	99	7.47	2 700	2.5	48	**2KJ4603 - ■ FL33 - ■ ■ B1**	
	223	86	6.48	2 700	2.7	48	**2KJ4603 - ■ FL33 - ■ ■ A1**	
	C.69-LEN100LH4E							
	26	715	56.25	5 500	0.86	60	**2KJ4604 - ■ FM32 - ■ ■ T1**	
	28	650	51.14	5 600	0.89	60	**2KJ4604 - ■ FM32 - ■ ■ S1**	
	32	570	44.79	5 700	0.95	60	**2KJ4604 - ■ FM32 - ■ ■ R1**	
	35	525	41.35	5 800	0.99	60	**2KJ4604 - ■ FM32 - ■ ■ Q1**	
	39	465	36.61	5 800	1.1	60	**2KJ4604 - ■ FM32 - ■ ■ P1**	
	48	395	30	5 400	1.4	60	**2KJ4604 - ■ FM32 - ■ ■ N1**	
	55	345	26.28	5 400	1.5	60	**2KJ4604 - ■ FM32 - ■ ■ M1**	
	59	320	24.26	5 400	1.6	60	**2KJ4604 - ■ FM32 - ■ ■ L1**	
	67	285	21.48	5 300	1.7	60	**2KJ4604 - ■ FM32 - ■ ■ K1**	
	80	235	17.88	5 300	1.9	60	**2KJ4604 - ■ FM32 - ■ ■ J1**	
	90	210	15.88	5 000	1.7	60	**2KJ4604 - ■ FM32 - ■ ■ H1**	
	102	189	14.06	4 900	1.9	60	**2KJ4604 - ■ FM32 - ■ ■ G1**	
	123	157	11.7	4 800	2.3	60	**2KJ4604 - ■ FM32 - ■ ■ F1**	
	130	148	11.01	4 700	2.4	60	**2KJ4604 - ■ FM32 - ■ ■ E1**	
	145	133	9.87	4 600	2.7	60	**2KJ4604 - ■ FM32 - ■ ■ D1**	
	171	113	8.4	4 500	3.2	60	**2KJ4604 - ■ FM32 - ■ ■ C1**	
	199	97	7.2	4 300	3.7	60	**2KJ4604 - ■ FM32 - ■ ■ B1**	
	231	83	6.2	4 200	4.3	60	**2KJ4604 - ■ FM32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**C.69-LEN100LU4P**							
	26	710	56.25	5 500	0.85	57	**2KJ4604 - ■ FL33 - ■ ■ T1**	
	28	645	51.14	5 600	0.89	57	**2KJ4604 - ■ FL33 - ■ ■ S1**	
	32	565	44.79	5 700	0.96	57	**2KJ4604 - ■ FL33 - ■ ■ R1**	
	35	525	41.35	5 700	1.0	57	**2KJ4604 - ■ FL33 - ■ ■ Q1**	
	39	465	36.61	5 800	1.1	57	**2KJ4604 - ■ FL33 - ■ ■ P1**	
	48	395	30	5 400	1.4	57	**2KJ4604 - ■ FL33 - ■ ■ N1**	
	55	345	26.28	5 400	1.5	57	**2KJ4604 - ■ FL33 - ■ ■ M1**	
	60	315	24.26	5 400	1.6	57	**2KJ4604 - ■ FL33 - ■ ■ L1**	
	67	280	21.48	5 400	1.7	57	**2KJ4604 - ■ FL33 - ■ ■ K1**	
	81	235	17.88	5 200	1.9	57	**2KJ4604 - ■ FL33 - ■ ■ J1**	
	91	210	15.88	5 000	1.7	57	**2KJ4604 - ■ FL33 - ■ ■ H1**	
	103	188	14.06	4 900	1.9	57	**2KJ4604 - ■ FL33 - ■ ■ G1**	
	124	156	11.7	4 800	2.3	57	**2KJ4604 - ■ FL33 - ■ ■ F1**	
	131	147	11.01	4 700	2.5	57	**2KJ4604 - ■ FL33 - ■ ■ E1**	
	146	132	9.87	4 600	2.7	57	**2KJ4604 - ■ FL33 - ■ ■ D1**	
	172	112	8.4	4 500	3.2	57	**2KJ4604 - ■ FL33 - ■ ■ C1**	
	201	96	7.2	4 300	3.8	57	**2KJ4604 - ■ FL33 - ■ ■ B1**	
	233	83	6.2	4 200	4.3	57	**2KJ4604 - ■ FL33 - ■ ■ A1**	
	C.89-LEN100LH4E							
	9.7	1 580	147.33	15 500	0.81	80	**2KJ4605 - ■ FM32 - ■ ■ D2**	
	11	1 380	128.7	15 400	0.86	80	**2KJ4605 - ■ FM32 - ■ ■ C2**	
	12	1 240	115.23	15 300	0.91	80	**2KJ4605 - ■ FM32 - ■ ■ B2**	
	14	1 080	100.75	15 100	0.98	80	**2KJ4605 - ■ FM32 - ■ ■ A2**	
	17	930	86.48	14 800	1.1	80	**2KJ4605 - ■ FM32 - ■ ■ X1**	
	19	820	76.44	14 600	1.1	80	**2KJ4605 - ■ FM32 - ■ ■ W1**	
	22	695	65	14 200	1.2	80	**2KJ4605 - ■ FM32 - ■ ■ V1**	
	26	735	55.61	12 300	2.0	80	**2KJ4605 - ■ FM32 - ■ ■ U1**	
	29	660	50	12 100	2.2	80	**2KJ4605 - ■ FM32 - ■ ■ T1**	
	32	595	45.22	12 000	2.3	80	**2KJ4605 - ■ FM32 - ■ ■ S1**	
	34	550	41.74	11 800	2.4	80	**2KJ4605 - ■ FM32 - ■ ■ R1**	
	38	505	38.24	11 600	2.6	80	**2KJ4605 - ■ FM32 - ■ ■ Q1**	
	C.89-LEN100LU4P							
	9.8	1 570	147.33	15 500	0.81	77	**2KJ4605 - ■ FL33 - ■ ■ D2**	
	11	1 370	128.7	15 400	0.86	77	**2KJ4605 - ■ FL33 - ■ ■ C2**	
	13	1 230	115.23	15 300	0.92	77	**2KJ4605 - ■ FL33 - ■ ■ B2**	
	14	1 070	100.75	15 100	0.98	77	**2KJ4605 - ■ FL33 - ■ ■ A2**	
	17	920	86.48	14 800	1.1	77	**2KJ4605 - ■ FL33 - ■ ■ X1**	
	19	815	76.44	14 500	1.1	77	**2KJ4605 - ■ FL33 - ■ ■ W1**	
	22	690	65	14 200	1.2	77	**2KJ4605 - ■ FL33 - ■ ■ V1**	
	26	730	55.61	12 300	2.0	77	**2KJ4605 - ■ FL33 - ■ ■ U1**	
	29	655	50	12 100	2.2	77	**2KJ4605 - ■ FL33 - ■ ■ T1**	
	32	595	45.22	11 900	2.3	77	**2KJ4605 - ■ FL33 - ■ ■ S1**	
	35	550	41.74	11 800	2.4	77	**2KJ4605 - ■ FL33 - ■ ■ R1**	
	38	500	38.24	11 600	2.6	77	**2KJ4605 - ■ FL33 - ■ ■ Q1**	
3	**C.39-LEN100LN4E**							
	102	255	14	1 300	0.8	47	**2KJ4602 - ■ FP32 - ■ ■ H1**	
	111	235	12.92	1 600	0.85	47	**2KJ4602 - ■ FP32 - ■ ■ G1**	
	127	205	11.31	2 200	0.92	47	**2KJ4602 - ■ FP32 - ■ ■ F1**	
	145	181	9.92	2 500	1.0	47	**2KJ4602 - ■ FP32 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**C.39-LEN100LN4E**							
	159	164	9	2 700	1.1	47	**2KJ4602 - ■ FP32 - ■ ■ D1**	
	169	155	8.47	2 700	1.1	47	**2KJ4602 - ■ FP32 - ■ ■ C1**	
	192	136	7.47	2 700	1.2	47	**2KJ4602 - ■ FP32 - ■ ■ B1**	
	221	118	6.48	2 700	1.3	47	**2KJ4602 - ■ FP32 - ■ ■ A1**	
	C.39-LEN100LZ4P							
	104	250	14	1 400	0.81	37	**2KJ4602 - ■ FM33 - ■ ■ H1**	
	112	230	12.92	1 800	0.85	37	**2KJ4602 - ■ FM33 - ■ ■ G1**	
	128	200	11.31	2 300	0.92	37	**2KJ4602 - ■ FM33 - ■ ■ F1**	
	146	179	9.92	2 600	1.0	37	**2KJ4602 - ■ FM33 - ■ ■ E1**	
	161	163	9	2 700	1.1	37	**2KJ4602 - ■ FM33 - ■ ■ D1**	
	171	153	8.47	2 700	1.1	37	**2KJ4602 - ■ FM33 - ■ ■ C1**	
	194	135	7.47	2 700	1.2	37	**2KJ4602 - ■ FM33 - ■ ■ B1**	
	224	117	6.48	2 700	1.3	37	**2KJ4602 - ■ FM33 - ■ ■ A1**	
	C.49-LEN100LN4E							
	60	425	24	500	0.8	55	**2KJ4603 - ■ FP32 - ■ ■ N1**	
	67	380	21.39	1 000	0.86	55	**2KJ4603 - ■ FP32 - ■ ■ M1**	
	73	350	19.74	1 400	0.91	55	**2KJ4603 - ■ FP32 - ■ ■ L1**	
	83	305	17.29	2 000	0.97	55	**2KJ4603 - ■ FP32 - ■ ■ K1**	
	95	270	15.16	2 300	1.1	55	**2KJ4603 - ■ FP32 - ■ ■ J1**	
	104	245	13.75	2 300	1.1	55	**2KJ4603 - ■ FP32 - ■ ■ H1**	
	111	230	12.94	2 400	1.2	55	**2KJ4603 - ■ FP32 - ■ ■ G1**	
	126	200	11.41	2 500	1.3	55	**2KJ4603 - ■ FP32 - ■ ■ F1**	
	145	177	9.9	2 500	1.4	55	**2KJ4603 - ■ FP32 - ■ ■ E1**	
	159	164	9	2 300	1.6	55	**2KJ4603 - ■ FP32 - ■ ■ D1**	
	169	155	8.47	2 300	1.6	55	**2KJ4603 - ■ FP32 - ■ ■ C1**	
	192	137	7.47	2 300	1.8	55	**2KJ4603 - ■ FP32 - ■ ■ B1**	
	221	118	6.48	2 400	1.9	55	**2KJ4603 - ■ FP32 - ■ ■ A1**	
	C.49-LEN100LZ4P							
	60	420	24	500	0.81	45	**2KJ4603 - ■ FM33 - ■ ■ N1**	
	68	375	21.39	1 100	0.87	45	**2KJ4603 - ■ FM33 - ■ ■ M1**	
	73	345	19.74	1 500	0.9	45	**2KJ4603 - ■ FM33 - ■ ■ L1**	
	84	305	17.29	2 000	0.98	45	**2KJ4603 - ■ FM33 - ■ ■ K1**	
	96	265	15.16	2 300	1.1	45	**2KJ4603 - ■ FM33 - ■ ■ J1**	
	105	240	13.75	2 400	1.1	45	**2KJ4603 - ■ FM33 - ■ ■ H1**	
	112	225	12.94	2 400	1.2	45	**2KJ4603 - ■ FM33 - ■ ■ G1**	
	127	200	11.41	2 500	1.3	45	**2KJ4603 - ■ FM33 - ■ ■ F1**	
	146	175	9.9	2 500	1.4	45	**2KJ4603 - ■ FM33 - ■ ■ E1**	
	161	163	9	2 300	1.6	45	**2KJ4603 - ■ FM33 - ■ ■ D1**	
	171	153	8.47	2 300	1.7	45	**2KJ4603 - ■ FM33 - ■ ■ C1**	
	194	135	7.47	2 300	1.8	45	**2KJ4603 - ■ FM33 - ■ ■ B1**	
	224	117	6.48	2 400	2.0	45	**2KJ4603 - ■ FM33 - ■ ■ A1**	
	C.69-LEN100LN4E							
	48	540	30	4 300	1.0	64	**2KJ4604 - ■ FP32 - ■ ■ N1**	
	55	475	26.28	4 500	1.1	64	**2KJ4604 - ■ FP32 - ■ ■ M1**	
	59	435	24.26	4 600	1.1	64	**2KJ4604 - ■ FP32 - ■ ■ L1**	
	67	385	21.48	4 600	1.2	64	**2KJ4604 - ■ FP32 - ■ ■ K1**	
	80	320	17.88	4 700	1.4	64	**2KJ4604 - ■ FP32 - ■ ■ J1**	
	90	290	15.88	4 300	1.2	64	**2KJ4604 - ■ FP32 - ■ ■ H1**	
	102	255	14.06	4 400	1.4	64	**2KJ4604 - ■ FP32 - ■ ■ G1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**C.69-LEN100LN4E**							
	123	210	11.7	4 300	1.7	64	**2KJ4604 - ■ FP32 - ■ ■ F1**	
	130	200	11.01	4 300	1.8	64	**2KJ4604 - ■ FP32 - ■ ■ E1**	
	145	181	9.87	4 200	2.0	64	**2KJ4604 - ■ FP32 - ■ ■ D1**	
	171	154	8.4	4 200	2.3	64	**2KJ4604 - ■ FP32 - ■ ■ C1**	
	199	132	7.2	4 100	2.7	64	**2KJ4604 - ■ FP32 - ■ ■ B1**	
	231	114	6.2	4 000	3.1	64	**2KJ4604 - ■ FP32 - ■ ■ A1**	
	C.69-LEN100LZ4P							
	48	535	30	4 300	1.0	54	**2KJ4604 - ■ FM33 - ■ ■ N1**	
	55	470	26.28	4 500	1.1	54	**2KJ4604 - ■ FM33 - ■ ■ M1**	
	60	430	24.26	4 600	1.2	54	**2KJ4604 - ■ FM33 - ■ ■ L1**	
	68	380	21.48	4 600	1.2	54	**2KJ4604 - ■ FM33 - ■ ■ K1**	
	81	320	17.88	4 600	1.4	54	**2KJ4604 - ■ FM33 - ■ ■ J1**	
	91	285	15.88	4 300	1.3	54	**2KJ4604 - ■ FM33 - ■ ■ H1**	
	103	255	14.06	4 300	1.4	54	**2KJ4604 - ■ FM33 - ■ ■ G1**	
	124	210	11.7	4 300	1.7	54	**2KJ4604 - ■ FM33 - ■ ■ F1**	
	132	200	11.01	4 300	1.8	54	**2KJ4604 - ■ FM33 - ■ ■ E1**	
	147	179	9.87	4 200	2.0	54	**2KJ4604 - ■ FM33 - ■ ■ D1**	
	173	152	8.4	4 200	2.4	54	**2KJ4604 - ■ FM33 - ■ ■ C1**	
	201	130	7.2	4 100	2.8	54	**2KJ4604 - ■ FM33 - ■ ■ B1**	
	234	113	6.2	3 900	3.2	54	**2KJ4604 - ■ FM33 - ■ ■ A1**	
	C.89-LEN100LN4E							
	19	1 120	76.44	13 200	0.83	84	**2KJ4605 - ■ FP32 - ■ ■ W1**	
	22	950	65	13 000	0.91	84	**2KJ4605 - ■ FP32 - ■ ■ V1**	
	26	1 000	55.61	10 800	1.4	84	**2KJ4605 - ■ FP32 - ■ ■ U1**	
	29	900	50	10 800	1.6	84	**2KJ4605 - ■ FP32 - ■ ■ T1**	
	32	815	45.22	10 700	1.7	84	**2KJ4605 - ■ FP32 - ■ ■ S1**	
	34	755	41.74	10 700	1.8	84	**2KJ4605 - ■ FP32 - ■ ■ R1**	
	38	690	38.24	10 600	1.9	84	**2KJ4605 - ■ FP32 - ■ ■ Q1**	
	45	580	32.08	10 400	2.1	84	**2KJ4605 - ■ FP32 - ■ ■ P1**	
	48	545	30.2	10 300	2.2	84	**2KJ4605 - ■ FP32 - ■ ■ N1**	
	52	500	27.7	10 200	2.3	84	**2KJ4605 - ■ FP32 - ■ ■ M1**	
	57	460	25.03	9 600	2.3	84	**2KJ4605 - ■ FP32 - ■ ■ L1**	
	68	385	21	9 400	2.7	84	**2KJ4605 - ■ FP32 - ■ ■ K1**	
	73	365	19.76	9 300	3.1	84	**2KJ4605 - ■ FP32 - ■ ■ J1**	
	C.89-LEN100LZ4P							
	19	1 100	76.44	13 200	0.84	74	**2KJ4605 - ■ FM33 - ■ ■ W1**	
	22	940	65	13 000	0.92	74	**2KJ4605 - ■ FM33 - ■ ■ V1**	
	26	995	55.61	10 700	1.5	74	**2KJ4605 - ■ FM33 - ■ ■ U1**	
	29	890	50	10 800	1.6	74	**2KJ4605 - ■ FM33 - ■ ■ T1**	
	32	805	45.22	10 700	1.7	74	**2KJ4605 - ■ FM33 - ■ ■ S1**	
	35	745	41.74	10 700	1.8	74	**2KJ4605 - ■ FM33 - ■ ■ R1**	
	38	680	38.24	10 600	1.9	74	**2KJ4605 - ■ FM33 - ■ ■ Q1**	
	45	570	32.08	10 400	2.1	74	**2KJ4605 - ■ FM33 - ■ ■ P1**	
	48	540	30.2	10 300	2.2	74	**2KJ4605 - ■ FM33 - ■ ■ N1**	
	52	495	27.7	10 200	2.3	74	**2KJ4605 - ■ FM33 - ■ ■ M1**	
	58	455	25.03	9 600	2.4	74	**2KJ4605 - ■ FM33 - ■ ■ L1**	
	69	385	21	9 400	2.8	74	**2KJ4605 - ■ FM33 - ■ ■ K1**	
	73	360	19.76	9 300	3.1	74	**2KJ4605 - ■ FM33 - ■ ■ J1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**C.49-LEN112MH4E**							
	105	325	13.75	1 100	0.85	60	**2KJ4603 - ■ GJ32 - ■ ■ H1**	
	112	305	12.94	1 300	0.88	60	**2KJ4603 - ■ GJ32 - ■ ■ G1**	
	127	270	11.41	1 700	0.94	60	**2KJ4603 - ■ GJ32 - ■ ■ F1**	
	146	230	9.9	2 000	1.0	60	**2KJ4603 - ■ GJ32 - ■ ■ E1**	
	161	215	9	1 000	1.2	60	**2KJ4603 - ■ GJ32 - ■ ■ D1**	
	171	205	8.47	1 100	1.2	60	**2KJ4603 - ■ GJ32 - ■ ■ C1**	
	193	181	7.47	1 500	1.4	60	**2KJ4603 - ■ GJ32 - ■ ■ B1**	
	223	157	6.48	1 800	1.5	60	**2KJ4603 - ■ GJ32 - ■ ■ A1**	
	C.49-LEN112MR4P							
	96	355	15.16	700	0.8	49	**2KJ4603 - ■ GJ33 - ■ ■ J1**	
	105	320	13.75	1 200	0.85	49	**2KJ4603 - ■ GJ33 - ■ ■ H1**	
	112	305	12.94	1 300	0.88	49	**2KJ4603 - ■ GJ33 - ■ ■ G1**	
	127	265	11.41	1 800	0.95	49	**2KJ4603 - ■ GJ33 - ■ ■ F1**	
	146	230	9.9	2 000	1.1	49	**2KJ4603 - ■ GJ33 - ■ ■ E1**	
	161	215	9	1 000	1.2	49	**2KJ4603 - ■ GJ33 - ■ ■ D1**	
	171	200	8.47	1 200	1.2	49	**2KJ4603 - ■ GJ33 - ■ ■ C1**	
	194	180	7.47	1 500	1.3	49	**2KJ4603 - ■ GJ33 - ■ ■ B1**	
	224	156	6.48	1 800	1.5	49	**2KJ4603 - ■ GJ33 - ■ ■ A1**	
	C.69-LEN112MH4E							
	55	625	26.28	3 100	0.82	69	**2KJ4604 - ■ GJ32 - ■ ■ M1**	
	60	580	24.26	3 500	0.86	69	**2KJ4604 - ■ GJ32 - ■ ■ L1**	
	67	510	21.48	3 700	0.92	69	**2KJ4604 - ■ GJ32 - ■ ■ K1**	
	81	425	17.88	3 900	1.0	69	**2KJ4604 - ■ GJ32 - ■ ■ J1**	
	91	385	15.88	3 200	0.93	69	**2KJ4604 - ■ GJ32 - ■ ■ H1**	
	103	340	14.06	3 700	1.0	69	**2KJ4604 - ■ GJ32 - ■ ■ G1**	
	124	280	11.7	3 800	1.3	69	**2KJ4604 - ■ GJ32 - ■ ■ F1**	
	131	265	11.01	3 800	1.3	69	**2KJ4604 - ■ GJ32 - ■ ■ E1**	
	146	235	9.87	3 800	1.5	69	**2KJ4604 - ■ GJ32 - ■ ■ D1**	
	172	200	8.4	3 800	1.8	69	**2KJ4604 - ■ GJ32 - ■ ■ C1**	
	201	175	7.2	3 700	2.1	69	**2KJ4604 - ■ GJ32 - ■ ■ B1**	
	233	151	6.2	3 700	2.4	69	**2KJ4604 - ■ GJ32 - ■ ■ A1**	
	C.69-LEN112MR4P							
	55	625	26.28	3 100	0.82	58	**2KJ4604 - ■ GJ33 - ■ ■ M1**	
	60	575	24.26	3 500	0.86	58	**2KJ4604 - ■ GJ33 - ■ ■ L1**	
	68	510	21.48	3 700	0.93	58	**2KJ4604 - ■ GJ33 - ■ ■ K1**	
	81	425	17.88	3 900	1.0	58	**2KJ4604 - ■ GJ33 - ■ ■ J1**	
	91	380	15.88	3 300	0.94	58	**2KJ4604 - ■ GJ33 - ■ ■ H1**	
	103	340	14.06	3 600	1.0	58	**2KJ4604 - ■ GJ33 - ■ ■ G1**	
	124	280	11.7	3 800	1.3	58	**2KJ4604 - ■ GJ33 - ■ ■ F1**	
	132	265	11.01	3 800	1.4	58	**2KJ4604 - ■ GJ33 - ■ ■ E1**	
	147	235	9.87	3 800	1.5	58	**2KJ4604 - ■ GJ33 - ■ ■ D1**	
	173	200	8.4	3 800	1.8	58	**2KJ4604 - ■ GJ33 - ■ ■ C1**	
	201	174	7.2	3 700	2.1	58	**2KJ4604 - ■ GJ33 - ■ ■ B1**	
	234	150	6.2	3 700	2.4	58	**2KJ4604 - ■ GJ33 - ■ ■ A1**	
	C.89-LEN112MH4E							
	26	1 330	55.61	8 900	1.1	88	**2KJ4605 - ■ GJ32 - ■ ■ U1**	
	29	1 190	50	9 100	1.2	88	**2KJ4605 - ■ GJ32 - ■ ■ T1**	
	32	1 080	45.22	9 200	1.3	88	**2KJ4605 - ■ GJ32 - ■ ■ S1**	
	35	1 000	41.74	9 200	1.3	88	**2KJ4605 - ■ GJ32 - ■ ■ R1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**C.89-LEN112MH4E**							
	38	915	38.24	9 300	1.4	88	**2KJ4605 - ■ GJ32 - ■ ■ Q1**	
	45	765	32.08	9 400	1.6	88	**2KJ4605 - ■ GJ32 - ■ ■ P1**	
	48	720	30.2	9 300	1.7	88	**2KJ4605 - ■ GJ32 - ■ ■ N1**	
	52	660	27.7	9 300	1.7	88	**2KJ4605 - ■ GJ32 - ■ ■ M1**	
	58	610	25.03	8 700	1.8	88	**2KJ4605 - ■ GJ32 - ■ ■ L1**	
	69	515	21	8 600	2.1	88	**2KJ4605 - ■ GJ32 - ■ ■ K1**	
	73	485	19.76	8 500	2.3	88	**2KJ4605 - ■ GJ32 - ■ ■ J1**	
	80	445	18.13	8 500	2.5	88	**2KJ4605 - ■ GJ32 - ■ ■ H1**	
	91	385	15.84	8 400	2.9	88	**2KJ4605 - ■ GJ32 - ■ ■ G1**	
	102	345	14.18	8 200	3.1	88	**2KJ4605 - ■ GJ32 - ■ ■ F1**	
	117	300	12.4	8 100	3.4	88	**2KJ4605 - ■ GJ32 - ■ ■ E1**	
	136	260	10.64	7 800	3.7	88	**2KJ4605 - ■ GJ32 - ■ ■ D1**	
	154	230	9.41	7 600	4.0	88	**2KJ4605 - ■ GJ32 - ■ ■ C1**	
	181	196	8	7 400	4.3	88	**2KJ4605 - ■ GJ32 - ■ ■ B1**	
	211	168	6.86	7 100	4.3	88	**2KJ4605 - ■ GJ32 - ■ ■ A1**	
	C.89-LEN112MR4P							
	26	1 320	55.61	8 900	1.1	77	**2KJ4605 - ■ GJ33 - ■ ■ U1**	
	29	1 190	50	9 100	1.2	77	**2KJ4605 - ■ GJ33 - ■ ■ T1**	
	32	1 070	45.22	9 200	1.3	77	**2KJ4605 - ■ GJ33 - ■ ■ S1**	
	35	995	41.74	9 300	1.3	77	**2KJ4605 - ■ GJ33 - ■ ■ R1**	
	38	910	38.24	9 300	1.4	77	**2KJ4605 - ■ GJ33 - ■ ■ Q1**	
	45	765	32.08	9 300	1.6	77	**2KJ4605 - ■ GJ33 - ■ ■ P1**	
	48	720	30.2	9 300	1.7	77	**2KJ4605 - ■ GJ33 - ■ ■ N1**	
	52	660	27.7	9 300	1.7	77	**2KJ4605 - ■ GJ33 - ■ ■ M1**	
	58	610	25.03	8 600	1.8	77	**2KJ4605 - ■ GJ33 - ■ ■ L1**	
	69	510	21	8 600	2.1	77	**2KJ4605 - ■ GJ33 - ■ ■ K1**	
	73	480	19.76	8 600	2.3	77	**2KJ4605 - ■ GJ33 - ■ ■ J1**	
	80	440	18.13	8 500	2.5	77	**2KJ4605 - ■ GJ33 - ■ ■ H1**	
	92	385	15.84	8 300	2.9	77	**2KJ4605 - ■ GJ33 - ■ ■ G1**	
	102	345	14.18	8 200	3.1	77	**2KJ4605 - ■ GJ33 - ■ ■ F1**	
	117	300	12.4	8 000	3.3	77	**2KJ4605 - ■ GJ33 - ■ ■ E1**	
	136	260	10.64	7 800	3.7	77	**2KJ4605 - ■ GJ33 - ■ ■ D1**	
	154	230	9.41	7 600	4.0	77	**2KJ4605 - ■ GJ33 - ■ ■ C1**	
	181	196	8	7 300	4.3	77	**2KJ4605 - ■ GJ33 - ■ ■ B1**	
	211	168	6.86	7 100	4.3	77	**2KJ4605 - ■ GJ33 - ■ ■ A1**	
5.5	**C.69-LEN132SJ4E**							
	125	385	11.7	2 200	0.93	85	**2KJ4604 - ■ HG32 - ■ ■ F1**	
	133	360	11.01	2 500	0.99	85	**2KJ4604 - ■ HG32 - ■ ■ E1**	
	148	325	9.87	2 800	1.1	85	**2KJ4604 - ■ HG32 - ■ ■ D1**	
	174	275	8.4	3 200	1.3	85	**2KJ4604 - ■ HG32 - ■ ■ C1**	
	203	235	7.2	3 200	1.5	85	**2KJ4604 - ■ HG32 - ■ ■ B1**	
	235	205	6.2	3 200	1.7	85	**2KJ4604 - ■ HG32 - ■ ■ A1**	
	C.69-LEN132SR4P							
	124	385	11.7	2 200	0.93	88	**2KJ4604 - ■ HG33 - ■ ■ F1**	
	132	365	11.01	2 400	0.99	88	**2KJ4604 - ■ HG33 - ■ ■ E1**	
	147	325	9.87	2 800	1.1	88	**2KJ4604 - ■ HG33 - ■ ■ D1**	
	173	275	8.4	3 200	1.3	88	**2KJ4604 - ■ HG33 - ■ ■ C1**	
	202	235	7.2	3 200	1.5	88	**2KJ4604 - ■ HG33 - ■ ■ B1**	
	235	205	6.2	3 200	1.7	88	**2KJ4604 - ■ HG33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**C.89-LEN132SJ4E**							
	38	1 240	38.24	7 400	1.0	105	**2KJ4605 - ■ HG32 - ■ ■ Q1**	
	46	1 040	32.08	7 800	1.2	105	**2KJ4605 - ■ HG32 - ■ ■ P1**	
	48	985	30.2	7 800	1.2	105	**2KJ4605 - ■ HG32 - ■ ■ N1**	
	53	900	27.7	7 900	1.3	105	**2KJ4605 - ■ HG32 - ■ ■ M1**	
	58	835	25.03	7 200	1.3	105	**2KJ4605 - ■ HG32 - ■ ■ L1**	
	70	700	21	7 400	1.5	105	**2KJ4605 - ■ HG32 - ■ ■ K1**	
	74	660	19.76	7 400	1.7	105	**2KJ4605 - ■ HG32 - ■ ■ J1**	
	81	605	18.13	7 400	1.8	105	**2KJ4605 - ■ HG32 - ■ ■ H1**	
	92	525	15.84	7 400	2.1	105	**2KJ4605 - ■ HG32 - ■ ■ G1**	
	103	470	14.18	7 400	2.2	105	**2KJ4605 - ■ HG32 - ■ ■ F1**	
	118	410	12.4	7 300	2.4	105	**2KJ4605 - ■ HG32 - ■ ■ E1**	
	137	355	10.64	7 200	2.7	105	**2KJ4605 - ■ HG32 - ■ ■ D1**	
	155	310	9.41	7 100	2.9	105	**2KJ4605 - ■ HG32 - ■ ■ C1**	
	182	265	8	6 900	3.1	105	**2KJ4605 - ■ HG32 - ■ ■ B1**	
	213	225	6.86	6 700	3.1	105	**2KJ4605 - ■ HG32 - ■ ■ A1**	
	C.89-LEN132SR4P							
	38	1 250	38.24	7 400	1.0	108	**2KJ4605 - ■ HG33 - ■ ■ Q1**	
	45	1 040	32.08	7 800	1.2	108	**2KJ4605 - ■ HG33 - ■ ■ P1**	
	48	985	30.2	7 800	1.2	108	**2KJ4605 - ■ HG33 - ■ ■ N1**	
	53	905	27.7	7 900	1.3	108	**2KJ4605 - ■ HG33 - ■ ■ M1**	
	58	835	25.03	7 200	1.3	108	**2KJ4605 - ■ HG33 - ■ ■ L1**	
	69	700	21	7 400	1.5	108	**2KJ4605 - ■ HG33 - ■ ■ K1**	
	74	660	19.76	7 400	1.7	108	**2KJ4605 - ■ HG33 - ■ ■ J1**	
	80	605	18.13	7 400	1.8	108	**2KJ4605 - ■ HG33 - ■ ■ H1**	
	92	530	15.84	7 400	2.1	108	**2KJ4605 - ■ HG33 - ■ ■ G1**	
	103	475	14.18	7 400	2.2	108	**2KJ4605 - ■ HG33 - ■ ■ F1**	
	117	415	12.4	7 300	2.4	108	**2KJ4605 - ■ HG33 - ■ ■ E1**	
	137	355	10.64	7 200	2.7	108	**2KJ4605 - ■ HG33 - ■ ■ D1**	
	155	315	9.41	7 100	2.9	108	**2KJ4605 - ■ HG33 - ■ ■ C1**	
	182	265	8	6 900	3.1	108	**2KJ4605 - ■ HG33 - ■ ■ B1**	
	212	230	6.86	6 700	3.1	108	**2KJ4605 - ■ HG33 - ■ ■ A1**	
7.5	**C.69-LEN132ML4E**							
	148	440	9.87	700	0.81	98	**2KJ4604 - ■ HK32 - ■ ■ D1**	
	174	375	8.4	1 400	0.95	98	**2KJ4604 - ■ HK32 - ■ ■ C1**	
	203	320	7.2	2 000	1.1	98	**2KJ4604 - ■ HK32 - ■ ■ B1**	
	235	275	6.2	2 400	1.3	98	**2KJ4604 - ■ HK32 - ■ ■ A1**	
	C.69-LEN132MT4P							
	147	445	9.87	600	0.81	88	**2KJ4604 - ■ HJ33 - ■ ■ D1**	
	173	375	8.4	1 400	0.95	88	**2KJ4604 - ■ HJ33 - ■ ■ C1**	
	202	325	7.2	1 900	1.1	88	**2KJ4604 - ■ HJ33 - ■ ■ B1**	
	235	280	6.2	2 300	1.3	88	**2KJ4604 - ■ HJ33 - ■ ■ A1**	
	C.89-LEN132ML4E							
	46	1 420	32.08	5 700	0.86	118	**2KJ4605 - ■ HK32 - ■ ■ P1**	
	48	1 340	30.2	5 800	0.89	118	**2KJ4605 - ■ HK32 - ■ ■ N1**	
	53	1 230	27.7	6 100	0.93	118	**2KJ4605 - ■ HK32 - ■ ■ M1**	
	58	1 140	25.03	2 700	0.96	118	**2KJ4605 - ■ HK32 - ■ ■ L1**	
	70	955	21	4 400	1.1	118	**2KJ4605 - ■ HK32 - ■ ■ K1**	
	74	900	19.76	4 900	1.2	118	**2KJ4605 - ■ HK32 - ■ ■ J1**	
	81	825	18.13	5 500	1.3	118	**2KJ4605 - ■ HK32 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
7.5	**C.89-LEN132ML4E**							
	92	720	15.84	6 200	1.5	118	**2KJ4605 - ■ HK32 - ■ ■ G1**	
	103	645	14.18	6 300	1.6	118	**2KJ4605 - ■ HK32 - ■ ■ F1**	
	118	565	12.4	6 400	1.8	118	**2KJ4605 - ■ HK32 - ■ ■ E1**	
	137	485	10.64	6 400	2.0	118	**2KJ4605 - ■ HK32 - ■ ■ D1**	
	155	425	9.41	6 400	2.1	118	**2KJ4605 - ■ HK32 - ■ ■ C1**	
	182	360	8	6 300	2.3	118	**2KJ4605 - ■ HK32 - ■ ■ B1**	
	213	310	6.86	6 200	2.3	118	**2KJ4605 - ■ HK32 - ■ ■ A1**	
	C.89-LEN132MT4P							
	45	1 430	32.08	5 600	0.85	108	**2KJ4605 - ■ HJ33 - ■ ■ P1**	
	48	1 340	30.2	5 900	0.89	108	**2KJ4605 - ■ HJ33 - ■ ■ N1**	
	53	1 230	27.7	6 100	0.92	108	**2KJ4605 - ■ HJ33 - ■ ■ M1**	
	58	1 140	25.03	2 700	0.95	108	**2KJ4605 - ■ HJ33 - ■ ■ L1**	
	69	960	21	4 300	1.1	108	**2KJ4605 - ■ HJ33 - ■ ■ K1**	
	74	900	19.76	4 900	1.2	108	**2KJ4605 - ■ HJ33 - ■ ■ J1**	
	80	825	18.13	5 500	1.3	108	**2KJ4605 - ■ HJ33 - ■ ■ H1**	
	92	720	15.84	6 200	1.5	108	**2KJ4605 - ■ HJ33 - ■ ■ G1**	
	103	645	14.18	6 300	1.6	108	**2KJ4605 - ■ HJ33 - ■ ■ F1**	
	117	565	12.4	6 400	1.8	108	**2KJ4605 - ■ HJ33 - ■ ■ E1**	
	137	485	10.64	6 400	2.0	108	**2KJ4605 - ■ HJ33 - ■ ■ D1**	
	155	430	9.41	6 400	2.1	108	**2KJ4605 - ■ HJ33 - ■ ■ C1**	
	182	365	8	6 300	2.3	108	**2KJ4605 - ■ HJ33 - ■ ■ B1**	
	212	310	6.86	6 200	2.3	108	**2KJ4605 - ■ HJ33 - ■ ■ A1**	
9.2	**C.69-LEN132MS4E**							
	202	395	7.2	600	0.9	107	**2KJ4604 - ■ HV32 - ■ ■ B1**	
	235	340	6.2	1 200	1.0	107	**2KJ4604 - ■ HV32 - ■ ■ A1**	
	C.89-LEN132MS4E							
	69	1 170	21	1 300	0.91	127	**2KJ4605 - ■ HV32 - ■ ■ K1**	
	74	1 100	19.76	1 900	1.0	127	**2KJ4605 - ■ HV32 - ■ ■ J1**	
	80	1 010	18.13	2 800	1.1	127	**2KJ4605 - ■ HV32 - ■ ■ H1**	
	92	885	15.84	3 900	1.2	127	**2KJ4605 - ■ HV32 - ■ ■ G1**	
	103	790	14.18	4 700	1.3	127	**2KJ4605 - ■ HV32 - ■ ■ F1**	
	117	695	12.4	5 300	1.5	127	**2KJ4605 - ■ HV32 - ■ ■ E1**	
	137	595	10.64	5 700	1.6	127	**2KJ4605 - ■ HV32 - ■ ■ D1**	
	155	525	9.41	5 800	1.7	127	**2KJ4605 - ■ HV32 - ■ ■ C1**	
	182	445	8	5 800	1.9	127	**2KJ4605 - ■ HV32 - ■ ■ B1**	
	212	380	6.86	5 800	1.9	127	**2KJ4605 - ■ HV32 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5, 6, 7 or 9**	➞ page 8/43
Frequency and voltage	**1, 3 or 9**	➞ page 9/2
Gearbox mounting type	**A, D, F or H**	➞ page 8/36

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.29													
265.20	5.5	108	4 140	0.05	1326/5	✓	✓	✓					2KJ4601 - ■■■■■ - ■■ M2
230.10	6.3	108	4 140	0.05	2301/10	✓	✓	✓					2KJ4601 - ■■■■■ - ■■ L2
209.18	6.9	109	4 130	0.07	2301/11	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ K2
179.40	8.1	110	4 130	0.08	897/5	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ J2
163.09	8.9	110	4 130	0.10	1794/11	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ H2
143.00	10	110	4 130	0.11	143/1	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ G2
127.64	11	110	4 130	0.14	1404/11	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ F2
113.75	13	110	4 130	0.16	455/4	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ E2
105.00	14	110	4 130	0.20	105/1	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ D2
91.93	16	110	4 130	0.22	1287/14	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ C2
80.60	18	110	4 130	0.22	403/5	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ B2
73.12	20	110	4 130	0.28	585/8	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ A2
68.82	21	110	4 130	0.33	1170/17	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ X1
60.67	24	110	4 130	0.36	182/3	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ W1
52.65	28	110	4 130	0.48	1053/20	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ V1
49.87	29	102	4 170	0.05	748/15	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ U1
43.27	34	103	4 160	0.06	649/15	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ T1
39.33	37	103	4 160	0.07	118/3	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ S1
33.73	43	104	4 160	0.09	506/15	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ R1
32.64	44	90	4 230	0.05	816/25	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ Q1
28.32	51	90	4 230	0.06	708/25	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ P1
25.75	56	91	4 220	0.07	1416/55	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ N1
22.08	66	91	4 220	0.09	552/25	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ M1
20.07	72	92	4 200	0.11	1104/55	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ L1
17.60	82	92	3 970	0.13	88/5	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ K1
15.71	92	92	3 770	0.15	864/55	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ J1
14.00	104	93	3 560	0.18	14/1	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ H1
12.92	112	93	3 430	0.22	168/13	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ G1
11.31	128	94	3 210	0.25	396/35	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ F1
9.92	146	94	3 020	0.26	248/25	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ E1
9.00	161	91	2 960	0.33	9/1	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ D1
8.47	171	90	2 950	0.38	144/17	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ C1
7.47	194	86	2 920	0.43	112/15	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ B1
6.48	224	82	2 880	0.57	162/25	✓	✓	✓	✓				2KJ4601 - ■■■■■ - ■■ A1

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.39													
299.00	4.8	192	6 180	0.04	299/1	✓	✓						2KJ4602 - ■■■■■ - ■■ N2
265.20	5.5	192	6 180	0.05	1326/5	✓	✓	✓					2KJ4602 - ■■■■■ - ■■ M2
230.10	6.3	193	6 180	0.06	2301/10	✓	✓	✓					2KJ4602 - ■■■■■ - ■■ L2
209.18	6.9	193	6 180	0.07	2301/11	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ K2
179.40	8.1	193	6 180	0.09	897/5	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ J2
163.09	8.9	193	6 180	0.11	1794/11	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ H2
143.00	10	194	6 170	0.13	143/1	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ G2
127.64	11	194	6 170	0.16	1404/11	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ F2
113.75	13	194	6 170	0.19	455/4	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ E2
105.00	14	194	6 170	0.23	105/1	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ D2
91.93	16	194	6 170	0.27	1287/14	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ C2
80.60	18	194	6 170	0.26	403/5	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ B2
73.12	20	194	6 170	0.36	585/8	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ A2
68.82	21	194	6 170	0.43	1170/17	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ X1
60.67	24	183	6 210	0.47	182/3	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ W1
52.65	28	170	6 260	0.64	1053/20	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ V1
49.87	29	198	6 160	0.06	748/15	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ U1
43.27	34	199	6 150	0.07	649/15	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ T1
39.33	37	200	6 140	0.08	118/3	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ S1
33.73	43	200	5 730	0.11	506/15	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ R1
32.64	44	215	5 260	0.07	816/25	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ Q1
28.32	51	235	4 680	0.08	708/25	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ P1
25.75	56	235	4 450	0.10	1416/55	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ N1
22.08	66	235	4 100	0.13	552/25	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ M1
20.07	72	235	3 890	0.16	1104/55	✓	✓	✓	✓				2KJ4602 - ■■■■■ - ■■ L1
17.60	82	225	3 720	0.19	88/5	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ K1
15.71	92	215	3 600	0.23	864/55	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ J1
14.00	104	205	3 490	0.28	14/1	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ H1
12.92	112	199	3 400	0.34	168/13	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ G1
11.31	128	189	3 270	0.41	396/35	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ F1
9.92	146	181	3 130	0.44	248/25	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ E1
9.00	161	174	3 040	0.59	9/1	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ D1
8.47	171	170	3 030	0.68	144/17	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ C1
7.47	194	163	3 050	0.81	112/15	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ B1
6.48	224	154	3 050	1.08	162/25	✓	✓	✓	✓	✓			2KJ4602 - ■■■■■ - ■■ A1

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.49													
299.00	4.8	350	8 410	0.04	299/1	✓	✓						2KJ4603 - ■■■■■ - ■■ N2
265.20	5.5	350	8 410	0.05	1326/5	✓	✓	✓					2KJ4603 - ■■■■■ - ■■ M2
230.10	6.3	355	8 400	0.07	2301/10	✓	✓	✓					2KJ4603 - ■■■■■ - ■■ L2
209.18	6.9	355	8 400	0.08	2301/11	✓	✓	✓	✓				2KJ4603 - ■■■■■ - ■■ K2
179.40	8.1	355	8 260	0.10	897/5	✓	✓	✓	✓				2KJ4603 - ■■■■■ - ■■ J2
163.09	8.9	355	7 920	0.13	1794/11	✓	✓	✓	✓				2KJ4603 - ■■■■■ - ■■ H2
143.00	10	355	7 480	0.15	143/1	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ G2
127.64	11	355	7 110	0.18	1404/11	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ F2
113.75	13	355	6 760	0.22	455/4	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ E2
105.00	14	355	6 510	0.26	105/1	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ D2
91.93	16	350	6 160	0.32	1287/14	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ C2
80.60	18	330	5 930	0.32	403/5	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ B2
73.12	20	315	5 770	0.44	585/8	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ A2
68.82	21	305	5 680	0.51	1170/17	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ X1
60.67	24	285	5 500	0.58	182/3	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ W1
52.65	28	265	5 290	0.78	1053/20	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ V1
49.87	29	320	4 250	0.08	748/15	✓	✓	✓	✓				2KJ4603 - ■■■■■ - ■■ U1
43.27	34	350	3 680	0.10	649/15	✓	✓	✓	✓				2KJ4603 - ■■■■■ - ■■ T1
39.33	37	400	3 050	0.12	118/3	✓	✓	✓	✓				2KJ4603 - ■■■■■ - ■■ S1
33.73	43	375	2 940	0.15	506/15	✓	✓	✓	✓				2KJ4603 - ■■■■■ - ■■ R1
30.67	47	385	2 660	0.19	92/3	✓	✓	✓	✓				2KJ4603 - ■■■■■ - ■■ Q1
26.89	54	360	2 620	0.23	242/9	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ P1
24.00	60	345	2 540	0.28	24/1	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ N1
21.39	68	330	2 460	0.34	385/18	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ M1
19.74	73	315	2 450	0.41	770/39	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ L1
17.29	84	300	2 350	0.51	121/7	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ K1
15.16	96	285	2 270	0.56	682/45	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ J1
13.75	105	275	2 200	0.73	55/4	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ H1
12.94	112	270	2 160	0.85	220/17	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ G1
11.41	127	255	2 100	1.02	308/27	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ F1
9.90	146	245	1 990	1.36	99/10	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ E1
9.00	161	255	1 140	1.03	9/1	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ D1
8.47	171	255	1 290	1.18	144/17	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ C1
7.47	194	240	1 580	1.45	112/15	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ B1
6.48	224	230	1 850	1.93	162/25	✓	✓	✓	✓	✓	✓		2KJ4603 - ■■■■■ - ■■ A1

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.69													
360.00	4.0	675	10 600	0.07	1079/3	✓	✓						2KJ4604 - ■■■■■ - ■■ M2
319.80	4.5	675	10 600	0.09	1599/5	✓	✓	✓					2KJ4604 - ■■■■■ - ■■ L2
280.80	5.2	675	10 600	0.11	1404/5	✓	✓	✓					2KJ4604 - ■■■■■ - ■■ K2
255.27	5.7	675	10 600	0.13	2808/11	✓	✓	✓	✓				2KJ4604 - ■■■■■ - ■■ J2
218.40	6.6	675	10 600	0.16	1092/5	✓	✓	✓	✓				2KJ4604 - ■■■■■ - ■■ H2
198.55	7.3	675	10 600	0.19	2184/11	✓	✓	✓	✓				2KJ4604 - ■■■■■ - ■■ G2
175.50	8.3	665	10 600	0.23	351/2	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ F2
159.55	9.1	640	10 700	0.30	1755/11	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ E2
139.75	10	590	10 500	0.35	559/4	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ D2
129.00	11	565	10 300	0.42	129/1	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ C2
114.21	13	535	9 990	0.52	1599/14	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ B2
102.50	14	675	8 310	0.10	205/2	✓	✓	✓	✓				2KJ4604 - ■■■■■ - ■■ A2
90.00	16	675	7 790	0.12	90/1	✓	✓	✓	✓				2KJ4604 - ■■■■■ - ■■ X1
81.82	18	675	7 410	0.15	900/11	✓	✓	✓	✓				2KJ4604 - ■■■■■ - ■■ W1
70.00	21	660	6 920	0.18	70/1	✓	✓	✓	✓				2KJ4604 - ■■■■■ - ■■ V1
63.64	23	640	6 700	0.22	700/11	✓	✓	✓	✓				2KJ4604 - ■■■■■ - ■■ U1
56.25	26	610	6 460	0.27	225/4	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ T1
51.14	28	580	6 320	0.34	1125/22	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ S1
44.79	32	545	6 110	0.41	1075/24	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ R1
41.35	35	525	5 980	0.49	1075/26	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ Q1
36.61	40	500	5 770	0.61	1025/28	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ P1
30.00	48	545	4 560	0.46	30/1	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ N1
26.28	55	515	4 410	0.56	473/18	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ M1
24.26	60	500	4 300	0.67	946/39	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ L1
21.48	68	475	4 160	0.83	451/21	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ K1
17.88	81	440	3 960	1.17	143/8	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ J1
15.88	91	360	3 950	0.88	1032/65	✓	✓	✓	✓	✓	✓		2KJ4604 - ■■■■■ - ■■ H1
14.06	103	355	3 730	1.11	492/35	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ G1
11.70	124	360	3 310	1.56	117/10	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ F1
11.01	132	360	3 180	1.79	936/85	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ E1
9.87	147	360	2 890	2.10	148/15	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ D1
8.40	173	360	3 110	2.90	42/5	✓	✓	✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ C1
7.20	201	360	3 170	3.90	36/5			✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ B1
6.20	234	355	3 190	5.20	31/5			✓	✓	✓	✓	✓	2KJ4604 - ■■■■■ - ■■ A1

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.89													
363.00	4	1 450	16 200	0.47	3627/10		✓	✓	✓				2KJ4605 - ■■■■■ - ■■ N2
329.73	4.4	1 450	16 200	0.57	3627/11		✓	✓	✓				2KJ4605 - ■■■■■ - ■■ M2
295.75	4.9	1 450	16 200	0.78	1183/4		✓	✓	✓	✓	✓		2KJ4605 - ■■■■■ - ■■ L2
265.91	5.5	1 450	16 200	0.89	2925/11		✓	✓	✓	✓	✓		2KJ4605 - ■■■■■ - ■■ K2
240.50	6	1 450	16 200	1.00	481/2		✓	✓	✓	✓	✓		2KJ4605 - ■■■■■ - ■■ J2
222.00	6.5	1 450	16 200	1.18	222/1		✓	✓	✓	✓	✓		2KJ4605 - ■■■■■ - ■■ H2
203.36	7.1	1 450	16 200	1.52	2847/14		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ G2
170.62	8.5	1 360	16 300	1.67	1365/8		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ F2
160.59	9	1 330	16 300	1.91	2730/17		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ E2
147.33	9.8	1 280	16 300	2.10	442/3		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ D2
128.70	11	1 190	16 300	3.00	1287/10		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ C2
115.23	13	1 120	15 900	3.70	2535/22			✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ B2
100.75	14	1 050	15 300	4.40	403/4			✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ A2
86.48	17	985	14 600	4.90	1989/23			✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ X1
76.44	19	930	14 100	6.30	1911/25			✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ W1
65.00	22	865	13 400	8.10	65/1					✓	✓	✓	2KJ4605 - ■■■■■ - ■■ V1
55.61	26	1 450	8 630	0.89	1001/18		✓	✓	✓	✓	✓		2KJ4605 - ■■■■■ - ■■ U1
50.00	29	1 430	8 160	1.02	50/1		✓	✓	✓	✓	✓		2KJ4605 - ■■■■■ - ■■ T1
45.22	32	1 380	7 910	1.15	407/9		✓	✓	✓	✓	✓		2KJ4605 - ■■■■■ - ■■ S1
41.74	35	1 340	7 720	1.35	1628/39		✓	✓	✓	✓	✓		2KJ4605 - ■■■■■ - ■■ R1
38.24	38	1 300	7 510	1.73	803/21		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ Q1
32.08	45	1 220	7 110	1.97	385/12		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ P1
30.20	48	1 200	6 950	2.20	1540/51		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ N1
27.70	52	1 140	6 890	2.50	748/27		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ M1
25.03	58	1 090	5 490	2.10	876/35		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ L1
21.00	69	1 070	4 480	2.50	21/1		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ K1
19.76	73	1 120	3 400	2.80	336/17		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ J1
18.13	80	1 110	3 180	3.20	272/15		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ H1
15.84	92	1 110	4 150	4.40	396/25		✓	✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ G1
14.18	102	1 070	4 810	5.40	156/11			✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ F1
12.40	117	1 010	5 490	6.60	62/5			✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ E1
10.64	136	960	5 620	8.00	1224/115			✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ D1
9.41	154	915	5 680	10.00	1176/125			✓	✓	✓	✓	✓	2KJ4605 - ■■■■■ - ■■ C1
8.00	181	840	5 710	14.00	8/1					✓	✓	✓	2KJ4605 - ■■■■■ - ■■ B1
6.86	211	720	5 690	18.00	48/7					✓	✓	✓	2KJ4605 - ■■■■■ - ■■ A1

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.29-D19													
9 219	0.16	80	4 280	0.02	37750064/4095	✓	✓						**2KJ4621 - ■■■■■ - ■■ Q1**
8 163	0.18	80	4 280	0.03	18570596/2275	✓	✓						**2KJ4621 - ■■■■■ - ■■ P1**
7 092	0.20	81	4 270	0.04	16135108/2275	✓	✓						**2KJ4621 - ■■■■■ - ■■ N1**
6 448	0.22	81	4 270	0.04	2933656/455	✓	✓						**2KJ4621 - ■■■■■ - ■■ M1**
5 487	0.26	82	4 270	0.06	12481876/2275	✓	✓						**2KJ4621 - ■■■■■ - ■■ L1**
4 988	0.29	82	4 270	0.07	2269432/455	✓	✓						**2KJ4621 - ■■■■■ - ■■ K1**
4 349	0.33	83	4 260	0.08	152218/35	✓	✓						**2KJ4621 - ■■■■■ - ■■ J1**
3 893	0.37	84	4 260	0.11	1771264/455	✓	✓						**2KJ4621 - ■■■■■ - ■■ H1**
3 457	0.42	84	4 260	0.13	4718758/1365	✓	✓						**2KJ4621 - ■■■■■ - ■■ G1**
3 191	0.45	84	4 260	0.16	18875032/5915	✓	✓						**2KJ4621 - ■■■■■ - ■■ F1**
2 772	0.52	85	4 250	0.17	8828644/3185	✓	✓						**2KJ4621 - ■■■■■ - ■■ E1**
2 409	0.60	86	4 250	0.18	5479848/2275	✓	✓						**2KJ4621 - ■■■■■ - ■■ D1**
2 175	0.67	86	4 250	0.22	76109/35	✓	✓						**2KJ4621 - ■■■■■ - ■■ C1**
2 047	0.71	86	4 250	0.26	71632/35	✓	✓						**2KJ4621 - ■■■■■ - ■■ B1**
1 784	0.81	87	4 240	0.29	2435488/1365	✓	✓						**2KJ4621 - ■■■■■ - ■■ A1**
C.29-Z19													
1 744	0.83	87	4 240	0.02	1020272/585	✓	✓						**2KJ4620 - ■■■■■ - ■■ S1**
1 544	0.94	87	4 240	0.03	501908/325	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ R1**
1 342	1.1	88	4 240	0.04	436084/325	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ Q1**
1 220	1.2	88	4 240	0.05	79288/65	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ P1**
1 038	1.4	89	4 230	0.07	337348/325	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ N1**
944	1.5	90	4 230	0.08	61336/65	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ M1**
823	1.8	90	4 230	0.09	4114/5	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ L1**
736	2.0	91	4 220	0.12	47872/65	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ K1**
654	2.2	91	4 220	0.15	127534/195	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ J1**
604	2.4	91	4 220	0.18	510136/845	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ H1**
524	2.8	92	4 220	0.20	238612/455	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ G1**
456	3.2	93	4 210	0.21	148104/325	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ F1**
411	3.5	93	4 210	0.27	2057/5	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ E1**
387	3.7	93	4 210	0.32	1936/5	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ D1**
337.56	4.3	94	4 210	0.36	65824/195	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ C1**
311.44	4.7	94	4 210	0.19	255068/819	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ B1**
270.54	5.4	95	4 200	0.22	119306/441	✓	✓	✓					**2KJ4620 - ■■■■■ - ■■ A1**

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.39-D19													
11 553	0.13	160	6 300	0.06	150183/13	✓	✓						**2KJ4623 - ■■■■■ - ■■ S1**
10 502	0.14	160	6 300	0.07	136530/13	✓	✓						**2KJ4623 - ■■■■■ - ■■ R1**
9 219	0.16	156	6 320	0.02	37750064/4095	✓	✓						**2KJ4623 - ■■■■■ - ■■ Q1**
8 163	0.18	157	6 310	0.03	18570596/2275	✓	✓						**2KJ4623 - ■■■■■ - ■■ P1**
7 092	0.20	157	6 310	0.04	16135108/2275	✓	✓						**2KJ4623 - ■■■■■ - ■■ N1**
6 448	0.22	158	6 310	0.04	2933656/455	✓	✓						**2KJ4623 - ■■■■■ - ■■ M1**
5 487	0.26	159	6 300	0.06	12481876/2275	✓	✓						**2KJ4623 - ■■■■■ - ■■ L1**
4 988	0.29	159	6 300	0.07	2269432/455	✓	✓						**2KJ4623 - ■■■■■ - ■■ K1**
4 349	0.33	160	6 300	0.08	152218/35	✓	✓						**2KJ4623 - ■■■■■ - ■■ J1**
3 893	0.37	161	6 300	0.11	1771264/455	✓	✓						**2KJ4623 - ■■■■■ - ■■ H1**
3 457	0.42	161	6 300	0.13	4718758/1365	✓	✓						**2KJ4623 - ■■■■■ - ■■ G1**
3 191	0.45	162	6 290	0.16	18875032/5915	✓	✓						**2KJ4623 - ■■■■■ - ■■ F1**
2 772	0.52	163	6 290	0.17	8828644/3185	✓	✓						**2KJ4623 - ■■■■■ - ■■ E1**
2 409	0.60	165	6 280	0.18	5479848/2275	✓	✓						**2KJ4623 - ■■■■■ - ■■ D1**
2 175	0.67	166	6 280	0.22	76109/35	✓	✓						**2KJ4623 - ■■■■■ - ■■ C1**
2 047	0.71	167	6 270	0.26	71632/35	✓	✓						**2KJ4623 - ■■■■■ - ■■ B1**
1 784	0.81	169	6 270	0.29	2435488/1365	✓	✓						**2KJ4623 - ■■■■■ - ■■ A1**
C.39-Z19													
1 744	0.83	169	6 270	0.02	1020272/585	✓	✓						**2KJ4622 - ■■■■■ - ■■ S1**
1 544	0.94	171	6 260	0.03	501908/325	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ R1**
1 342	1.1	173	6 250	0.04	436084/325	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ Q1**
1 220	1.2	173	6 250	0.05	79288/65	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ P1**
1 038	1.4	175	6 240	0.07	337348/325	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ N1**
944	1.5	175	6 240	0.08	61336/65	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ M1**
823	1.8	176	6 240	0.09	4114/5	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ L1**
736	2.0	177	6 240	0.12	47872/65	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ K1**
654	2.2	178	6 230	0.15	127534/195	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ J1**
604	2.4	179	6 230	0.18	510136/845	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ H1**
524	2.8	180	6 230	0.20	238612/455	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ G1**
456	3.2	181	6 220	0.21	148104/325	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ F1**
411	3.5	182	6 220	0.27	2057/5	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ E1**
387	3.7	182	6 220	0.32	1936/5	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ D1**
337.56	4.3	183	6 210	0.36	65824/195	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ C1**
311.44	4.7	184	6 210	0.19	255068/819	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ B1**
270.54	5.4	185	6 210	0.22	119306/441	✓	✓	✓					**2KJ4622 - ■■■■■ - ■■ A1**

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.49-D19													
11 463	0.13	270	8 640	0.04	2006103/175	✓	✓						**2KJ4625 - ■■■■■ - ■■ N1**
10 421	0.14	270	8 640	0.04	364746/35	✓	✓						**2KJ4625 - ■■■■■ - ■■ M1**
8 868	0.16	270	8 640	0.06	1551891/175	✓	✓						**2KJ4625 - ■■■■■ - ■■ L1**
8 062	0.18	270	8 640	0.07	282162/35	✓	✓						**2KJ4625 - ■■■■■ - ■■ K1**
7 029	0.21	275	8 630	0.08	492063/70	✓	✓						**2KJ4625 - ■■■■■ - ■■ J1**
6 292	0.23	275	8 630	0.11	220224/35	✓	✓						**2KJ4625 - ■■■■■ - ■■ H1**
5 588	0.26	275	8 630	0.13	391127/70	✓	✓						**2KJ4625 - ■■■■■ - ■■ G1**
5 158	0.28	275	8 630	0.16	2346762/455	✓	✓						**2KJ4625 - ■■■■■ - ■■ F1**
4 480	0.32	280	8 610	0.17	1097679/245	✓	✓						**2KJ4625 - ■■■■■ - ■■ E1**
3 893	0.37	280	8 730	0.18	681318/175	✓	✓						**2KJ4625 - ■■■■■ - ■■ D1**
3 515	0.41	280	8 610	0.22	492063/140	✓	✓						**2KJ4625 - ■■■■■ - ■■ C1**
3 308	0.44	285	8 600	0.26	1968252/595	✓	✓						**2KJ4625 - ■■■■■ - ■■ B1**
2 884	0.50	285	8 600	0.29	100936/35	✓	✓						**2KJ4625 - ■■■■■ - ■■ A1**
C.49-Z19													
2 819	0.51	285	8 600	0.02	42284/15	✓	✓						**2KJ4624 - ■■■■■ - ■■ V1**
2 496	0.58	290	8 590	0.03	62403/25	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ U1**
2 169	0.67	295	8 570	0.04	54219/25	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ T1**
1 972	0.74	295	8 570	0.05	9858/5	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ S1**
1678	0.86	305	8 540	0.07	41943/25	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ R1**
1 525	0.95	305	8 540	0.08	7626/5	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ Q1**
1 330	1.1	315	8 510	0.10	13299/10	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ P1**
1 190	1.2	320	8 500	0.13	5952/5	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ N1**
1 057	1.4	325	8 480	0.15	10571/10	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ M1**
976	1.5	330	8 470	0.18	63426/65	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ L1**
848	1.7	340	8 440	0.21	29667/35	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ K1**
737	2.0	340	8 440	0.21	18414/25	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ J1**
665	2.2	340	8 440	0.27	13299/20	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ H1**
626	2.3	345	8 430	0.32	53196/85	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ G1**
546	2.7	345	8 430	0.37	2728/5	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ F1**
503	2.9	345	8 430	0.20	10571/21	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ E1**
437	3.3	345	8 430	0.23	128557/294	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ D1**
380	3.8	350	8 410	0.24	13299/35	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ C1**
343.03	4.2	350	8 410	0.31	57629/168	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ B1**
322.85	4.5	350	8 410	0.36	115258/357	✓	✓	✓					**2KJ4624 - ■■■■■ - ■■ A1**

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.69-D19													
18 949	0.08	495	11 000	0.02	5172970/273	✓	✓						2KJ4627 - ■■■■■ - ■■ Q1
16 779	0.09	495	11 000	0.03	3053721/182	✓	✓						2KJ4627 - ■■■■■ - ■■ P1
14 578	0.10	495	11 000	0.04	2653233/182	✓	✓						2KJ4627 - ■■■■■ - ■■ N1
13 253	0.11	495	11 000	0.04	1206015/91	✓	✓						2KJ4627 - ■■■■■ - ■■ M1
11 277	0.13	500	11 000	0.06	2052501/182	✓	✓						2KJ4627 - ■■■■■ - ■■ L1
10 252	0.14	500	11 000	0.07	932955/91	✓	✓						2KJ4627 - ■■■■■ - ■■ K1
8 939	0.16	500	11 000	0.08	250305/28	✓	✓						2KJ4627 - ■■■■■ - ■■ J1
8 002	0.18	500	12 200	0.11	728160/91	✓	✓						2KJ4627 - ■■■■■ - ■■ H1
7 106	0.20	500	11 000	0.13	2586485/364	✓	✓						2KJ4627 - ■■■■■ - ■■ G1
6 559	0.22	500	11 000	0.16	7759455/1183	✓	✓						2KJ4627 - ■■■■■ - ■■ F1
5 698	0.25	500	11 000	0.17	7258845/1274	✓	✓						2KJ4627 - ■■■■■ - ■■ E1
4 951	0.29	505	11 000	0.18	450549/91	✓	✓						2KJ4627 - ■■■■■ - ■■ D1
4 470	0.32	505	11 000	0.22	250305/56	✓	✓						2KJ4627 - ■■■■■ - ■■ C1
4 207	0.34	505	11 000	0.26	500610/119	✓	✓						2KJ4627 - ■■■■■ - ■■ B1
3 667	0.40	505	11 000	0.29	333740/91	✓	✓						2KJ4627 - ■■■■■ - ■■ A1
C.69-D19													
3 585	0.40	505	11 000	0.02	139810/39	✓	✓						2KJ4626 - ■■■■■ - ■■ V1
3 174	0.46	510	11 000	0.03	82533/26	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ U1
2 758	0.53	510	11 000	0.04	71709/26	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ T1
2 507	0.58	515	11 000	0.05	32595/13	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ S1
2 134	0.68	515	11 000	0.07	55473/26	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ R1
1 940	0.75	520	11 000	0.08	25215/13	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ Q1
1 691	0.86	520	11 000	0.09	6765/4	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ P1
1 514	0.96	525	11 000	0.12	19680/13	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ N1
1 344	1.1	530	11 000	0.15	69905/52	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ M1
1 241	1.2	530	11 000	0.18	209715/169	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ L1
1 078	1.3	535	10 900	0.20	196185/182	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ K1
937	1.5	540	10 900	0.21	12177/13	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ J1
846	1.7	545	10 900	0.27	6765/8	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ H1
796	1.8	550	10 900	0.32	13530/17	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ G1
694	2.1	555	10 900	0.36	9020/13	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ F1
640	2.3	560	10 900	0.19	349525/546	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ E1
556	2.6	570	10 900	0.22	326975/588	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ D1
483	3.0	580	10 800	0.23	6765/14	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ C1
436	3.3	585	10 800	0.29	146575/336	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ B1
411	3.5	590	10 800	0.35	146575/357	✓	✓	✓					2KJ4626 - ■■■■■ - ■■ A1

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	J_G	R_{ex}	Motor frame size							Article No.
-	rpm	Nm	N	10^{-4} kgm²	-	63	71	80	90	100	112	132	
C.89-D39													
18 243	0.08	850	16 300	0.05	93039401/5100	✓	✓						2KJ4630 - ■■■■■ - ■■ R1
16 585	0.09	855	16 300	0.07	93039401/5610	✓	✓	✓	✓				2KJ4630 - ■■■■■ - ■■ Q1
14 223	0.10	860	16 300	0.08	36269597/2550	✓	✓	✓	✓				2KJ4630 - ■■■■■ - ■■ P1
13 085	0.11	1 100	16 300	0.03	90088999/6885	✓	✓						2KJ4630 - ■■■■■ - ■■ N1
11 606	0.12	1 100	16 300	0.05	7833826/675	✓	✓						2KJ4630 - ■■■■■ - ■■ M1
10 070	0.14	1 100	16 300	0.05	231097867/22950	✓	✓						2KJ4630 - ■■■■■ - ■■ L1
9 154	0.16	1 100	16 300	0.07	21008897/2295	✓	✓	✓	✓				2KJ4630 - ■■■■■ - ■■ K1
7 851	0.18	1 100	16 300	0.08	90088999/11475	✓	✓	✓	✓				2KJ4630 - ■■■■■ - ■■ J1
7 137	0.20	1 100	16 300	0.10	16379818/2295	✓	✓	✓	✓				2KJ4630 - ■■■■■ - ■■ H1
6 258	0.23	1 110	16 300	0.12	43086043/6885	✓	✓	✓	✓	✓	✓		2KJ4630 - ■■■■■ - ■■ G1
5 586	0.26	1 110	16 300	0.15	1424332/255	✓	✓	✓	✓	✓	✓		2KJ4630 - ■■■■■ - ■■ F1
4 978	0.29	1 110	16 300	0.17	27418391/5508	✓	✓	✓	✓	✓	✓		2KJ4630 - ■■■■■ - ■■ E1
4 595	0.32	1 110	16 300	0.21	2109107/459	✓	✓	✓	✓	✓	✓		2KJ4630 - ■■■■■ - ■■ D1
4 023	0.36	1 110	16 300	0.25	6155149/1530	✓	✓	✓	✓	✓	✓		2KJ4630 - ■■■■■ - ■■ C1
3 527	0.41	1 120	16 300	0.23	121424303/34425	✓	✓	✓	✓	✓	✓		2KJ4630 - ■■■■■ - ■■ B1
3 200	0.45	1 120	16 300	0.33	3916913/1224	✓	✓	✓	✓	✓	✓		2KJ4630 - ■■■■■ - ■■ A1
C.89-Z39													
3 111	0.47	1 120	16 300	0.06	7560553/2430	✓	✓						2KJ4628 - ■■■■■ - ■■ T1
2 766	0.52	1 120	16 300	0.07	3734731/1350	✓	✓	✓	✓				2KJ4628 - ■■■■■ - ■■ S1
2 429	0.60	1 130	16 300	0.08	182182/75	✓	✓	✓	✓				2KJ4628 - ■■■■■ - ■■ R1
2 208	0.66	1 130	16 300	0.10	33124/15	✓	✓	✓	✓				2KJ4628 - ■■■■■ - ■■ Q1
1 889	0.77	1 140	16 300	0.12	1275274/675	✓	✓	✓	✓				2KJ4628 - ■■■■■ - ■■ P1
1 718	0.84	1 150	16 300	0.14	231868/135	✓	✓	✓	✓				2KJ4628 - ■■■■■ - ■■ N1
1 518	0.96	1 150	16 300	0.17	91091/60	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ M1
1 380	1.1	1 160	16 300	0.22	8281/6	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ L1
1 209	1.2	1 170	16 300	0.26	3916913/3240	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ K1
1 116	1.3	1 170	16 300	0.31	303301/270	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ J1
988	1.5	1 180	16 300	0.36	533533/540	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ H1
822	1.8	1 200	16 300	0.48	1184183/1440	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ G1
774	1.9	1 210	16 300	0.56	1184183/1530	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ F1
693	2.1	1 220	16 300	0.61	3370367/4860	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ E1
590	2.5	1 230	16 300	0.79	637637/1080	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ D1
506	2.9	1 260	16 300	1.03	91091/180			✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ C1
436	3.3	1 280	16 300	1.31	2823821/6480			✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ B1
360	4.0	1 310	16 300	0.59	793793/2208	✓	✓	✓	✓	✓	✓		2KJ4628 - ■■■■■ - ■■ A1

Selection and ordering data

	n_{mot} = 2 800 rpm				n_{mot} = 1 400 rpm				n_{mot} = 900 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.29													
265.20	10.6	110	0.17	73	5.3	108	0.09	65	3.4	106	0.06	59	**2KJ4601 - ■■■■■ - ■■ M2**
230.10	12.2	110	0.19	74	6.1	108	0.10	67	3.9	106	0.07	61	**2KJ4601 - ■■■■■ - ■■ L2**
209.18	13.4	110	0.21	75	6.7	109	0.11	68	4.3	107	0.08	62	**2KJ4601 - ■■■■■ - ■■ K2**
179.40	15.6	110	0.24	76	7.8	109	0.13	70	5.0	107	0.09	64	**2KJ4601 - ■■■■■ - ■■ J2**
163.09	17.2	110	0.26	76	8.6	110	0.14	71	5.5	108	0.10	65	**2KJ4601 - ■■■■■ - ■■ H2**
143.00	19.6	110	0.30	76	9.8	110	0.16	72	6.3	108	0.11	67	**2KJ4601 - ■■■■■ - ■■ G2**
127.64	22	110	0.33	76	11.0	110	0.17	73	7.1	109	0.12	68	**2KJ4601 - ■■■■■ - ■■ F2**
113.75	25	110	0.38	76	12.3	110	0.19	74	7.9	109	0.13	70	**2KJ4601 - ■■■■■ - ■■ E2**
105.00	27	110	0.41	76	13.3	110	0.21	74	8.6	110	0.14	70	**2KJ4601 - ■■■■■ - ■■ D2**
91.93	30	110	0.46	76	15.2	110	0.23	75	9.8	110	0.16	72	**2KJ4601 - ■■■■■ - ■■ C2**
80.60	35	105	0.51	76	17.4	110	0.27	75	11.2	110	0.18	73	**2KJ4601 - ■■■■■ - ■■ B2**
73.12	38	101	0.53	76	19.1	110	0.29	75	12.3	110	0.19	74	**2KJ4601 - ■■■■■ - ■■ A2**
68.82	41	99	0.56	76	20	110	0.31	75	13.1	110	0.21	74	**2KJ4601 - ■■■■■ - ■■ X1**
60.67	46	95	0.61	75	23	110	0.35	76	14.8	110	0.23	74	**2KJ4601 - ■■■■■ - ■■ W1**
52.65	53	90	0.67	75	27	110	0.41	76	17.1	110	0.26	75	**2KJ4601 - ■■■■■ - ■■ V1**
49.87	56	105	0.69	90	28	102	0.34	87	18	100	0.22	84	**2KJ4601 - ■■■■■ - ■■ U1**
43.27	65	106	0.80	90	32	103	0.39	88	21	101	0.26	86	**2KJ4601 - ■■■■■ - ■■ T1**
39.33	71	106	0.88	90	36	103	0.44	89	23	101	0.28	86	**2KJ4601 - ■■■■■ - ■■ S1**
33.73	83	107	1.00	90	42	104	0.51	89	27	102	0.33	87	**2KJ4601 - ■■■■■ - ■■ R1**
32.64	86	92	0.91	92	43	90	0.45	90	28	88	0.30	87	**2KJ4601 - ■■■■■ - ■■ Q1**
28.32	99	93	1.10	92	49	90	0.51	90	32	89	0.34	88	**2KJ4601 - ■■■■■ - ■■ P1**
25.75	109	93	1.20	92	54	90	0.57	91	35	89	0.37	89	**2KJ4601 - ■■■■■ - ■■ N1**
22.08	127	94	1.40	92	63	91	0.66	91	41	89	0.43	89	**2KJ4601 - ■■■■■ - ■■ M1**
20.07	140	94	1.50	92	70	91	0.74	91	45	90	0.47	90	**2KJ4601 - ■■■■■ - ■■ L1**
17.60	159	93	1.7*	92	80	92	0.85	92	51	90	0.54	90	**2KJ4601 - ■■■■■ - ■■ K1**
15.71	178	89	1.8*	92	89	92	0.95	92	57	91	0.60	91	**2KJ4601 - ■■■■■ - ■■ J1**
14.00	200	86	2.0*	92	100	93	1.10	92	64	91	0.67	91	**2KJ4601 - ■■■■■ - ■■ H1**
12.92	217	83	2.1*	92	108	93	1.20	92	70	91	0.74	91	**2KJ4601 - ■■■■■ - ■■ G1**
11.31	248	79	2.3*	92	124	94	1.30	92	80	92	0.85	91	**2KJ4601 - ■■■■■ - ■■ F1**
9.92	282	74	2.4*	91	141	94	1.50	92	91	92	0.97	91	**2KJ4601 - ■■■■■ - ■■ E1**
9.00	311	71	2.6*	92	156	90	1.6*	92	100	93	1.10	92	**2KJ4601 - ■■■■■ - ■■ D1**
8.47	331	70	2.7*	91	165	88	1.7*	92	106	93	1.10	92	**2KJ4601 - ■■■■■ - ■■ C1**
7.47	375	66	2.8*	91	187	83	1.8*	92	120	93	1.30	92	**2KJ4601 - ■■■■■ - ■■ B1**
6.48	432	62	3.1*	91	216	78	1.9*	92	139	91	1.40	92	**2KJ4601 - ■■■■■ - ■■ A1**

* $P_{mot\ max}$ = 1.5 kW

Selection and ordering data (continued)

	n_{mot} = 700 rpm				n_{mot} = 500 rpm				n_{mot} = 100 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.29													
265.20	2.6	104	<0.06	57	1.9	103	<0.06	54	0.38	95	<0.06	47	**2KJ4601 - ■■■■■ - ■■ M2**
230.10	3	105	0.06	58	2.2	104	<0.06	55	0.43	96	<0.06	48	**2KJ4601 - ■■■■■ - ■■ L2**
209.18	3.3	105	0.06	59	2.4	104	<0.06	56	0.48	97	<0.06	48	**2KJ4601 - ■■■■■ - ■■ K2**
179.40	3.9	106	0.07	61	2.8	105	<0.06	57	0.56	97	<0.06	48	**2KJ4601 - ■■■■■ - ■■ J2**
163.09	4.3	107	0.08	62	3.1	105	0.06	58	0.61	98	<0.06	48	**2KJ4601 - ■■■■■ - ■■ H2**
143.00	4.9	107	0.09	64	3.5	106	0.07	59	0.70	98	<0.06	48	**2KJ4601 - ■■■■■ - ■■ G2**
127.64	5.5	108	0.10	65	3.9	106	0.07	61	0.78	99	<0.06	49	**2KJ4601 - ■■■■■ - ■■ F2**
113.75	6.2	108	0.11	66	4.4	107	0.08	62	0.88	99	<0.06	49	**2KJ4601 - ■■■■■ - ■■ E2**
105.00	6.7	109	0.11	67	4.8	107	0.09	63	0.95	100	<0.06	49	**2KJ4601 - ■■■■■ - ■■ D2**
91.93	7.6	109	0.13	69	5.4	108	0.09	65	1.1	100	<0.06	50	**2KJ4601 - ■■■■■ - ■■ C2**
80.60	8.7	110	0.14	70	6.2	108	0.11	66	1.2	101	<0.06	50	**2KJ4601 - ■■■■■ - ■■ B2**
73.12	9.6	110	0.16	71	6.8	109	0.12	67	1.4	101	<0.06	51	**2KJ4601 - ■■■■■ - ■■ A2**
68.82	10.2	110	0.16	72	7.3	109	0.12	68	1.5	102	<0.06	51	**2KJ4601 - ■■■■■ - ■■ X1**
60.67	11.5	110	0.18	73	8.2	110	0.14	70	1.6	102	<0.06	52	**2KJ4601 - ■■■■■ - ■■ W1**
52.65	13.3	110	0.21	74	9.5	110	0.15	71	1.9	103	<0.06	53	**2KJ4601 - ■■■■■ - ■■ V1**
49.87	14.0	99	0.18	83	10.0	98	0.13	80	2.0	91	<0.06	73	**2KJ4601 - ■■■■■ - ■■ U1**
43.27	16.2	100	0.20	84	11.6	98	0.15	81	2.3	91	<0.06	74	**2KJ4601 - ■■■■■ - ■■ T1**
39.33	17.8	100	0.22	84	12.7	99	0.16	82	2.5	92	<0.06	74	**2KJ4601 - ■■■■■ - ■■ S1**
33.73	21	101	0.26	85	14.8	99	0.19	83	3.0	92	<0.06	74	**2KJ4601 - ■■■■■ - ■■ R1**
32.64	21	87	0.22	86	15.3	86	0.17	84	3.1	80	<0.06	77	**2KJ4601 - ■■■■■ - ■■ Q1**
28.32	25	88	0.27	87	17.7	86	0.19	84	3.5	80	<0.06	78	**2KJ4601 - ■■■■■ - ■■ P1**
25.75	27	88	0.29	87	19.4	87	0.21	85	3.9	81	<0.06	78	**2KJ4601 - ■■■■■ - ■■ N1**
22.08	32	89	0.34	88	23	87	0.25	86	4.5	81	<0.06	78	**2KJ4601 - ■■■■■ - ■■ M1**
20.07	35	89	0.37	89	25	88	0.27	87	5.0	82	<0.06	79	**2KJ4601 - ■■■■■ - ■■ L1**
17.60	40	89	0.42	89	28	88	0.30	87	5.7	82	0.06	79	**2KJ4601 - ■■■■■ - ■■ K1**
15.71	45	90	0.47	90	32	89	0.34	88	6.4	83	0.07	79	**2KJ4601 - ■■■■■ - ■■ J1**
14.00	50	90	0.53	90	36	89	0.38	89	7.1	83	0.08	80	**2KJ4601 - ■■■■■ - ■■ H1**
12.92	54	90	0.57	90	39	89	0.41	89	7.7	83	0.08	80	**2KJ4601 - ■■■■■ - ■■ G1**
11.31	62	91	0.65	91	44	90	0.46	90	8.8	84	0.10	81	**2KJ4601 - ■■■■■ - ■■ F1**
9.92	71	91	0.75	91	50	90	0.53	90	10.1	84	0.11	81	**2KJ4601 - ■■■■■ - ■■ E1**
9.00	78	92	0.82	91	56	91	0.59	91	11.1	85	0.12	82	**2KJ4601 - ■■■■■ - ■■ D1**
8.47	83	92	0.88	91	59	91	0.62	91	11.8	85	0.13	82	**2KJ4601 - ■■■■■ - ■■ C1**
7.47	94	93	1.00	92	67	91	0.71	91	13.4	85	0.15	83	**2KJ4601 - ■■■■■ - ■■ B1**
6.48	108	93	1.20	92	77	92	0.81	91	15.4	86	0.17	84	**2KJ4601 - ■■■■■ - ■■ A1**

Selection and ordering data (continued)

	n_{mot} = 2 800 rpm				n_{mot} = 1 400 rpm				n_{mot} = 900 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.39													
299.00	9.4	194	0.27	71	4.7	192	0.15	64	3.0	189	0.10	58	**2KJ4602 - ■■■■■ - ■■ N2**
265.20	10.6	194	0.30	72	5.3	192	0.16	66	3.4	190	0.11	60	**2KJ4602 - ■■■■■ - ■■ M2**
230.10	12.2	194	0.34	73	6.1	193	0.18	68	3.9	191	0.13	62	**2KJ4602 - ■■■■■ - ■■ L2**
209.18	13.4	194	0.38	73	6.7	193	0.20	68	4.3	191	0.14	63	**2KJ4602 - ■■■■■ - ■■ K2**
179.40	15.6	194	0.44	73	7.8	193	0.23	70	5.0	192	0.16	65	**2KJ4602 - ■■■■■ - ■■ J2**
163.09	17.2	194	0.48	73	8.6	193	0.25	71	5.5	192	0.17	66	**2KJ4602 - ■■■■■ - ■■ H2**
143.00	19.6	194	0.55	73	9.8	194	0.28	71	6.3	193	0.19	68	**2KJ4602 - ■■■■■ - ■■ G2**
127.64	22	194	0.61	73	11	194	0.31	72	7.1	193	0.21	69	**2KJ4602 - ■■■■■ - ■■ F2**
113.75	25	181	0.66	73	12.3	194	0.35	72	7.9	193	0.23	70	**2KJ4602 - ■■■■■ - ■■ E2**
105.00	27	175	0.68	73	13.3	194	0.37	72	8.6	193	0.25	70	**2KJ4602 - ■■■■■ - ■■ D2**
91.93	30	165	0.72	72	15.2	194	0.43	72	9.8	194	0.28	71	**2KJ4602 - ■■■■■ - ■■ C2**
80.60	35	157	0.80	72	17.4	194	0.49	73	11.2	194	0.32	72	**2KJ4602 - ■■■■■ - ■■ B2**
73.12	38	150	0.84	72	19.1	189	0.52	73	12.3	194	0.35	72	**2KJ4602 - ■■■■■ - ■■ A2**
68.82	41	147	0.88	72	20	185	0.53	73	13.1	194	0.37	72	**2KJ4602 - ■■■■■ - ■■ X1**
60.67	46	139	0.94	72	23	175	0.58	73	14.8	194	0.41	73	**2KJ4602 - ■■■■■ - ■■ W1**
52.65	53	131	1.00	72	27	166	0.65	73	17.1	192	0.47	73	**2KJ4602 - ■■■■■ - ■■ V1**
49.87	56	195	1.30	89	28	198	0.66	89	18	194	0.41	89	**2KJ4602 - ■■■■■ - ■■ U1**
43.27	65	196	1.50	89	32	199	0.75	89	21	196	0.49	89	**2KJ4602 - ■■■■■ - ■■ T1**
39.33	71	196	1.60	89	36	200	0.85	89	23	196	0.53	89	**2KJ4602 - ■■■■■ - ■■ S1**
33.73	83	196	1.90	89	42	200	1.00	89	27	197	0.63	89	**2KJ4602 - ■■■■■ - ■■ R1**
32.64	86	200	2.00	91	43	210	1.00	91	28	205	0.68	90	**2KJ4602 - ■■■■■ - ■■ Q1**
28.32	99	200	2.30	91	49	225	1.30	91	32	225	0.84	90	**2KJ4602 - ■■■■■ - ■■ P1**
25.75	109	200	2.50	91	54	235	1.50	91	35	230	0.95	90	**2KJ4602 - ■■■■■ - ■■ N1**
22.08	127	198	2.90	91	63	235	1.70	91	41	230	1.10	91	**2KJ4602 - ■■■■■ - ■■ M1**
20.07	140	188	3.00	91	70	235	1.90	91	45	235	1.20	91	**2KJ4602 - ■■■■■ - ■■ L1**
17.60	159	180	3.3*	91	80	225	2.10	92	51	235	1.40	91	**2KJ4602 - ■■■■■ - ■■ K1**
15.71	178	172	3.5*	91	89	215	2.20	91	57	235	1.60	91	**2KJ4602 - ■■■■■ - ■■ J1**
14.00	200	164	3.8*	91	100	205	2.40	91	64	235	1.70	92	**2KJ4602 - ■■■■■ - ■■ H1**
12.92	217	159	4.0*	91	108	200	2.50	92	70	230	1.90	92	**2KJ4602 - ■■■■■ - ■■ G1**
11.31	248	152	4.3*	91	124	192	2.70	91	80	220	2.00	92	**2KJ4602 - ■■■■■ - ■■ F1**
9.92	282	145	4.7*	91	141	183	3.00	91	91	210	2.20	92	**2KJ4602 - ■■■■■ - ■■ E1**
9.00	311	137	4.9*	91	156	177	3.2*	91	100	205	2.30	92	**2KJ4602 - ■■■■■ - ■■ D1**
8.47	331	129	4.9*	91	165	173	3.3*	91	106	200	2.40	92	**2KJ4602 - ■■■■■ - ■■ C1**
7.47	375	114	4.9*	91	187	166	3.6*	91	120	192	2.60	92	**2KJ4602 - ■■■■■ - ■■ B1**
6.48	432	99	4.9*	91	216	157	3.9*	91	139	182	2.90	92	**2KJ4602 - ■■■■■ - ■■ A1**

* $P_{mot\ max}$ = 3 kW

Selection and ordering data (continued)

	n_{mot} = 700 rpm				n_{mot} = 500 rpm				n_{mot} = 100 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.39													
299.00	2.3	187	0.08	55	1.7	184	0.06	52	0.33	170	<0.06	44	**2KJ4602 - ■■■■■ - ■■ N2**
265.20	2.6	188	0.09	57	1.9	185	0.07	53	0.38	167	<0.06	44	**2KJ4602 - ■■■■■ - ■■ M2**
230.10	3.0	189	0.10	58	2.2	186	0.08	54	0.43	164	<0.06	44	**2KJ4602 - ■■■■■ - ■■ L2**
209.18	3.3	190	0.11	59	2.4	187	0.09	55	0.48	162	<0.06	44	**2KJ4602 - ■■■■■ - ■■ K2**
179.40	3.9	191	0.13	62	2.8	188	0.10	57	0.56	160	<0.06	45	**2KJ4602 - ■■■■■ - ■■ J2**
163.09	4.3	191	0.14	63	3.1	189	0.11	58	0.61	160	<0.06	45	**2KJ4602 - ■■■■■ - ■■ H2**
143.00	4.9	192	0.15	64	3.5	190	0.12	60	0.70	160	<0.06	46	**2KJ4602 - ■■■■■ - ■■ G2**
127.64	5.5	192	0.17	66	3.9	191	0.13	61	0.78	161	<0.06	46	**2KJ4602 - ■■■■■ - ■■ F2**
113.75	6.2	193	0.19	67	4.4	191	0.14	63	0.88	162	<0.06	47	**2KJ4602 - ■■■■■ - ■■ E2**
105.00	6.7	193	0.20	68	4.8	192	0.15	64	0.95	163	<0.06	47	**2KJ4602 - ■■■■■ - ■■ D2**
91.93	7.6	193	0.22	69	5.4	192	0.17	66	1.1	166	<0.06	48	**2KJ4602 - ■■■■■ - ■■ C2**
80.60	8.7	193	0.25	70	6.2	193	0.19	67	1.2	168	<0.06	49	**2KJ4602 - ■■■■■ - ■■ B2**
73.12	9.6	194	0.28	71	6.8	193	0.20	68	1.4	170	<0.06	49	**2KJ4602 - ■■■■■ - ■■ A2**
68.82	10.2	194	0.29	71	7.3	193	0.21	69	1.5	172	<0.06	50	**2KJ4602 - ■■■■■ - ■■ X1**
60.67	11.5	194	0.32	72	8.2	193	0.24	70	1.6	176	0.06	51	**2KJ4602 - ■■■■■ - ■■ W1**
52.65	13.3	194	0.37	73	9.5	194	0.27	71	1.9	180	0.07	53	**2KJ4602 - ■■■■■ - ■■ V1**
49.87	14.0	192	0.32	88	10.0	190	0.23	86	2.0	177	0.06	66	**2KJ4602 - ■■■■■ - ■■ U1**
43.27	16.2	194	0.37	88	11.6	191	0.27	87	2.3	178	0.06	67	**2KJ4602 - ■■■■■ - ■■ T1**
39.33	17.8	194	0.41	88	12.7	192	0.29	88	2.5	179	0.07	68	**2KJ4602 - ■■■■■ - ■■ S1**
33.73	21	196	0.49	89	14.8	193	0.34	88	3.0	180	0.08	71	**2KJ4602 - ■■■■■ - ■■ R1**
32.64	21	200	0.51	88	15.3	197	0.37	86	3.1	174	0.08	76	**2KJ4602 - ■■■■■ - ■■ Q1**
28.32	25	220	0.66	89	17.7	215	0.47	87	3.5	192	0.09	76	**2KJ4602 - ■■■■■ - ■■ P1**
25.75	27	230	0.73	89	19.4	225	0.53	87	3.9	210	0.11	77	**2KJ4602 - ■■■■■ - ■■ N1**
22.08	32	230	0.86	90	23	225	0.62	88	4.5	210	0.13	77	**2KJ4602 - ■■■■■ - ■■ M1**
20.07	35	230	0.94	90	25	230	0.68	89	5.0	215	0.15	78	**2KJ4602 - ■■■■■ - ■■ L1**
17.60	40	230	1.10	91	28	230	0.76	90	5.7	215	0.16	79	**2KJ4602 - ■■■■■ - ■■ K1**
15.71	45	235	1.20	91	32	230	0.86	90	6.4	215	0.18	79	**2KJ4602 - ■■■■■ - ■■ J1**
14.00	50	235	1.40	91	36	230	0.97	91	7.1	215	0.20	80	**2KJ4602 - ■■■■■ - ■■ H1**
12.92	54	235	1.50	92	39	230	1.10	91	7.7	215	0.22	81	**2KJ4602 - ■■■■■ - ■■ G1**
11.31	62	235	1.70	92	44	235	1.20	91	8.8	220	0.25	82	**2KJ4602 - ■■■■■ - ■■ F1**
9.92	71	230	1.90	92	50	235	1.40	91	10.1	220	0.28	83	**2KJ4602 - ■■■■■ - ■■ E1**
9.00	78	220	2.00	92	56	235	1.50	92	11.1	220	0.31	83	**2KJ4602 - ■■■■■ - ■■ D1**
8.47	83	215	2.10	92	59	235	1.60	92	11.8	220	0.33	84	**2KJ4602 - ■■■■■ - ■■ C1**
7.47	94	205	2.30	92	67	230	1.80	92	13.4	220	0.37	85	**2KJ4602 - ■■■■■ - ■■ B1**
6.48	108	198	2.50	92	77	220	2.00	92	15.4	225	0.42	86	**2KJ4602 - ■■■■■ - ■■ A1**

Selection and ordering data (continued)

	n_{mot} = 2 800 rpm				n_{mot} = 1 400 rpm				n_{mot} = 900 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.49													
299.00	9.4	355	0.48	73	4.7	350	0.26	67	3.0	345	0.18	61	**2KJ4603 - ■■■■■ - ■■ N2**
265.20	10.6	355	0.54	74	5.3	350	0.29	69	3.4	350	0.20	63	**2KJ4603 - ■■■■■ - ■■ M2**
230.10	12.2	355	0.62	74	6.1	350	0.32	70	3.9	350	0.22	65	**2KJ4603 - ■■■■■ - ■■ L2**
209.18	13.4	355	0.68	74	6.7	355	0.35	71	4.3	350	0.24	66	**2KJ4603 - ■■■■■ - ■■ K2**
179.40	15.6	355	0.79	74	7.8	355	0.40	72	5.0	350	0.27	68	**2KJ4603 - ■■■■■ - ■■ J2**
163.09	17.2	340	0.84	74	8.6	355	0.44	73	5.5	350	0.30	69	**2KJ4603 - ■■■■■ - ■■ H2**
143.00	19.6	315	0.89	74	9.8	355	0.50	73	6.3	355	0.33	70	**2KJ4603 - ■■■■■ - ■■ G2**
127.64	22	300	0.95	73	11.0	355	0.56	73	7.1	355	0.37	71	**2KJ4603 - ■■■■■ - ■■ F2**
113.75	25	285	1.00	73	12.3	355	0.62	74	7.9	355	0.41	72	**2KJ4603 - ■■■■■ - ■■ E2**
105.00	27	275	1.10	73	13.3	350	0.66	74	8.6	355	0.44	72	**2KJ4603 - ■■■■■ - ■■ D2**
91.93	30	260	1.10	73	15.2	330	0.72	74	9.8	355	0.50	73	**2KJ4603 - ■■■■■ - ■■ C2**
80.60	35	250	1.30	73	17.4	315	0.78	74	11.2	355	0.57	74	**2KJ4603 - ■■■■■ - ■■ B2**
73.12	38	240	1.30	73	19.1	300	0.82	74	12.3	345	0.61	74	**2KJ4603 - ■■■■■ - ■■ A2**
68.82	41	230	1.40	73	20	295	0.84	74	13.1	340	0.63	74	**2KJ4603 - ■■■■■ - ■■ X1**
60.67	46	220	1.50	73	23	280	0.92	74	14.8	320	0.68	74	**2KJ4603 - ■■■■■ - ■■ W1**
52.65	53	210	1.60	73	27	265	1.00	74	17.1	305	0.74	74	**2KJ4603 - ■■■■■ - ■■ V1**
49.87	56	310	2.10	90	28	310	1.00	89	18	305	0.66	87	**2KJ4603 - ■■■■■ - ■■ U1**
43.27	65	340	2.60	90	32	340	1.30	89	21	335	0.85	88	**2KJ4603 - ■■■■■ - ■■ T1**
39.33	71	335	2.80	89	36	395	1.70	89	23	395	1.10	88	**2KJ4603 - ■■■■■ - ■■ S1**
33.73	83	315	3.10	89	42	365	1.80	90	27	365	1.20	89	**2KJ4603 - ■■■■■ - ■■ R1**
30.67	91	300	3.20	89	46	380	2.10	89	29	400	1.40	89	**2KJ4603 - ■■■■■ - ■■ Q1**
26.89	104	285	3.50	89	52	360	2.20	90	33	400	1.50	89	**2KJ4603 - ■■■■■ - ■■ P1**
24.00	117	275	3.80	89	58	345	2.40	90	38	400	1.80	90	**2KJ4603 - ■■■■■ - ■■ N1**
21.39	131	260	4.1*	89	65	330	2.50	90	42	385	1.90	90	**2KJ4603 - ■■■■■ - ■■ M1**
19.74	142	255	4.3*	89	71	320	2.70	90	46	370	2.00	90	**2KJ4603 - ■■■■■ - ■■ L1**
17.29	162	240	4.6*	89	81	305	2.90	90	52	355	2.20	90	**2KJ4603 - ■■■■■ - ■■ K1**
15.16	185	230	5.1*	89	92	290	3.20	90	59	335	2.30	90	**2KJ4603 - ■■■■■ - ■■ J1**
13.75	204	220	5.4*	89	102	280	3.40	90	65	325	2.50	90	**2KJ4603 - ■■■■■ - ■■ H1**
12.94	216	210	5.3*	89	108	275	3.50	90	70	315	2.60	90	**2KJ4603 - ■■■■■ - ■■ G1**
11.41	245	185	5.4*	89	123	260	3.80	90	79	305	2.80	90	**2KJ4603 - ■■■■■ - ■■ F1**
9.90	283	161	5.4*	89	141	250	4.1*	89	91	290	3.10	90	**2KJ4603 - ■■■■■ - ■■ E1**
9.00	311	185	6.6*	91	156	260	4.6*	92	100	260	3.00	92	**2KJ4603 - ■■■■■ - ■■ D1**
8.47	331	174	6.6*	91	165	260	4.9*	92	106	260	3.20	92	**2KJ4603 - ■■■■■ - ■■ C1**
7.47	375	153	6.6*	91	187	250	5.3*	92	120	260	3.60	92	**2KJ4603 - ■■■■■ - ■■ B1**
6.48	432	133	6.6*	91	216	235	5.8*	92	139	260	4.1*	92	**2KJ4603 - ■■■■■ - ■■ A1**

* $P_{mot\ max}$ = 4 kW

Selection and ordering data (continued)

	n_{mot} = 700 rpm				n_{mot} = 500 rpm				n_{mot} = 100 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.49													
299.00	2.3	340	0.14	58	1.7	315	0.10	54	0.33	260	<0.06	45	**2KJ4603 - ■■■■■ - ■■ N2**
265.20	2.6	340	0.16	60	1.9	315	0.11	55	0.38	255	<0.06	45	**2KJ4603 - ■■■■■ - ■■ M2**
230.10	3.0	345	0.18	61	2.2	320	0.13	57	0.43	255	<0.06	45	**2KJ4603 - ■■■■■ - ■■ L2**
209.18	3.3	345	0.19	63	2.4	320	0.14	58	0.48	255	<0.06	45	**2KJ4603 - ■■■■■ - ■■ K2**
179.40	3.9	350	0.22	65	2.8	330	0.16	60	0.56	255	<0.06	46	**2KJ4603 - ■■■■■ - ■■ J2**
163.09	4.3	350	0.24	66	3.1	330	0.18	61	0.61	255	<0.06	46	**2KJ4603 - ■■■■■ - ■■ H2**
143.00	4.9	350	0.27	68	3.5	340	0.20	63	0.70	255	<0.06	47	**2KJ4603 - ■■■■■ - ■■ G2**
127.64	5.5	350	0.30	69	3.9	350	0.22	65	0.78	260	<0.06	47	**2KJ4603 - ■■■■■ - ■■ F2**
113.75	6.2	355	0.33	70	4.4	350	0.25	66	0.88	260	<0.06	48	**2KJ4603 - ■■■■■ - ■■ E2**
105.00	6.7	355	0.35	71	4.8	350	0.26	67	0.95	265	<0.06	49	**2KJ4603 - ■■■■■ - ■■ D2**
91.93	7.6	355	0.39	72	5.4	350	0.29	69	1.1	270	0.06	50	**2KJ4603 - ■■■■■ - ■■ C2**
80.60	8.7	355	0.45	73	6.2	355	0.33	70	1.2	275	0.07	51	**2KJ4603 - ■■■■■ - ■■ B2**
73.12	9.6	355	0.49	73	6.8	355	0.36	71	1.4	280	0.08	52	**2KJ4603 - ■■■■■ - ■■ A2**
68.82	10.2	355	0.52	73	7.3	355	0.38	72	1.5	280	0.08	52	**2KJ4603 - ■■■■■ - ■■ X1**
60.67	11.5	350	0.57	74	8.2	355	0.42	73	1.6	285	0.09	54	**2KJ4603 - ■■■■■ - ■■ W1**
52.65	13.3	330	0.63	74	9.5	355	0.48	73	1.9	295	0.11	55	**2KJ4603 - ■■■■■ - ■■ V1**
49.87	14.0	295	0.51	86	10.0	285	0.37	83	2.0	245	0.07	71	**2KJ4603 - ■■■■■ - ■■ U1**
43.27	16.2	330	0.65	87	11.6	320	0.47	84	2.3	275	0.09	71	**2KJ4603 - ■■■■■ - ■■ T1**
39.33	17.8	390	0.83	87	12.7	375	0.60	85	2.5	320	0.12	72	**2KJ4603 - ■■■■■ - ■■ S1**
33.73	21	360	0.91	88	14.8	355	0.64	86	3.0	300	0.13	73	**2KJ4603 - ■■■■■ - ■■ R1**
30.67	23	395	1.10	88	16.3	385	0.77	87	3.3	330	0.16	73	**2KJ4603 - ■■■■■ - ■■ Q1**
26.89	26	395	1.20	89	18.6	390	0.87	88	3.7	330	0.17	74	**2KJ4603 - ■■■■■ - ■■ P1**
24.00	29	395	1.40	89	21	390	0.99	88	4.2	335	0.20	75	**2KJ4603 - ■■■■■ - ■■ N1**
21.39	33	395	1.50	89	23	395	1.10	89	4.7	340	0.22	76	**2KJ4603 - ■■■■■ - ■■ M1**
19.74	35	400	1.60	90	25	395	1.20	89	5.1	340	0.24	77	**2KJ4603 - ■■■■■ - ■■ L1**
17.29	40	385	1.80	90	29	395	1.30	89	5.8	345	0.27	78	**2KJ4603 - ■■■■■ - ■■ K1**
15.16	46	365	2.00	90	33	390	1.50	90	6.6	345	0.30	79	**2KJ4603 - ■■■■■ - ■■ J1**
13.75	51	355	2.10	90	36	390	1.60	90	7.3	345	0.33	80	**2KJ4603 - ■■■■■ - ■■ H1**
12.94	54	345	2.20	90	39	385	1.80	90	7.7	350	0.35	80	**2KJ4603 - ■■■■■ - ■■ G1**
11.41	61	330	2.40	90	44	370	1.90	90	8.8	355	0.40	82	**2KJ4603 - ■■■■■ - ■■ F1**
9.90	71	315	2.60	90	51	350	2.10	90	10.1	360	0.46	83	**2KJ4603 - ■■■■■ - ■■ E1**
9.00	78	260	2.30	92	56	255	1.70	91	11.1	235	0.33	84	**2KJ4603 - ■■■■■ - ■■ D1**
8.47	83	260	2.50	92	59	260	1.80	91	11.8	240	0.35	84	**2KJ4603 - ■■■■■ - ■■ C1**
7.47	94	260	2.80	92	67	260	2.00	92	13.4	240	0.40	85	**2KJ4603 - ■■■■■ - ■■ B1**
6.48	108	260	3.20	92	77	260	2.30	92	15.4	245	0.46	87	**2KJ4603 - ■■■■■ - ■■ A1**

Selection and ordering data (continued)

	n_{mot} = 2 800 rpm				n_{mot} = 1 400 rpm				n_{mot} = 900 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.69													
360.00	7.8	575	0.65	73	3.9	680	0.40	69	2.5	645	0.27	63	**2KJ4604 - ■■■■■ - ■■ M2**
319.80	8.8	570	0.72	73	4.4	680	0.45	70	2.8	655	0.30	65	**2KJ4604 - ■■■■■ - ■■ L2**
280.80	10.0	560	0.81	73	5.0	680	0.50	71	3.2	660	0.33	66	**2KJ4604 - ■■■■■ - ■■ K2**
255.27	11.0	555	0.88	73	5.5	680	0.55	72	3.5	665	0.36	67	**2KJ4604 - ■■■■■ - ■■ J2**
218.40	12.8	530	0.97	74	6.4	655	0.60	73	4.1	675	0.42	70	**2KJ4604 - ■■■■■ - ■■ H2**
198.55	14.1	510	1.00	73	7.1	635	0.65	73	4.5	680	0.46	70	**2KJ4604 - ■■■■■ - ■■ G2**
175.50	16.0	485	1.10	73	8.0	610	0.70	74	5.1	685	0.51	72	**2KJ4604 - ■■■■■ - ■■ F2**
159.55	17.5	470	1.20	73	8.8	590	0.74	74	5.6	670	0.54	72	**2KJ4604 - ■■■■■ - ■■ E2**
139.75	20	440	1.30	73	10.0	550	0.79	74	6.4	630	0.58	73	**2KJ4604 - ■■■■■ - ■■ D2**
129.00	22	425	1.30	74	10.9	535	0.83	74	7.0	610	0.61	73	**2KJ4604 - ■■■■■ - ■■ C2**
114.21	25	405	1.40	73	12.3	510	0.89	74	7.9	585	0.66	74	**2KJ4604 - ■■■■■ - ■■ B2**
102.50	27	555	1.80	87	13.7	645	1.10	86	8.8	625	0.69	84	**2KJ4604 - ■■■■■ - ■■ A2**
90.00	31	555	2.10	87	15.6	665	1.30	86	10.0	650	0.81	84	**2KJ4604 - ■■■■■ - ■■ X1**
81.82	34	545	2.20	87	17.1	680	1.40	87	11.0	775	1.10	85	**2KJ4604 - ■■■■■ - ■■ W1**
70.00	40	515	2.50	87	20	650	1.60	87	12.9	680	1.10	86	**2KJ4604 - ■■■■■ - ■■ V1**
63.64	44	500	2.70	87	22	630	1.70	87	14.1	720	1.20	86	**2KJ4604 - ■■■■■ - ■■ U1**
56.25	50	480	2.90	87	25	605	1.80	87	16.0	695	1.30	87	**2KJ4604 - ■■■■■ - ■■ T1**
51.14	55	455	3.00	87	27	575	1.90	87	17.6	660	1.40	87	**2KJ4604 - ■■■■■ - ■■ S1**
44.79	63	430	3.30	87	31	545	2.00	87	20	630	1.50	87	**2KJ4604 - ■■■■■ - ■■ R1**
41.35	68	420	3.40	87	34	525	2.20	87	22	610	1.60	87	**2KJ4604 - ■■■■■ - ■■ Q1**
36.61	76	400	3.70	87	38	505	2.30	87	25	580	1.80	87	**2KJ4604 - ■■■■■ - ■■ P1**
30.00	93	435	4.70	90	47	545	3.00	90	30	560	2.00	90	**2KJ4604 - ■■■■■ - ■■ N1**
26.28	107	410	5.10	90	53	520	3.20	90	34	550	2.20	90	**2KJ4604 - ■■■■■ - ■■ M1**
24.26	115	400	5.30	90	58	500	3.40	90	37	545	2.30	91	**2KJ4604 - ■■■■■ - ■■ L1**
21.48	130	380	5.8*	90	65	480	3.60	90	42	540	2.60	91	**2KJ4604 - ■■■■■ - ■■ K1**
17.88	157	355	6.5*	90	78	450	4.10	90	50	520	3.00	91	**2KJ4604 - ■■■■■ - ■■ J1**
15.88	176	365	7.3*	92	88	365	3.70	92	57	365	2.40	92	**2KJ4604 - ■■■■■ - ■■ H1**
14.06	199	360	8.2*	92	100	360	4.10	92	64	360	2.60	92	**2KJ4604 - ■■■■■ - ■■ G1**
11.70	239	345	9.5*	92	120	365	5.00	92	77	365	3.20	92	**2KJ4604 - ■■■■■ - ■■ F1**
11.01	254	325	9.5*	92	127	365	5.40	92	82	365	3.50	92	**2KJ4604 - ■■■■■ - ■■ E1**
9.87	284	290	9.5*	92	142	365	6.0*	92	91	365	3.80	92	**2KJ4604 - ■■■■■ - ■■ D1**
8.40	333	250	9.6*	91	167	370	7.1*	92	107	370	4.50	92	**2KJ4604 - ■■■■■ - ■■ C1**
7.20	389	210	9.6*	91	194	365	8.2*	92	125	365	5.30	92	**2KJ4604 - ■■■■■ - ■■ B1**
6.20	452	184	9.6*	91	226	365	9.4*	92	145	365	6.1*	92	**2KJ4604 - ■■■■■ - ■■ A1**

* $P_{mot\ max}$ = 5.5 kW

Selection and ordering data (continued)

	n_{mot} = 700 rpm				n_{mot} = 500 rpm				n_{mot} = 100 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.69													
360.00	1.9	610	0.20	60	1.4	570	0.15	55	0.28	460	<0.06	45	**2KJ4604 - ■■■■■ - ■■ M2**
319.80	2.2	620	0.23	61	1.6	575	0.17	57	0.31	460	<0.06	45	**2KJ4604 - ■■■■■ - ■■ L2**
280.80	2.5	625	0.26	63	1.8	580	0.19	58	0.36	455	<0.06	45	**2KJ4604 - ■■■■■ - ■■ K2**
255.27	2.7	635	0.28	64	2.0	590	0.21	59	0.39	455	<0.06	45	**2KJ4604 - ■■■■■ - ■■ J2**
218.40	3.2	645	0.33	66	2.3	605	0.24	62	0.46	460	<0.06	46	**2KJ4604 - ■■■■■ - ■■ H2**
198.55	3.5	650	0.35	68	2.5	610	0.25	63	0.50	455	<0.06	47	**2KJ4604 - ■■■■■ - ■■ G2**
175.50	4.0	665	0.40	69	2.8	625	0.28	65	0.57	460	0.06	48	**2KJ4604 - ■■■■■ - ■■ F2**
159.55	4.4	670	0.44	70	3.1	635	0.31	66	0.63	465	0.06	48	**2KJ4604 - ■■■■■ - ■■ E2**
139.75	5.0	670	0.49	72	3.6	650	0.36	68	0.72	475	0.07	49	**2KJ4604 - ■■■■■ - ■■ D2**
129.00	5.4	655	0.51	72	3.9	660	0.39	69	0.78	480	0.08	50	**2KJ4604 - ■■■■■ - ■■ C2**
114.21	6.1	630	0.55	73	4.4	670	0.44	71	0.88	490	0.09	51	**2KJ4604 - ■■■■■ - ■■ B2**
102.50	6.8	610	0.54	81	4.9	585	0.39	78	0.98	500	0.08	67	**2KJ4604 - ■■■■■ - ■■ A2**
90.00	7.8	635	0.63	82	5.6	610	0.45	79	1.1	515	0.09	67	**2KJ4604 - ■■■■■ - ■■ X1**
81.82	8.6	800	0.87	84	6.1	775	0.62	80	1.2	650	0.12	68	**2KJ4604 - ■■■■■ - ■■ W1**
70.00	10.0	665	0.83	84	7.1	645	0.59	82	1.4	540	0.12	68	**2KJ4604 - ■■■■■ - ■■ V1**
63.64	11.0	775	1.00	85	7.9	830	0.83	83	1.6	695	0.17	69	**2KJ4604 - ■■■■■ - ■■ U1**
56.25	12.4	750	1.10	86	8.9	810	0.90	84	1.8	675	0.18	70	**2KJ4604 - ■■■■■ - ■■ T1**
51.14	13.7	715	1.20	86	9.8	785	0.95	85	2.0	750	0.22	71	**2KJ4604 - ■■■■■ - ■■ S1**
44.79	15.6	680	1.30	87	11.2	750	1.00	86	2.2	760	0.24	72	**2KJ4604 - ■■■■■ - ■■ R1**
41.35	16.9	660	1.30	87	12.1	730	1.10	86	2.4	765	0.27	72	**2KJ4604 - ■■■■■ - ■■ Q1**
36.61	19.1	630	1.50	87	13.7	700	1.20	87	2.7	770	0.30	73	**2KJ4604 - ■■■■■ - ■■ P1**
30.00	23	560	1.50	90	16.7	555	1.10	89	3.3	480	0.22	77	**2KJ4604 - ■■■■■ - ■■ N1**
26.28	27	550	1.70	90	19	545	1.20	90	3.8	480	0.24	78	**2KJ4604 - ■■■■■ - ■■ M1**
24.26	29	545	1.80	90	21	540	1.30	90	4.1	475	0.26	79	**2KJ4604 - ■■■■■ - ■■ L1**
21.48	33	540	2.10	91	23	540	1.40	90	4.7	475	0.30	80	**2KJ4604 - ■■■■■ - ■■ K1**
17.88	39	545	2.50	91	28	545	1.80	91	5.6	490	0.35	82	**2KJ4604 - ■■■■■ - ■■ J1**
15.88	44	365	1.80	92	31	360	1.30	91	6.3	330	0.26	83	**2KJ4604 - ■■■■■ - ■■ H1**
14.06	50	360	2.10	92	36	355	1.50	92	7.1	330	0.29	84	**2KJ4604 - ■■■■■ - ■■ G1**
11.70	60	365	2.50	92	43	365	1.80	92	8.5	340	0.36	85	**2KJ4604 - ■■■■■ - ■■ F1**
11.01	64	365	2.70	92	45	365	1.90	92	9.1	340	0.38	86	**2KJ4604 - ■■■■■ - ■■ E1**
9.87	71	365	3.00	92	51	365	2.10	92	10.1	345	0.43	86	**2KJ4604 - ■■■■■ - ■■ D1**
8.40	83	370	3.50	92	60	370	2.50	92	11.9	350	0.50	87	**2KJ4604 - ■■■■■ - ■■ C1**
7.20	97	365	4.10	92	69	365	2.90	92	13.9	350	0.59	88	**2KJ4604 - ■■■■■ - ■■ B1**
6.20	113	365	4.70	92	81	365	3.40	92	16.1	355	0.67	89	**2KJ4604 - ■■■■■ - ■■ A1**

Selection and ordering data (continued)

	n_{mot} = 2 800 rpm				n_{mot} = 1 400 rpm				n_{mot} = 900 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.89													
363.00	7.7	1 180	1.30	73	3.9	1 460	0.83	72	2.5	1 430	0.55	68	**2KJ4605 - ■■■■■ - ■■ N2**
329.73	8.5	1 180	1.40	73	4.2	1 460	0.89	72	2.7	1 440	0.59	69	**2KJ4605 - ■■■■■ - ■■ M2**
295.75	9.5	1 170	1.60	73	4.7	1 460	0.99	73	3.0	1 460	0.66	70	**2KJ4605 - ■■■■■ - ■■ L2**
265.91	10.5	1 170	1.80	73	5.3	1 460	1.10	73	3.4	1 470	0.74	71	**2KJ4605 - ■■■■■ - ■■ K2**
240.50	11.6	1 160	1.90	73	5.8	1 450	1.20	73	3.7	1 480	0.80	72	**2KJ4605 - ■■■■■ - ■■ J2**
222.00	12.6	1 120	2.00	73	6.3	1 410	1.30	73	4.1	1 490	0.89	72	**2KJ4605 - ■■■■■ - ■■ H2**
203.36	13.8	1 090	2.20	73	6.9	1 370	1.40	73	4.4	1 500	0.95	73	**2KJ4605 - ■■■■■ - ■■ G2**
170.62	16.4	1 030	2.40	73	8.2	1 300	1.50	73	5.3	1 490	1.10	73	**2KJ4605 - ■■■■■ - ■■ F2**
160.59	17.4	1 010	2.50	73	8.7	1 270	1.60	73	5.6	1 460	1.20	74	**2KJ4605 - ■■■■■ - ■■ E2**
147.33	19	980	2.70	73	9.5	1 230	1.70	74	6.1	1 430	1.20	74	**2KJ4605 - ■■■■■ - ■■ D2**
128.70	22	915	2.90	73	10.9	1 150	1.80	73	7.0	1 340	1.30	74	**2KJ4605 - ■■■■■ - ■■ C2**
115.23	24	875	3.00	73	12.1	1 100	1.90	74	7.8	1 280	1.40	74	**2KJ4605 - ■■■■■ - ■■ B2**
100.75	28	830	3.30	73	13.9	1 040	2.10	74	8.9	1 210	1.50	74	**2KJ4605 - ■■■■■ - ■■ A2**
86.48	32	780	3.60	73	16.2	980	2.30	73	10.4	1 140	1.70	74	**2KJ4605 - ■■■■■ - ■■ X1**
76.44	37	740	4.00	73	18.3	935	2.40	73	11.8	1 080	1.80	74	**2KJ4605 - ■■■■■ - ■■ W1**
65.00	43	695	4.30	73	22	875	2.80	73	13.8	1 010	2.00	74	**2KJ4605 - ■■■■■ - ■■ V1**
55.61	50	1 150	6.70	90	25	1 450	4.20	91	16.2	1 550	2.90	90	**2KJ4605 - ■■■■■ - ■■ U1**
50.00	56	1 130	7.40	90	28	1 430	4.60	90	18.0	1 560	3.30	90	**2KJ4605 - ■■■■■ - ■■ T1**
45.22	62	1 100	7.90	90	31	1 380	5.00	91	19.9	1 560	3.60	90	**2KJ4605 - ■■■■■ - ■■ S1**
41.74	67	1 070	8.30	90	34	1 350	5.30	91	22	1 560	4.00	91	**2KJ4605 - ■■■■■ - ■■ R1**
38.24	73	1 040	8.80	90	37	1 310	5.60	91	24	1 520	4.20	91	**2KJ4605 - ■■■■■ - ■■ Q1**
32.08	87	985	10*	90	44	1 240	6.30	91	28	1 440	4.70	91	**2KJ4605 - ■■■■■ - ■■ P1**
30.20	93	950	10.3*	90	46	1 200	6.40	91	30	1 390	4.80	91	**2KJ4605 - ■■■■■ - ■■ N1**
27.70	101	920	10.8*	90	51	1 160	6.90	91	32	1 340	5.00	91	**2KJ4605 - ■■■■■ - ■■ M1**
25.03	112	1 080	13.7*	93	56	1 090	6.90	93	36	1 090	4.50	93	**2KJ4605 - ■■■■■ - ■■ L1**
21.00	133	1 000	15.1*	93	67	1 080	8.20	93	43	1 070	5.20	93	**2KJ4605 - ■■■■■ - ■■ K1**
19.76	142	980	15.8*	93	71	1 120	9.00	93	46	1 120	5.80	93	**2KJ4605 - ■■■■■ - ■■ J1**
18.13	154	950	16.6*	93	77	1 120	9.7*	93	50	1 120	6.30	93	**2KJ4605 - ■■■■■ - ■■ H1**
15.84	177	865	17.3*	93	88	1 140	11.3*	93	57	1 140	7.30	93	**2KJ4605 - ■■■■■ - ■■ G1**
14.18	197	770	17.3*	92	99	1 090	12.2*	93	63	1 150	8.20	93	**2KJ4605 - ■■■■■ - ■■ F1**
12.40	226	675	17.3*	93	113	1 040	13.3*	93	73	1 140	9.5*	93	**2KJ4605 - ■■■■■ - ■■ E1**
10.64	263	580	17.3*	92	132	985	14.7*	93	85	1 140	10.9*	93	**2KJ4605 - ■■■■■ - ■■ D1**
9.41	298	510	17.4*	92	149	940	15.9*	93	96	1 090	11.8*	93	**2KJ4605 - ■■■■■ - ■■ C1**
8.00	350	435	17.4*	92	175	870	17.3*	93	112	1 030	13.1*	93	**2KJ4605 - ■■■■■ - ■■ B1**
6.86	408	370	17.4*	92	204	745	17.3*	93	131	980	14.5*	93	**2KJ4605 - ■■■■■ - ■■ A1**

* $P_{mot\ max}$ = 9.2 kW

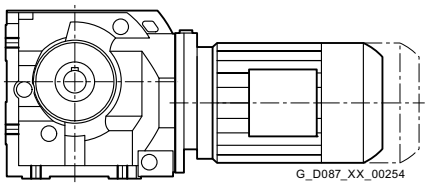
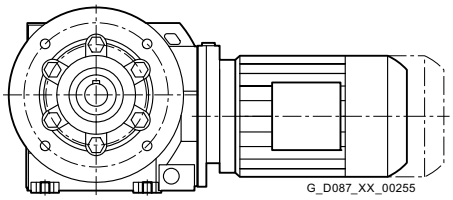
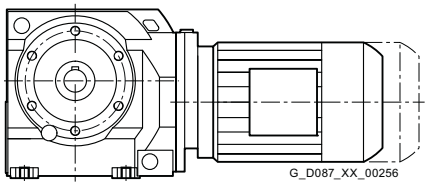
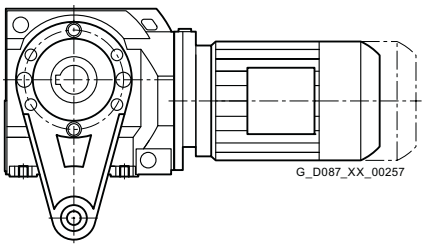
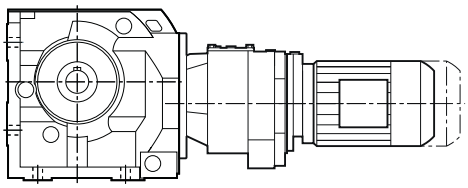
Selection and ordering data (continued)

	n_{mot} = 700 rpm				n_{mot} = 500 rpm				n_{mot} = 100 rpm				
i	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	n_2	T_{2N}	P_{mot}	η	**Article No.**
-	rpm	Nm	kW	%	rpm	Nm	kW	%	rpm	Nm	kW	%	
C.89													
363.00	1.9	1 360	0.42	64	1.4	1 260	0.31	60	0.28	955	0.06	45	**2KJ4605 - ■■■■■ - ■■ N2**
329.73	2.1	1 380	0.46	66	1.5	1 280	0.33	61	0.30	960	0.07	45	**2KJ4605 - ■■■■■ - ■■ M2**
295.75	2.4	1 400	0.53	67	1.7	1 310	0.37	62	0.34	965	0.08	45	**2KJ4605 - ■■■■■ - ■■ L2**
265.91	2.6	1 420	0.57	68	1.9	1 330	0.42	64	0.38	975	0.08	46	**2KJ4605 - ■■■■■ - ■■ K2**
240.50	2.9	1 440	0.63	70	2.1	1 360	0.46	66	0.42	985	0.09	47	**2KJ4605 - ■■■■■ - ■■ J2**
222.00	3.2	1 450	0.69	70	2.3	1 380	0.50	67	0.45	995	0.10	47	**2KJ4605 - ■■■■■ - ■■ H2**
203.36	3.4	1 470	0.74	71	2.5	1 400	0.54	68	0.49	1 000	0.11	48	**2KJ4605 - ■■■■■ - ■■ G2**
170.62	4.1	1 490	0.89	72	2.9	1 440	0.63	70	0.59	1 030	0.13	50	**2KJ4605 - ■■■■■ - ■■ F2**
160.59	4.4	1 490	0.95	73	3.1	1 450	0.67	71	0.62	1 040	0.14	50	**2KJ4605 - ■■■■■ - ■■ E2**
147.33	4.8	1 500	1.00	73	3.4	1 460	0.73	71	0.68	1 060	0.15	51	**2KJ4605 - ■■■■■ - ■■ D2**
128.70	5.4	1 450	1.10	74	3.9	1 480	0.84	72	0.78	1 090	0.17	53	**2KJ4605 - ■■■■■ - ■■ C2**
115.23	6.1	1 390	1.20	74	4.3	1 490	0.92	73	0.87	1 110	0.19	54	**2KJ4605 - ■■■■■ - ■■ B2**
100.75	6.9	1 310	1.30	74	5.0	1 460	1.00	74	0.99	1 150	0.21	56	**2KJ4605 - ■■■■■ - ■■ A2**
86.48	8.1	1 230	1.40	74	5.8	1 380	1.10	74	1.2	1 190	0.26	58	**2KJ4605 - ■■■■■ - ■■ X1**
76.44	9.2	1 170	1.50	74	6.5	1 310	1.20	74	1.3	1 220	0.28	60	**2KJ4605 - ■■■■■ - ■■ W1**
65.00	10.8	1 100	1.70	74	7.7	1 230	1.30	74	1.5	1 270	0.32	62	**2KJ4605 - ■■■■■ - ■■ V1**
55.61	12.6	1 540	2.30	90	9.0	1 510	1.60	88	1.8	1 290	0.33	75	**2KJ4605 - ■■■■■ - ■■ U1**
50.00	14.0	1 540	2.50	90	10.0	1 530	1.80	88	2.0	1 430	0.40	75	**2KJ4605 - ■■■■■ - ■■ T1**
45.22	15.5	1 550	2.80	90	11.1	1 530	2.00	89	2.2	1 430	0.43	76	**2KJ4605 - ■■■■■ - ■■ S1**
41.74	16.8	1 550	3.00	90	12.0	1 540	2.20	89	2.4	1 450	0.48	77	**2KJ4605 - ■■■■■ - ■■ R1**
38.24	18.3	1 560	3.30	90	13.1	1 540	2.40	90	2.6	1 450	0.51	77	**2KJ4605 - ■■■■■ - ■■ Q1**
32.08	22	1 560	4.00	91	15.6	1 550	2.80	90	3.1	1 390	0.57	79	**2KJ4605 - ■■■■■ - ■■ P1**
30.20	23	1 510	4.00	91	16.6	1 550	3.00	90	3.3	1 460	0.64	79	**2KJ4605 - ■■■■■ - ■■ N1**
27.70	25	1 460	4.20	91	18.1	1 560	3.30	91	3.6	1 470	0.69	80	**2KJ4605 - ■■■■■ - ■■ M1**
25.03	28	1 090	3.50	93	20	1 080	2.50	92	4.0	990	0.50	84	**2KJ4605 - ■■■■■ - ■■ L1**
21.00	33	1 070	4.00	93	24	1 070	2.90	92	4.8	985	0.59	85	**2KJ4605 - ■■■■■ - ■■ K1**
19.76	35	1 120	4.50	93	25	1 120	3.20	92	5.1	1 030	0.65	85	**2KJ4605 - ■■■■■ - ■■ J1**
18.13	39	1 110	4.90	93	28	1 110	3.50	92	5.5	1 030	0.70	85	**2KJ4605 - ■■■■■ - ■■ H1**
15.84	44	1 140	5.70	93	32	1 130	4.10	93	6.3	1 050	0.81	86	**2KJ4605 - ■■■■■ - ■■ G1**
14.18	49	1 150	6.40	93	35	1 140	4.50	93	7.1	1 070	0.92	87	**2KJ4605 - ■■■■■ - ■■ F1**
12.40	56	1 140	7.30	93	40	1 140	5.20	93	8.1	1 080	1.00	88	**2KJ4605 - ■■■■■ - ■■ E1**
10.64	66	1 150	8.50	93	47	1 140	6.10	93	9.4	1 090	1.20	88	**2KJ4605 - ■■■■■ - ■■ D1**
9.41	74	1 120	9.4*	93	53	1 120	6.70	93	10.6	1 070	1.30	89	**2KJ4605 - ■■■■■ - ■■ C1**
8.00	88	1 120	11.2*	93	62	1 130	7.90	93	12.5	1 090	1.60	90	**2KJ4605 - ■■■■■ - ■■ B1**
6.86	102	1 060	12.3*	93	73	1 110	9.20	93	14.6	1 090	1.80	91	**2KJ4605 - ■■■■■ - ■■ A1**

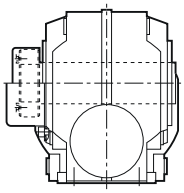
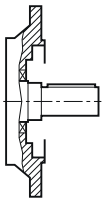
* $P_{mot\ max}$ = 9.2 kW

Dimensional drawing overview

Information about dimensional drawings can be found in chapter Introduction on page 1/18.

Design	Size	Dimensional drawing on page
Foot-mounted design		
 G_D087_XX_00254	C..29	6/64
	C..39	6/68
	C..49	6/72
	C..69	6/76
	C..89	6/80
Flange-mounted design		
 G_D087_XX_00255	C.F.29	6/65
	C.F.39	6/69
	C.F.49	6/73
	C.F.69	6/77
	C.F.89	6/81
Housing flange design		
 G_D087_XX_00256	C.Z.29	6/66
	C.Z.39	6/70
	C.Z.49	6/74
	C.Z.69	6/78
	C.Z.89	6/82
Shaft-mounted design		
 G_D087_XX_00257	CAD.29	6/67
	CAD.39	6/71
	CAD.49	6/75
	CAD.69	6/79
	CAD.89	6/83
Helical worm tandem geared motors		
	C.29-D/Z19 ... C.89-D/Z39	6/84

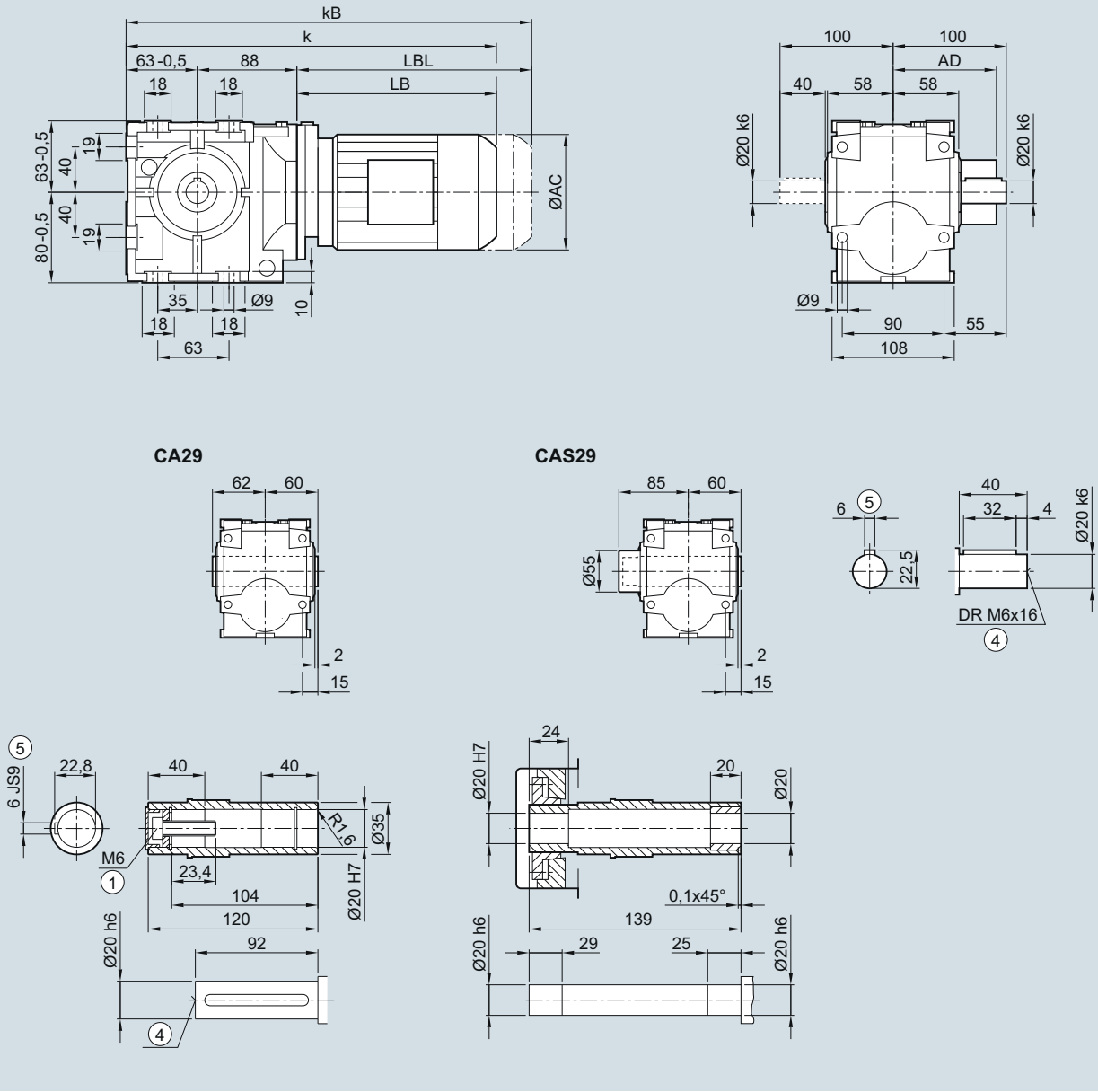
Dimensional drawing overview (continued)

Design	Size	Dimensional drawing on page
Additional versions and options		
Protection covers		
	CA.29 ... CA.89 CA.S29 ... CA.S89 CADR29 ... CADR89	6/85
Inner contour of the flange design		
	CF29 ... CF89 CAF.29 ... CAF.89	6/86

C..29 gearbox in a foot-mounted design

C030, CA030, CAS030

C29



Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S
AC	118.0	139.0	154.5	174.0	174.0
AD[2)]	110.0	120.0	145.5	155.5	155.5
k	363.5	385.0	436.5	497.5	472.5
kB	408.5	440.0	496.5	567.5	542.5
LB	212.5	234.0	285.5	346.5	321.5
LBL	257.5	289.0	345.5	416.5	391.5

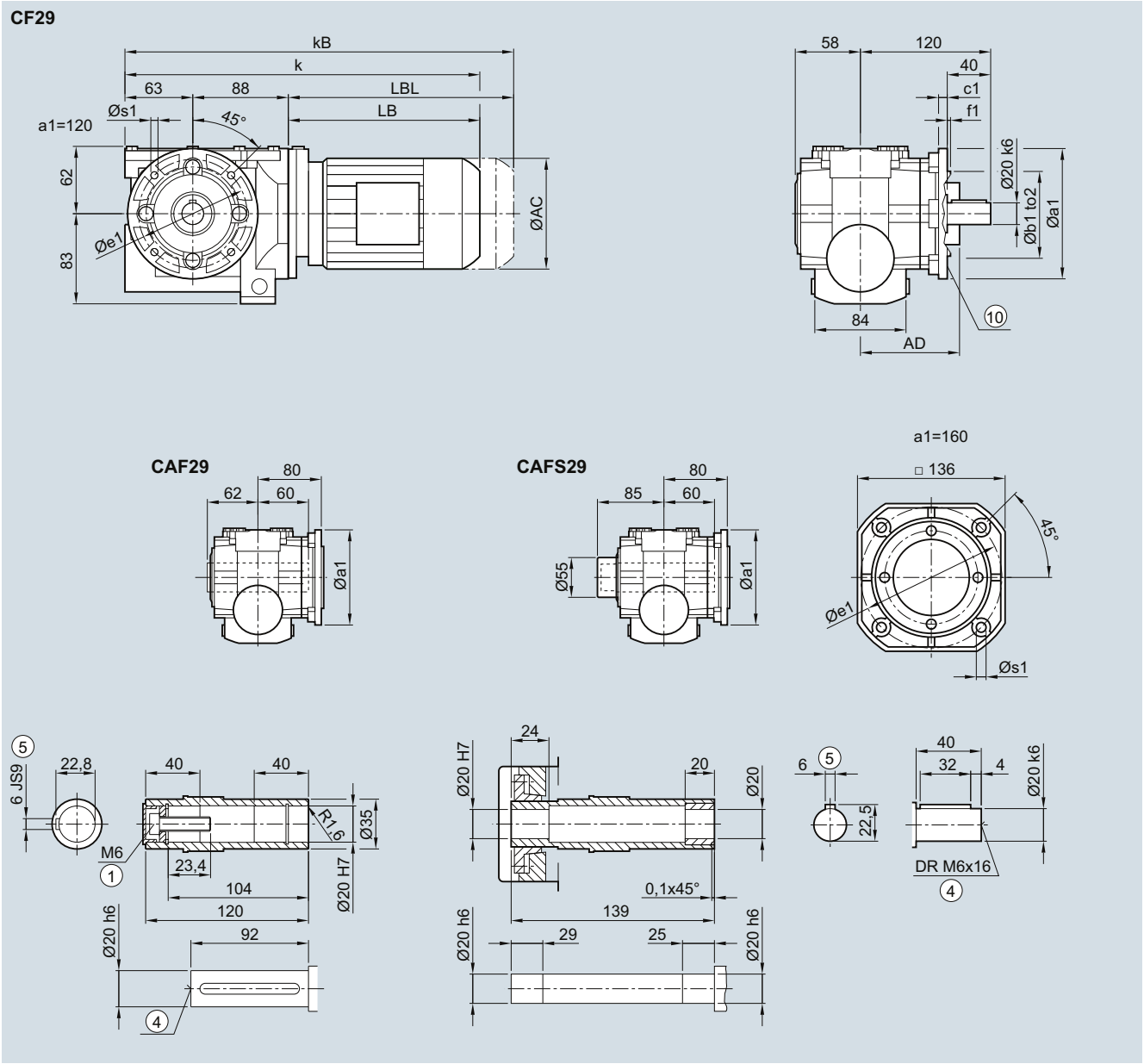
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C.F.29 gearbox in a flange-mounted design

CF030, CAF030, CAFS030



Flange	a1	b1	c1	f1	e1	s1	to2
	120	80	8	3.0	100	6.6	j6
	160	110	9	3.5	130	9.0	j6

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S
AC	118.0	139.0	154.5	174.0	174.0
AD[2)]	110.0	120.0	145.5	155.5	155.5
k	363.5	385.0	436.5	497.5	472.5
kB	408.5	440.0	496.5	567.5	542.5
LB	212.5	234.0	285.5	346.5	321.5
LBL	257.5	289.0	345.5	416.5	391.5

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour see page 6/86.

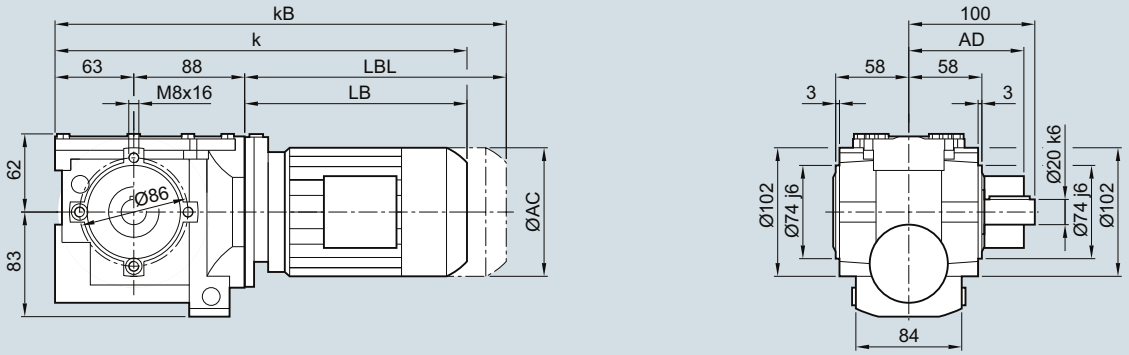
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

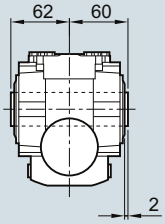
C.Z.29 gearbox in a housing flange design

CZ030, CAZ030, CAZS030

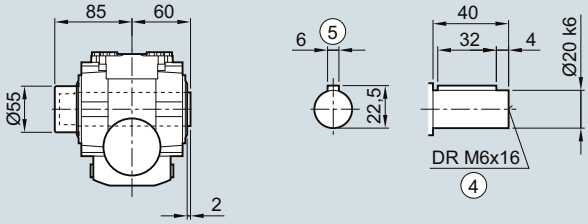
CZ29

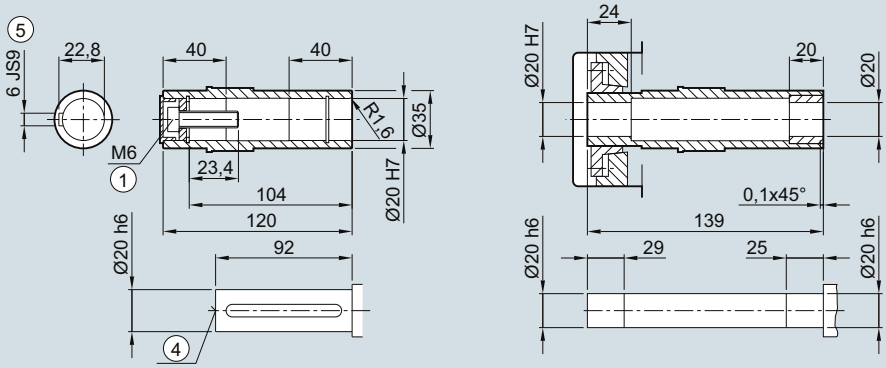


CAZ29



CAZS29





Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S
AC	118.0	139.0	154.5	174.0	174.0
AD[2)]	110.0	120.0	145.5	155.5	155.5
k	363.5	385.0	436.5	497.5	472.5
kB	408.5	440.0	496.5	567.5	542.5
LB	212.5	234.0	285.5	346.5	321.5
LBL	257.5	289.0	345.5	416.5	391.5

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1

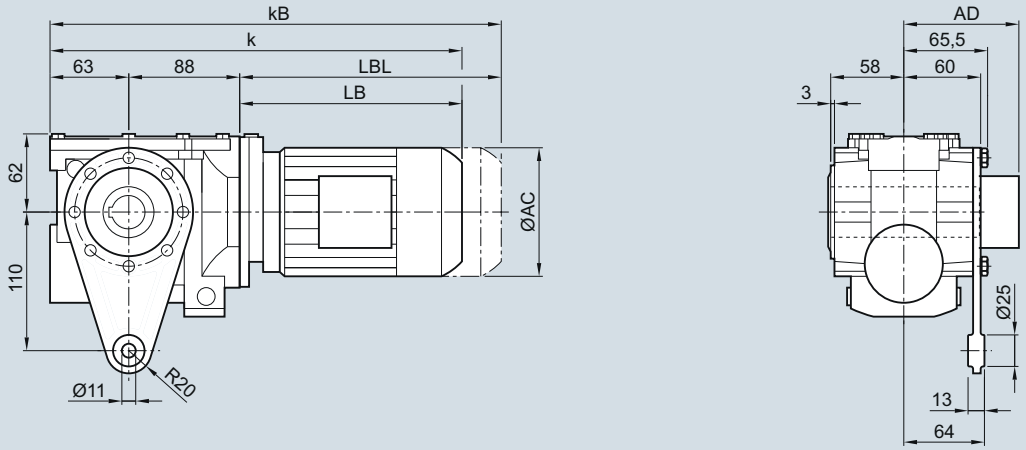
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

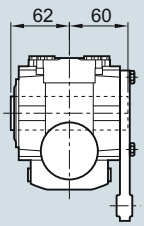
CAD.29 gearbox in a shaft-mounted design

CAD030, CADS030

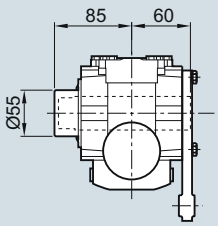
CAD29

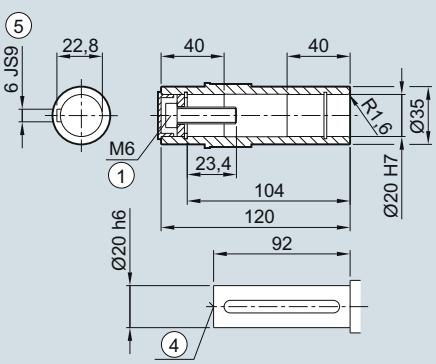


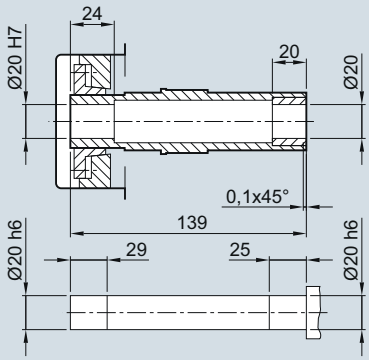
CAD29



CADS29







Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S
AC	118.0	139.0	154.5	174.0	174.0
AD[2)]	110.0	120.0	145.5	155.5	155.5
k	363.5	385.0	436.5	497.5	472.5
kB	408.5	440.0	496.5	567.5	542.5
LB	212.5	234.0	285.5	346.5	321.5
LBL	257.5	289.0	345.5	416.5	391.5

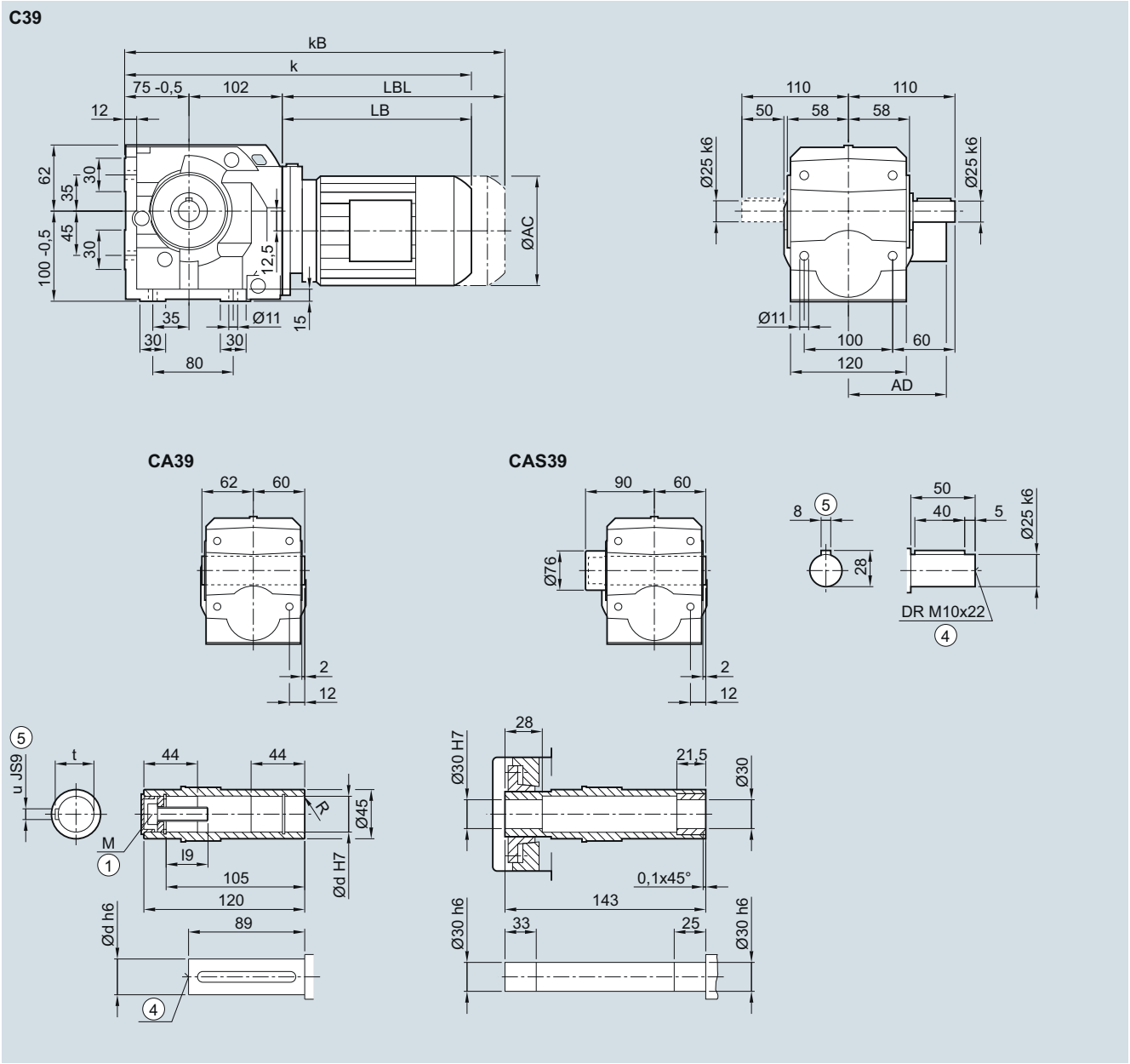
① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C..39 gearbox in a foot-mounted design

C030, CA030, CAS030



Shaft	d	l9	M	R	t	u
	25	32.6	M10	1.6	28.3	8
	30	32.6	M10	3.0	33.3	8

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	389.5	411.0	462.5	523.5	498.5	600.5
kB	434.5	466.0	522.5	593.5	568.5	679.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

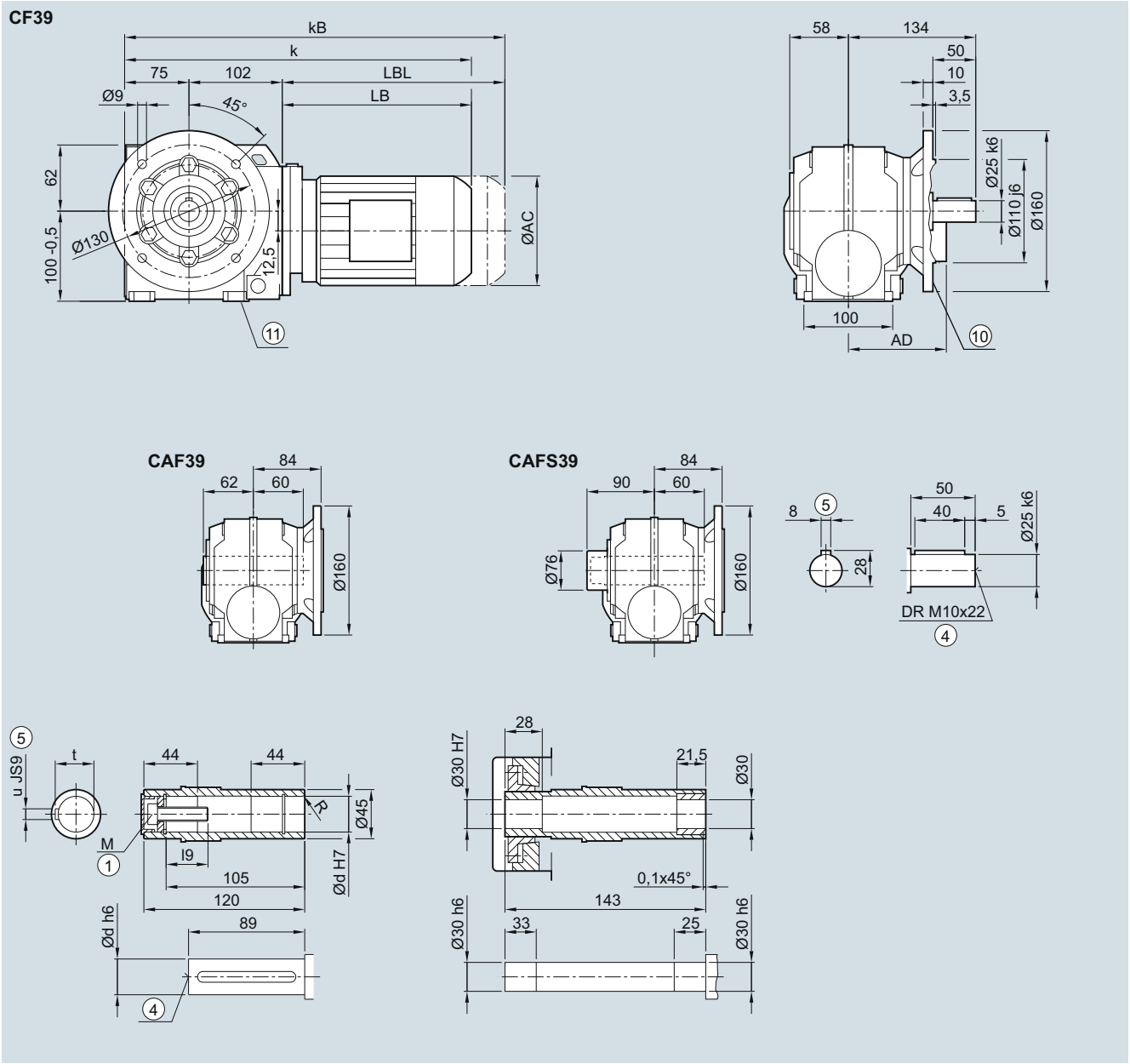
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C.F.39 gearbox in a flange-mounted design

CF030, CAF030, CAFS030

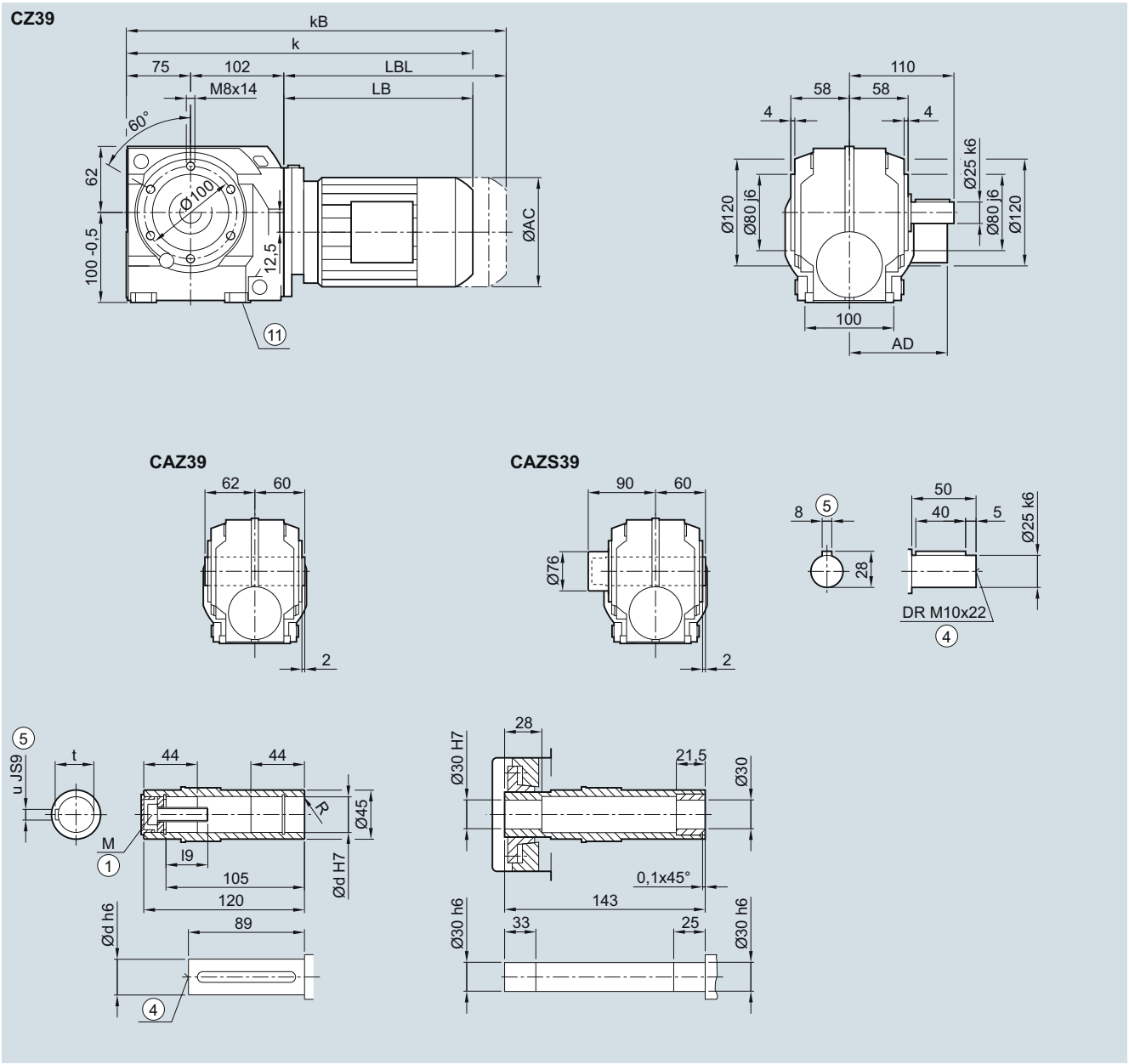


Shaft	d	l9	M	R	t	u
	25	32.6	M10	1.6	28.3	8
	30	32.6	M10	3.0	33.3	8
Motor[1)]	**LHN63**	**LHN71**	**LEN80M**	**LEN90L**	**LEN90S**	**LEN100L**
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	389.5	411.0	462.5	523.5	498.5	600.5
kB	434.5	466.0	522.5	593.5	568.5	679.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑩ For inner contour see page 6/86
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

C.Z.39 gearbox in a housing flange design

CZ030, CAZ030, CAZS030



Shaft	d	l9	M	R	t	u
	25	32.6	M10	1.6	28.3	8
	30	32.6	M10	3.0	33.3	8

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	389.5	411.0	462.5	523.5	498.5	600.5
kB	434.5	466.0	522.5	593.5	568.5	679.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

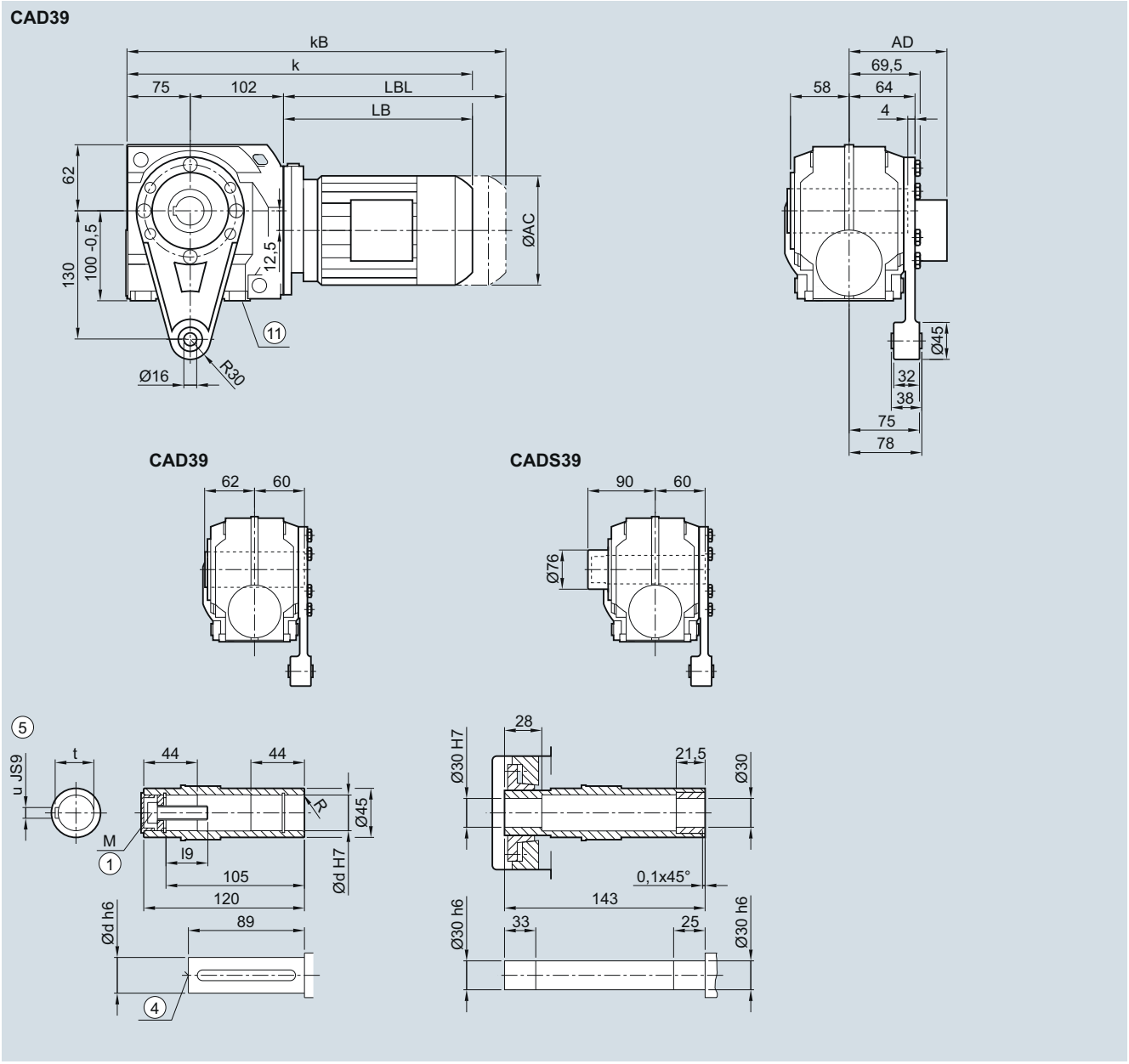
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

CAD.39 gearbox in a shaft-mounted design

CAD030, CADS030



Shaft	d	l9	M	R	t	u
	25	32.6	M10	1.6	28.3	8
	30	32.6	M10	3.0	33.3	8

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L
AC	118.0	139.0	154.5	174.0	174.0	197.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5
k	389.5	411.0	462.5	523.5	498.5	600.5
kB	434.5	466.0	522.5	593.5	568.5	679.0
LB	212.5	234.0	285.5	346.5	321.5	423.5
LBL	257.5	289.0	345.5	416.5	391.5	502.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

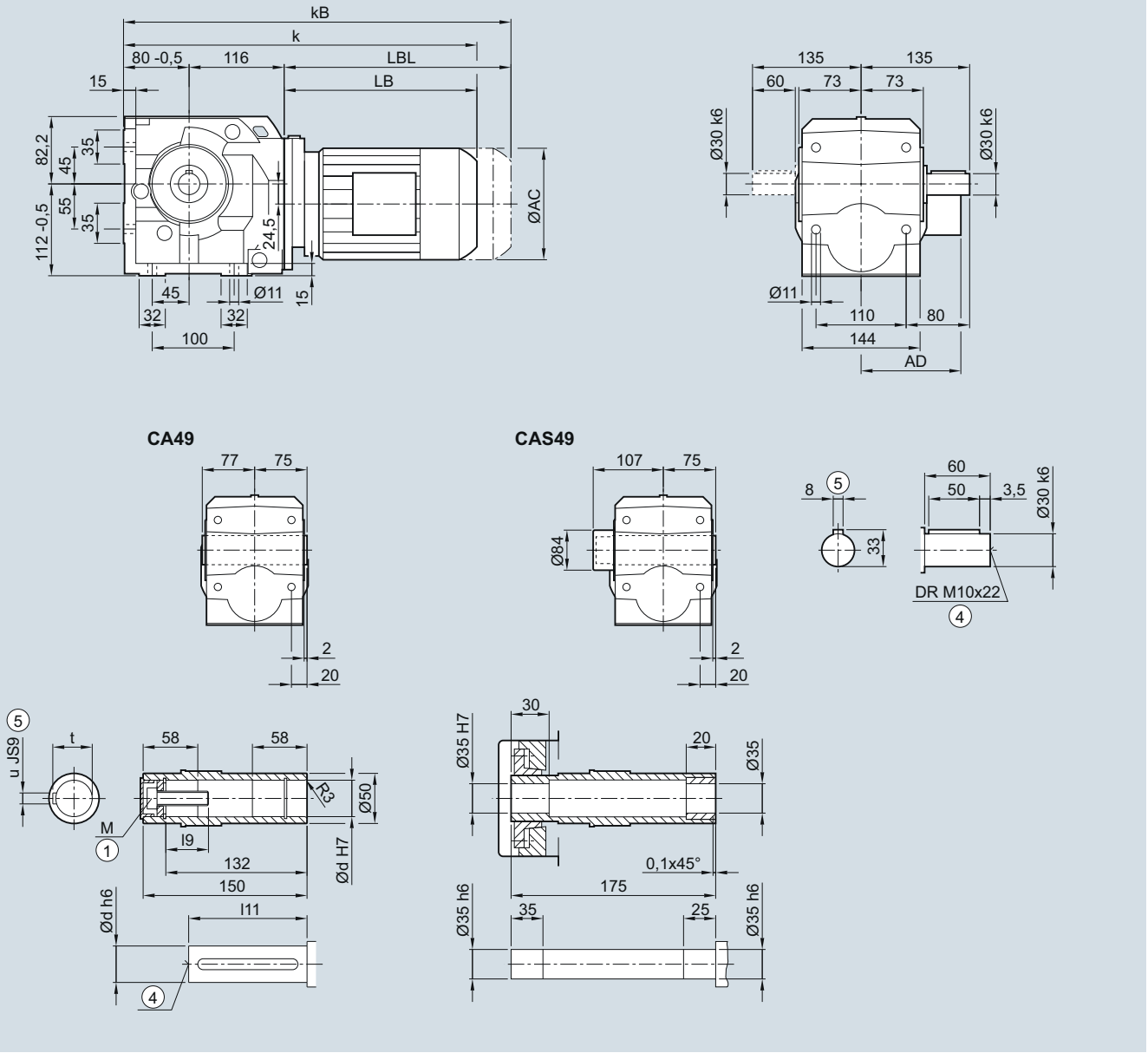
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C..49 gearbox in a foot-mounted design

C030, CA030, CAS030

C49



Shaft	d	l9	l11	M	t	u
	30	32.6	114	M10	33.3	8
	35	42	116	M12	38.3	10

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	399.0	420.5	472.0	533.0	508.0	610.0	629.5
kB	444.0	475.5	532.0	603.0	578.0	688.5	702.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5

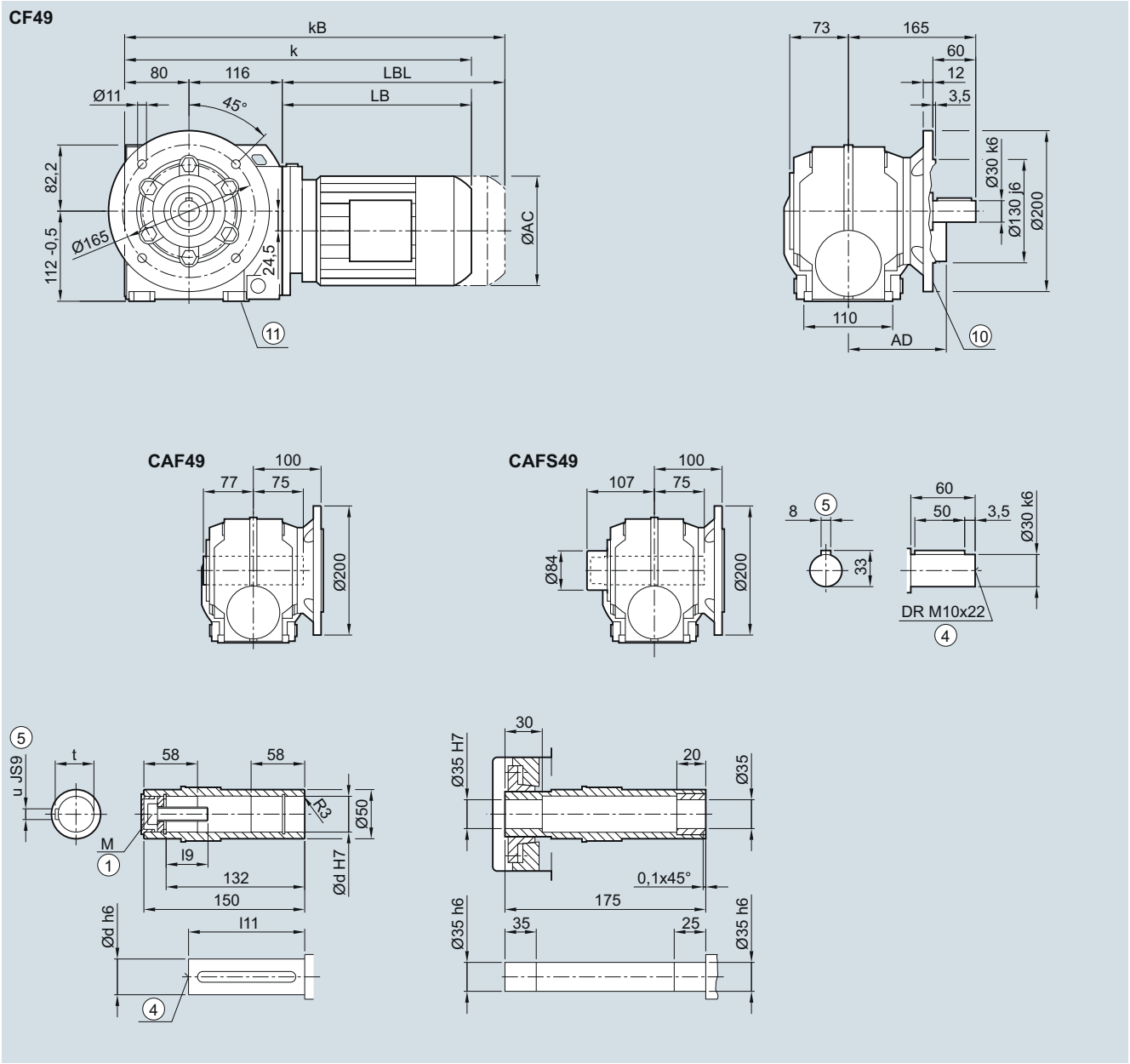
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C.F.49 gearbox in a flange-mounted design

CF030, CAF030, CAFS030



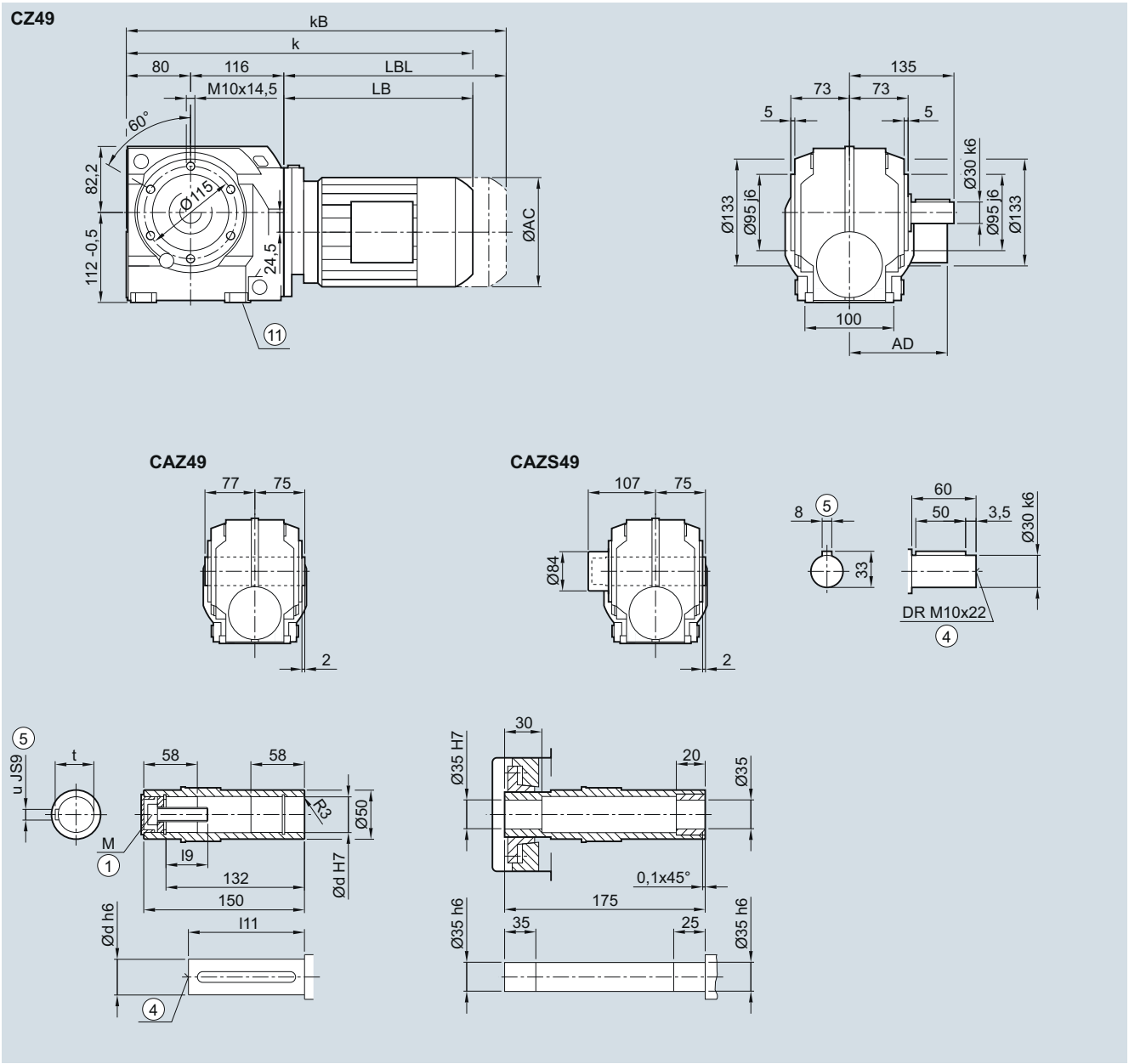
Shaft	d	l9	l11	M	t	u
	30	32.6	114	M10	33.3	8
	35	42	116	M12	38.3	10

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	399.0	420.5	472.0	533.0	508.0	610.0	629.5
kB	444.0	475.5	532.0	603.0	578.0	688.5	702.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑩ For inner contour see page 6/86
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

C.Z.49 gearbox in a housing flange design

CZ030, CAZ030, CAZS030



Shaft	d	l9	l11	M	t	u
	30	32.6	114	M10	33.3	8
	35	42	116	M12	38.3	10

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	399.0	420.5	472.0	533.0	508.0	610.0	629.5
kB	444.0	475.5	532.0	603.0	578.0	688.5	702.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5

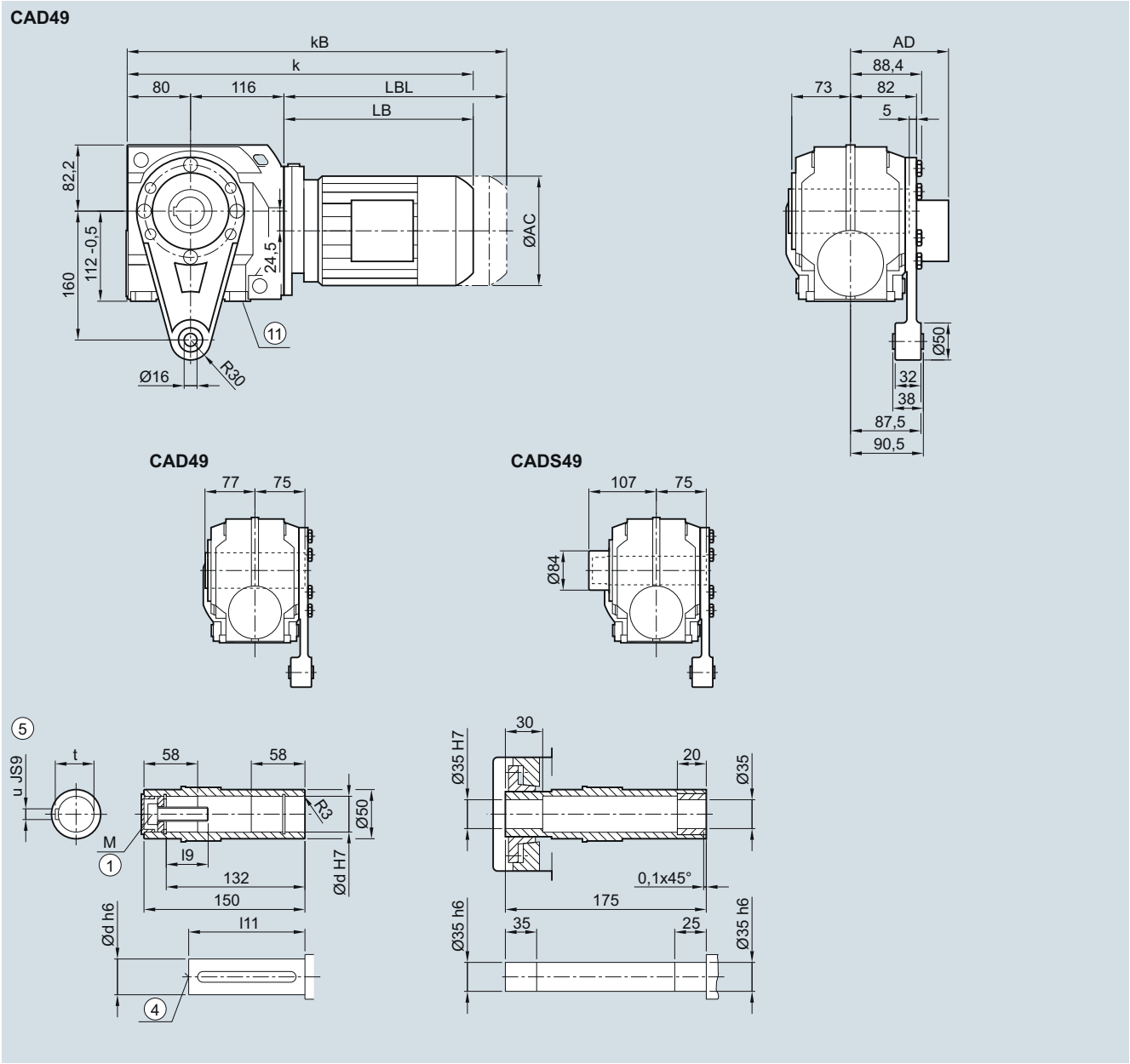
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

CAD.49 gearbox in a shaft-mounted design

CAD030, CADS030



Shaft	d	l9	l11	M	t	u
	30	32.6	114	M10	33.3	8
	35	42	116	M12	38.3	10

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	399.0	420.5	472.0	533.0	508.0	610.0	629.5
kB	444.0	475.5	532.0	603.0	578.0	688.5	702.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5

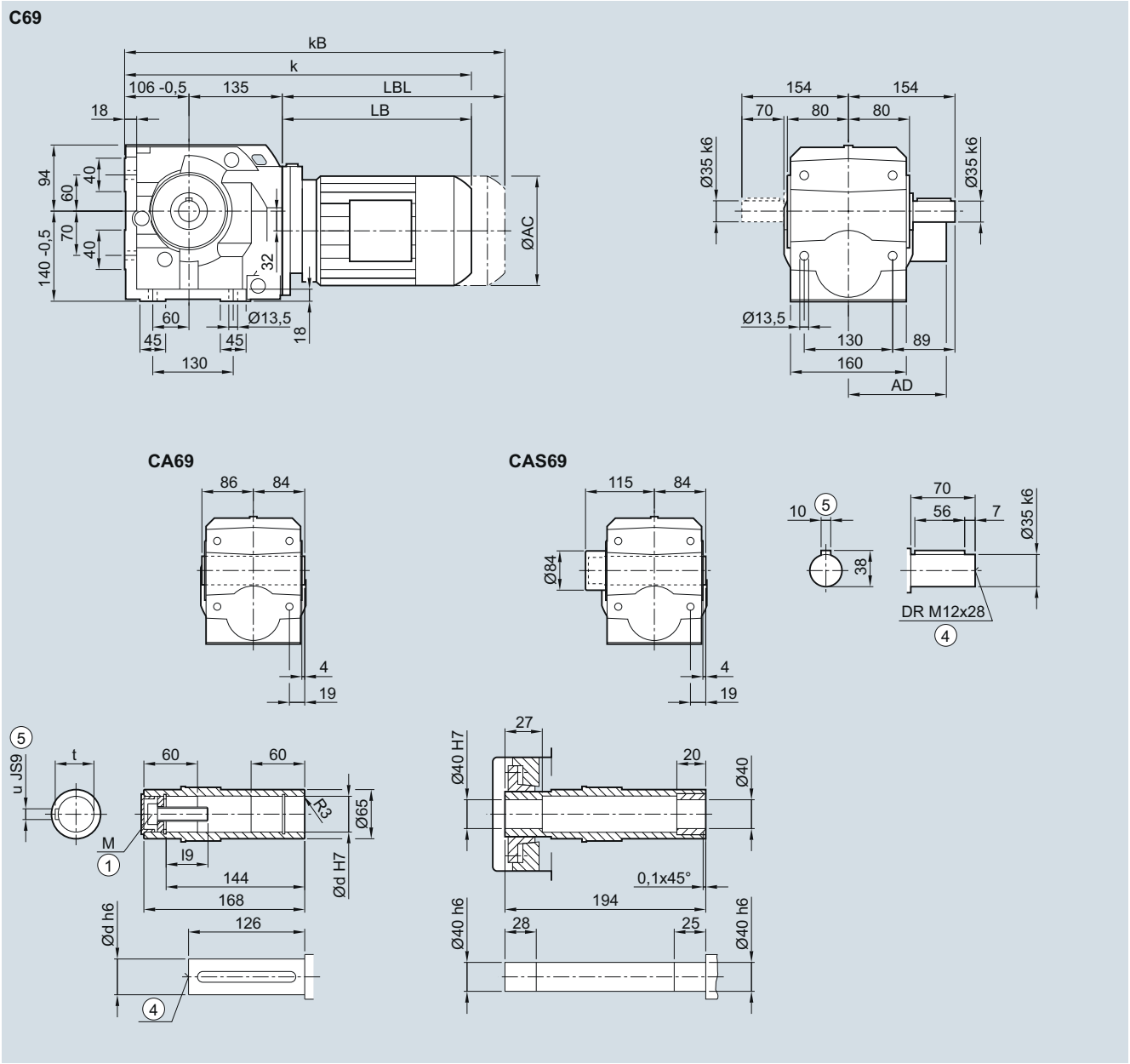
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C..69 gearbox in a foot-mounted design

C030, CA030, CAS030



Shaft	d	l9	M	t	u
	40	47.75	M16	43.3	12
	45	48.75	M16	48.8	14

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0
k	399.0	420.5	472.0	533.0	508.0	610.0	629.5
kB	444.0	475.5	532.0	603.0	578.0	688.5	702.5
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5

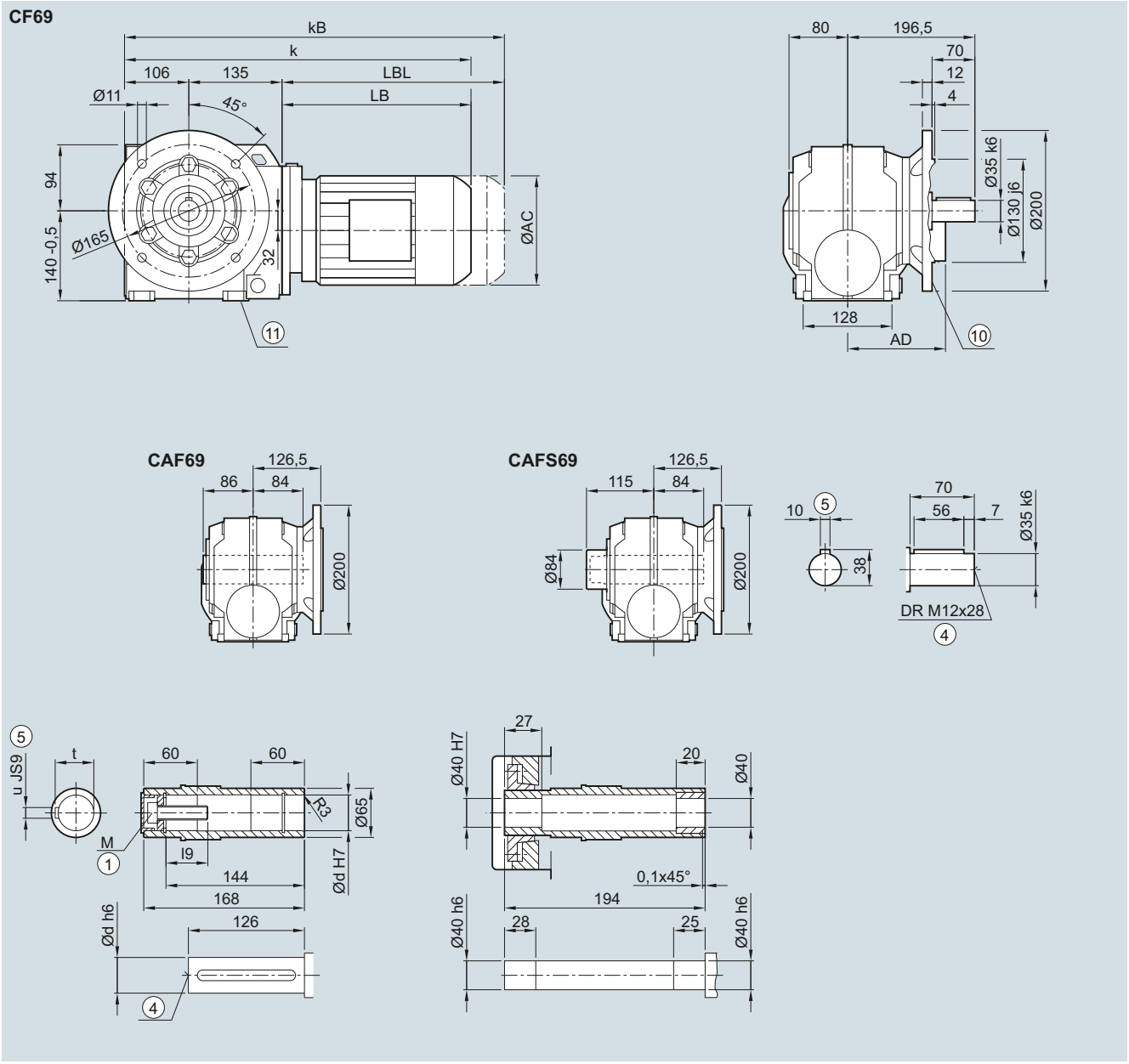
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C.F.69 gearbox in a flange-mounted design

CF030, CAF030, CAFS030



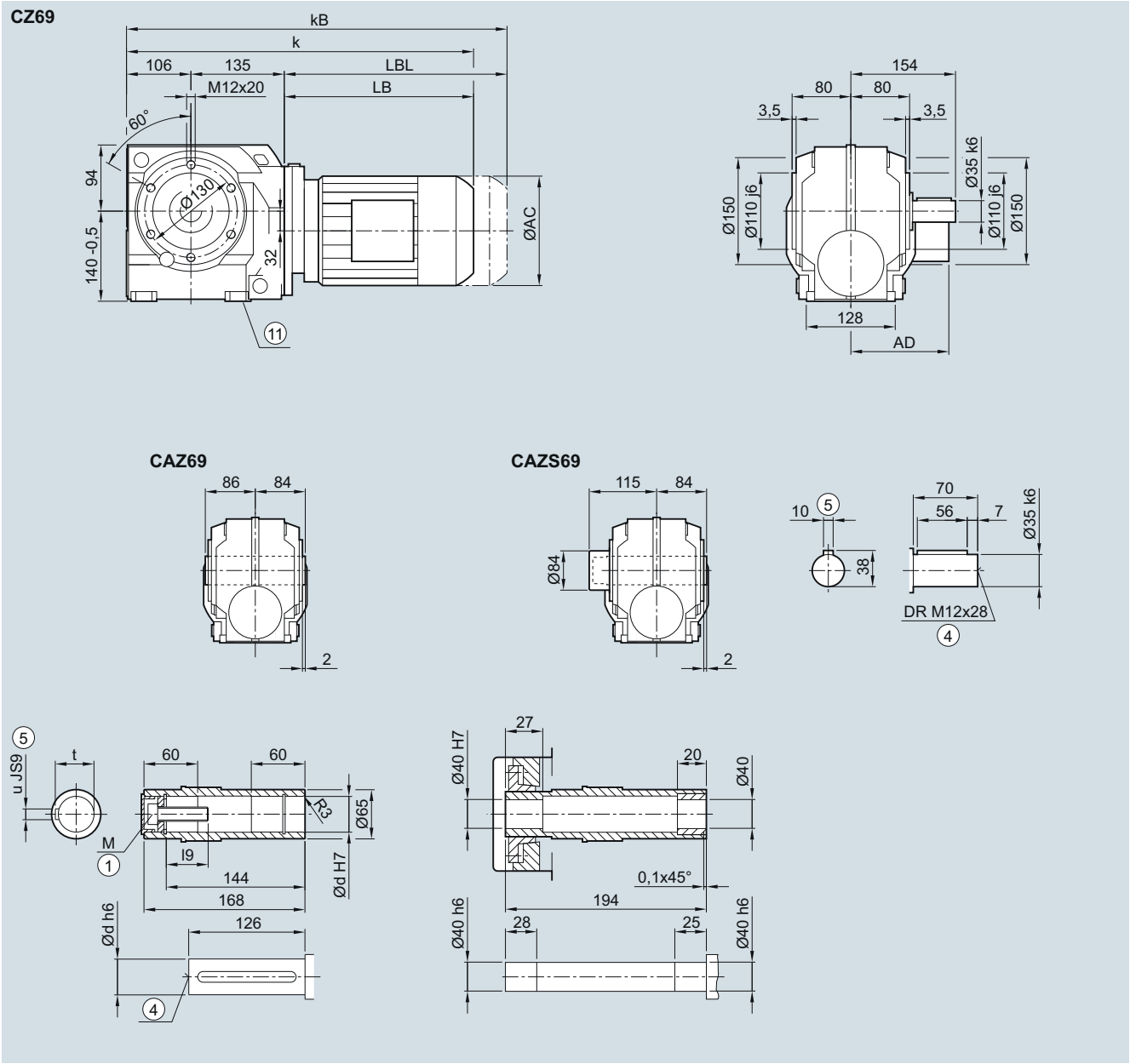
Shaft	d	l9	M	t	u
	40	47.75	M16	43.3	12
	45	48.75	M16	48.8	14

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	444.0	465.5	517.0	578.0	553.0	655.0	674.5	718.5	763.5
kB	489.0	520.5	577.0	648.0	623.0	733.5	747.5	823.0	868.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour see page 6/86
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
1) AD depends on the motor options, for other dimensions see page 7/20.

C.Z.69 gearbox in a housing flange design

CZ030, CAZ030, CAZS030



Shaft	d	l9	M	t	u
	40	47.75	M16	43.3	12
	45	48.75	M16	48.8	14

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	444.0	465.5	517.0	578.0	553.0	655.0	674.5	718.5	763.5
kB	489.0	520.5	577.0	648.0	623.0	733.5	747.5	823.0	868.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

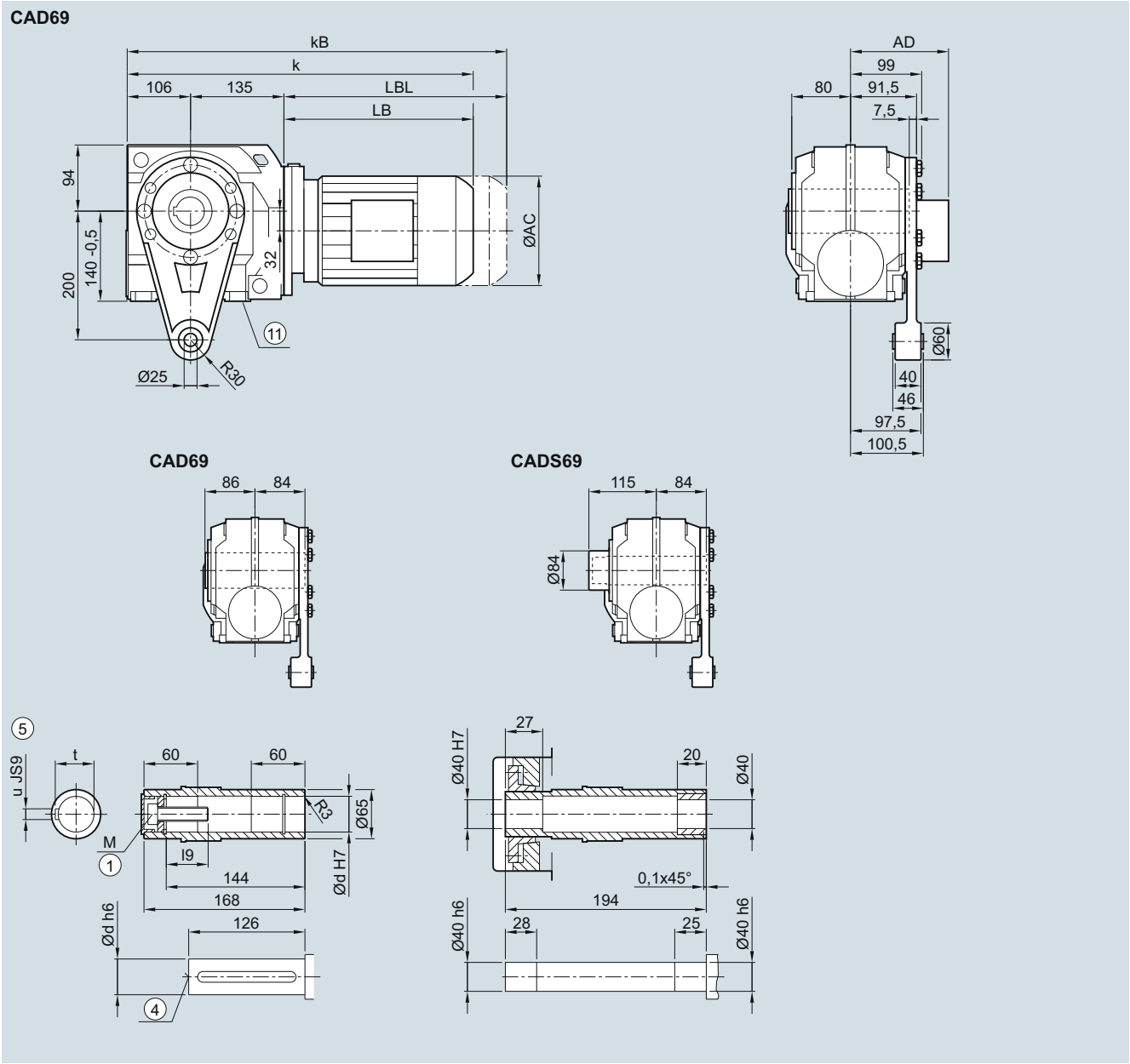
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

CAD.69 gearbox in a shaft-mounted design

CAD030, CADS030



Shaft	d	l9	M	t	u
	40	47.75	M16	43.3	12
	45	48.75	M16	48.8	14

Motor[1)]	LHN63	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	118.0	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	110.0	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	444.0	465.5	517.0	578.0	553.0	655.0	674.5	718.5	763.5
kB	489.0	520.5	577.0	648.0	623.0	733.5	747.5	823.0	868.0
LB	203.0	224.5	276.0	337.0	312.0	414.0	433.5	477.5	522.5
LBL	248.0	279.5	336.0	407.0	382.0	492.5	506.5	582.0	627.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

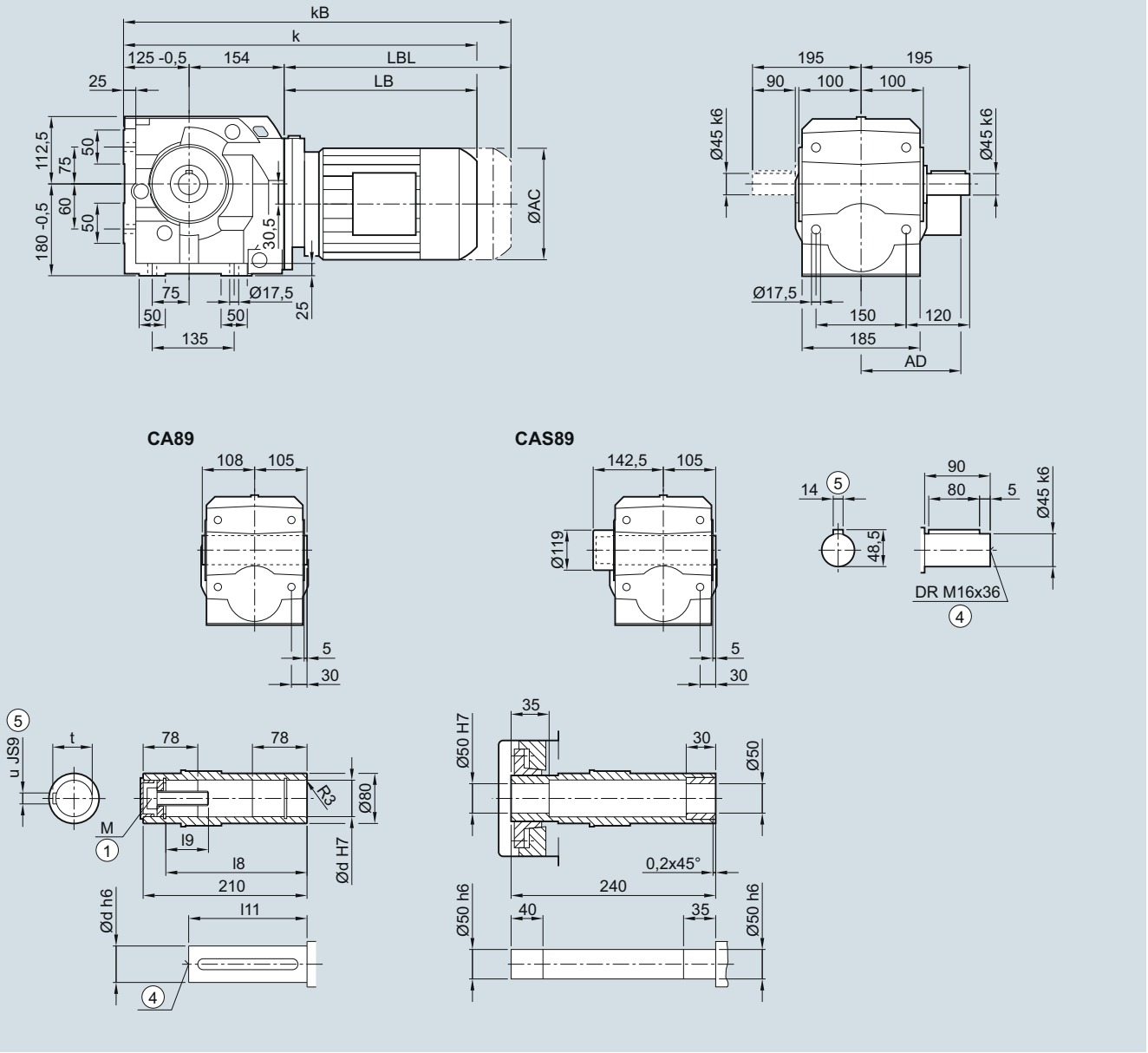
1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C..89 gearbox in a foot-mounted design

C030, CA030, CAS030

C89



Shaft	d	l8	l9	l11	M	t	u
	50	183	44.5	165	M16	53.8	14
	60	180	57	158	M20	64.4	18

Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	501.5	549.0	610.0	585.0	687.0	706.5	750.5	795.5
kB	556.5	609.0	680.0	655.0	765.5	779.5	855.0	900.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0

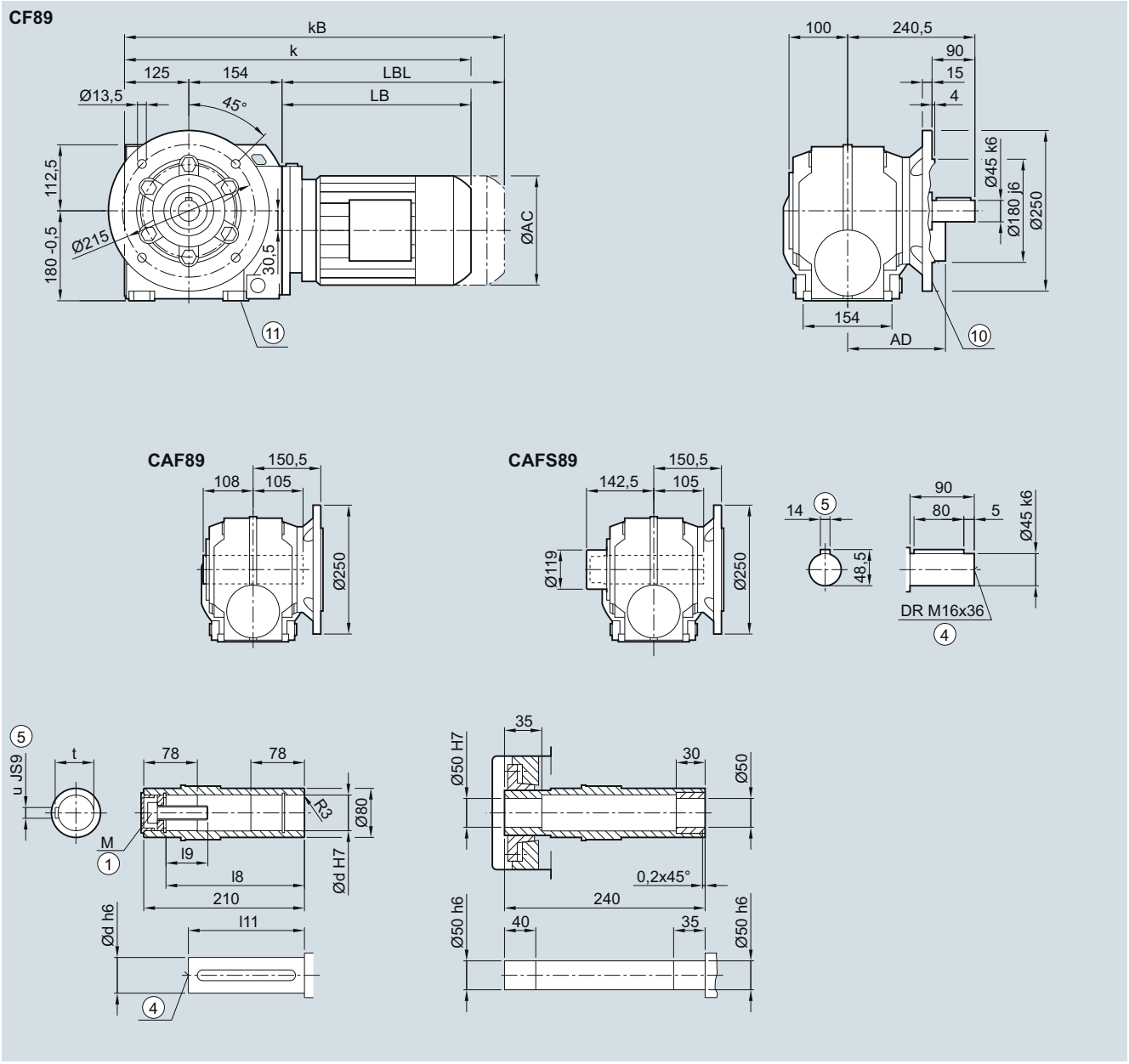
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

C.F.89 gearbox in a flange-mounted design

CF030, CAF030, CAFS030



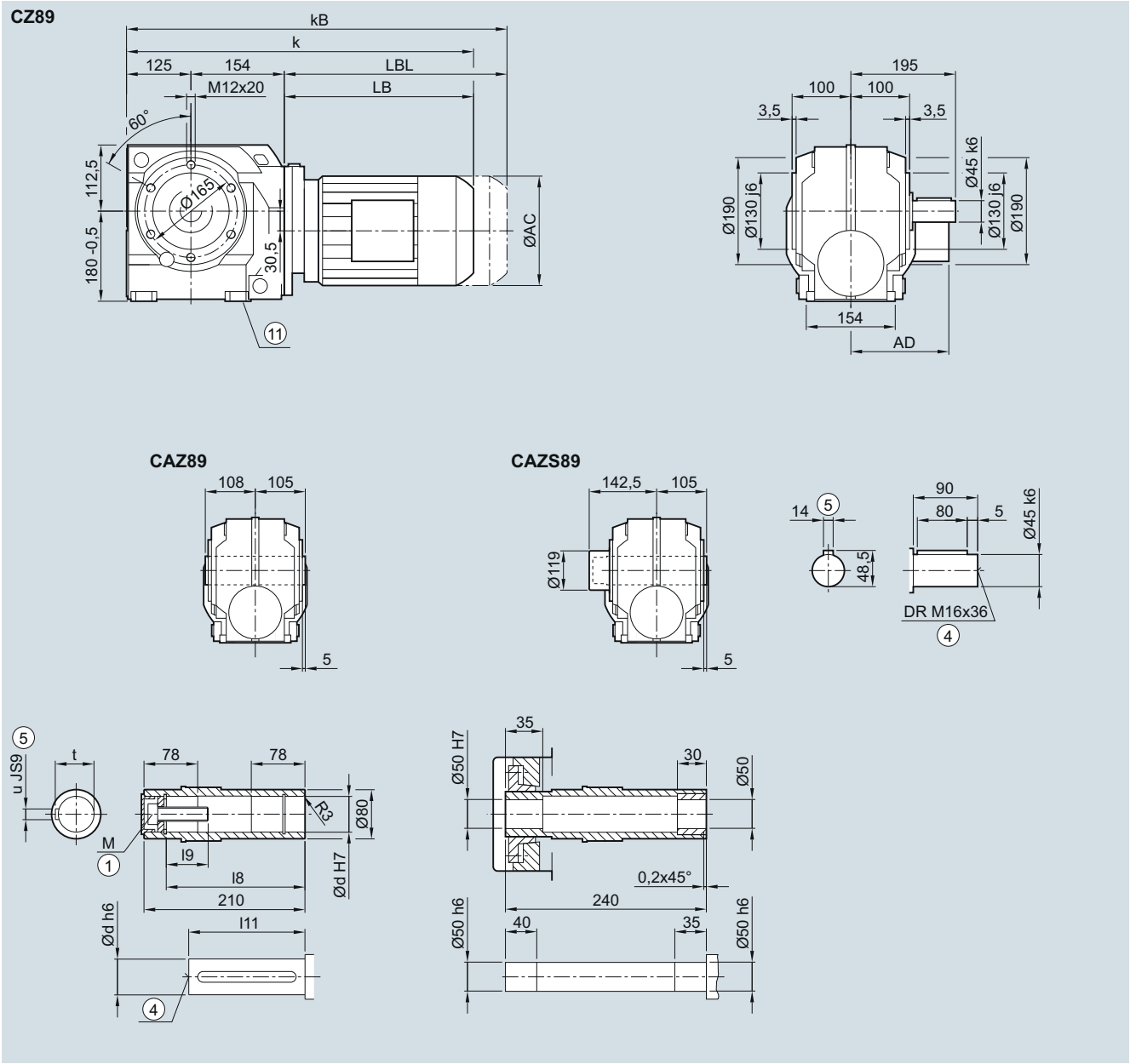
Shaft	d	l8	l9	l11	M	t	u
	50	183	44.5	165	M16	53.8	14
	60	180	57	158	M20	64.4	18

Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	501.5	549.0	610.0	585.0	687.0	706.5	750.5	795.5
kB	556.5	609.0	680.0	655.0	765.5	779.5	855.0	900.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑩ For inner contour see page 6/86
⑪ Use bores only for foot-mounted design
1) Dimensions for LHN(S3-75%), LEN(IE2)
2) AD depends on the motor options, for other dimensions see page 7/20.

C.Z.89 gearbox in a housing flange design

CZ030, CAZ030, CAZS030



Shaft	d	l8	l9	l11	M	t	u
	50	183	44.5	165	M16	53.8	14
	60	180	57	158	M20	64.4	18

Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	501.5	549.0	610.0	585.0	687.0	706.5	750.5	795.5
kB	556.5	609.0	680.0	655.0	765.5	779.5	855.0	900.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0

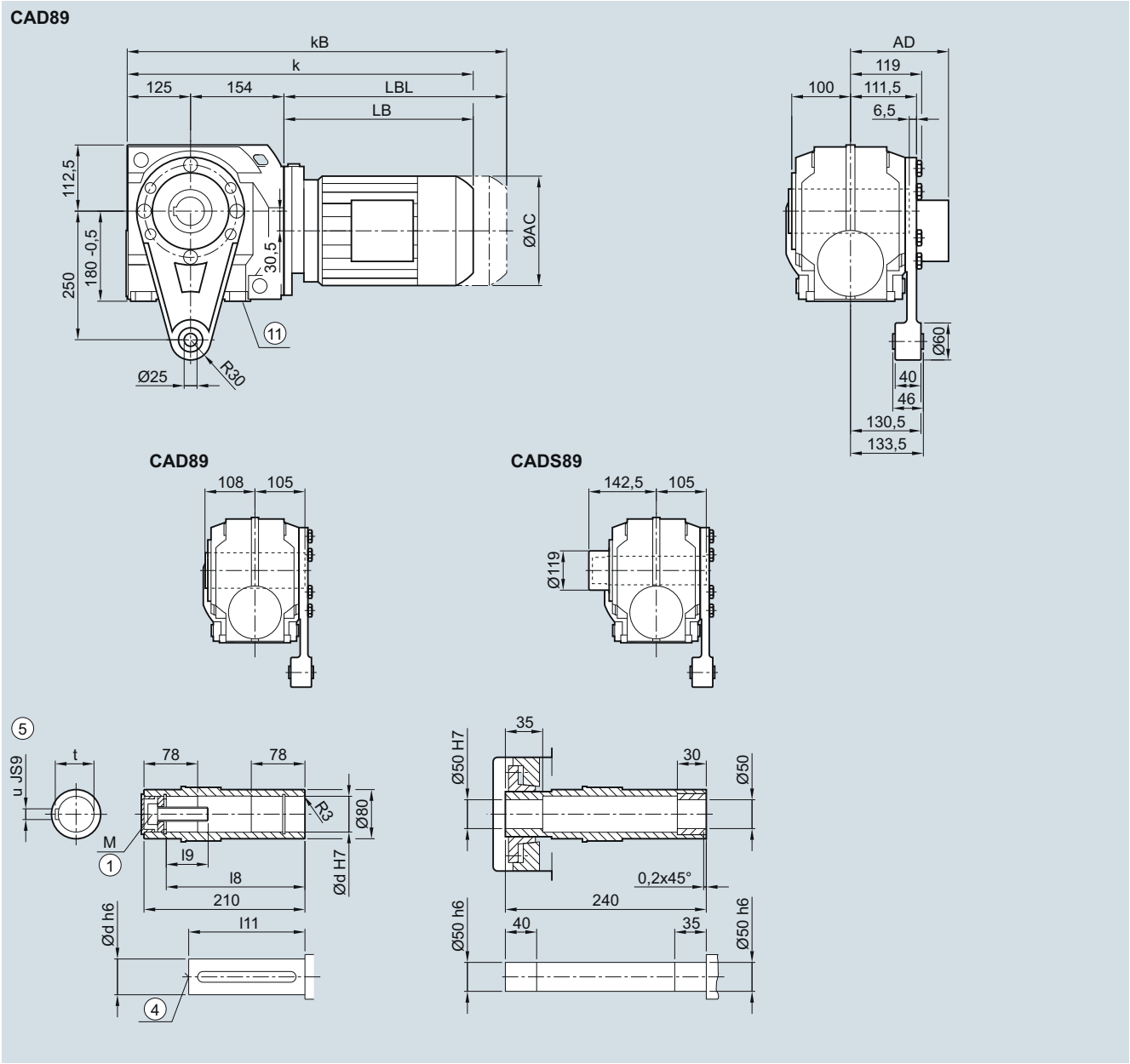
① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

CAD.89 gearbox in a shaft-mounted design

CAD030, CADS030



Shaft	d	l8	l9	l11	M	t	u
	50	183	44.5	165	M16	53.8	14
	60	180	57	158	M20	64.4	18

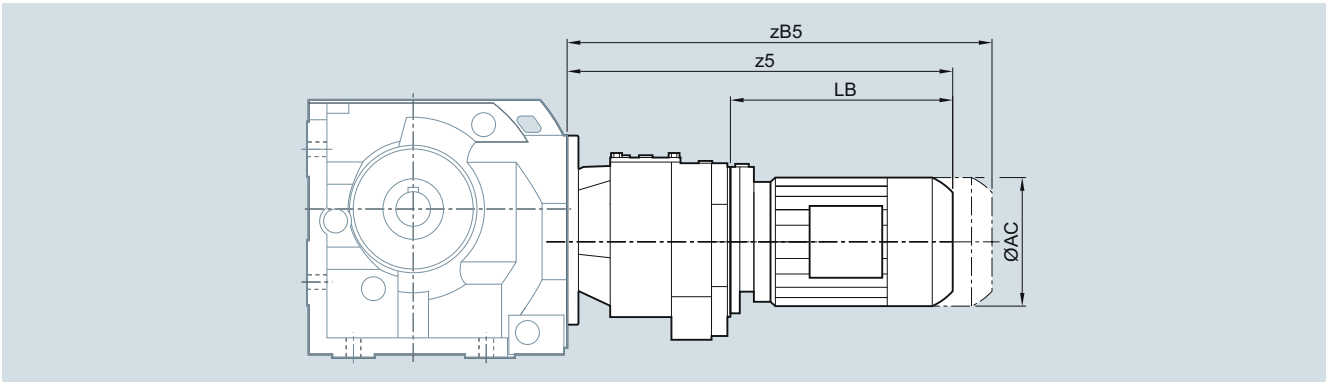
Motor[1)]	LHN71	LEN80M	LEN90L	LEN90S	LEN100L	LEN112M	LEN132S	LEN132M
AC	139.0	154.5	174.0	174.0	197.0	222.0	262.0	262.0
AD[2)]	120.0	145.5	155.5	155.5	175.5	190.0	213.0	213.0
k	501.5	549.0	610.0	585.0	687.0	706.5	750.5	795.5
kB	556.5	609.0	680.0	655.0	765.5	779.5	855.0	900.0
LB	222.5	270.0	331.0	306.0	408.0	427.5	471.5	516.5
LBL	277.5	330.0	401.0	376.0	486.5	500.5	576.0	621.0

① ISO 4014 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

1) Dimensions for LHN(S3-75%), LEN(IE2)

2) AD depends on the motor options, for other dimensions see page 7/20.

Helical worm tandem geared motors



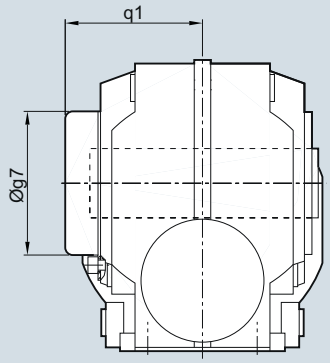
Gearbox	Motor[1)]	AC	z5	zB5	LB
C.29-D/Z19	LHN63	118.0	349.5	394.5	179.0
C.39-D/Z19	LHN63	118.0	349.5	394.5	179.0
	LHN71	139.0	371.0	426.0	192.5
C.49-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
C.69-D/Z19	LHN63	118.0	340.5	385.5	179.0
	LHN71	139.0	362.0	417.0	192.5
	LEN80M	154.5	405.5	465.5	235.5
C.89-D/Z39	LHN63	118.0	392.0	437.0	212.5
	LHN71	139.0	413.5	468.5	234.0
	LEN80M	154.5	465.0	525.0	285.5
	LEN90L	174.0	526.0	596.0	346.5
	LEN90S	174.0	501.0	571.0	321.5
	LE90Z	173.8	571.0	641.0	391.5

1) Dimensions for LHN(S3-75%), LEN(IE2)

Protection covers

Protection cover for hollow shaft

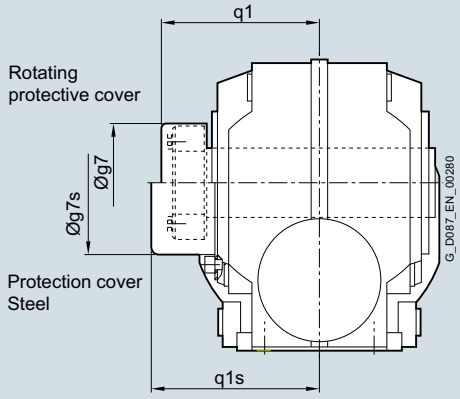
CAF, CAZ, CAD



Gearbox type	CA.29	CA.39	CA.49	CA.69	CA.89
Protection cover					
g7	67.0	82.5	80.0	99.0	137.0
q1	76.0	73.0	99.0	95.5	124.5

Protection covers for hollow shaft with shrink disk

CAS, CAFS, CAZS, CADS

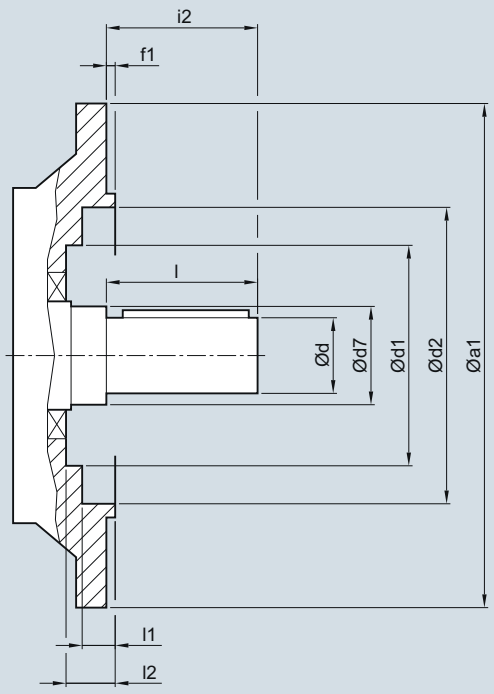


Gearbox type	CA.S29	CA.S39	CA.S49	CA.S69	CA.S89
Rotating protective cover with shrink disk version					
g7	55.0	76.0	84.0	84.0	94.0
q1	85.0	89.5	107.0	115.0	125.5
Protection cover					
g7s	58.0	82.5	86.0	99.0	137.0
q1s	91.0	109.0	122.0	126.5	176.5

Inner contour of the flange design

Notes regarding the design of the customer's interface for the solid shaft design

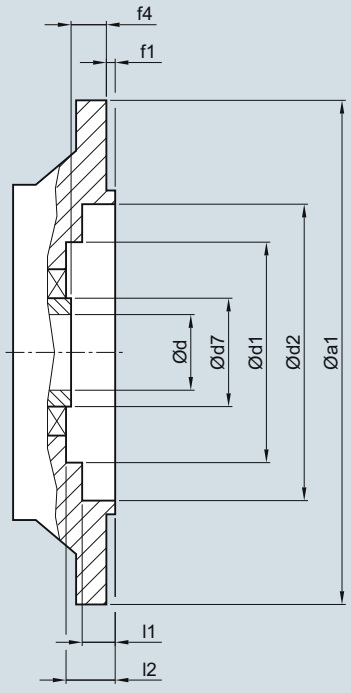
CF



Gearbox type	a1	d	d7	d1	d2	f1	i2	l	l1	l2
CF29	120	20	40	-	70	3.0	40	40	24.0	-
	160			70	101	3.5			8.5	24.5
CF39	160	25	30	-	100	3.5	50	50	5.0	-
CF49	200	30	35	-	118	3.5	60	60	5.5	-
CF69	200	35	45	105	120	4.0	70	70	4.5	48.0
CF89	250	45	70	134	165	4.0	90	90	6.5	53.0

Notes regarding the design of the customer's interface for the hollow shaft design

CAF.



Gearbox type	a1	d	d7	d1	d2	f1	f4	l1	l2
CAF.29	120	20	35	-	70	3.0	23.0	24.0	-
	160			70	101	3.5		8.5	24.5
CAF.39	160	25	45	80	102	3.5	24.0	2.0	29.5
		30							
CAF.49	200	30	50	90	120	3.5	25.0	4.0	30.5
		35							
CAF.69	200	40	65	105	120	4.0	42.0	4.5	48.0
		45							
CAF.89	250	50	80	134	147	4	45.5	14.0	53.0
		60							



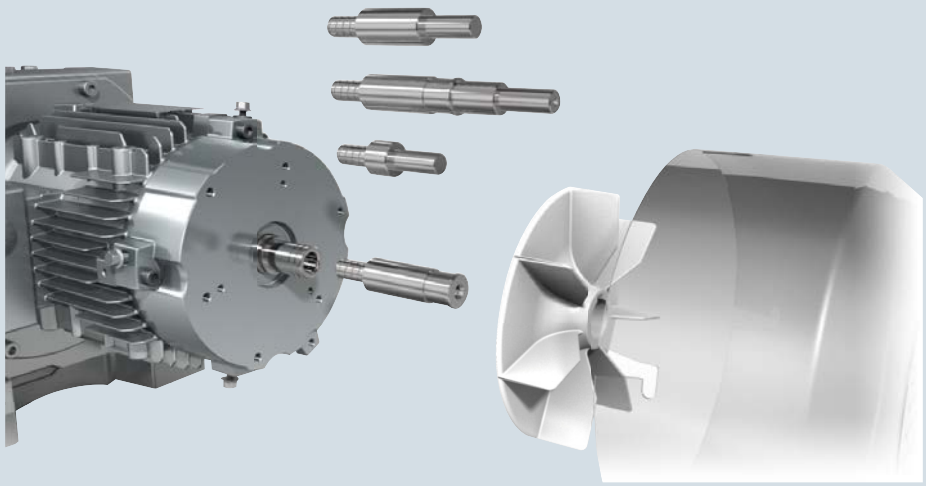
7/2 **Orientation**
7/2 MODULOG modular system
7/3 Technical specifications
7/5 EMC measures

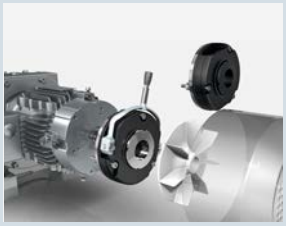
7/6 **LHN Motors**
Selection and ordering data
7/6 2/4/6-pole at 50 Hz/60Hz
7/10 2/4/6-pole at 50 Hz/60Hz(IE2)

7/12 **LEN Motors**
Selection and ordering data
7/12 2/4/6-pole at 50 Hz/60Hz(IE2)
7/16 2/4/6-pole at 50 Hz/60Hz(IE3)

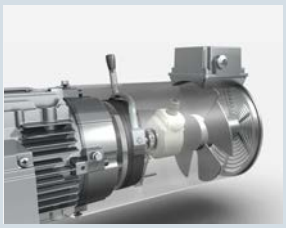
7/20 **Dimensions**
7/20 Motors
Additional lengths
7/32 Second shaft extension, handwheel, and canopy
7/32 Encoder
7/33 Separately driven fan, encoder, and canopy

Overview





Brake motor



Motor with forced ventilation

G_D087_EN_00158

The MODULOG modular system has a range of benefits for machine and plant designers.

The name MODULOG stands for a clear and transparent **modu**lar motor system with an optimum **log**istical structure. It enables users to assemble powerful, durable, and extremely easy-to-service motors from just a few standard components to create a customized motor system for most applications.

At the heart of the system is a basic motor dimensioned for international line supply conditions with an individually configurable MODULOG modular system at the non-drive end (NDE) of the motor.

Functional expansions, such as brakes, backstops, rotary encoders, separately driven fan, canopy, etc., can be combined almost arbitrarily as "additional functional components".

Overview

The motors comply with all applicable international (IEC), European (EN, CENELEC), and national (DIN/VDE) standards:

Motor type	Three-phase induction motors with squirrel cage rotor
Connection types	You can establish the connection type that can be used from the product number suffixes in the selection and ordering data for the required motor.
Number of poles	2, 4, 6, 8
Rated speed (synchronous speed)	1 000 … 3 600 rpm
Rated power (50 Hz)	0.09 … 55 kW (4-pole)
Rated torque	0.64 … 360 Nm (4-pole)
Stator winding insulation	Temperature class 155 (F) Utilization according to temperature class 130 (B) Optionally, temperature class 180 (H)
Degree of protection acc. to IEC 60034-5 (EN 60034-5)	IP55 Optional IP65, IP56
Cooling acc. to IEC 60034-6 (EN 60034-6)	Self-cooled (IC 411) Optionally, force ventilated (IC 416)
Coolant temperature	-20 … +40 °C
Installation altitude	Up to 1 000 m above sea level
Rated voltage	200 … 690 V You can establish the voltage that can be used from the selection and ordering data for the required motor.
Rated frequency	50 Hz, 60 Hz, 87 Hz
Vibration severity acc. to IEC 60034-14 (EN 60034-14)	Vibration severity A
Balancing type	Half-key balancing
Sound pressure level, sound power level acc. to IEC 60034-9 (EN 60034-9)	You can establish the corresponding sound pressure level and sound power level from the selection and ordering data for the required motor.
Weight	You can establish the corresponding weight from the selection and ordering data for the required motor.
Rating plates	See "Rating plate" in chapter "General options"
Connection and terminal boxes	See "Connection, circuit, and terminal boxes" in chapter "Motor options"

Overview

The geared motors comply with all of the applicable IEC standards.

IEC	GB	Title
IEC 60034-1	GB 755	Rotating electrical machines: - Rating and performance
IEC 60034-5	GB/T 4942.1	- Degrees of protection provided by integral design of rotating electrical machines (IP code) - Classification
IEC 60034-6	GB/T 1993	- Classification of cooling methods (IC Code)
IEC 60034-7	GB/T 997	- Classification of types of construction, mounting arrangements and terminal box position (IM code)
IEC 60034-8	GB/T 1971	- Terminal markings and direction of rotation
IEC 60034-9	GB 10069.3	- Noise limits
IEC 60034-14	GB 10068	- Mechanical vibration of certain machines with shaft heights 56 mm and higher
IEC 60085	GB/T 11021	Electrical insulation, thermal evaluation + designation
ICE 60038	GB/T 156	IEC standard voltages

Tolerances

According to EN 60034, the following tolerances are permitted: Motors which comply with EN 60034-1 must have a voltage tolerance of ± 5 %/frequency tolerance of ± 2 % (Zone A). If utilized, the admissible limit temperature of the temperature class may be exceeded by 10 K.

Description	Tolerance
Efficiency	$P_{rated} \leq 150$ kW: - 0.15 (1 - η) $P_{rated} > 150$ kW: - 0.1 (1 - η)
Power factor	$\frac{-(1-\cos\varphi)}{6}$ (minimum 0.02/maximum 0.07)

Description	Tolerance
Slip at full load and operating temperature	± 20 % of the setpoint slip for $P_{rated} \geq 1$ kW ± 30 % of the setpoint slip for $P_{rated} < 1$ kW
Starting torque	-15 % and +25 %
Breakdown torque	-10 % without upper limit
Starting current	+20 % without lower limit
Moment of inertia	± 10 %

Efficiency and power factor

The efficiency η and power factor cos φ for each rated power are listed in the selection tables in the individual sections of this catalog.

Full-load power factor cos φ

LEN	LHN
0.92	0.90
0.91	0.89
0.90	0.88
0.89	0.87
0.88	0.86
0.87	0.85
0.86	0.84
0.85	0.83
0.84	0.82
0.83	0.81
0.82	0.80
0.81	0.79
0.80	0.78
0.79	0.77
0.78	0.76
0.77	0.75
0.76	0.73
0.75	0.72
0.74	0.70
0.73	0.66
0.72	0.65
0.71	0.64
0.70	0.63
0.69	0.61
0.68	0.60
0.67	0.55
0.66	0.52
	0.51

Partial-load efficiency η in %

For motors with Standard Efficiency (IE1), High Efficiency (IE2) and Premium Efficiency (IE3), the 3/4 load efficiency is also listed in the selection tables. The part-load values stated in the tables below are averages; precise values can be provided on request.

LHN				LEN			
100% full-load		75% partial-load		100% full-load		75% partial-load	
94.1%	79.8%	94.1%	81.9%	93.9%	86.8%	94.3%	87.2%
93.6%	79.7%	93.7%	81.3%	93.6%	86.7%	94.1%	87.1%
93.5%	79.6%	93.0%	80.0%	93.5%	86.6%	93.8%	87.0%
93.1%	78.5%	92.9%	79.8%	93.3%	86.5%	93.7%	86.6%
93.0%	78.1%	92.7%	79.6%	93.2%	86.3%	93.6%	86.5%
92.7%	77.7%	92.1%	79.1%	93.0%	86.0%	93.4%	86.3%
92.4%	77.4%	92.0%	79.0%	92.8%	85.9%	93.3%	86.1%

Partial-load efficiency η in %

LHN				LEN			
100% full-load		75% partial-load		100% full-load		75% partial-load	
92.2%	76.0%	91.8%	78.5%	92.6%	85.8%	93.1%	86.0%
92.1%	75.9%	91.6%	78.1%	92.5%	85.7%	93.0%	85.7%
91.7%	75.5%	91.2%	78.0%	92.4%	85.6%	92.9%	85.5%
91.2%	75.1%	91.1%	77.4%	92.3%	85.5%	92.8%	85.4%
91.0%	75.0%	90.8%	76.4%	92.2%	85.3%	92.7%	85.3%
90.8%	73.5%	90.7%	75.9%	92.1%	85.2%	92.6%	85.1%
90.7%	73.0%	90.5%	75.8%	92.0%	84.6%	92.5%	85.0%
90.5%	72.7%	90.2%	75.5%	91.9%	84.5%	92.4%	84.8%
90.2%	72.0%	90.1%	75.1%	91.8%	84.4%	92.3%	84.3%
89.9%	70.8%	89.9%	73.0%	91.7%	84.3%	92.2%	84.1%
89.5%	70.0%	89.6%	72.9%	91.6%	84.2%	92.1%	84.0%
89.3%	69.5%	89.2%	72.0%	91.5%	84.1%	92.0%	83.7%
89.2%	68.0%	89.0%	70.1%	91.4%	84.0%	91.9%	83.6%
89.0%	67.8%	88.9%	70.0%	91.3%	83.3%	91.8%	82.9%
88.7%	67.0%	88.6%	67.9%	91.2%	83.2%	91.7%	82.8%
88.6%	65.3%	88.3%	67.1%	91.0%	83.0%	91.5%	82.5%
88.5%	65.0%	88.1%	67.0%	90.9%	82.8%	91.4%	81.8%
88.0%	64.0%	88.0%	66.0%	90.6%	82.7%	91.3%	81.7%
87.7%	63.0%	87.7%	65.0%	90.4%	82.5%	91.2%	81.6%
87.6%	62.0%	87.5%	64.2%	90.3%	81.8%	91.0%	81.4%
87.5%	61.3%	86.8%	64.0%	90.2%	81.5%	90.9%	81.1%
87.0%	60.0%	86.6%	62.0%	90.1%	81.4%	90.5%	80.6%
86.8%	59.0%	86.5%	61.8%	89.9%	81.3%	90.4%	80.3%
86.5%	58.0%	86.4%	61.4%	89.8%	81.0%	90.3%	80.1%
86.4%	56.0%	86.2%	60.0%	89.7%	80.8%	90.2%	80.0%
86.0%	52.0%	86.1%	58.2%	89.6%	80.7%	90.1%	79.6%
85.5%	48.5%	86.0%	56.0%	89.5%	80.2%	90.0%	78.5%
85.0%	48.2%	85.8%	55.0%	89.4%	80.0%	89.9%	78.3%
84.7%		85.6%	52.1%	89.3%	79.8%	89.7%	78.1%
84.6%		85.5%	52.0%	89.2%	79.6%	89.6%	77.9%
84.5%		85.0%	50.0%	89.1%	78.9%	89.5%	77.5%
84.3%		84.7%		88.8%	78.1%	89.4%	76.5%
84.0%		84.6%		88.7%	78.0%	89.2%	75.5%
83.5%		84.5%		88.6%	77.7%	88.8%	74.7%
83.2%		84.0%		88.5%	77.4%	88.5%	72.0%
83.1%		83.5%		88.1%	77.2%	88.3%	
82.8%		83.4%		88.0%	77.0%	88.2%	
82.6%		83.2%		87.7%	76.5%	88.1%	
82.5%		83.0%		87.5%	75.5%	87.9%	
81.4%		82.5%		87.2%	74.0%	87.7%	
81.3%		82.1%		87.1%	71.0%	87.6%	
80.0%		82.0%		87.0%		87.5%	

EMC measures

SIMOGEAR geared motors are designed as components for installation in systems and machines. The manufacturer of the system or machine is responsible for complying with EMC Directive 2014/30/EU.

LHN and LEN motors, when correctly used in continuous operation connected to the line supply, fulfill basic EMC standards EN 50081 and EN 50082.

Selection and ordering data

Frame size	Motor	P_{rated}	n_{rated}	T_{rated}	I_{rated}	cos φ	η		Efficiency class	I_{St}/I_{rated}	Article No.				Order code
							4/4 load	3/4 load	acc. to IEC		Data position				Number of poles
		kW	rpm	Nm	A	-	%	%	60034-30	-	9th	10th	11th	12th	
2-pole, 3 000 rpm at 50 Hz															
63	LHN63MA2	0.18	2 790	0.62	0.67	0.60	68.00	67.00	-	5.50	**B**	**B**	**2**	**1**	**P00**
	LHN63MB2	0.25	2 790	0.86	0.75	0.65	72.00	70.00	-	5.50	**B**	**C**	**2**	**1**	**P00**
71	LHN71MA2	0.37	2 820	1.25	0.96	0.77	72.70	72.00	-	6.10	**C**	**B**	**2**	**1**	**P00**
	LHN71MC2	0.55	2 820	1.86	1.49	0.77	73.00	73.00	-	6.10	**C**	**D**	**2**	**1**	**P00**
112	LHN112MB2	4.00	2 880	13.26	8.31	0.88	83.10	83.00	-	7.50	**G**	**G**	**2**	**1**	**P00**
132	LHN132SH2	5.50	2 910	18.05	10.7	0.89	84.70	85.00	-	7.50	**H**	**F**	**2**	**1**	**P00**
	LHN132SN2	7.50	2 910	24.61	14.2	0.89	86.00	85.80	-	7.50	**H**	**G**	**2**	**1**	**P00**
160	LHN160ME2	11.00	2 930	35.85	21.5	0.87	87.60	87.70	-	7.50	**J**	**N**	**2**	**1**	**P00**
	LHN160ML2	15.00	2 930	48.89	29.5	0.87	88.70	89.00	-	7.50	**J**	**R**	**2**	**1**	**P00**
	LHN160LF2	18.50	2 930	60.30	35.5	0.89	89.30	89.00	-	7.50	**J**	**S**	**2**	**1**	**P00**
4-pole, 1 500 rpm at 50 Hz															
63	LHN63MB4	0.09	1 395	0.62	0.37	0.64	58.00	56.00	-	3.60	**B**	**C**	**2**	**1**	**-**
	LHN63MC4	0.12	1 335	0.86	0.43	0.70	60.00	62.00	-	3.20	**B**	**D**	**2**	**1**	**-**
	LHN63MD4	0.18	1 350	1.27	0.61	0.70	64.00	65.00	-	3.50	**B**	**E**	**2**	**1**	**-**
71	LHN71MB4	0.25	1 355	1.76	0.76	0.75	67.00	67.10	-	4.80	**C**	**C**	**2**	**1**	**-**
	LHN71MD4	0.37	1 360	2.60	1.05	0.77	69.50	70.10	-	4.40	**C**	**E**	**2**	**1**	**-**
	LHN71ME4	0.55	1 335	3.93	1.39	0.82	73.50	76.40	-	3.90	**C**	**F**	**2**	**1**	**-**
112	LHN112MF4	4.00	1 445	26.44	8.9	0.82	83.10	86.00	-	6.80	**G**	**J**	**2**	**1**	**-**
132	LHN132SH4	5.50	1 445	36.35	11.8	0.83	84.70	86.00	-	7.20	**H**	**F**	**2**	**1**	**-**
	LHN132MKA4	7.50	1 450	49.40	15.6	0.84	86.00	87.50	-	6.90	**H**	**J**	**2**	**1**	**-**
	LHN132MKB4	9.20	1 445	60.80	18.9	0.84	86.80	88.00	-	7.10	**H**	**T**	**2**	**1**	**-**
160	LHN160MK4	11.00	1 455	72.20	23.0	0.82	87.60	89.00	-	7.80	**J**	**Q**	**2**	**1**	**-**
	LHN160LH4	15.00	1 455	98.45	30.1	0.85	88.70	90.50	-	7.50	**J**	**T**	**2**	**1**	**-**
180	LHN180MK4	18.50	1 465	120.60	36.6	0.86	89.30	90.50	-	6.80	**K**	**K**	**2**	**1**	**-**
	LHN180LH4	22.00	1 465	143.41	43.2	0.86	89.90	90.70	-	7.20	**K**	**M**	**2**	**1**	**-**
200	LHN200LM4	30.00	1 465	195.56	58.4	0.86	90.70	91.20	-	7.30	**L**	**M**	**2**	**1**	**-**
225	LHN225S4	37.00	1 480	238.75	66.7	0.87	91.20	91.20	-	7.00	**M**	**E**	**2**	**1**	**-**
	LHN225M4	45.00	1 480	290.37	85.0	0.87	91.70	92.00	-	7.30	**M**	**P**	**2**	**1**	**-**
250	LHN250M4	55.00	1 475	356.10	105.7	0.85	92.10	93.00	-	7.30	**N**	**L**	**2**	**1**	**-**
6-pole, 1 000 rpm at 50 Hz															
63	LHN63ME6	0.09	890	0.97	0.55	0.52	48.20	52.00	-	4.00	**B**	**F**	**2**	**1**	**P01**
	LHN63MF6	0.12	880	1.30	0.68	0.55	48.50	50.00	-	4.00	**B**	**G**	**2**	**1**	**P01**
71	LHN71MD6	0.18	890	1.93	0.71	0.65	59.00	60.00	-	4.00	**C**	**E**	**2**	**1**	**P01**
	LHN71MF6	0.25	880	2.71	0.91	0.66	63.00	64.00	-	4.00	**C**	**G**	**2**	**1**	**P01**
112	LHN112MC6	2.20	935	22.47	5.55	0.76	77.70	78.00	-	6.50	**G**	**H**	**2**	**1**	**P01**
132	LHN132SC6	3.00	960	29.84	7.6	0.73	79.70	80.00	-	6.50	**H**	**E**	**2**	**1**	**P01**
	LHN132MB6	4.00	960	39.79	10.3	0.73	81.40	82.00	-	6.50	**H**	**H**	**2**	**1**	**P01**
	LHN132ML6	5.50	960	54.71	13.2	0.75	83.10	83.50	-	6.50	**H**	**L**	**2**	**1**	**P01**
160	LHN160MG6	7.50	970	73.84	17.3	0.77	84.70	84.70	-	6.50	**J**	**F**	**2**	**1**	**P01**
	LHN160LF6	11.00	970	108.30	24.7	0.78	86.40	86.40	-	6.50	**J**	**S**	**2**	**1**	**P01**
180	LHN180LD6	15.00	975	146.92	31.2	0.82	87.70	87.70	-	7.00	**K**	**L**	**2**	**1**	**P01**
200	LHN200LE6	18.50	970	182.14	38.0	0.83	88.60	88.60	-	7.00	**L**	**K**	**2**	**1**	**P01**
	LHN200LK6	22.00	970	216.60	44.4	0.83	89.20	89.20	-	7.00	**L**	**L**	**2**	**1**	**P01**
225	LHN225M6	30.00	980	292.35	59.1	0.88	90.20	90.20	-	7.00	**M**	**F**	**2**	**1**	**P01**
250	LHN250M6	37.00	980	360.56	69.2	0.89	90.80	90.80	-	7.00	**N**	**C**	**2**	**1**	**P01**

Selection and ordering data (continued)

Frame size	Motor	T_{St}/T_{rated}	T_{Bk}/T_{rated}	T_A/T_{rated}	L_{pfA}	L_{WA}	Z_0	J_{mot}	m_{mot}	Article No. Data position 9th	10th	11th	12th	Order code Number of poles
		-	-	-	dB (A)	dB (A)	1/h	10^{-4} kgm²	kg					
2-pole, 3 000 rpm at 50 Hz														
63	LHN63MA2	2.20	2.20	O.R.	59	59	O.R.	1.74	4.8	**B**	**B**	**2**	**1**	**P00**
	LHN63MB2	2.20	2.20	O.R.	59	59	O.R.	1.99	5	**B**	**C**	**2**	**1**	**P00**
71	LHN71MA2	2.20	2.20	O.R.	59	59	O.R.	3.41	6	**C**	**B**	**2**	**1**	**P00**
	LHN71MC2	2.20	2.30	O.R.	59	59	O.R.	4.65	6.8	**C**	**D**	**2**	**1**	**P00**
112	LHN112MB2	2.20	2.30	O.R.	75	83	O.R.	63.06	49	**G**	**G**	**2**	**1**	**P00**
132	LHN132SH2	2.20	2.30	O.R.	77	85	O.R.	128.52	71	**H**	**F**	**2**	**1**	**P00**
	LHN132SN2	2.20	2.30	O.R.	77	85	O.R.	142.71	73	**H**	**G**	**2**	**1**	**P00**
160	LHN160ME2	2.20	2.30	O.R.	79	87	O.R.	451.48	124	**J**	**N**	**2**	**1**	**P00**
	LHN160ML2	2.20	2.30	O.R.	79	87	O.R.	546.09	130	**J**	**R**	**2**	**1**	**P00**
	LHN160LF2	2.20	2.30	O.R.	79	87	O.R.	635.70	140	**J**	**S**	**2**	**1**	**P00**
4-pole, 1 500 rpm at 50 Hz														
63	LHN63MB4	2.30	3.00	O.R.	52	52	O.R.	4.00	4.6	**B**	**C**	**2**	**1**	-
	LHN63MC4	1.70	2.20	O.R.	52	52	O.R.	4.00	4.6	**B**	**D**	**2**	**1**	-
	LHN63MD4	2.00	2.30	O.R.	52	52	O.R.	5.00	4.8	**B**	**E**	**2**	**1**	-
71	LHN71MB4	2.60	2.80	O.R.	52	52	O.R.	7.20	6.5	**C**	**C**	**2**	**1**	-
	LHN71MD4	2.60	2.60	O.R.	52	52	O.R.	7.90	7	**C**	**E**	**2**	**1**	-
	LHN71ME4	2.00	2.10	O.R.	52	52	O.R.	8.60	7.5	**C**	**F**	**2**	**1**	-
112	LHN112MF4	2.40	3.00	O.R.	64	72	O.R.	115.70	52	**G**	**J**	**2**	**1**	-
132	LHN132SH4	2.10	3.00	O.R.	67	75	O.R.	255.73	73	**H**	**F**	**2**	**1**	-
	LHN132MKA4	2.70	3.10	O.R.	67	75	O.R.	334.43	86	**H**	**J**	**2**	**1**	-
	LHN132MKB4	2.60	2.80	O.R.	67	75	O.R.	334.43	86	**H**	**T**	**2**	**1**	-
160	LHN160MK4	2.50	2.80	O.R.	69	77	O.R.	836.72	128	**J**	**Q**	**2**	**1**	-
	LHN160LH4	2.90	3.00	O.R.	69	77	O.R.	1 073.56	142	**J**	**T**	**2**	**1**	-
180	LHN180MK4	2.50	2.90	O.R.	72	80	O.R.	1 527.01	179	**K**	**K**	**2**	**1**	-
	LHN180LH4	2.20	2.80	O.R.	72	80	O.R.	1 687.00	188	**K**	**M**	**2**	**1**	-
200	LHN200LM4	2.50	3.00	O.R.	75	83	O.R.	2 736.69	259	**L**	**M**	**2**	**1**	-
225	LHN225S4	2.10	2.70	O.R.	76	84	O.R.	4 621.04	280	**M**	**E**	**2**	**1**	-
	LHN225M4	2.30	3.00	O.R.	76	84	O.R.	5 619.08	315	**M**	**P**	**2**	**1**	-
250	LHN250M4	2.50	3.10	O.R.	77	85	O.R.	7 673.12	390	**N**	**L**	**2**	**1**	-
6-pole, 1 000 rpm at 50 Hz														
63	LHN63ME6	1.90	2.00	O.R.	59	59	O.R.	5.20	5	**B**	**F**	**2**	**1**	**P01**
	LHN63MF6	1.90	2.00	O.R.	59	59	O.R.	6.10	5.5	**B**	**G**	**2**	**1**	**P01**
71	LHN71MD6	1.90	2.00	O.R.	59	59	O.R.	7.90	7	**C**	**E**	**2**	**1**	**P01**
	LHN71MF6	1.90	2.00	O.R.	59	59	O.R.	8.00	8	**C**	**G**	**2**	**1**	**P01**
112	LHN112MC6	2.00	2.10	O.R.	62	70	O.R.	148.79	50	**G**	**H**	**2**	**1**	**P01**
132	LHN132SC6	2.10	2.10	O.R.	65	73	O.R.	283.55	70	**H**	**E**	**2**	**1**	**P01**
	LHN132MB6	2.10	2.10	O.R.	65	73	O.R.	357.39	73	**H**	**H**	**2**	**1**	**P01**
	LHN132ML6	2.10	2.10	O.R.	65	73	O.R.	490.54	80	**H**	**L**	**2**	**1**	**P01**
160	LHN160MG6	2.00	2.10	O.R.	65	73	O.R.	898.22	125	**J**	**F**	**2**	**1**	**P01**
	LHN160LF6	2.00	2.10	O.R.	65	73	O.R.	1 226.72	139	**J**	**S**	**2**	**1**	**P01**
180	LHN180LD6	2.00	2.10	O.R.	69	77	O.R.	2 104.72	179	**K**	**L**	**2**	**1**	**P01**
200	LHN200LE6	2.10	2.10	O.R.	72	80	O.R.	3 225.57	249	**L**	**K**	**2**	**1**	**P01**
	LHN200LK6	2.10	2.10	O.R.	72	80	O.R.	3 678.41	256	**L**	**L**	**2**	**1**	**P01**
225	LHN225M6	2.00	2.10	O.R.	72	80	O.R.	5 733.87	280	**M**	**F**	**2**	**1**	**P01**
250	LHN250M6	2.10	2.10	O.R.	74	82	O.R.	8 476.83	380	**N**	**C**	**2**	**1**	**P01**

O. R. On request

Selection and ordering data (continued)

Frame size	Motor	P_{rated}	n_{rated}	T_{rated}	I_{rated}	cos φ	η		Efficiency class	I_{St}/I_{rated}	Article No.				Order code
							4/4 load	3/4 load	acc. to IEC		Data position				
		kW	rpm	Nm	A	-	%	%	60034-30	-	9th	10th	11th	12th	Number of poles
2-pole, 3 600 rpm at 60 Hz															
63	LHN63MA2	0.21	3 350	0.60	0.67	0.61	68.00	67.00	-	5.50	**B**	**B**	**2**	**1**	**P00**
	LHN63MB2	0.29	3 350	0.83	0.75	0.70	70.00	72.00	-	5.50	**B**	**C**	**2**	**1**	**P00**
71	LHN71MA2	0.43	3 385	1.21	0.96	0.78	75.00	75.10	-	6.10	**C**	**B**	**2**	**1**	**P00**
	LHN71MC2	0.63	3 385	1.78	1.49	0.76	76.00	75.80	-	6.10	**C**	**D**	**2**	**1**	**P00**
112	LHN112MB2	4.55	3 480	12.49	8.39	0.85	84.50	84.70	-	7.50	**G**	**G**	**2**	**1**	**P00**
132	LHN132SH2	6.30	3 510	17.14	11.20	0.86	86.00	86.60	-	7.50	**H**	**F**	**2**	**1**	**P00**
	LHN132SN2	8.60	3 510	23.40	15.10	0.86	87.50	88.10	-	7.50	**H**	**G**	**2**	**1**	**P00**
160	LHN160ME2	12.60	3 530	34.09	22.20	0.84	87.50	88.30	-	7.50	**J**	**N**	**2**	**1**	**P00**
	LHN160ML2	17.30	3 530	46.80	29.40	0.87	88.50	88.30	-	7.50	**J**	**R**	**2**	**1**	**P00**
	LHN160LF2	21.30	3 530	57.62	35.90	0.86	89.50	89.60	-	7.50	**J**	**S**	**2**	**1**	**P00**
4-pole, 1 800 rpm at 60 Hz															
63	LHN63MB4	0.11	1 685	0.51	0.38	0.64	59.00	58.20	-	3.90	**B**	**C**	**2**	**1**	-
	LHN63MC4	0.14	1 635	0.70	0.50	0.70	61.30	61.40	-	3.50	**B**	**D**	**2**	**1**	-
	LHN63MD4	0.21	1 650	1.04	0.60	0.70	65.30	65.00	-	3.80	**B**	**E**	**2**	**1**	-
71	LHN71MB4	0.29	1 665	1.63	0.75	0.75	67.80	67.90	-	5.20	**C**	**C**	**2**	**1**	-
	LHN71MD4	0.43	1 660	2.47	1.03	0.77	70.80	72.90	-	4.80	**C**	**E**	**2**	**1**	-
	LHN71ME4	0.66	1 655	3.92	1.41	0.82	75.10	78.50	-	4.10	**C**	**F**	**2**	**1**	-
112	LHN112MF4	4.55	1 735	25.04	8.70	0.81	85.00	86.00	-	7.20	**G**	**J**	**2**	**1**	-
132	LHN132SH4	6.30	1 750	34.38	11.70	0.81	87.00	86.80	-	7.90	**H**	**F**	**2**	**1**	-
	LHN132MKA4	8.60	1 750	46.93	15.40	0.83	87.50	88.10	-	7.70	**H**	**J**	**2**	**1**	-
	LHN132MKB4	10.50	1 745	57.46	19.10	0.83	88.00	88.00	-	7.10	**H**	**T**	**2**	**1**	-
160	LHN160MK4	12.60	1 760	68.37	22.70	0.82	88.50	89.90	-	8.70	**J**	**Q**	**2**	**1**	-
	LHN160LH4	17.30	1 755	94.14	29.80	0.85	89.50	90.80	-	8.30	**J**	**T**	**2**	**1**	-
180	LHN180MK4	21.30	1 770	114.92	35.90	0.86	90.50	91.10	-	7.40	**K**	**K**	**2**	**1**	-
	LHN180LH4	24.50	1 770	132.19	41.10	0.86	91.00	91.10	-	8.00	**K**	**M**	**2**	**1**	-
200	LHN200LM4	33.50	1 770	180.75	55.10	0.87	91.70	92.00	-	8.20	**L**	**M**	**2**	**1**	-
225	LHN225S4	41.50	1 775	223.28	65.50	0.90	92.40	92.00	-	7.70	**M**	**E**	**2**	**1**	-
	LHN225M4	52.00	1 775	279.77	84.30	0.87	93.00	93.70	-	7.10	**M**	**P**	**2**	**1**	-
250	LHN250M4	63.00	1 775	338.96	103.40	0.86	93.00	92.70	-	8.00	**N**	**L**	**2**	**1**	-
6-pole, 1 200 rpm at 60 Hz															
63	LHN63ME6	0.11	1 090	0.96	0.55	0.51	52.00	52.10	-	4.00	**B**	**F**	**2**	**1**	**P01**
	LHN63MF6	0.14	1 100	1.22	0.60	0.55	56.00	55.00	-	4.00	**B**	**G**	**2**	**1**	**P01**
71	LHN71MD6	0.21	1 115	1.80	0.71	0.63	62.00	61.80	-	4.70	**C**	**E**	**2**	**1**	**P01**
	LHN71MF6	0.29	1 090	2.54	1.00	0.64	65.00	64.20	-	4.70	**C**	**G**	**2**	**1**	**P01**
112	LHN112MC6	2.55	1 125	21.65	5.46	0.76	78.50	89.00	-	6.50	**G**	**H**	**2**	**1**	**P01**
132	LHN132SC6	3.45	1 160	28.40	7.61	0.72	82.60	78.50	-	6.50	**H**	**E**	**2**	**1**	**P01**
	LHN132MB6	4.55	1 160	37.46	9.81	0.73	78.50	79.00	-	6.50	**H**	**H**	**2**	**1**	**P01**
	LHN132ML6	6.30	1 160	51.87	12.97	0.75	83.50	86.10	-	6.50	**H**	**L**	**2**	**1**	**P01**
160	LHN160MG6	8.60	1 170	70.20	17.10	0.75	86.00	86.20	-	6.50	**J**	**F**	**2**	**1**	**P01**
	LHN160LF6	12.60	1 170	102.85	23.80	0.78	89.00	88.90	-	6.50	**J**	**S**	**2**	**1**	**P01**
180	LHN180LD6	17.30	1 170	140.01	30.90	0.82	89.50	90.10	-	7.00	**K**	**L**	**2**	**1**	**P01**
200	LHN200LE6	21.30	1 170	173.86	37.30	0.83	90.20	90.20	-	7.00	**L**	**K**	**2**	**1**	**P01**
	LHN200LK6	24.50	1 170	199.98	42.60	0.83	91.00	89.90	-	7.00	**L**	**L**	**2**	**1**	**P01**
225	LHN225M6	33.50	1 180	271.12	54.50	0.88	91.70	92.10	-	7.00	**M**	**F**	**2**	**1**	**P01**
250	LHN250M6	41.50	1 180	335.87	66.70	0.89	91.70	91.80	-	7.00	**N**	**C**	**2**	**1**	**P01**

[1] Only as brake motor or motor for intermittent duty S3 - 75 %

Selection and ordering data (continued)

Frame size	Motor	T_{St}/T_{rated}	T_{Bk}/T_{rated}	T_A/T_{rated}	L_{pfA}	L_{WA}	Z_0	J_{mot}	m_{mot}	Article No. Data position 9th	10th	11th	12th	Order code Number of poles
		-	-	-	dB (A)	dB (A)	1/h	10^{-4} kgm²	kg					
2-pole, 3 600 rpm at 60 Hz														
63	LHN63MA2	2.20	2.20	O.R.	59	59	O.R.	1.74	4.8	**B**	**B**	**2**	**1**	**P00**
	LHN63MB2	2.20	2.20	O.R.	59	59	O.R.	1.99	5	**B**	**C**	**2**	**1**	**P00**
71	LHN71MA2	2.20	2.20	O.R.	59	59	O.R.	3.41	6	**C**	**B**	**2**	**1**	**P00**
	LHN71MC2	2.20	2.30	O.R.	59	59	O.R.	4.65	6.8	**C**	**D**	**2**	**1**	**P00**
112	LHN112MB2	2.20	2.30	O.R.	80	88	O.R.	63.06	49	**G**	**G**	**2**	**1**	**P00**
132	LHN132SH2	2.20	2.30	O.R.	82	90	O.R.	128.52	71	**H**	**F**	**2**	**1**	**P00**
	LHN132SN2	2.20	2.30	O.R.	82	90	O.R.	142.71	73	**H**	**G**	**2**	**1**	**P00**
160	LHN160ME2	2.20	2.30	O.R.	84	92	O.R.	451.48	124	**J**	**N**	**2**	**1**	**P00**
	LHN160ML2	2.20	2.30	O.R.	84	92	O.R.	546.09	130	**J**	**R**	**2**	**1**	**P00**
	LHN160LF2	2.20	2.30	O.R.	84	92	O.R.	635.70	140	**J**	**S**	**2**	**1**	**P00**
4-pole, 1 800 rpm at 60 Hz														
63	LHN63MB4	2.20	2.90	O.R.	57	57	O.R.	4.00	4.6	**B**	**C**	**2**	**1**	-
	LHN63MC4	1.80	2.20	O.R.	57	57	O.R.	4.00	4.6	**B**	**D**	**2**	**1**	-
	LHN63MD4	2.10	2.50	O.R.	57	57	O.R.	5.00	4.8	**B**	**E**	**2**	**1**	-
71	LHN71MB4	2.60	2.90	O.R.	57	57	O.R.	7.20	6.5	**C**	**C**	**2**	**1**	-
	LHN71MD4	2.60	2.70	O.R.	57	57	O.R.	7.90	7	**C**	**E**	**2**	**1**	-
	LHN71ME4	2.00	2.10	O.R.	57	57	O.R.	8.60	7.5	**C**	**F**	**2**	**1**	-
112	LHN112MF4	2.50	3.10	O.R.	67	75	O.R.	115.70	52	**G**	**J**	**2**	**1**	-
132	LHN132SH4	2.40	3.10	O.R.	70	78	O.R.	255.73	73	**H**	**F**	**2**	**1**	-
	LHN132MKA4	2.90	3.10	O.R.	70	78	O.R.	334.43	86	**H**	**J**	**2**	**1**	-
	LHN132MKB4	2.60	2.80	O.R.	70	78	O.R.	334.43	86	**H**	**T**	**2**	**1**	-
160	LHN160MK4	2.80	2.80	O.R.	72	80	O.R.	836.72	128	**J**	**Q**	**2**	**1**	-
	LHN160LH4	3.00	3.00	O.R.	72	80	O.R.	1 073.56	142	**J**	**T**	**2**	**1**	-
180	LHN180MK4	2.70	2.80	O.R.	75	83	O.R.	1 527.01	179	**K**	**K**	**2**	**1**	-
	LHN180LH4	2.50	2.90	O.R.	75	83	O.R.	1 687.00	188	**K**	**M**	**2**	**1**	-
200	LHN200LM4	2.70	3.00	O.R.	78	86	O.R.	2 736.69	259	**L**	**M**	**2**	**1**	-
225	LHN225S4	2.10	2.60	O.R.	79	87	O.R.	4 621.04	280	**M**	**E**	**2**	**1**	-
	LHN225M4	2.10	2.60	O.R.	79	87	O.R.	5 619.08	315	**M**	**P**	**2**	**1**	-
	LHN250M4	2.50	3.00	O.R.	80	88	O.R.	7 673.12	390	**N**	**L**	**2**	**1**	-
6-pole, 1 200 rpm at 60 Hz														
63	LHN63ME6	1.90	2.00	O.R.	59	59	O.R.	5.20	5	**B**	**F**	**2**	**1**	**P01**
	LHN63MF6	1.90	2.00	O.R.	59	59	O.R.	6.10	5.5	**B**	**G**	**2**	**1**	**P01**
71	LHN71MD6	1.90	2.00	O.R.	59	59	O.R.	7.90	7	**C**	**E**	**2**	**1**	**P01**
	LHN71MF6	1.90	2.00	O.R.	59	59	O.R.	8.00	8	**C**	**G**	**2**	**1**	**P01**
112	LHN112MC6	2.00	2.10	O.R.	65	73	O.R.	148.79	50	**G**	**H**	**2**	**1**	**P01**
132	LHN132SC6	2.10	2.10	O.R.	68	76	O.R.	283.55	70	**H**	**E**	**2**	**1**	**P01**
	LHN132MB6	2.10	2.10	O.R.	68	76	O.R.	357.39	73	**H**	**H**	**2**	**1**	**P01**
	LHN132ML6	2.10	2.10	O.R.	68	76	O.R.	490.54	80	**H**	**L**	**2**	**1**	**P01**
160	LHN160MG6	2.00	2.10	O.R.	68	76	O.R.	898.22	125	**J**	**F**	**2**	**1**	**P01**
	LHN160LF6	2.00	2.10	O.R.	68	76	O.R.	1 226.72	139	**J**	**S**	**2**	**1**	**P01**
180	LHN180LD6	2.00	2.10	O.R.	72	80	O.R.	2 104.72	179	**K**	**L**	**2**	**1**	**P01**
200	LHN200LE6	2.10	2.10	O.R.	75	83	O.R.	3 225.57	249	**L**	**K**	**2**	**1**	**P01**
	LHN200LK6	2.10	2.10	O.R.	75	83	O.R.	3 678.41	256	**L**	**L**	**2**	**1**	**P01**
225	LHN225M6	2.00	2.10	O.R.	75	83	O.R.	5 733.87	280	**M**	**F**	**2**	**1**	**P01**
250	LHN250M6	2.10	2.10	O.R.	77	85	O.R.	8 476.83	380	**N**	**C**	**2**	**1**	**P01**

O. R. On request

Selection and ordering data (continued)

Frame size	Motor	P_{rated}	n_{rated}	T_{rated}	I_{rated}	cos φ	η		Efficiency class	I_{St}/I_{rated}	Article No.				Order code
							4/4 load	3/4 load	acc. to IEC		Data position				Number of poles
		kW	rpm	Nm	A	-	%	%	60034-30	-	9th	10th	11th	12th	
2-pole, 3 000 rpm at 50 Hz IE2															
80	LHN80MB2E	0.75	2 820	2.54	1.80	0.86	77.40	77.40	IE2	6.8	**D**	**C**	**2**	**2**	**P00**
	LHN80MF2E	1.10	2 850	3.69	2.54	0.82	79.60	79.60	IE2	7.1	**D**	**N**	**2**	**2**	**P00**
90	LHN90SF2E	1.50	2 870	4.99	3.34	0.84	81.30	81.30	IE2	7.3	**E**	**K**	**2**	**2**	**P00**
	LHN90LG2E	2.20	2 850	7.37	4.72	0.85	83.20	83.20	IE2	7.6	**E**	**N**	**2**	**2**	**P00**
100	LHN100LK2E	3.00	2 860	10.02	6.19	0.87	84.60	84.60	IE2	7.8	**F**	**N**	**2**	**2**	**P00**
4-pole, 1 500 rpm at 50 Hz IE2															
80	LHN80MD4E	0.55	1 420	3.78	1.57	0.75	77.40	77.40	-/-	4.5	**D**	**D**	**2**	**2**	**-**
	LHN80MG4E	0.75	1 420	5.01	1.89	0.75	79.60	79.60	IE2	6.5	**D**	**F**	**2**	**2**	**-**
90	LHN90SH4E	1.10	1 420	7.40	2.81	0.77	81.40	82.10	IE2	7.0	**E**	**L**	**2**	**2**	**-**
	LHN90LJ4E	1.50	1 420	10.02	3.59	0.78	82.80	84.50	IE2	7.0	**E**	**P**	**2**	**2**	**-**
100	LHN100LD4E	2.20	1 435	14.64	4.98	0.78	84.30	83.40	IE2	7.0	**F**	**L**	**2**	**2**	**-**
	LHN100LJ4E	3.00	1 435	19.97	6.59	0.80	85.50	85.60	IE2	7.5	**F**	**M**	**2**	**2**	**-**
225	LHN225S4E	37.00	1 480	238.75	70.60	0.86	92.70	93.00	IE2	6.9	**M**	**E**	**2**	**2**	**-**
	LHN225M4E	45.00	1 480	290.37	85.40	0.86	93.10	93.00	IE2	7.1	**M**	**P**	**2**	**2**	**-**
250	LHN250M4E	55.00	1 480	354.90	104.00	0.86	93.50	94.10	IE2	7.4	**N**	**L**	**2**	**2**	**-**
6-pole, 1 000 rpm at 50 Hz IE2															
80	LHN80MH6E	0.55	890	5.90	1.70	0.72	65.00	66.00	-/-	5.2	**D**	**G**	**2**	**2**	**P01**
90	LHN90SH6E	0.75	940	7.62	2.09	0.72	75.90	75.90	IE2	5.8	**E**	**C**	**2**	**2**	**P01**
	LHN90LK6E	1.10	950	11.06	2.98	0.72	78.10	78.10	IE2	5.9	**E**	**Q**	**2**	**2**	**P01**
100	LHN100LD6E	1.50	950	15.08	3.97	0.72	79.80	79.80	IE2	5.9	**F**	**L**	**2**	**2**	**P01**
225	LHN225M6E	30.00	980	292.35	60.70	0.82	91.70	91.60	IE2	6.0	**M**	**F**	**2**	**2**	**P01**
250	LHN250M6E	37.00	980	360.56	69.50	0.87	92.20	92.00	IE2	7.0	**N**	**C**	**2**	**2**	**P01**
2-pole, 3 600 rpm at 60 Hz IE2															
80	LHN80MB2E	0.86	3 420	2.40	1.74	0.86	75.50	75.50	IE2	6.8	**D**	**C**	**2**	**2**	**P00**
	LHN80MF2E	1.30	3 420	3.63	2.54	0.82	82.50	82.50	IE2	7.1	**D**	**N**	**2**	**2**	**P00**
90	LHN90SF2E	1.75	3 440	4.86	3.25	0.84	84.00	84.00	IE2	7.3	**E**	**K**	**2**	**2**	**P00**
	LHN90LG2E	2.55	3 420	7.12	4.61	0.85	85.50	85.50	IE2	7.6	**E**	**N**	**2**	**2**	**P00**
100	LHN100LK2E	3.45	3 430	9.61	6.09	0.87	85.50	85.50	IE2	7.8	**F**	**N**	**2**	**2**	**P00**
4-pole, 1 800 rpm at 60 Hz IE2															
80	LHN80MG4E	0.86	1 710	4.80	1.87	0.73	79.60	80.00	IE2	6.5	**D**	**F**	**2**	**2**	**-**
90	LHN90SH4E	1.30	1 710	7.26	2.69	0.79	81.40	79.10	IE2	7.0	**E**	**L**	**2**	**2**	**-**
	LHN90LJ4E	1.75	1 710	9.77	3.56	0.76	82.80	81.90	IE2	7.0	**E**	**P**	**2**	**2**	**-**
100	LHN100LD4E	2.55	1 725	14.08	4.78	0.78	84.30	84.70	IE2	7.0	**F**	**L**	**2**	**2**	**-**
	LHN100LJ4E	3.45	1 725	19.16	6.39	0.82	85.50	86.00	IE2	7.5	**F**	**M**	**2**	**2**	**-**
225	LHN225S4E	41.50	1 775	223.28	66.10	0.86	93.00	92.70	IE2	6.9	**M**	**E**	**2**	**2**	**-**
	LHN225M4E	52.00	1 775	279.77	84.80	0.86	93.60	93.70	IE2	7.1	**M**	**P**	**2**	**2**	**-**
250	LHN250M4E	63.00	1 775	338.96	102.00	0.86	94.10	94.10	IE2	7.4	**N**	**L**	**2**	**2**	**-**
6-pole, 1 200 rpm at 60 Hz IE2															
90	LHN90SH6E	0.86	1 120	7.33	1.96	0.72	80.00	80.00	IE2	5.8	**E**	**C**	**2**	**2**	**P01**
	LHN90LK6E	1.30	1 140	10.89	2.77	0.72	85.50	85.50	IE2	5.9	**E**	**Q**	**2**	**2**	**P01**
100	LHN100LD6E	1.75	1 140	14.66	3.69	0.72	86.50	86.50	IE2	5.9	**F**	**L**	**2**	**2**	**P01**
225	LHN225M6E	33.50	1 175	272.28	57.60	0.82	93.00	93.00	IE2	6.0	**M**	**F**	**2**	**2**	**P01**
250	LHN250M6E	41.50	1 180	335.87	67.3	0.87	93.00	92.90	IE2	7.0	**N**	**C**	**2**	**2**	**P01**

Selection and ordering data (continued)

Frame size	Motor	T_{St}/T_{rated}	T_{Bk}/T_{rated}	T_A/T_{rated}	L_{pfA}	L_{WA}	Z_0	J_{mot}	m_{mot}	Article No. Data position 9th 10th 11th 12th				Order code Number of poles
		-	-	-	dB (A)	dB (A)	1/h	10^{-4} kgm²	kg					
2-pole, 3 000 rpm at 50 Hz IE2														
80	LHN80MB2E	2.00	2.30	O.R.	78	78	O.R.	20.00	11	**D**	**C**	**2**	**2**	**P00**
	LHN80MF2E	2.00	2.30	O.R.	78	78	O.R.	24.00	13	**D**	**N**	**2**	**2**	**P00**
90	LHN90SF2E	2.00	2.30	O.R.	78	78	O.R.	41.00	15	**E**	**K**	**2**	**2**	**P00**
	LHN90LG2E	2.00	2.30	O.R.	78	78	O.R.	48.00	19	**E**	**N**	**2**	**2**	**P00**
100	LHN100LK2E	2.00	2.30	O.R.	74	82	O.R.	81.00	24	**F**	**N**	**2**	**2**	**P00**
4-pole, 1 500 rpm at 50 Hz IE2														
80	LHN80MD4E	2.30	2.80	O.R.	58	58	O.R.	13.00	12	**D**	**D**	**2**	**2**	-
	LHN80MG4E	2.50	3.00	O.R.	58	58	O.R.	27.00	13	**D**	**F**	**2**	**2**	-
90	LHN90SH4E	2.40	3.00	O.R.	66	66	O.R.	42.00	15	**E**	**L**	**2**	**2**	-
	LHN90LJ4E	2.60	3.10	O.R.	66	66	O.R.	49.00	19	**E**	**P**	**2**	**2**	-
100	LHN100LD4E	2.50	2.80	O.R.	62	70	O.R.	79.00	22	**F**	**L**	**2**	**2**	-
	LHN100LJ4E	2.40	2.70	O.R.	62	70	O.R.	100.00	25	**F**	**M**	**2**	**2**	-
225	LHN225S4E	2.00	2.70	O.R.	76	84	O.R.	4 621.04	280	**M**	**E**	**2**	**2**	-
	LHN225M4E	2.20	2.60	O.R.	76	84	O.R.	5 619.08	315	**M**	**P**	**2**	**2**	-
250	LHN250M4E	2.40	2.70	O.R.	77	85	O.R.	7 673.12	390	**N**	**L**	**2**	**2**	-
6-pole, 1 000 rpm at 50 Hz IE2														
80	LHN80MH6E	2.40	2.30	O.R.	57	57	O.R.	21.00	13	**D**	**G**	**2**	**2**	**P01**
90	LHN90SH6E	2.00	2.30	O.R.	63	63	O.R.	38.00	15	**E**	**C**	**2**	**2**	**P01**
	LHN90LK6E	2.00	2.30	O.R.	63	63	O.R.	40.00	19	**E**	**Q**	**2**	**2**	**P01**
100	LHN100LD6E	2.00	2.30	O.R.	64	64	O.R.	72.00	25	**F**	**L**	**2**	**2**	**P01**
225	LHN225M6E	1.90	2.20	O.R.	72	80	O.R.	5 733.87	280	**M**	**F**	**2**	**2**	**P01**
250	LHN250M6E	1.90	2.20	O.R.	74	82	O.R.	8 476.83	380	**N**	**C**	**2**	**2**	**P01**
2-pole, 3 600 rpm at 60 Hz IE2														
80	LHN80MB2E	2.00	2.30	O.R.	83	83	O.R.	20.00	11	**D**	**C**	**2**	**2**	**P00**
	LHN80MF2E	2.00	2.30	O.R.	83	83	O.R.	24.00	13	**D**	**N**	**2**	**2**	**P00**
90	LHN90SF2E	2.00	2.30	O.R.	83	83	O.R.	41.00	15	**E**	**K**	**2**	**2**	**P00**
	LHN90LG2E	2.00	2.30	O.R.	83	83	O.R.	48.00	19	**E**	**N**	**2**	**2**	**P00**
100	LHN100LK2E	2.00	2.30	O.R.	79	87	O.R.	81.00	24	**F**	**N**	**2**	**2**	**P00**
4-pole, 1 800 rpm at 60 Hz IE2														
80	LHN80MG4E	2.50	2.80	O.R.	61	61	O.R.	27.00	13	**D**	**F**	**2**	**2**	-
90	LHN90SH4E	2.20	2.40	O.R.	69	69	O.R.	42.00	15	**E**	**L**	**2**	**2**	-
	LHN90LJ4E	2.40	2.60	O.R.	69	69	O.R.	49.00	19	**E**	**P**	**2**	**2**	-
100	LHN100LD4E	2.30	2.80	O.R.	65	73	O.R.	79.00	22	**F**	**L**	**2**	**2**	-
	LHN100LJ4E	2.50	2.80	O.R.	65	73	O.R.	100.00	25	**F**	**M**	**2**	**2**	-
225	LHN225S4E	2.00	2.70	O.R.	76	84	O.R.	4 621.04	280	**M**	**E**	**2**	**2**	-
	LHN225M4E	2.20	2.60	O.R.	76	84	O.R.	5 619.08	315	**M**	**P**	**2**	**2**	-
250	LHN250M4E	2.40	2.70	O.R.	77	85	O.R.	7 673.12	390	**N**	**L**	**2**	**2**	-
6-pole, 1 200 rpm at 60 Hz IE2														
90	LHN90SH6E	2.00	2.30	O.R.	66	66	O.R.	38.00	15	**E**	**C**	**2**	**2**	**P01**
	LHN90LK6E	2.00	2.30	O.R.	66	66	O.R.	40.00	19	**E**	**Q**	**2**	**2**	**P01**
100	LHN100LD6E	2.00	2.30	O.R.	59	67	O.R.	72.00	25	**F**	**L**	**2**	**2**	**P01**
225	LHN225M6E	1.90	2.20	O.R.	72	80	O.R.	5 733.87	280	**M**	**F**	**2**	**2**	**P01**
250	LHN250M6E	1.90	2.20	O.R.	74	82	O.R.	8 476.83	380	**N**	**C**	**2**	**2**	**P01**

O. R. On request

Selection and ordering data

Frame size	Motor	P_{rated}	n_{rated}	T_{rated}	I_{rated}	cos φ	η		Efficiency class	I_{St}/I_{rated}	Article No.				Order code
							4/4 load	3/4 load	acc. to IEC		Data position				Number of poles
		kW	rpm	Nm	A	-	%	%	60034-30	-	9th	10th	11th	12th	
2-pole, 3 000 rpm at 50 Hz IE2															
80	LEN80MA2E	0.75	2795	2.6	1.75	0.84	77.40	78.50	IE2	5.60	**D**	**B**	**3**	**2**	**P00**
	LEN80ME2E	1.10	2835	3.7	2.50	0.84	79.60	80.60	IE2	6.00	**D**	**M**	**3**	**2**	**P00**
90	LEN90SF2E	1.50	2890	5.0	3.35	0.84	81.30	81.70	IE2	6.50	**E**	**K**	**3**	**2**	**P00**
	LEN90LG2E	2.20	2890	7.3	4.75	0.85	83.20	83.70	IE2	7.20	**E**	**M**	**3**	**2**	**P00**
100	LEN100LG2E	3.00	2885	9.9	6.40	0.84	84.60	85.10	IE2	7.50	**F**	**L**	**3**	**2**	**P00**
112	LEN112MB2E	4.00	2930	13.0	8.20	0.86	85.80	86.60	IE2	7.50	**G**	**G**	**3**	**2**	**P00**
132	LEN132SC2E	5.50	2930	17.9	11.00	0.87	87.00	87.60	IE2	7.50	**H**	**E**	**3**	**2**	**P00**
	LEN132SJ2E	7.50	2930	24.4	14.50	0.89	88.10	88.80	IE2	7.50	**H**	**G**	**3**	**2**	**P00**
160	LEN160MC2E	11.00	2935	35.8	21.50	0.86	89.40	90.10	IE2	7.50	**J**	**N**	**3**	**2**	**P00**
	LEN160MJ2E	15.00	2935	48.8	29.50	0.86	90.30	91.00	IE2	7.50	**J**	**P**	**3**	**2**	**P00**
	LEN160LE2E	18.50	2935	60.2	34.50	0.89	90.90	91.70	IE2	7.50	**J**	**R**	**3**	**2**	**P00**
180	LEN180ME2E	22.00	2935	71.6	42.00	0.87	91.30	91.80	IE2	7.60	**K**	**K**	**3**	**2**	**P00**
200	LEN200LF2E	30.00	2955	97	58.00	0.86	92.00	92.30	IE2	7.50	**L**	**K**	**3**	**2**	**P00**
	LEN200LN2E	37.00	2955	120	69.00	0.88	92.50	92.80	IE2	7.50	**L**	**M**	**3**	**2**	**P00**
4-pole, 1 500 rpm at 50 Hz IE2															
80	LEN80MD4E	0.55	1425	3.7	1.40	0.80	74.00	74.70	-/-	6.00	**D**	**C**	**3**	**2**	**-**
	LEN80MH4E	0.75	1440	5.0	1.90	0.75	79.60	79.60	IE2	6.50	**D**	**E**	**3**	**2**	**-**
90	LEN90SH4E	1.10	1440	7.3	2.75	0.75	81.40	81.40	IE2	7.00	**E**	**L**	**3**	**2**	**-**
	LEN90LJ4E	1.50	1440	9.9	3.60	0.76	82.80	82.80	IE2	7.00	**E**	**N**	**3**	**2**	**-**
100	LEN100LH4E	2.20	1435	14.6	5.00	0.79	84.30	85.00	IE2	7.00	**F**	**M**	**3**	**2**	**-**
	LEN100LN4E	3.00	1435	20.0	6.70	0.79	85.50	86.30	IE2	7.00	**F**	**P**	**3**	**2**	**-**
112	LEN112MH4E	4.00	1445	26.4	8.90	0.79	86.60	87.10	IE2	7.10	**G**	**J**	**3**	**2**	**-**
132	LEN132SJ4E	5.50	1460	36.0	12.10	0.79	87.70	88.20	IE2	7.50	**H**	**G**	**3**	**2**	**-**
	LEN132ML4E	7.50	1460	49.1	15.70	0.82	88.70	89.40	IE2	7.70	**H**	**K**	**3**	**2**	**-**
	LEN132MS4E	9.20	1455	60.0	19.10	0.82	89.20	89.90	IE2	7.50	**H**	**V**	**3**	**2**	**-**
160	LEN160MJ4E	11.00	1465	71.7	22.00	0.84	89.80	90.40	IE2	7.50	**J**	**P**	**3**	**2**	**-**
	LEN160LH4E	15.00	1465	97.8	29.50	0.85	90.60	91.30	IE2	7.80	**J**	**S**	**3**	**2**	**-**
180	LEN180MM4E	18.50	1465	121	36.50	0.85	91.20	91.80	IE2	7.30	**K**	**L**	**3**	**2**	**-**
	LEN180LL4E	22.00	1465	143	43.00	0.85	91.60	92.30	IE2	7.30	**K**	**N**	**3**	**2**	**-**
200	LEN200LN4E	30.00	1470	195	58.00	0.85	92.30	92.90	IE2	7.30	**L**	**M**	**3**	**2**	**-**
6-pole, 1 000 rpm at 50 Hz IE2															
80	LEN80MK6E	0.55	895	5.9	1.55	0.76	71.00	72.00	-/-	4.50	**D**	**F**	**3**	**2**	**P01**
90	LEN90SH6E	0.75	935	7.7	2.10	0.71	75.90	76.50	IE2	5.00	**E**	**C**	**3**	**2**	**P01**
	LEN90LN6E	1.10	945	11.1	3.00	0.71	78.10	78.10	IE2	5.50	**E**	**Q**	**3**	**2**	**P01**
100	LEN100LK6E	1.50	945	15.2	3.85	0.74	79.80	80.10	IE2	5.50	**F**	**N**	**3**	**2**	**P01**
112	LEN112MH6E	2.20	950	22.1	5.60	0.73	81.80	82.50	IE2	5.50	**G**	**J**	**3**	**2**	**P01**
132	LEN132SE6E	3.00	960	29.8	7.50	0.73	83.30	84.30	IE2	6.00	**H**	**F**	**3**	**2**	**P01**
	LEN132ME6E	4.00	960	39.8	9.80	0.73	84.60	85.40	IE2	6.20	**H**	**H**	**3**	**2**	**P01**
	LEN132MN6E	5.50	960	54.7	13.00	0.75	86.00	86.60	IE2	6.40	**H**	**L**	**3**	**2**	**P01**
160	LEN160ML6E	7.50	975	74.2	17.00	0.77	87.20	87.90	IE2	6.40	**J**	**G**	**3**	**2**	**P01**
	LEN160LN6E	11.00	975	108.9	24.00	0.78	88.70	89.40	IE2	6.40	**J**	**T**	**3**	**2**	**P01**
180	LEN180LE6E	15.00	975	146.9	32.50	0.78	89.70	90.40	IE2	6.50	**K**	**M**	**3**	**2**	**P01**
200	LEN200LG6E	18.50	975	181.2	38.50	0.81	90.40	91.00	IE2	6.50	**L**	**L**	**3**	**2**	**P01**
	LEN200LP6E	22.00	975	215.5	45.00	0.82	90.90	91.40	IE2	6.50	**L**	**N**	**3**	**2**	**P01**

Selection and ordering data (continued)

Frame size	Motor	T_{St}/T_{rated}	T_{Bk}/T_{rated}	T_A/T_{rated}	L_{pfA}	L_{WA}	Z_0	J_{mot}	m_{mot}	Article No. Data position 9th	10th	11th	12th	Order code Number of poles
		-	-	-	dB (A)	dB (A)	1/h	10^{-4} kgm²	kg					
2-pole, 3 000 rpm at 50 Hz IE2														
80	LEN80MA2E	2.40	2.40	O.R.	53	65	O.R.	8	15.5	**D**	**B**	**3**	**2**	**P00**
	LEN80ME2E	2.80	3.20	O.R.	53	65	O.R.	12	16.5	**D**	**M**	**3**	**2**	**P00**
90	LEN90SF2E	2.40	3.10	O.R.	60	72	O.R.	21	20	**E**	**K**	**3**	**2**	**P00**
	LEN90LG2E	2.60	3.50	O.R.	60	72	O.R.	26	23	**E**	**M**	**3**	**2**	**P00**
100	LEN100LG2E	4.00	4.50	O.R.	62	74	O.R.	36	34	**F**	**L**	**3**	**2**	**P00**
112	LEN112MB2E	2.20	2.90	O.R.	63	75	O.R.	64	40	**G**	**G**	**3**	**2**	**P00**
132	LEN132SC2E	2.20	2.90	O.R.	66	79	O.R.	140	56	**H**	**E**	**3**	**2**	**P00**
	LEN132SJ2E	2.30	2.90	O.R.	66	79	O.R.	170	62	**H**	**G**	**3**	**2**	**P00**
160	LEN160MC2E	2.20	2.90	O.R.	67	80	O.R.	310	96	**J**	**N**	**3**	**2**	**P00**
	LEN160MJ2E	2.40	3.20	O.R.	67	80	O.R.	380	106	**J**	**P**	**3**	**2**	**P00**
	LEN160LE2E	2.40	3.20	O.R.	67	80	O.R.	460	125	**J**	**R**	**3**	**2**	**P00**
180	LEN180ME2E	2.50	3.20	O.R.	69	82	O.R.	720	152	**K**	**K**	**3**	**2**	**P00**
200	LEN200LF2E	2.50	3.20	O.R.	71	84	O.R.	1 300	229	**L**	**K**	**3**	**2**	**P00**
	LEN200LN2E	2.50	3.20	O.R.	71	84	O.R.	1 500	245	**L**	**M**	**3**	**2**	**P00**
4-pole, 1 500 rpm at 50 Hz IE2														
80	LEN80MD4E	2.00	2.70	O.R.	45	57	O.R.	21	15.5	**D**	**C**	**3**	**2**	-
	LEN80MH4E	2.80	3.50	O.R.	45	57	O.R.	27	17	**D**	**E**	**3**	**2**	-
90	LEN90SH4E	2.80	3.50	O.R.	47	59	O.R.	41	20	**E**	**L**	**3**	**2**	-
	LEN90LJ4E	3.00	3.80	O.R.	47	59	O.R.	47	24	**E**	**N**	**3**	**2**	-
100	LEN100LH4E	3.00	3.20	O.R.	55	67	O.R.	81	32	**F**	**M**	**3**	**2**	-
	LEN100LN4E	3.00	3.20	O.R.	55	67	O.R.	100	34	**F**	**P**	**3**	**2**	-
112	LEN112MH4E	2.70	3.10	O.R.	55	67	O.R.	110	45	**G**	**J**	**3**	**2**	-
132	LEN132SJ4E	2.50	3.10	O.R.	57	70	O.R.	210	61	**H**	**G**	**3**	**2**	-
	LEN132ML4E	2.70	3.20	O.R.	57	70	O.R.	290	74	**H**	**K**	**3**	**2**	-
	LEN132MS4E	2.50	3.10	O.R.	57	70	O.R.	362	85	**H**	**V**	**3**	**2**	-
160	LEN160MJ4E	2.50	3.10	O.R.	60	73	O.R.	510	103	**J**	**P**	**3**	**2**	-
	LEN160LH4E	2.70	3.20	O.R.	60	73	O.R.	660	130	**J**	**S**	**3**	**2**	-
180	LEN180MM4E	2.50	3.20	O.R.	61	74	O.R.	1 300	165	**K**	**L**	**3**	**2**	-
	LEN180LL4E	2.40	3.20	O.R.	61	74	O.R.	1 400	180	**K**	**N**	**3**	**2**	-
200	LEN200LN4E	2.70	3.20	O.R.	63	76	O.R.	2 200	238	**L**	**M**	**3**	**2**	-
6-pole, 1 000 rpm at 50 Hz IE2														
80	LEN80MK6E	2.30	2.30	O.R.	44	56	O.R.	28	17.5	**D**	**F**	**3**	**2**	**P01**
90	LEN90SH6E	2.10	2.60	O.R.	48	60	O.R.	38	20	**E**	**C**	**3**	**2**	**P01**
	LEN90LN6E	2.40	2.80	O.R.	48	60	O.R.	46	25	**E**	**Q**	**3**	**2**	**P01**
100	LEN100LK6E	2.40	2.90	O.R.	52	64	O.R.	86	34	**F**	**N**	**3**	**2**	**P01**
112	LEN112MH6E	2.60	3.30	O.R.	54	66	O.R.	120	44	**G**	**J**	**3**	**2**	**P01**
132	LEN132SE6E	2.00	2.20	O.R.	56	69	O.R.	190	56	**H**	**F**	**3**	**2**	**P01**
	LEN132ME6E	2.20	2.50	O.R.	56	69	O.R.	240	66	**H**	**H**	**3**	**2**	**P01**
	LEN132MN6E	2.40	2.60	O.R.	56	69	O.R.	310	75	**H**	**L**	**3**	**2**	**P01**
160	LEN160ML6E	2.10	2.60	O.R.	60	73	O.R.	560	104	**J**	**G**	**3**	**2**	**P01**
	LEN160LN6E	2.10	2.60	O.R.	60	73	O.R.	770	132	**J**	**T**	**3**	**2**	**P01**
180	LEN180LE6E	2.30	3.00	O.R.	61	74	O.R.	1 800	170	**K**	**M**	**3**	**2**	**P01**
200	LEN200LG6E	2.30	2.80	O.R.	65	78	O.R.	2 700	220	**L**	**L**	**3**	**2**	**P01**
	LEN200LP6E	2.30	2.80	O.R.	65	78	O.R.	3 200	240	**L**	**N**	**3**	**2**	**P01**

O. R. On request

Selection and ordering data (continued)

Frame size	Motor	P_{rated}	n_{rated}	T_{rated}	I_{rated}	cos φ	η		Efficiency class	I_{St}/I_{rated}	Article No.				Order code
							4/4 load	3/4 load	acc. to IEC		Data position				Number of poles
		kW	rpm	Nm	A	-	%	%	60034-30	-	9th	10th	11th	12th	
2-pole, 3 600 rpm at 60 Hz IE2															
80	LEN80MA2E	0.86	3350	2.5	1.78	0.84	75.50	75.50	IE2	5.60	**D**	**B**	**3**	**2**	**P00**
	LEN80ME2E	1.30	3400	3.7	2.50	0.84	81.50	84.00	IE2	6.00	**D**	**M**	**3**	**2**	**P00**
90	LEN90SF2E	1.75	3470	4.9	3.30	0.84	83.00	84.00	IE2	6.50	**E**	**K**	**3**	**2**	**P00**
	LEN90LG2E	2.55	3470	7.1	4.65	0.85	84.50	85.50	IE2	7.20	**E**	**M**	**3**	**2**	**P00**
100	LEN100LG2E	3.45	3460	9.5	6.20	0.84	87.50	87.50	IE2	7.50	**F**	**L**	**3**	**2**	**P00**
112	LEN112MB2E	4.55	3520	12.4	8.00	0.86	87.50	87.50	IE2	7.50	**G**	**G**	**3**	**2**	**P00**
132	LEN132SC2E	6.30	3520	17.1	10.70	0.87	88.50	88.50	IE2	7.50	**H**	**E**	**3**	**2**	**P00**
	LEN132SJ2E	8.60	3520	23.3	14.20	0.89	89.50	89.00	IE2	7.50	**H**	**G**	**3**	**2**	**P00**
160	LEN160MC2E	12.60	3520	34.1	21.50	0.86	90.20	90.20	IE2	7.50	**J**	**N**	**3**	**2**	**P00**
	LEN160MJ2E	17.30	3520	46.9	29.00	0.86	91.00	91.00	IE2	7.50	**J**	**P**	**3**	**2**	**P00**
	LEN160LE2E	21.30	3520	57.8	35.50	0.89	91.00	91.00	IE2	7.50	**J**	**R**	**3**	**2**	**P00**
180	LEN180ME2E	24.50	3520	66.5	40.50	0.87	91.00	91.50	IE2	7.60	**K**	**K**	**3**	**2**	**P00**
200	LEN200LF2E	33.50	3550	95.5	55.00	0.86	92.40	92.70	IE2	7.50	**L**	**K**	**3**	**2**	**P00**
	LEN200LN2E	41.50	3550	118	67.00	0.88	93.00	93.30	IE2	7.50	**L**	**M**	**3**	**2**	**P00**
4-pole, 1 800 rpm at 60 Hz IE2															
80	LEN80MD4E	0.63	1710	3.6	1.33	0.80	77.70	74.70	-/-	6.00	**D**	**C**	**3**	**2**	**-**
	LEN80MH4E	0.86	1730	4.8	1.86	0.75	81.00	82.50	IE2	6.50	**D**	**E**	**3**	**2**	**-**
90	LEN90SH4E	1.30	1730	7.2	2.70	0.75	84.00	84.00	IE2	7.00	**E**	**L**	**3**	**2**	**-**
	LEN90LJ4E	1.75	1730	9.7	3.60	0.76	84.00	84.00	IE2	7.00	**E**	**N**	**3**	**2**	**-**
100	LEN100LH4E	2.55	1720	14.1	4.90	0.79	86.80	87.50	IE2	7.00	**F**	**M**	**3**	**2**	**-**
	LEN100LN4E	3.45	1720	19.2	6.50	0.79	87.50	87.50	IE2	7.00	**F**	**P**	**3**	**2**	**-**
112	LEN112MH4E	4.55	1735	25.3	8.60	0.79	88.80	87.50	IE2	7.10	**G**	**J**	**3**	**2**	**-**
132	LEN132SJ4E	6.30	1750	34.4	11.70	0.79	89.50	89.50	IE2	7.50	**H**	**G**	**3**	**2**	**-**
	LEN132ML4E	8.60	1750	46.9	15.40	0.82	89.50	89.50	IE2	7.70	**H**	**K**	**3**	**2**	**-**
	LEN132MS4E	10.50	1745	57.1	18.70	0.82	89.90	91.00	IE2	7.50	**H**	**V**	**3**	**2**	**-**
160	LEN160MJ4E	12.60	1760	68.5	21.50	0.84	91.00	91.00	IE2	7.50	**J**	**P**	**3**	**2**	**-**
	LEN160LH4E	17.30	1760	94	29.00	0.85	92.20	92.40	IE2	7.80	**J**	**S**	**3**	**2**	**-**
180	LEN180MM4E	21.30	1760	116	36.00	0.85	91.80	92.40	IE2	7.30	**K**	**L**	**3**	**2**	**-**
	LEN180LL4E	24.50	1760	133	41.00	0.85	92.40	93.00	IE2	7.30	**K**	**N**	**3**	**2**	**-**
200	LEN200LN4E	33.50	1765	181	56.00	0.85	93.00	93.60	IE2	7.30	**L**	**M**	**3**	**2**	**-**
6-pole, 1 200 rpm at 60 Hz IE2															
80	LEN80MK6E	0.63	1 075	5.6	1.41	0.76	77.00	72.00	-/-	4.50	**D**	**F**	**3**	**2**	**P01**
90	LEN90SH6E	0.86	1 120	7.3	2.10	0.71	76.50	80.00	IE2	5.00	**E**	**C**	**3**	**2**	**P01**
	LEN90LN6E	1.30	1 135	11	3.05	0.71	78.90	86.50	IE2	5.50	**E**	**Q**	**3**	**2**	**P01**
100	LEN100LK6E	1.75	1 135	14.8	3.90	0.74	80.00	86.50	IE2	5.50	**F**	**N**	**3**	**2**	**P01**
112	LEN112MH6E	2.55	1 140	21.3	5.40	0.73	84.40	87.50	IE2	5.50	**G**	**J**	**3**	**2**	**P01**
132	LEN132SE6E	3.45	1 150	28.5	7.40	0.73	84.00	87.50	IE2	6.00	**H**	**F**	**3**	**2**	**P01**
	LEN132ME6E	4.55	1 150	38.2	9.60	0.73	86.30	87.50	IE2	6.20	**H**	**H**	**3**	**2**	**P01**
	LEN132MN6E	6.30	1 150	52.2	12.70	0.75	87.00	89.50	IE2	6.40	**H**	**L**	**3**	**2**	**P01**
160	LEN160ML6E	8.60	1 170	70.9	16.40	0.77	89.50	89.50	IE2	6.40	**J**	**G**	**3**	**2**	**P01**
	LEN160LN6E	12.60	1 170	104	23.50	0.78	90.20	90.20	IE2	6.40	**J**	**T**	**3**	**2**	**P01**
180	LEN180LE6E	17.30	1 170	141	32.00	0.78	91.50	92.20	IE2	6.50	**K**	**M**	**3**	**2**	**P01**
200	LEN200LG6E	21.30	1 170	174	38.00	0.81	90.60	91.20	IE2	6.50	**L**	**L**	**3**	**2**	**P01**
	LEN200LP6E	24.50	1 170	200	43.00	0.82	91.70	92.20	IE2	6.50	**L**	**N**	**3**	**2**	**P01**

Selection and ordering data (continued)

Frame size	Motor	T_{St}/T_{rated}	T_{BK}/T_{rated}	T_A/T_{rated}	L_{pfA}	L_{WA}	Z_0	J_{mot}	m_{mot}	Article No. Data position 9th	10th	11th	12th	Order code Number of poles
		-	-	-	dB (A)	dB (A)	1/h	10^{-4} kgm²	kg					
2-pole, 3 600 rpm at 60 Hz IE2														
80	LEN80MA2E	2.40	2.40	O.R.	53	65	O.R.	8	15.5	**D**	**B**	**3**	**2**	**P00**
	LEN80ME2E	2.80	3.20	O.R.	53	65	O.R.	12	16.5	**D**	**M**	**3**	**2**	**P00**
90	LEN90SF2E	2.40	3.10	O.R.	60	72	O.R.	21	20	**E**	**K**	**3**	**2**	**P00**
	LEN90LG2E	2.60	3.50	O.R.	60	72	O.R.	26	23	**E**	**M**	**3**	**2**	**P00**
100	LEN100LG2E	4.00	4.50	O.R.	62	74	O.R.	36	34	**F**	**L**	**3**	**2**	**P00**
112	LEN112MB2E	2.20	2.90	O.R.	63	75	O.R.	64	40	**G**	**G**	**3**	**2**	**P00**
132	LEN132SC2E	2.20	2.90	O.R.	66	79	O.R.	140	56	**H**	**E**	**3**	**2**	**P00**
	LEN132SJ2E	2.30	2.90	O.R.	66	79	O.R.	170	62	**H**	**G**	**3**	**2**	**P00**
160	LEN160MC2E	2.20	2.90	O.R.	67	80	O.R.	310	96	**J**	**N**	**3**	**2**	**P00**
	LEN160MJ2E	2.40	3.20	O.R.	67	80	O.R.	380	106	**J**	**P**	**3**	**2**	**P00**
	LEN160LE2E	2.40	3.20	O.R.	67	80	O.R.	460	125	**J**	**R**	**3**	**2**	**P00**
180	LEN180ME2E	2.50	3.20	O.R.	69	82	O.R.	720	152	**K**	**K**	**3**	**2**	**P00**
200	LEN200LF2E	2.50	3.20	O.R.	71	84	O.R.	1 300	229	**L**	**K**	**3**	**2**	**P00**
	LEN200LN2E	2.50	3.20	O.R.	71	84	O.R.	1 500	245	**L**	**M**	**3**	**2**	**P00**
4-pole, 1800 rpm at 60 Hz IE2														
80	LEN80MD4E	2.00	2.70	O.R.	45	57	O.R.	21	15.5	**D**	**C**	**3**	**2**	-
	LEN80MH4E	2.80	3.50	O.R.	45	57	O.R.	27	17	**D**	**E**	**3**	**2**	-
90	LEN90SH4E	2.80	3.50	O.R.	47	59	O.R.	41	20	**E**	**L**	**3**	**2**	-
	LEN90LJ4E	3.00	3.80	O.R.	47	59	O.R.	47	24	**E**	**N**	**3**	**2**	-
100	LEN100LH4E	3.00	3.20	O.R.	55	67	O.R.	81	32	**F**	**M**	**3**	**2**	-
	LEN100LN4E	3.00	3.20	O.R.	55	67	O.R.	100	34	**F**	**P**	**3**	**2**	-
112	LEN112MH4E	2.70	3.10	O.R.	55	67	O.R.	110	45	**G**	**J**	**3**	**2**	-
132	LEN132SJ4E	2.50	3.10	O.R.	57	70	O.R.	210	61	**H**	**G**	**3**	**2**	-
	LEN132ML4E	2.70	3.20	O.R.	57	70	O.R.	290	74	**H**	**K**	**3**	**2**	-
	LEN132MS4E	2.50	3.10	O.R.	57	70	O.R.	362	85	**H**	**V**	**3**	**2**	-
160	LEN160MJ4E	2.50	3.10	O.R.	60	73	O.R.	510	103	**J**	**P**	**3**	**2**	-
	LEN160LH4E	2.70	3.20	O.R.	60	73	O.R.	660	130	**J**	**S**	**3**	**2**	-
180	LEN180MM4E	2.50	3.20	O.R.	61	74	O.R.	1 300	165	**K**	**L**	**3**	**2**	-
	LEN180LL4E	2.40	3.20	O.R.	61	74	O.R.	1 400	180	**K**	**N**	**3**	**2**	-
200	LEN200LN4E	2.70	3.20	O.R.	63	76	O.R.	2 200	238	**L**	**M**	**3**	**2**	-
6-pole, 1200 rpm at 60 Hz IE2														
80	LEN80MK6E	2.3	2.3	O.R.	44	56	O.R.	28	17.5	**D**	**F**	**3**	**2**	**P01**
90	LEN90SH6E	2.1	2.6	O.R.	48	60	O.R.	38	20	**E**	**C**	**3**	**2**	**P01**
	LEN90LN6E	2.4	2.8	O.R.	48	60	O.R.	46	25	**E**	**Q**	**3**	**2**	**P01**
100	LEN100LK6E	2.4	2.9	O.R.	52	64	O.R.	86	34	**F**	**N**	**3**	**2**	**P01**
112	LEN112MH6E	2.6	3.3	O.R.	54	66	O.R.	120	44	**G**	**J**	**3**	**2**	**P01**
132	LEN132SE6E	2.0	2.2	O.R.	56	69	O.R.	190	56	**H**	**F**	**3**	**2**	**P01**
	LEN132ME6E	2.2	2.5	O.R.	56	69	O.R.	240	66	**H**	**H**	**3**	**2**	**P01**
	LEN132MN6E	2.4	2.6	O.R.	56	69	O.R.	310	75	**H**	**L**	**3**	**2**	**P01**
160	LEN160ML6E	2.1	2.6	O.R.	60	73	O.R.	560	104	**J**	**G**	**3**	**2**	**P01**
	LEN160LN6E	2.1	2.6	O.R.	60	73	O.R.	770	132	**J**	**T**	**3**	**2**	**P01**
180	LEN180LE6E	2.3	3.0	O.R.	61	74	O.R.	1 800	170	**K**	**M**	**3**	**2**	**P01**
200	LEN200LG6E	2.3	2.8	O.R.	65	78	O.R.	2 700	220	**L**	**L**	**3**	**2**	**P01**
	LEN200LP6E	2.3	2.8	O.R.	65	78	O.R.	3 200	240	**L**	**N**	**3**	**2**	**P01**

O. R. On request

Selection and ordering data (continued)

Frame size	Motor	P_{rated}	n_{rated}	T_{rated}	I_{rated}	cos φ	η		Efficiency class	I_{St}/I_{rated}	Article No.				Order code
							4/4 load	3/4 load	acc. to IEC		Data position				Number of poles
		kW	rpm	Nm	A	-	%	%	60034-30	-	9th	10th	11th	12th	
2-pole 3 000 rpm at 50 Hz IE3															
80	LEN80ZME2P	0.75	2 835	2.5	1.64	0.86	80.7	82.9	IE3	6.0	**D**	**B**	**3**	**3**	**P00**
	LEN80ZMJ2P	1.10	2 870	3.7	2.45	0.83	82.7	84.0	IE3	6.5	**D**	**L**	**3**	**3**	**P00**
90	LEN90SM2P	1.50	2 900	4.9	3.15	0.86	84.2	84.8	IE3	6.5	**E**	**K**	**3**	**3**	**P00**
	LEN90LR2P	2.20	2 910	7.2	4.40	0.88	85.9	87.2	IE3	7.5	**E**	**N**	**3**	**3**	**P00**
100	LEN100LM2P	3.00	2 875	10	6.00	0.87	87.1	88.3	IE3	7.8	**F**	**K**	**3**	**3**	**P00**
112	LEN112MJ2P	4.00	2 925	13.1	7.70	0.90	88.1	89.6	IE3	7.8	**G**	**G**	**3**	**3**	**P00**
132	LEN132SJ2P	5.50	2 930	17.9	10.50	0.89	89.2	90.2	IE3	7.5	**H**	**E**	**3**	**3**	**P00**
	LEN132SR2P	7.50	2 925	24.5	14.10	0.90	90.1	91.5	IE3	7.5	**H**	**G**	**3**	**3**	**P00**
160	LEN160MH2P	11.00	2 935	35.8	20.50	0.89	91.2	92.0	IE3	7.5	**J**	**N**	**3**	**3**	**P00**
	LEN160MP2P	15.00	2 930	48.9	28.00	0.89	91.9	92.6	IE3	7.5	**J**	**P**	**3**	**3**	**P00**
	LEN160LM2P	18.50	2 940	60.1	34.00	0.89	92.4	93.0	IE3	7.8	**J**	**T**	**3**	**3**	**P00**
4-pole 1500 rpm at 50 Hz IE3															
80	LEN80ZMH4P	0.55	1 440	3.6	1.36	0.76	80.8	81.8	-/-	5.5	**D**	**D**	**3**	**3**	**-**
	LEN80ZMQ4P	0.75	1 445	5.0	1.84	0.75	82.5	82.9	IE3	6.0	**D**	**E**	**3**	**3**	**-**
90	LEN90SN4P	1.10	1 430	7.3	2.50	0.79	84.1	85.1	IE3	6.5	**E**	**L**	**3**	**3**	**-**
	LEN90LR4P	1.50	1 440	9.9	3.40	0.79	85.3	86.0	IE3	6.5	**E**	**N**	**3**	**3**	**-**
100	LEN100LU4P	2.20	1 445	14.5	4.70	0.82	86.7	87.1	IE3	8.3	**F**	**L**	**3**	**3**	**-**
	LEN100LZ4P	3.00	1 450	19.8	6.30	0.82	87.7	88.1	IE3	8.3	**F**	**M**	**3**	**3**	**-**
112	LEN112MR4P	4.00	1 450	26.3	8.40	0.82	88.6	89.6	IE3	8.3	**G**	**J**	**3**	**3**	**-**
132	LEN132SR4P	5.50	1 455	36.1	11.10	0.84	89.6	90.9	IE3	7.8	**H**	**G**	**3**	**3**	**-**
	LEN132MT4P	7.50	1 455	49.2	14.80	0.85	90.4	91.7	IE3	7.8	**H**	**J**	**3**	**3**	**-**
160	LEN160MRA4P	9.20	1 455	60.4	17.90	0.86	91.0	O.R.	IE3	7.8	**J**	**Q**	**3**	**3**	**-**
	LEN160MRB4P	11.00	1 460	72.0	21.50	0.86	91.4	92.4	IE3	7.8	**J**	**R**	**3**	**3**	**-**
	LEN160LQ4P	15.00	1 460	98.1	29.00	0.86	92.1	92.9	IE3	7.8	**J**	**U**	**3**	**3**	**-**
180	LEN180MQ4P	18.50	1 470	120.0	36.50	0.83	92.6	93.0	IE3	7.8	**K**	**L**	**3**	**3**	**-**
	LEN180LQ4P	22.00	1 470	143.0	43.50	0.83	93.0	93.7	IE3	7.8	**K**	**P**	**3**	**3**	**-**
200	LEN200LT4P	30.00	1 470	195.0	58.00	0.84	93.6	94.3	IE3	7.8	**L**	**N**	**3**	**3**	**-**
6-pole 1000 rpm at 50 Hz IE3															
80	LEN80ZMQ6P	0.55	935	5.6	1.62	0.67	77.2	77.5	-/-	5.0	**D**	**E**	**3**	**3**	**P01**
90	LEN90SS6P	0.75	940	7.6	2.05	0.70	78.9	80.3	IE3	5.0	**E**	**D**	**3**	**3**	**P01**
	LEN90LT6P	1.10	945	11.1	3.00	0.69	81.0	81.6	IE3	5.5	**E**	**P**	**3**	**3**	**P01**
100	LEN100LV6P	1.50	945	15.2	3.75	0.74	82.5	84.1	IE3	5.5	**F**	**N**	**3**	**3**	**P01**
112	LEN112MP6P	2.20	945	22.2	5.40	0.74	84.3	86.1	IE3	6.0	**G**	**H**	**3**	**3**	**P01**
132	LEN132SM6P	3.00	965	29.7	7.10	0.75	85.6	86.6	IE3	6.0	**H**	**F**	**3**	**3**	**P01**
	LEN132ML6P	4.00	955	40.0	9.30	0.75	86.8	88.5	IE3	6.0	**H**	**H**	**3**	**3**	**P01**
	LEN132MY6P	5.50	960	54.7	12.50	0.76	88.0	89.2	IE3	6.5	**H**	**K**	**3**	**3**	**P01**
160	LEN160MT6P	7.50	965	74.2	16.40	0.78	89.1	90.4	IE3	6.5	**J**	**J**	**3**	**3**	**P01**
	LEN160LY6P	11.00	970	108.0	23.50	0.77	90.3	90.3	IE3	7.0	**J**	**V**	**3**	**3**	**P01**
180	LEN180LJ6P	15.00	975	147.0	31.00	0.80	91.2	92.1	IE3	7.0	**K**	**M**	**3**	**3**	**P01**
200	LEN200LM6P	18.50	978	181.0	38.50	0.80	91.7	92.5	IE3	7.0	**L**	**L**	**3**	**3**	**P01**
	LEN200LS6P	22.00	978	215.0	45.50	0.80	92.2	93.1	IE3	7.0	**L**	**M**	**3**	**3**	**P01**

Selection and ordering data (continued)

Frame size	Motor	T_{St}/T_{rated}	T_{BK}/T_{rated}	T_A/T_{rated}	L_{pfA}	L_{WA}	Z_0	J_{mot}	m_{mot}	Article No. Data position 9th	10th	11th	12th	Order code Number of poles
		-	-	-	dB (A)	dB (A)	1/h	10^{-4} kgm²	kg					
2-pole, 3 000 rpm at 50 Hz IE3														
80	LEN80ME2P	2.4	3.0	O.R.	53	65	O.R.	20.8	16	**D**	**B**	**3**	**3**	**P00**
	LEN80MJ2P	2.4	3.4	O.R.	53	65	O.R.	15.4	18	**D**	**L**	**3**	**3**	**P00**
90	LEN90SM2P	2.0	3.4	O.R.	60	72	O.R.	27.6	24	**E**	**K**	**3**	**3**	**P00**
	LEN90LR2P	2.3	3.6	O.R.	60	72	O.R.	35.6	28	**E**	**N**	**3**	**3**	**P00**
100	LEN100LM2P	2.6	3.6	O.R.	62	74	O.R.	46.2	39	**F**	**K**	**3**	**3**	**P00**
112	LEN112MJ2P	2.6	3.6	O.R.	63	75	O.R.	88	46	**G**	**G**	**3**	**3**	**P00**
132	LEN132SJ2P	2.3	3.6	O.R.	66	79	O.R.	185	64	**H**	**E**	**3**	**3**	**P00**
	LEN132SR2P	2.3	3.6	O.R.	66	79	O.R.	232	71	**H**	**G**	**3**	**3**	**P00**
160	LEN160MH2P	2.3	2.5	O.R.	67	80	O.R.	390	99	**J**	**N**	**3**	**3**	**P00**
	LEN160MP2P	2.4	3.4	O.R.	67	80	O.R.	472	107	**J**	**P**	**3**	**3**	**P00**
	LEN160LM2P	2.4	3.4	O.R.	67	80	O.R.	577	131	**J**	**T**	**3**	**3**	**P00**
4-pole, 1 500 rpm at 50 Hz IE3														
80	LEN80ZMH4P	2.2	3.2	O.R.	45	57	O.R.	21.6	16.5	**D**	**D**	**3**	**3**	-
	LEN80ZMQ4P	2.7	3.7	O.R.	45	57	O.R.	25	18	**D**	**E**	**3**	**3**	-
90	LEN90SN4P	2.7	3.7	O.R.	47	59	O.R.	38.9	24	**E**	**L**	**3**	**3**	-
	LEN90LR4P	2.7	3.8	O.R.	47	59	O.R.	49.9	27	**E**	**N**	**3**	**3**	-
100	LEN100LU4P	3.7	4.6	O.R.	55	67	O.R.	112.5	42	**F**	**L**	**3**	**3**	-
	LEN100LZ4P	3.7	4.6	O.R.	55	67	O.R.	131.3	46	**F**	**M**	**3**	**3**	-
112	LEN112MR4P	3.7	4.6	O.R.	55	67	O.R.	149	52	**G**	**J**	**3**	**3**	-
132	LEN132SR4P	2.4	3.8	O.R.	57	70	O.R.	285	71	**H**	**G**	**3**	**3**	-
	LEN132MT4P	2.4	3.8	O.R.	57	70	O.R.	356	83	**H**	**J**	**3**	**3**	-
160	LEN160MRA4P	2.4	3.8	O.R.	60	73	O.R.	O.R.	105	**J**	**Q**	**3**	**3**	-
	LEN160MRB4P	2.4	3.8	O.R.	60	73	O.R.	648	110	**J**	**R**	**3**	**3**	-
	LEN160LQ4P	2.6	3.8	O.R.	60	73	O.R.	811	134	**J**	**U**	**3**	**3**	-
180	LEN180MQ4P	2.6	3.6	O.R.	63	76	O.R.	1 350	170	**K**	**L**	**3**	**3**	-
	LEN180LQ4P	2.6	3.6	O.R.	63	76	O.R.	1 560	192	**K**	**P**	**3**	**3**	-
200	LEN200LT4P	2.6	3.6	O.R.	63	76	O.R.	2 500	255	**L**	**N**	**3**	**3**	-
6-pole, 1 000 rpm at 50 Hz IE3														
80	LEN80MQ6P	2.7	3.4	O.R.	44	56	O.R.	31	19.5	**D**	**E**	**3**	**3**	**P01**
90	LEN90SS6P	2.4	3.2	O.R.	48	60	O.R.	43.6	25	**E**	**D**	**3**	**3**	**P01**
	LEN90LT6P	2.7	3.5	O.R.	48	60	O.R.	51.3	28	**E**	**P**	**3**	**3**	**P01**
100	LEN100LV6P	2.7	3.5	O.R.	52	64	O.R.	113.6	42	**F**	**N**	**3**	**3**	**P01**
112	LEN112MP6P	2.7	3.4	O.R.	54	66	O.R.	145.1	50	**G**	**H**	**3**	**3**	**P01**
132	LEN132SM6P	2.7	4.0	O.R.	56	69	O.R.	266.6	67	**H**	**F**	**3**	**3**	**P01**
	LEN132ML6P	2.3	3.4	O.R.	56	69	O.R.	305	76	**H**	**H**	**3**	**3**	**P01**
	LEN132MY6P	2.3	4.0	O.R.	56	69	O.R.	413	88	**H**	**K**	**3**	**3**	**P01**
160	LEN160MT6P	2.3	3.6	O.R.	60	73	O.R.	703	112	**J**	**J**	**3**	**3**	**P01**
	LEN160LY6P	2.3	3.6	O.R.	60	73	O.R.	707	144	**J**	**V**	**3**	**3**	**P01**
180	LEN180LJ6P	2.3	3.0	O.R.	57	93	O.R.	2 100	175	**K**	**M**	**3**	**3**	**P01**
200	LEN200LM6P	2.3	3.0	O.R.	57	93	O.R.	3 170	235	**L**	**L**	**3**	**3**	**P01**
	LEN200LS6P	2.3	3.0	O.R.	57	93	O.R.	3 620	251	**L**	**M**	**3**	**3**	**P01**

O. R. On request

Selection and ordering data (continued)

Frame size	Motor	P_{rated}	n_{rated}	T_{rated}	I_{rated}	cos φ	η		Efficiency class	I_{St}/I_{rated}	Article No.				Order code
							4/4 load	3/4 load	acc. to IEC		Data position				Number of poles
		kW	rpm	Nm	A	-	%	%	60034-30	-	9th	10th	11th	12th	
2-pole 3 600 rpm at 60 Hz IE3															
80	LEN80ZME2P	0.90	3 440	2.4	1.71	0.86	77.0	77.9	IE3	6.0	**D**	**B**	**3**	**3**	**P00**
	LEN80ZMJ2P	1.30	3 460	3.6	2.35	0.84	85.5	86.5	IE3	6.5	**D**	**L**	**3**	**3**	**P00**
90	LEN90SM2P	1.80	3 500	4.8	3.10	0.87	85.5	85.7	IE3	6.5	**E**	**K**	**3**	**3**	**P00**
	LEN90LR2P	2.60	3 510	6.9	4.35	0.89	86.5	87.2	IE3	7.5	**E**	**N**	**3**	**3**	**P00**
100	LEN100LM2P	3.50	3 470	9.5	5.80	0.88	88.5	89.5	IE3	7.8	**F**	**K**	**3**	**3**	**P00**
112	LEN112MJ2P	4.60	3 525	12.5	7.40	0.91	89.5	90.4	IE3	7.8	**G**	**G**	**3**	**3**	**P00**
132	LEN132SJ2P	6.30	3 530	17.0	10.10	0.91	89.5	90.2	IE3	7.5	**H**	**E**	**3**	**3**	**P00**
	LEN132SR2P	8.60	3 525	23.3	13.60	0.92	90.2	91.2	IE3	7.5	**H**	**G**	**3**	**3**	**P00**
160	LEN160MH2P	12.60	3 535	34.0	20.50	0.89	91.0	91.4	IE3	7.5	**J**	**N**	**3**	**3**	**P00**
	LEN160MP2P	17.30	3 530	46.8	27.50	0.90	91.7	92.3	IE3	7.5	**J**	**P**	**3**	**3**	**P00**
	LEN160LM2P	21.30	3 540	57.5	34.00	0.90	91.7	92.2	IE3	7.8	**J**	**T**	**3**	**3**	**P00**
4-pole 1 800 rpm at 60 Hz IE3															
80	LEN80ZMH4P	0.63	1 730	3.5	1.32	0.76	82.5	83.6	-/-	5.5	**D**	**D**	**3**	**3**	**-**
	LEN80ZMQ4P	0.86	1 735	4.7	1.81	0.75	83.0	83.7	IE3	6.0	**D**	**E**	**3**	**3**	**-**
90	LEN90SN4P	1.30	1 715	7.2	2.50	0.79	85.6	87.0	IE3	6.5	**E**	**L**	**3**	**3**	**-**
	LEN90LR4P	1.75	1 730	9.7	3.40	0.79	85.5	86.5	IE3	6.5	**E**	**N**	**3**	**3**	**-**
100	LEN100LU4P	2.55	1 735	14.0	4.70	0.82	86.6	87.7	IE3	8.3	**F**	**L**	**3**	**3**	**-**
	LEN100LZ4P	3.45	1 740	18.9	6.30	0.82	87.7	88.5	IE3	8.3	**F**	**M**	**3**	**3**	**-**
112	LEN112MR4P	4.60	1 740	25.2	8.30	0.82	89.1	90.3	IE3	8.3	**G**	**J**	**3**	**3**	**-**
132	LEN132SR4P	6.30	1 745	34.5	10.90	0.84	89.9	91.5	IE3	7.8	**H**	**G**	**3**	**3**	**-**
	LEN132MT4P	8.60	1 745	47.1	14.70	0.85	90.2	92.0	IE3	7.8	**H**	**J**	**3**	**3**	**-**
160	LEN160MRA4P	10.50	1 745	57.5	17.50	0.86	91.7	O.R.	IE3	7.8	**J**	**Q**	**3**	**3**	**-**
	LEN160MRB4P	12.60	1 750	68.8	21.00	0.86	92.3	93.1	IE3	7.8	**J**	**R**	**3**	**3**	**-**
	LEN160LQ4P	17.30	1 750	94.4	28.50	0.86	92.6	93.4	IE3	7.8	**J**	**U**	**3**	**3**	**-**
180	LEN180MQ4P	21.30	1 765	120.0	36.00	0.83	93	93.3	IE3	7.8	**K**	**L**	**3**	**3**	**-**
	LEN180LQ4P	24.50	1 765	143.0	41.50	0.83	93.5	93.8	IE3	7.8	**K**	**P**	**3**	**3**	**-**
200	LEN200LT4P	33.50	1 765	195.0	56.00	0.84	93.9	94.1	IE3	7.8	**L**	**N**	**3**	**3**	**-**
6-pole 1 200 rpm at 60 Hz IE3															
80	LEN80ZMQ6P	0.60	1 135	5.3	1.60	0.66	78.0	78.3	IE3	5.0	**D**	**E**	**3**	**3**	**P01**
90	LEN90SS6P	0.90	1 140	7.2	2.05	0.69	80.0	81.1	IE3	5.0	**E**	**D**	**3**	**3**	**P01**
	LEN90LT6P	1.30	1 145	10.8	3.10	0.68	81.3	81.8	IE3	5.5	**E**	**P**	**3**	**3**	**P01**
100	LEN100LV6P	1.80	1 145	14.6	3.85	0.71	84.1	85.3	IE3	5.5	**F**	**N**	**3**	**3**	**P01**
112	LEN112MP6P	2.60	1 145	21.3	5.20	0.75	85.2	86.5	IE3	6.0	**G**	**H**	**3**	**3**	**P01**
132	LEN132SM6P	3.50	1 165	28.3	6.90	0.74	89.1	89.7	IE3	6.0	**H**	**F**	**3**	**3**	**P01**
	LEN132ML6P	4.60	1 155	38.0	9.10	0.76	87.1	88.2	IE3	6.0	**H**	**H**	**3**	**3**	**P01**
	LEN132MY6P	6.30	1 160	51.9	12.50	0.75	88.5	89.2	IE3	6.5	**H**	**K**	**3**	**3**	**P01**
160	LEN160MT6P	8.60	1 165	70.5	16.10	0.79	89.2	90.0	IE3	6.5	**J**	**J**	**3**	**3**	**P01**
	LEN160LY6P	12.60	1 170	103.0	24.50	0.75	90.1	90.5	IE3	7.0	**J**	**V**	**3**	**3**	**P01**
180	LEN180LJ6P	17.30	1 170	147.0	31.00	0.80	91.7	91.9	IE3	7.0	**K**	**M**	**3**	**3**	**P01**
200	LEN200LM6P	21.30	1 175	181.0	38.00	0.80	92.2	92.5	IE3	7.0	**L**	**L**	**3**	**3**	**P01**
	LEN200LS6P	24.50	1 175	215.0	43.50	0.80	92.6	92.9	IE3	7.0	**L**	**M**	**3**	**3**	**P01**

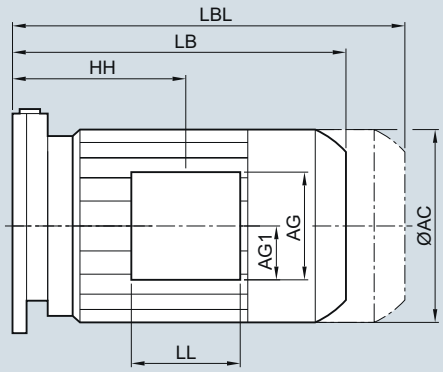
Selection and ordering data (continued)

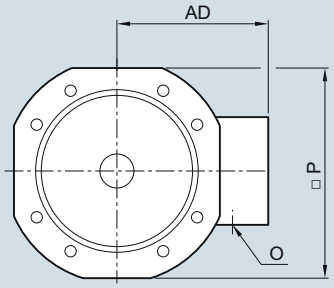
Frame size	Motor	T_{St}/T_{rated}	T_{BK}/T_{rated}	T_A/T_{rated}	L_{pfA}	L_{WA}	Z_0	J_{mot}	m_{mot}	Article No. Data position 9th	10th	11th	12th	Order code Number of poles
		-	-	-	dB (A)	dB (A)	1/h	10^{-4} kgm²	kg					
2-pole, 3 600 rpm at 60 Hz IE3														
80	LEN80ME2P	2.4	3.0	O.R.	53	65	O.R.	20.83	16	**D**	**B**	**3**	**3**	**P00**
	LEN80MJ2P	2.4	3.4	O.R.	53	65	O.R.	15.37	18	**D**	**L**	**3**	**3**	**P00**
90	LEN90SM2P	2.0	3.4	O.R.	60	72	O.R.	27.64	24	**E**	**K**	**3**	**3**	**P00**
	LEN90LR2P	2.3	3.6	O.R.	60	72	O.R.	35.57	28	**E**	**N**	**3**	**3**	**P00**
100	LEN100LM2P	2.6	3.6	O.R.	62	74	O.R.	46.19	39	**F**	**K**	**3**	**3**	**P00**
112	LEN112MJ2P	2.6	3.6	O.R.	63	75	O.R.	87.90	46	**G**	**G**	**3**	**3**	**P00**
132	LEN132SJ2P	2.3	3.6	O.R.	66	79	O.R.	184.70	64	**H**	**E**	**3**	**3**	**P00**
	LEN132SR2P	2.3	3.6	O.R.	66	79	O.R.	232.31	71	**H**	**G**	**3**	**3**	**P00**
160	LEN160MH2P	2.3	2.5	O.R.	67	80	O.R.	390.30	99	**J**	**N**	**3**	**3**	**P00**
	LEN160MP2P	2.4	3.4	O.R.	67	80	O.R.	472.00	107	**J**	**P**	**3**	**3**	**P00**
	LEN160LM2P	2.4	3.4	O.R.	67	80	O.R.	577.30	131	**J**	**T**	**3**	**3**	**P00**
4-pole, 1 800 rpm at 60 Hz IE3														
80	LEN80ZMH4P	2.2	3.2	O.R.	45	57	O.R.	21.55	16.5	**D**	**D**	**3**	**3**	**-**
	LEN80ZMQ4P	2.7	3.7	O.R.	45	57	O.R.	25.01	18	**D**	**E**	**3**	**3**	**-**
90	LEN90SN4P	2.7	3.7	O.R.	47	59	O.R.	38.88	24	**E**	**L**	**3**	**3**	**-**
	LEN90LR4P	2.7	3.8	O.R.	47	59	O.R.	49.92	27	**E**	**N**	**3**	**3**	**-**
100	LEN100LU4P	3.7	4.6	O.R.	55	67	O.R.	112.50	42	**F**	**L**	**3**	**3**	**-**
	LEN100LZ4P	3.7	4.6	O.R.	55	67	O.R.	131.30	46	**F**	**M**	**3**	**3**	**-**
112	LEN112MR4P	3.7	4.6	O.R.	55	67	O.R.	149.28	52	**G**	**J**	**3**	**3**	**-**
132	LEN132SR4P	2.4	3.8	O.R.	57	70	O.R.	284.65	71	**H**	**G**	**3**	**3**	**-**
	LEN132MT4P	2.4	3.8	O.R.	57	70	O.R.	356.10	83	**H**	**J**	**3**	**3**	**-**
160	LEN160MRA4P	2.4	3.8	O.R.	60	73	O.R.	O.R.	105	**J**	**Q**	**3**	**3**	**-**
	LEN160MRB4P	2.4	3.8	O.R.	60	73	O.R.	648.20	110	**J**	**R**	**3**	**3**	**-**
	LEN160LQ4P	2.6	3.8	O.R.	60	73	O.R.	810.90	134	**J**	**U**	**3**	**3**	**-**
180	LEN180MQ4P	2.6	3.6	O.R.	61	74	O.R.	1 350.00	170	**K**	**L**	**3**	**3**	**-**
	LEN180LQ4P	2.6	3.6	O.R.	61	74	O.R.	1 560.00	192	**K**	**P**	**3**	**3**	**-**
200	LEN200LT4P	2.6	3.6	O.R.	63	76	O.R.	2 500.00	255	**L**	**N**	**3**	**3**	**-**
6-pole, 1 200 rpm at 60 Hz IE3														
80	LEN80MQ6P	2.7	3.4	O.R.	44	56	O.R.	31.01	19.5	**D**	**E**	**3**	**3**	**P01**
90	LEN90SS6P	2.4	3.2	O.R.	48	60	O.R.	43.60	25	**E**	**D**	**3**	**3**	**P01**
	LEN90LT6P	2.7	3.5	O.R.	48	60	O.R.	51.30	28	**E**	**P**	**3**	**3**	**P01**
100	LEN100LV6P	2.7	3.5	O.R.	52	64	O.R.	113.60	42	**F**	**N**	**3**	**3**	**P01**
112	LEN112MP6P	2.7	3.4	O.R.	54	66	O.R.	145.06	50	**G**	**H**	**3**	**3**	**P01**
132	LEN132SM6P	2.7	4.0	O.R.	56	69	O.R.	266.60	67	**H**	**F**	**3**	**3**	**P01**
	LEN132ML6P	2.3	3.4	O.R.	56	69	O.R.	304.50	76	**H**	**H**	**3**	**3**	**P01**
	LEN132MY6P	2.3	4.0	O.R.	56	69	O.R.	412.50	88	**H**	**K**	**3**	**3**	**P01**
160	LEN160MT6P	2.3	3.6	O.R.	60	73	O.R.	703.00	112	**J**	**J**	**3**	**3**	**P01**
	LEN160LY6P	2.3	3.6	O.R.	60	73	O.R.	706.80	144	**J**	**V**	**3**	**3**	**P01**
180	LEN180LJ6P	2.3	3.0	O.R.	61	74	O.R.	2 100.00	175	**K**	**M**	**3**	**3**	**P01**
200	LEN200LM6P	2.3	3.0	O.R.	65	78	O.R.	3 170.00	235	**L**	**L**	**3**	**3**	**P01**
	LEN200LS6P	2.3	3.0	O.R.	65	78	O.R.	3 620.00	251	**L**	**M**	**3**	**3**	**P01**

O. R. On request

Motor frame size LHN63 to LHN225 (S3-75%, IE2)

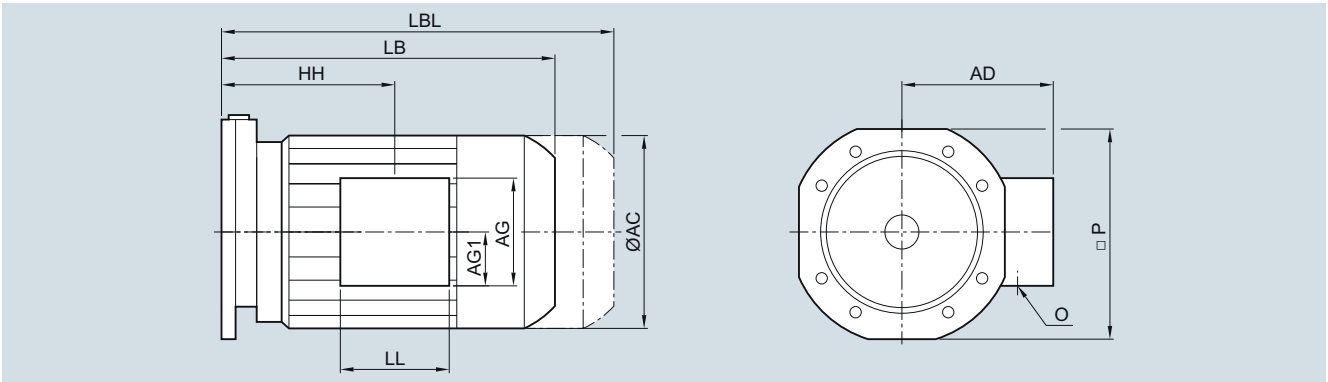
Overview





Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LHN63	19	-	-	19	-	-	-	83.5	179	224	118	110	M20x1.5+M25x1.5	89	89	44.5
	29	-	29	29	-	29	120	117	212.5	257.5						
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	107.5	203	248						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
LHN71	19	-	-	19	-	-	-	104.5	192.5	247.5	139	120	M20x1.5+M25x1.5	89	89	44.5
	29	-	29	29	-	29	120	146	234	289						
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	136.5	224.5	279.5						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	134.5	222.5	277.5						
	-	-	-	-	89	89										
LHN80	19	-	-	19	-	-	-	119.5	246.5	306.5	154.5	153	2×M25×1.5	104	104	52
	29	-	29	29	-	29	120	169.5	296.5	356.5						
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	160	287	347						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	154	281	341						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	141	268	328						
	-	-	-	-	109	-										
LHN90S	29	-	29	29	-	29	120	164.5	321.5	391.5	174	161	2×M25×1.5	104	104	44.5
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	155	312	382						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	149	306	376						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	136	293	363						
	-	-	-	-	109	-										
	-	-	-	-	129	-	300	129	286	356						
	109	109	109	-	-	-										
	129	129	129	-	-	-	350	122	279	349						
	-	-	-	-	149	-										

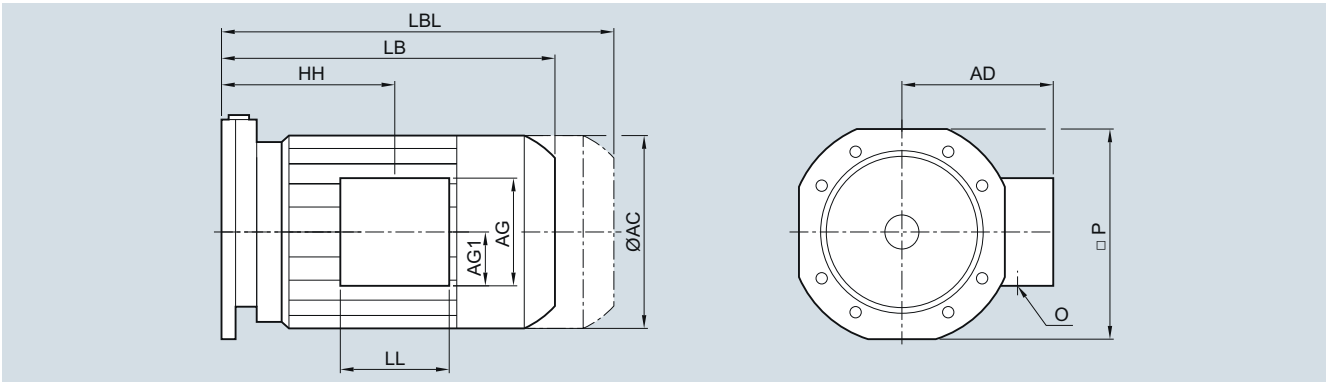
Overview (continued)



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LHN90L	29	-	29	29	-	29	120	189.5	346.5	416.5	174	161	2×M25×1.5	104	104	52
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	180	337	407						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	174	331	401						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	161	318	388						
	-	-	-	-	109	-										
	-	-	-	-	129	-	300	154	311	381						
	109	109	109	-	-	-										
	129	129	129	-	-	-	350	147	304	374						
	-	-	-	-	149	-										
LHN100	29	-	29	29	-	-	120	250.25	421	499.5	197	172	1×M32×1.5+1×M25×1.5	104	104	52
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	240.75	411.5	490						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	234.75	405.5	484						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	217.75	388.5	467						
	-	-	-	-	109	-										
	-	-	-	-	129	-	300	208.75	379.5	458						
	109	109	109	-	-	-										
	129	129	129	-	-	-	350	199.75	370.5	449						
	149	149	149	-	-	-	405	198.25	369	447.5						
LHN112	39	39	39	39	39	-	120	285	457	530	222	200.5	M32x1.5+M32x1.5	180	180	90
	49	49	49	49	49	49	160	275.5	447.5	520.5						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	269.5	441.5	514.5						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	252.5	424.5	497.5						
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	243.5	415.5	488.5						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	234.5	406.5	479.5						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	233	405	478						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	220.5	392.5	465.5						
	189	-	189	-	189	-										

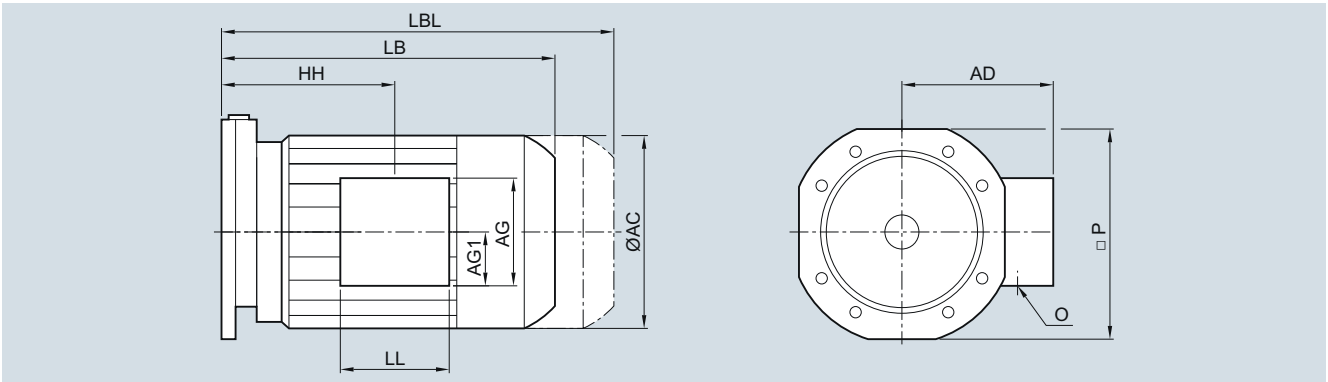
Motor frame size LHN63 to LHN225 (S3-75%, IE2)

Overview (continued)



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LHN132	49	49	49	49	49	-	160	353	539.5	644	262	220.5	M32x1.5+M32x1.5	180	180	90
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	347	533.5	638						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	330	516.5	621						
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	321	507.5	612						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	310	496.5	601						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	303.5	490	594.5						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	290.5	477	581.5						
	189	-	189	-	189	-										
LHN160	79	-	79	-	-	-	198	384.5	630.5	746.5	315.5	254.5	M40x1.5+M40x1.5	180	180	90
	-	-	-	-	89	-										
	89	89	89	-	-	-	245	367.5	613.5	729.5						
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	358.5	604.5	720.5						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	347.5	593.5	709.5						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	341	587	703						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	328	574	690						
	189	-	189	-	189	-										
LHN180	89	89	89	-	-	-	245	385	648	777	350	270.5	M40x1.5+M40x1.5	180	180	90
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	376	639	768						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	365	628	757						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	358.5	621.5	750.5						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	345	608	737						
	189	-	189	-	189	-										

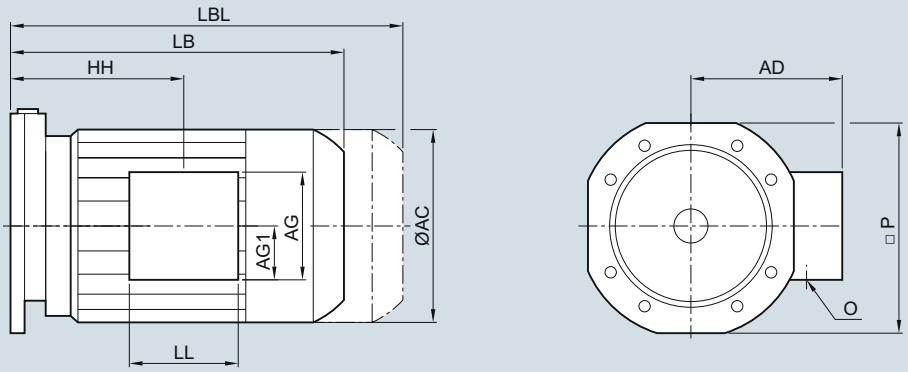
Overview (continued)



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LHN200	109	109	109	-	-	-	330	447.5	731.5	878.5	391	285.5	M50x1.5+M50x1.5	180	180	90
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	436.5	720.5	867.5						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	430	714	861						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	416.5	700.5	847.5						
	189	-	189	-	189	-										
LHN225	109	109	109	-	-	-	300	451	759	906	450	324	M50x1.5+M50x1.5	175	175	87.5
	-	-	-	-	129	-										
	129	129	129	-	-	-	350	440	748	895						
	-	-	-	-	149	-										
	149	149	149	-	-	-	405	433.5	741.5	888.5						
	-	-	-	-	169	-										
	169	-	169	-	-	-	466	419	727	874						
	189	-	189	-	189	-										
LHN250	129	129	129	-	-	-	350	512.5	873.5	998.5	485	360	M50x1.5+M50x1.5	216	246	123
	-	-	-	-	149	-										
	149	149	149	-	-	-	405	506	867	992						
	-	-	-	-	169	-										
	169	-	169	-	-	-	466	487.5	848.5	973.5						
	189	-	189	-	189	-										

Motor frame size LEN80 to LEN200 (IE2)

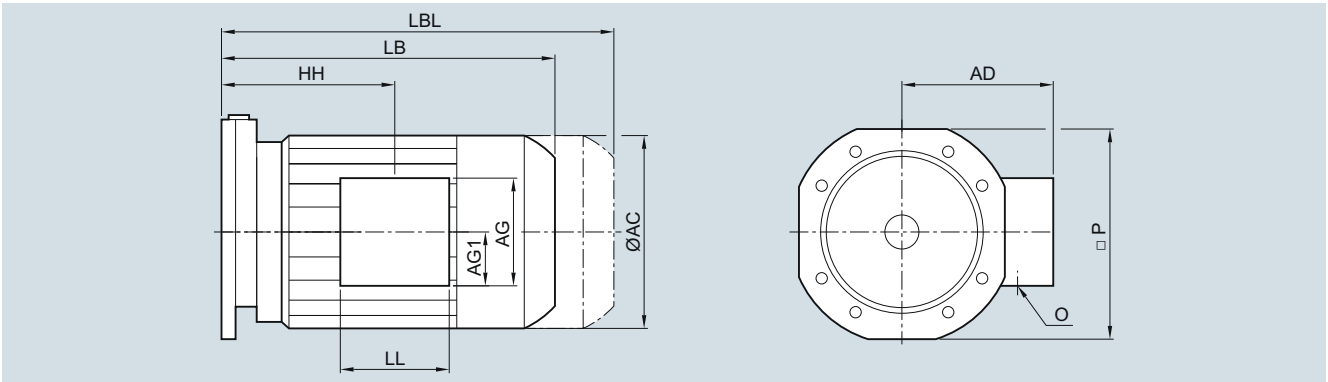
Overview



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LEN80M	19	-	-	19	-	-	-	112	235.5	295.5	154.5	145.5	M25x1.5+M16x1.5	109	131	65.5
	29	-	29	29	-	29	120	162	285.5	345.5						
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	152.5	276	336						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	146.5	270	330						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	133.5	257	317						
	-	-	-	-	109	-										
LEN90S	29	-	29	29	-	29	120	171.5	321.5	391.5	174	155.5	M25x1.5+M16x1.5	109	131	65.5
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	162	312	382						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	156	306	376						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	143	293	363						
	-	-	-	-	109	-										
	-	-	-	-	129	-	330	136	286	356						
	109	109	109	-	-	-										
	129	129	129	-	-	-	375	129	279	349						
	-	-	-	-	149	-										
LEN90L	29	-	29	29	-	29	120	196.5	346.5	416.5	174	155.5	M25x1.5+M16x1.5	109	131	65.5
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	187	337	407						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	181	331	401						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	168	318	388						
	-	-	-	-	109	-										
	-	-	-	-	129	-	330	161	311	381						
	109	109	109	-	-	-										
	129	129	129	-	-	-	375	154	304	374						
	-	-	-	-	149	-										

7

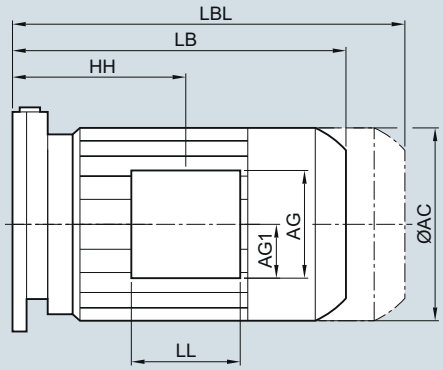
Overview (continued)

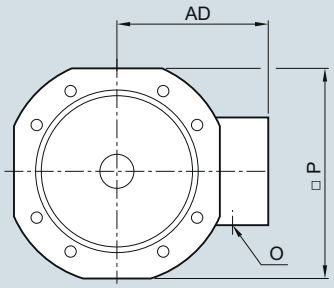


Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LEN100L	29	-	29	29	-	-	120	260.5	423.5	502	197	175.5	M32x1.5+M32x1.5	118	140	70
	39	39	39	39	39	39										
	49	49	49	49	49	49	160	251	414	492.5						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	245	408	486.5						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	228	391	469.5						
	-	-	-	-	109	-										
	-	-	-	-	129	-	330	219	382	460.5						
	109	109	109	-	-	-										
	129	129	129	-	-	-	375	210	373	451.5						
	149	149	149	-	-	-	450	208.5	371.5	450						
LEN112M	39	39	39	39	39	-	120	273	443	516	222	190	M32x1.5+M32x1.5	118	140	70
	49	49	49	49	49	49	160	263.5	433.5	506.5						
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	257.5	427.5	500.5						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	240.5	410.5	483.5						
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	231.5	401.5	474.5						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	222.5	392.5	465.5						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	221	391	464						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	208.5	378.5	451.5						
	189	-	189	-	189	-										
LEN132S	49	49	49	49	49	-	160	281	477.5	582	262	213	M32x1.5+M32x1.5	118	140	70
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	275	471.5	576						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	258	454.5	559						
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	249	445.5	550						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	238	434.5	539						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	231.5	428	532.5						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	218.5	415	519.5						
	189	-	189	-	189	-										

Motor frame size LEN80 to LEN200 (IE2)

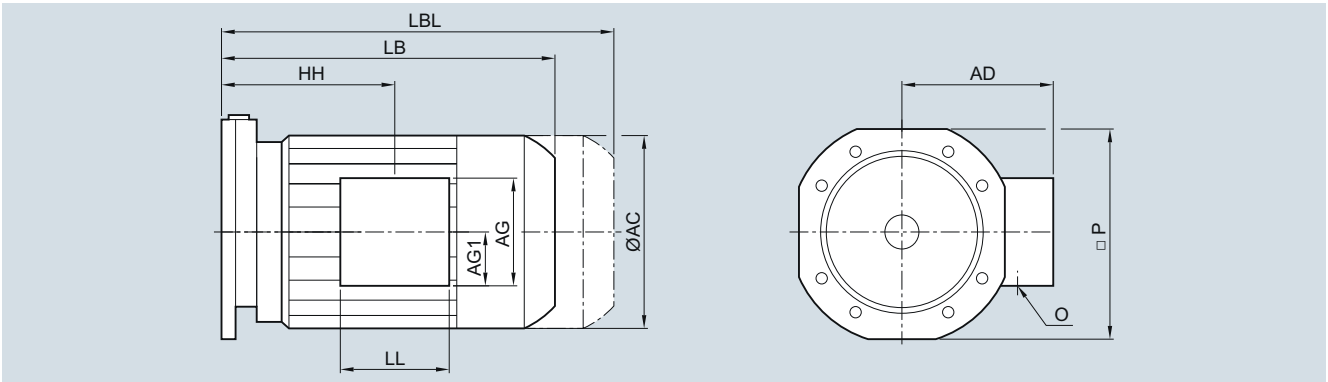
Overview (continued)





Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LEN132M	49	49	49	49	49	-	160	326	522.5	627	262	213	M32x1.5+M32x1.5	118	140	70
	59	-	-	-	-	-										
	69	-	69	-	69	69										
	-	-	-	-	79	-										
	79	69	79	-	-	-	198	320	516.5	621						
	-	-	-	-	89	89										
	89	89	89	-	-	-	245	303	499.5	604						
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	294	490.5	595						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	283	479.5	584						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	276.5	473	577.5						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	263.5	460	564.5						
	189	-	189	-	189	-										
LEN160M	79	69	79	-	-	-	198	309.5	556.5	672.5	315.5	255	M40x1.5+M40x1.5	158	188	94
	-	-	-	-	89	-										
	89	89	89	-	-	-	245	292.5	539.5	655.5						
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	283.5	530.5	646.5						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	272.5	519.5	635.5						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	266	513	629						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	253	500	616						
	189	-	189	-	189	-										
LEN160L	79	69	79	-	-	-	198	369.5	616.5	732.5	315.5	255	M40x1.5+M40x1.5	158	188	94
	-	-	-	-	89	-										
	89	89	89	-	-	-	245	352.5	599.5	715.5						
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	343.5	590.5	706.5						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	349.5	579.5	695.5						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	343	573	689						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	330	560	676						
	189	-	189	-	189	-										

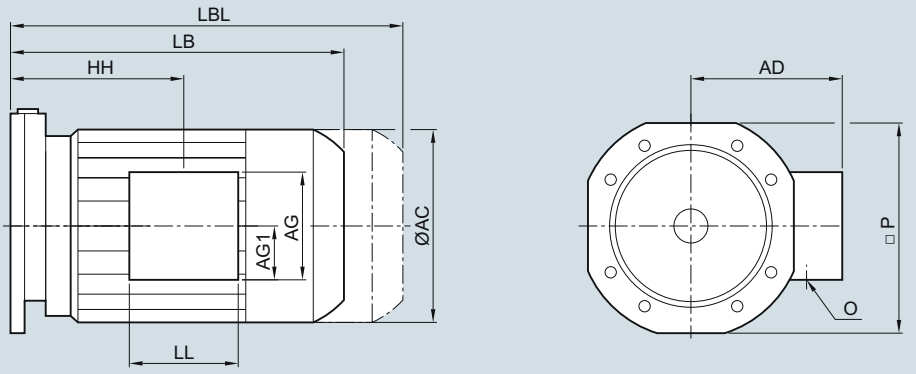
Overview (continued)



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LEN180M	89	89	89	-	-	-	245	359	619	748	350	268.5	M40x1.5+M40x1.5	158	188	94
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	350	610	739						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	339	599	728						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	332.5	592.5	721.5						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	319	579	708						
	189	-	189	-	189	-										
LEN180L	89	89	89	-	-	-	245	389	649	778	350	268.5	M40x1.5+M40x1.5	158	188	94
	-	-	-	-	109	-										
	109	109	109	-	-	-	330	380	640	769						
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	369	629	758						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	362.5	622.5	751.5						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	349	609	738						
	189	-	189	-	189	-										
LEN200L	109	109	109	-	-	-	330	398.5	713.5	860.5	391	299.5	M50x1.5+M50x1.5	215	243	121.5
	-	-	-	-	129	-										
	129	129	129	-	-	-	375	387.5	702.5	849.5						
	-	-	-	-	149	-										
	149	149	149	-	-	-	450	381	696	843						
	-	-	-	-	169	-										
	169	-	169	-	-	-	505	367.5	682.5	829.5						
	189	-	189	-	189	-										

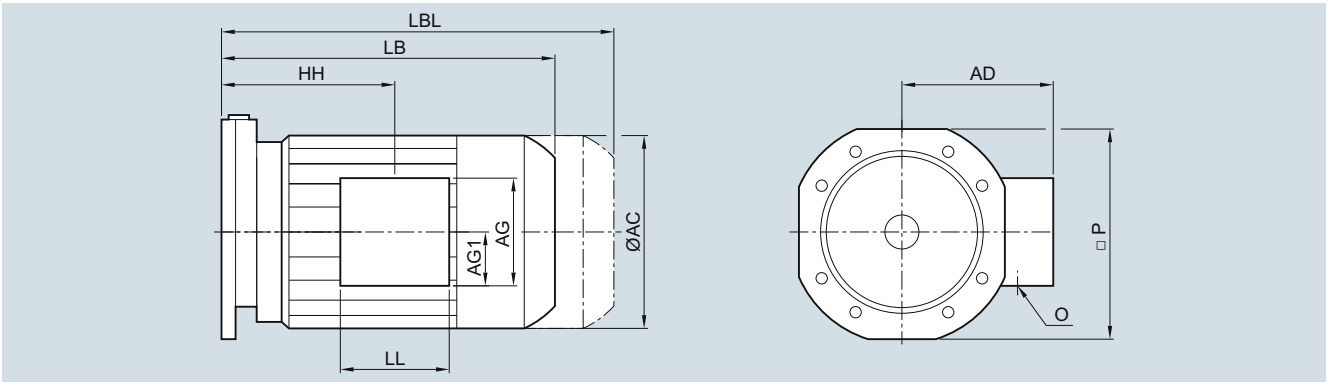
Motor frame size LEN80 to LEN200 (IE3)

Overview



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LEN80M	19	-	-	19	-	-	-	152	275.5	335.5	154.5	145.5	M25x1.5+M16x1.5	109	131	65.5
	29	-	29	29	-	29	120	202	325.5	385.5						
	39	39	39	39	39	39	-	-	-	-						
	49	49	49	49	49	49	160	192.5	316	376						
	59	-	-	-	-	-	-	-	-	-						
	69	-	69	-	69	69	-	-	-	-						
	-	-	-	-	79	-	-	-	-	-						
	79	69	79	-	-	-	198	186.5	310	370						
	-	-	-	-	89	89	-	-	-	-						
	89	89	89	-	-	-	245	173.5	297	357						
	-	-	-	-	109	-	-	-	-	-						
LEN90S	29	-	29	29	-	29	120	221.5	371.5	441.5	174	155.5	M25x1.5+M16x1.5	109	131	65.5
	39	39	39	39	39	39	-	-	-	-						
	49	49	49	49	49	49	160	212	362	432						
	59	-	-	-	-	-	-	-	-	-						
	69	-	69	-	69	69	-	-	-	-						
	-	-	-	-	79	-	-	-	-	-						
	79	69	79	-	-	-	198	206	356	426						
	-	-	-	-	89	89	-	-	-	-						
	89	89	89	-	-	-	245	193	343	413						
	-	-	-	-	109	-	-	-	-	-						
	-	-	-	-	129	-	300	186	336	406						
	109	109	109	-	-	-	-	-	-	-						
	129	129	129	-	-	-	350	179	329	399						
	-	-	-	-	149	-	-	-	-	-						
LEN90L	29	-	29	29	-	29	120	246.5	396.5	466.5	174	155.5	M25x1.5+M16x1.5	109	131	65.5
	39	39	39	39	39	39	-	-	-	-						
	49	49	49	49	49	49	160	237	387	457						
	59	-	-	-	-	-	-	-	-	-						
	69	-	69	-	69	69	-	-	-	-						
	-	-	-	-	79	-	-	-	-	-						
	79	69	79	-	-	-	198	231	381	451						
	-	-	-	-	89	89	-	-	-	-						
	89	89	89	-	-	-	245	218	368	438						
	-	-	-	-	109	-	-	-	-	-						
	-	-	-	-	129	-	300	211	361	431						
	109	109	109	-	-	-	-	-	-	-						
	129	129	129	-	-	-	350	204	354	424						
	-	-	-	-	149	-	-	-	-	-						

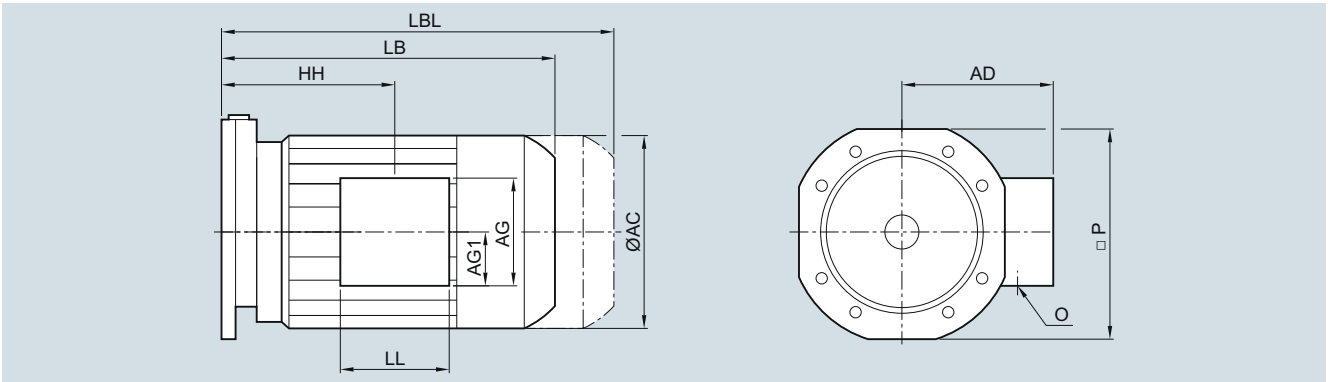
Overview (continued)



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LEN100L	29	-	29	29	-	-	120	330.5	493.5	572	197	175.5	M32x1.5+M32x1.5	118	140	70
	39	39	39	39	39	39	-	-	-	-						
	49	49	49	49	49	49	160	321	484	562.5						
	59	-	-	-	-	-	-	-	-	-						
	69	-	69	-	69	69	-	-	-	-						
	-	-	-	-	79	-	-	-	-	-						
	79	69	79	-	-	-	198	315	478	556.5						
	-	-	-	-	89	89	-	-	-	-						
	89	89	89	-	-	-	245	298	461	539.5						
	-	-	-	-	109	-	-	-	-	-						
	-	-	-	-	129	-	300	289	452	530.5						
	109	109	109	-	-	-	-	-	-	-						
	129	129	129	-	-	-	350	280	443	521.5						
	149	149	149	-	-	-	404	278.5	441.5	520						
LEN112M	39	39	39	39	39	-	120	328	498	571	222	190	M32x1.5+M32x1.5	118	140	70
	49	49	49	49	49	49	160	318.5	488.5	561.5						
	59	-	-	-	-	-	-	-	-	-						
	69	-	69	-	69	69	-	-	-	-						
	-	-	-	-	79	-	-	-	-	-						
	79	69	79	-	-	-	198	312.5	482.5	555.5						
	-	-	-	-	89	89	-	-	-	-						
	89	89	89	-	-	-	245	295.5	465.5	538.5						
	-	-	-	-	109	-	-	-	-	-						
	109	109	109	-	-	-	300	286.5	456.5	529.5						
	-	-	-	-	129	-	-	-	-	-						
	129	129	129	-	-	-	350	277.5	447.5	520.5						
	-	-	-	-	149	-	-	-	-	-						
	149	149	149	-	-	-	404	276	446	519						
	-	-	-	-	169	-	-	-	-	-						
	169	-	169	-	-	-	466	263.5	433.5	506.5						
	189	-	189	-	189	-	-	-	-	-						
LEN132S	49	49	49	49	49	-	160	316	512.5	617	262	213	M32x1.5+M32x1.5	118	140	70
	59	-	-	-	-	-	-	-	-	-						
	69	-	69	-	69	69	-	-	-	-						
	-	-	-	-	79	-	-	-	-	-						
	79	69	79	-	-	-	198	310	506.5	611						
	-	-	-	-	89	89	-	-	-	-						
	89	89	89	-	-	-	245	293	489.5	594						
	-	-	-	-	109	-	-	-	-	-						
	109	109	109	-	-	-	300	284	480.5	585						
	-	-	-	-	129	-	-	-	-	-						
	129	129	129	-	-	-	350	273	469.5	574						
	-	-	-	-	149	-	-	-	-	-						
	149	149	149	-	-	-	404	266.5	463	567.5						
	-	-	-	-	169	-	-	-	-	-						
	169	-	169	-	-	-	466	253.5	450	554.5						
	189	-	189	-	189	-	-	-	-	-						

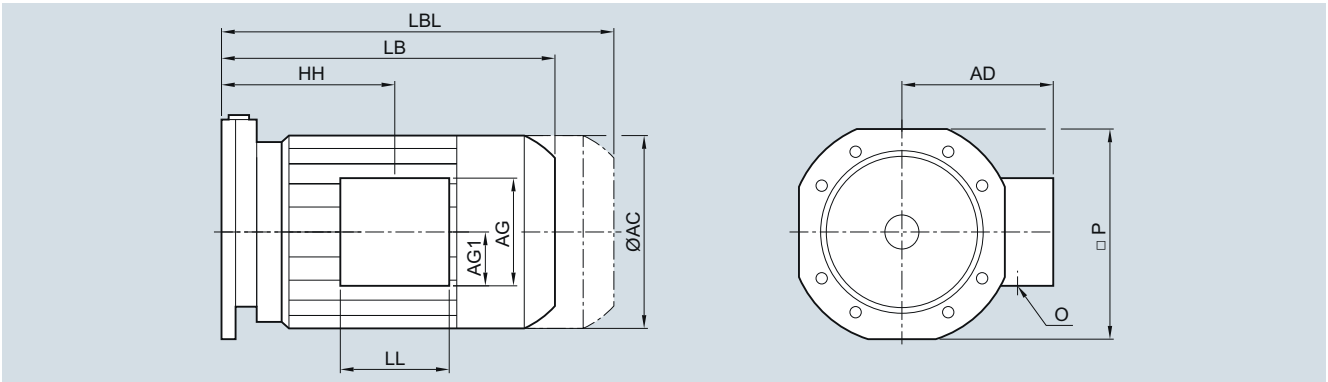
Motor frame size LEN80 to LEN200 (IE3)

Overview (continued)



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LEN132M	49	49	49	49	49	-	160	361	557.5	662	262	213	M32x1.5+M32x1.5	118	140	70
	59	-	-	-	-	-	-	-	-	-						
	69	-	69	-	69	69	-	-	-	-						
	-	-	-	-	79	-	-	-	-	-						
	79	69	79	-	-	-	198	355	551.5	656						
	-	-	-	-	89	89	-	-	-	-						
	89	89	89	-	-	-	245	338	534.5	639						
	-	-	-	-	109	-	-	-	-	-						
	109	109	109	-	-	-	300	329	525.5	630						
	-	-	-	-	129	-	-	-	-	-						
	129	129	129	-	-	-	350	318	514.5	619						
	-	-	-	-	149	-	-	-	-	-						
	149	149	149	-	-	-	404	311.5	508	612.5						
	-	-	-	-	169	-	-	-	-	-						
	169	-	169	-	-	-	466	298.5	495	599.5						
	189	-	189	-	189	-	-	-	-	-						
LEN160M	79	69	79	-	-	-	198	309.5	556.5	672.5	315.5	255	M40x1.5+M40x1.5	158	188	94
	-	-	-	-	89	-	-	-	-	-						
	89	89	89	-	-	-	245	292.5	539.5	655.5						
	-	-	-	-	109	-	-	-	-	-						
	109	109	109	-	-	-	300	283.5	530.5	646.5						
	-	-	-	-	129	-	-	-	-	-						
	129	129	129	-	-	-	350	272.5	519.5	635.5						
	-	-	-	-	149	-	-	-	-	-						
	149	149	149	-	-	-	404	266	513	629						
	-	-	-	-	169	-	-	-	-	-						
	169	-	169	-	-	-	466	253	500	616						
	189	-	189	-	189	-	-	-	-	-						
LEN160L	79	69	79	-	-	-	198	369.5	616.5	732.5	315.5	255	M40x1.5+M40x1.5	158	188	94
	-	-	-	-	89	-	-	-	-	-						
	89	89	89	-	-	-	245	352.5	599.5	715.5						
	-	-	-	-	109	-	-	-	-	-						
	109	109	109	-	-	-	300	343.5	590.5	706.5						
	-	-	-	-	129	-	-	-	-	-						
	129	129	129	-	-	-	350	349.5	579.5	712.5						
	-	-	-	-	149	-	-	-	-	-						
	149	149	149	-	-	-	404	343	573	706						
	-	-	-	-	169	-	-	-	-	-						
	169	-	169	-	-	-	466	330	560	693						
	189	-	189	-	189	-	-	-	-	-						

Overview (continued)



Motor	Gearbox type						Dimensions									
	D/Z	E	FD/FZ	B	K	C	P	HH	LB	LBL	AC	AD	O	LL	AG	AG1
LEN180M	89	89	89	-	-	-	245	389	649.5	778.5	350	268.5	M40x1.5+M40x1.5	158	188	94
	-	-	-	-	109	-	-	-	-	-						
	109	109	109	-	-	-	330	380	640.5	769.5						
	-	-	-	-	129	-	-	-	-	-						
	129	129	129	-	-	-	375	369	629.5	758.5						
	-	-	-	-	149	-	-	-	-	-						
	149	149	149	-	-	-	450	362.5	623	752						
	-	-	-	-	169	-	-	-	-	-						
	169	-	169	-	-	-	505	349	609.5	738.5						
	189	-	189	-	189	-	-	-	-	-						
LEN180L	89	89	89	-	-	-	245	429	689	818	350	268.5	M40x1.5+M40x1.5	158	188	94
	-	-	-	-	109	-	-	-	-	-						
	109	109	109	-	-	-	330	420	680	809						
	-	-	-	-	129	-	-	-	-	-						
	129	129	129	-	-	-	375	409	669	798						
	-	-	-	-	149	-	-	-	-	-						
	149	149	149	-	-	-	450	402.5	662.5	791.5						
	-	-	-	-	169	-	-	-	-	-						
	169	-	169	-	-	-	505	389	649	778						
	189	-	189	-	189	-	-	-	-	-						
LEN200L	109	109	109	-	-	-	330	433.5	732.5	879.5	391	299.5	M50x1.5+M50x1.5	215	243	121.5
	-	-	-	-	129	-	-	-	-	-						
	129	129	129	-	-	-	375	422.5	721.5	868.5						
	-	-	-	-	149	-	-	-	-	-						
	149	149	149	-	-	-	450	416	715	862						
	-	-	-	-	169	-	-	-	-	-						
	169	-	169	-	-	-	505	402.5	701.5	848.5						
	189	-	189	-	189	-	-	-	-	-						

Additional lengths

Second shaft extension, handwheel, and canopy

Further information about the second shaft extension, the handwheel, and the canopy can be found in chapter "Motor options" from page 9/51.

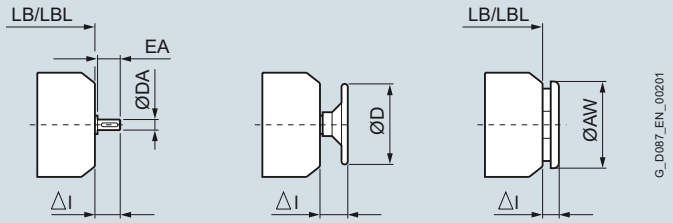


Fig. 1 Fig. 6 Fig. 2

Relevant figure	1			6	
Motor	Second shaft extension			Handwheel at the second shaft	
	DA	EA	ΔI	D	ΔI
LHN63	-	-	-	-	-
LHN71	14	30	34	100	50
LHN80	14	30	34	100	50
LHN90	19	40	45	160	65
LHN100	19	40	45	160	65
LHN112	24	50	56	200	77
LHN132	28	60	68	200	89
LHN160	38	80	88	315	111
LHN180	42	110	125	-	-
LHN200	48	110	130	-	-
LHN225	55	110	115	-	-
LHN250	60	140	145	-	-

Relevant figure	2	
Motor	Canopy	
	AW	ΔI
LHN63	122.8	11.9
LHN71	137.8	25.9
LHN80/LEN80	137.8	25.9
LHN90/LEN90	175.8	14.4
LHN100/LEN100	193.8	14.4
LHN112/LEN112	218	14.5
LHN132/LEN132	257	16.5
LHN160/LEN160	310	16.5
LHN180/LEN180	348	35
LHN200/LEN200	385	40
LHN225	425	96
LHN250	470	96

Encoder

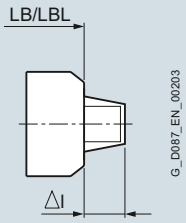


Fig. 3

Relevant figure	3
Motor	Encoder with protective plate
	ΔI
LHN63	70
LHN71	70
LHN80/LEN80	70
LHN90/LEN90	70
LHN100/LEN100	70
LHN112/LEN112	70
LHN132/LEN132	70
LHN160/LEN160	70
LHN180/LEN180	70
LHN200/LEN200	70
LHN225	70
LHN250	70

Separately driven fan, encoder and canopy

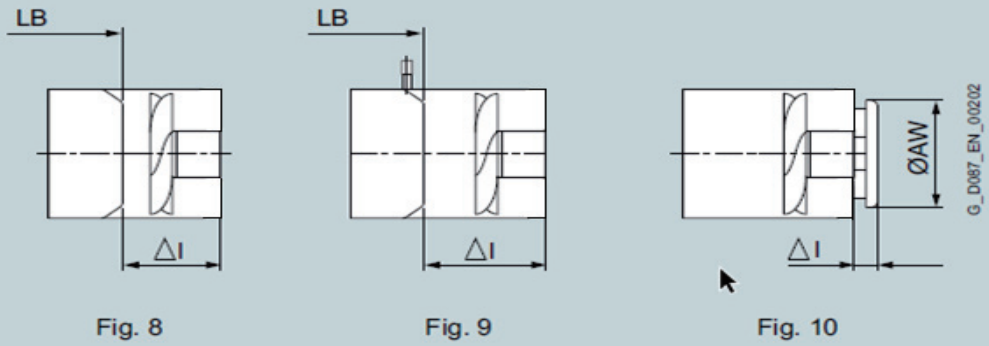


Fig. 8 Fig. 9 Fig. 10

Relevant figure	8	9	9	9	10	
Motor	**Separately driven fan**	**Brake + separately driven fan**	**Encoder + separately driven fan**	**Brake + encoder + separately driven fan**	**Canopy for separately driven fan**	
	ΔI	ΔI	ΔI	ΔI	ΔI	AW
LHN63	-	-	-	-	-	-
LHN71	144.5	144.5	199.5	239.5	37	150
LHN80/LEN80	99	128	183	223	40	170
LHN90/LEN90	85	120	183	213	30	188
LHN100/LEN100	81.5	121.5	173.5	218.5	28	210
LHN112/LEN112	81	113	176	206	33	249
LHN132/LEN132	114.5	164.5	198.5	258.5	25	300
LHN160/LEN160	131	191	196	285	32	338
LHN180/LEN180	131	198	223	273	32	400
LHN200/LEN200	141	233	228	293	32	400
LHN225	222	359	359	359	32	400
LHN250	293	392	392	392	32	400

Notes



8/2 Mounting position
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8/4 Foot-mounted design
8/6 Foot/flange-mounted design
8/8 Flange-mounted design or with housing flange
Helical gearboxes E
8/11 Foot-mounted design
8/12 Flange-mounted design or with housing flange
Parallel shaft gearbox
8/13 Shaft-mounted design
8/15 Flange-mounted design or with housing flange
8/17 Foot-mounted design
Bevel gearbox B
8/19 Foot-mounted design
8/21 Housing flange design and flange-mounted design
8/23 Shaft-mounted design
Bevel gearbox K
8/25 Foot-mounted design
8/26 Housing flange design and flange-mounted design
8/27 Shaft-mounted design
Helical worm gearbox
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8/30 Housing flange design and flange-mounted design
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8/37 Flange-mounted designs
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8/40 • Output flange seal
8/40 Parallel shaft gearboxes F.AD. in a shaft-mounted design
8/40 Bevel gearboxes KAD. in a shaft-mounted design
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8/55 Electrical oil level monitoring system

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Overview

The mounting position must be specified when you place your order to ensure that the gearbox is supplied with the correct quantity of oil.

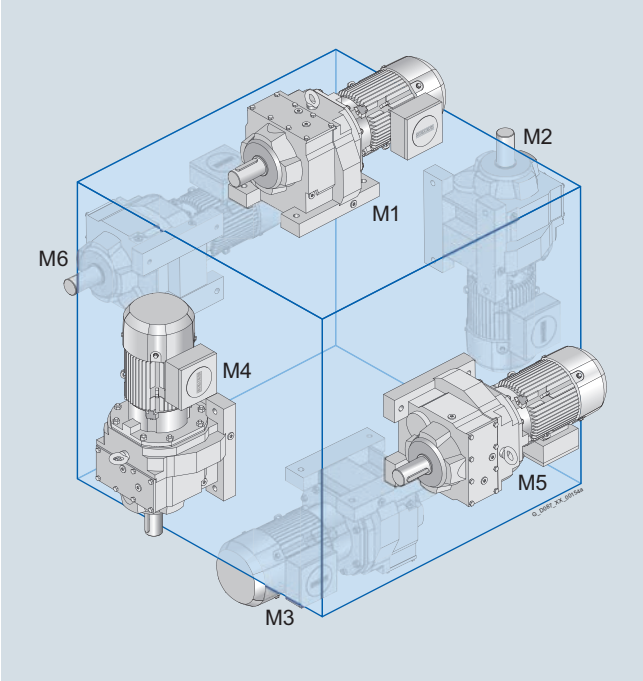


Fig. 8/1 Helical geared motors

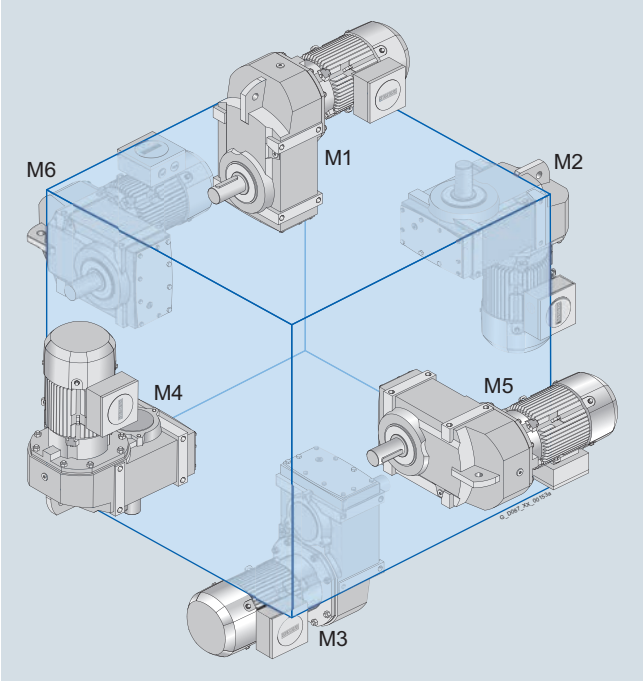


Fig. 8/2 Parallel shaft geared motors

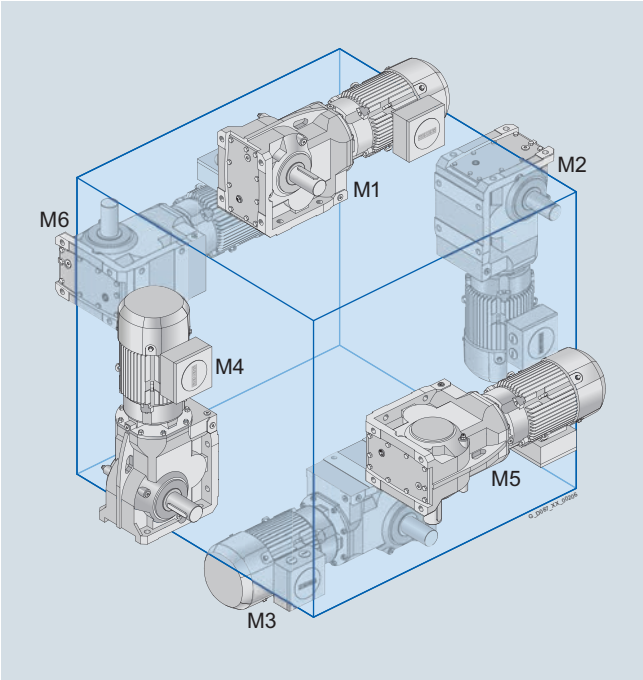


Fig. 8/3 Bevel geared motors

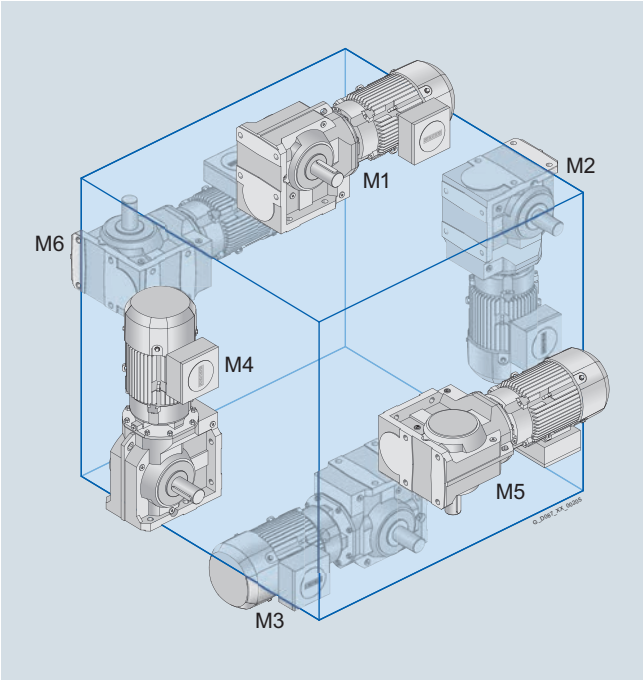


Fig. 8/4 Helical worm geared motors

Overview (continued)

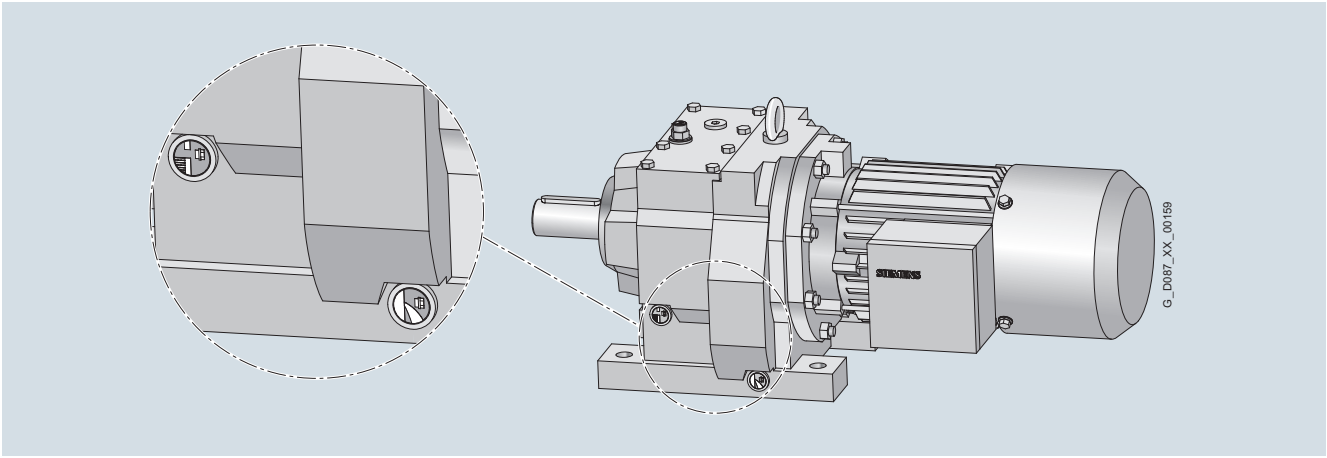


Fig. 8/5 Dimensional drawing from DT Configurator with details

An explanation of the symbols used to represent mounting positions can be found on the following pages

Symbol	
Oil valves	
	Venting
	Oil drain
	Oil level checking screw
	Venting main gearbox (applies only to tandem geared motors)
	Oil drain main gearbox (applies only to tandem geared motors)
Supplements	
*	On opposite side
A, B	Output side A, output side B
(1)	Oil level checking screw not possible for tandem geared motors
(2)	2-stage gearbox
(3)	3-stage gearbox
(1) ... (4)	Terminal box position

Note:

The DT Configurator can be used to configure SIMOGEAR geared motors.

The DT Configurator is available in conjunction with the electronic catalog CA 01 on DVD. In addition, the DT Configurator can be used on the Internet without requiring any installation.

The DT Configurator can be found in the Siemens Mall at the following address:
www.siemens.com/dt-configurator

For the selected mounting position, the 3D images show the exact position of the oil valves.

Foot-mounted design

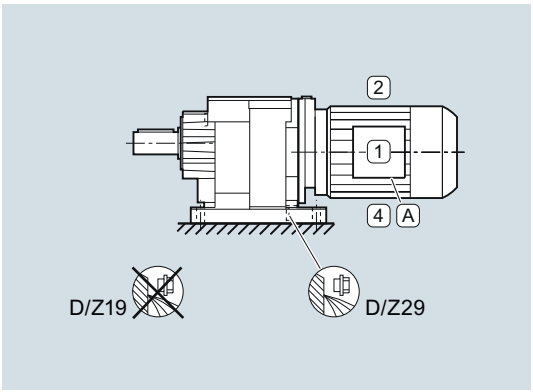
Helical gearboxes Z and D, sizes 19 and 29

Oil valves

Sizes 19 and 29 are lubricated for life.

For an explanation of the symbols, see page 8/3.

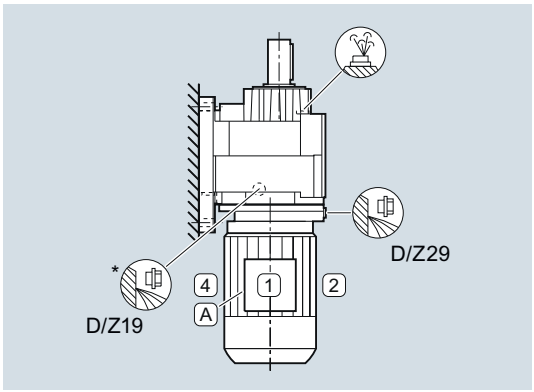
M1



Order code:

M1 **D01**

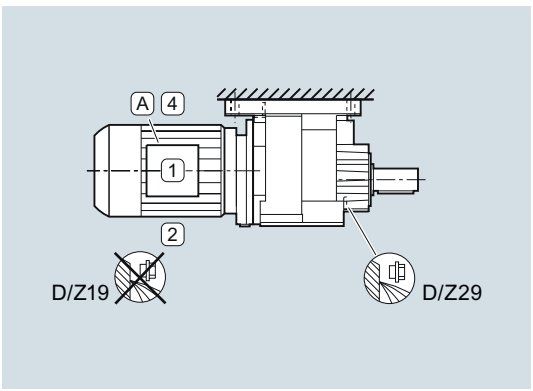
M2



Order code:

M2 **D02**

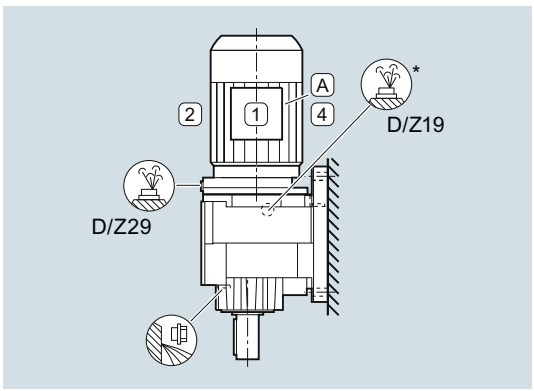
M3



Order code:

M3 **D03**

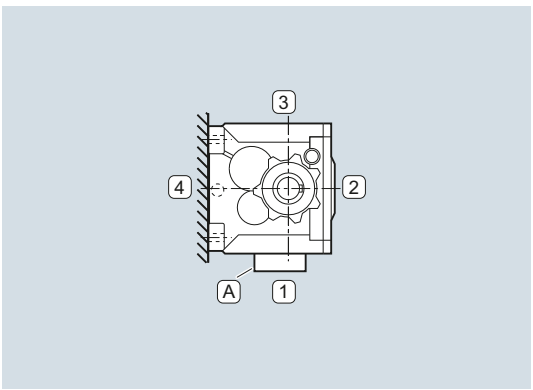
M4



Order code:

M4 **D04**

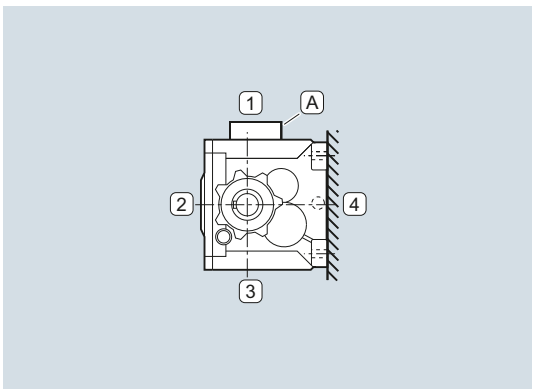
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

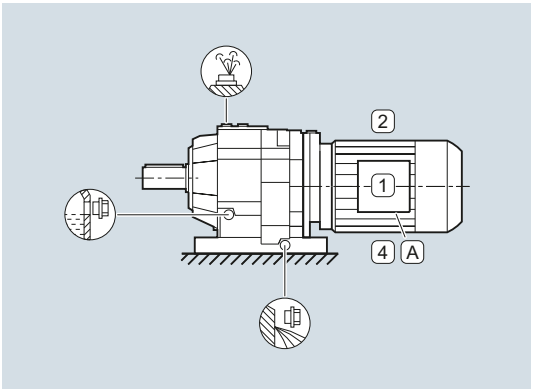
Foot-mounted design (continued)

Helical gearboxes Z and D, sizes 39 to 189

Oil valves

For an explanation of the symbols, see page 8/3.

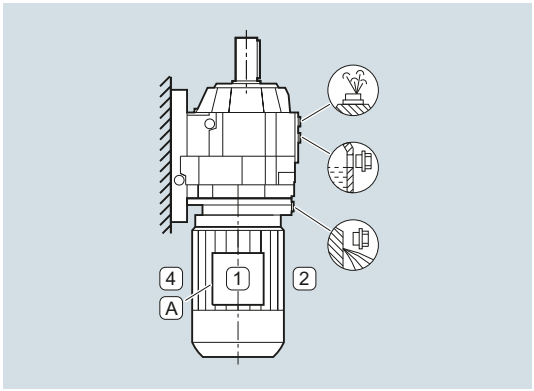
M1



Order code:

M1	**D01**

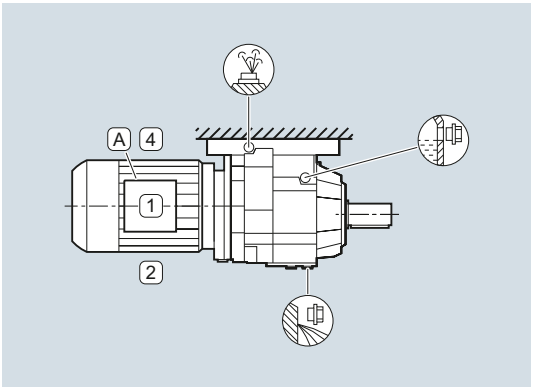
M2



Order code:

M2	**D02**

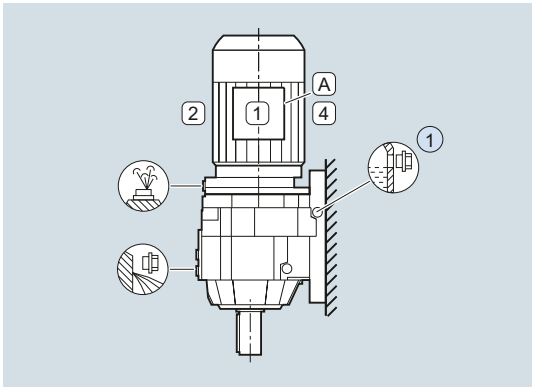
M3



Order code:

M3	**D03**

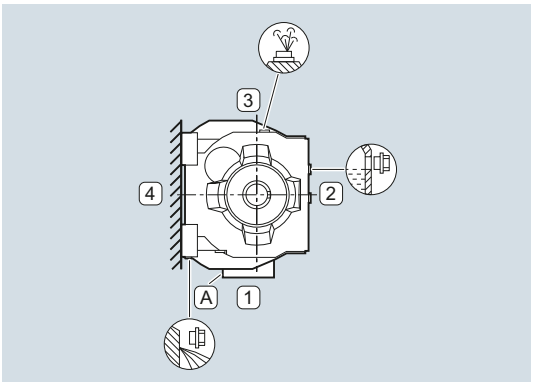
M4



Order code:

M4	**D04**

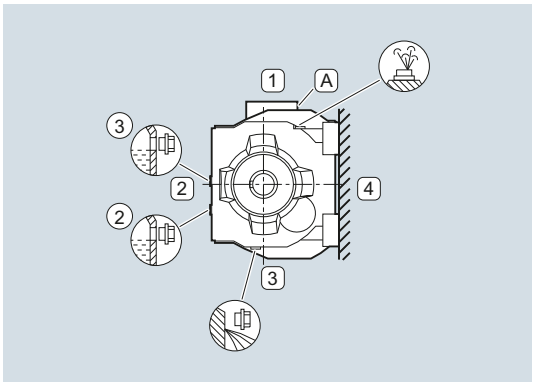
M5



Order code:

M5	**D05**

M6



Order code:

M6	**D06**

Foot/flange-mounted design

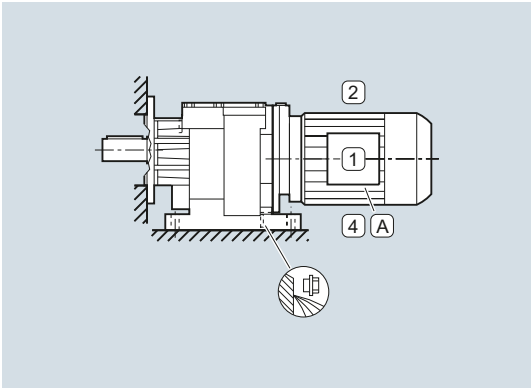
Helical gearboxes ZB and DB, size 29

Oil valves

Size 29 is lubricated for life.

For an explanation of the symbols, see page 8/3.

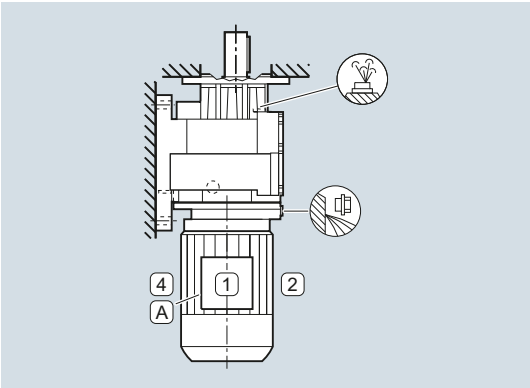
M1



Order code:

M1 **D01**

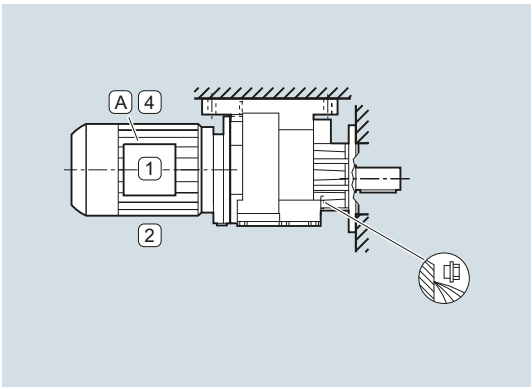
M2



Order code:

M2 **D02**

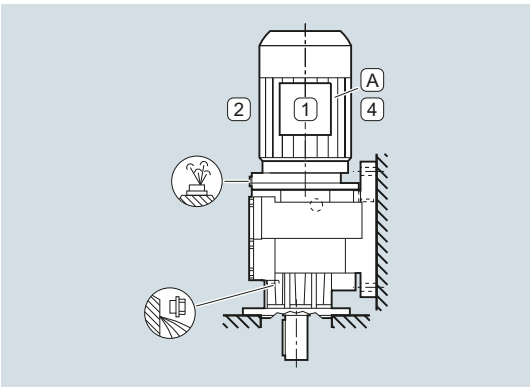
M3



Order code:

M3 **D03**

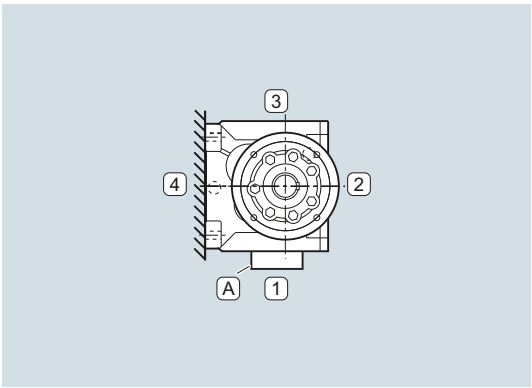
M4



Order code:

M4 **D04**

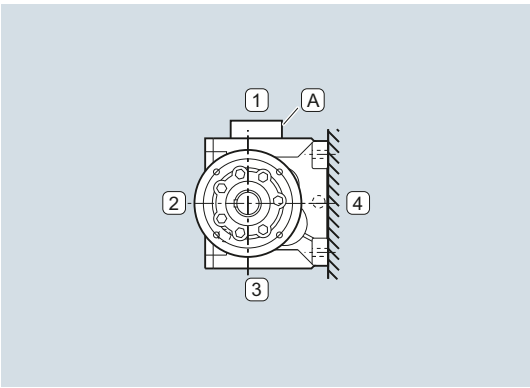
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

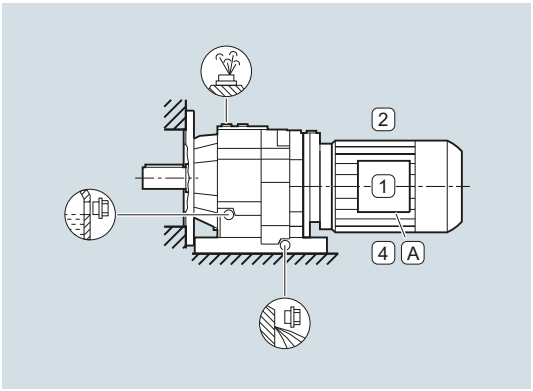
Foot/flange-mounted design (continued)

Helical gearboxes ZB and DB, sizes 39 to 89

Oil valves

For an explanation of the symbols, see page 8/3.

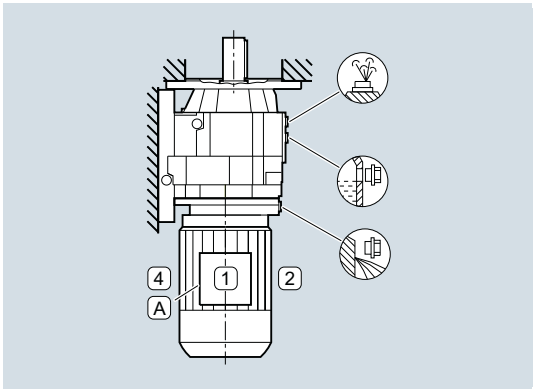
M1



Order code:

M1 **D01**

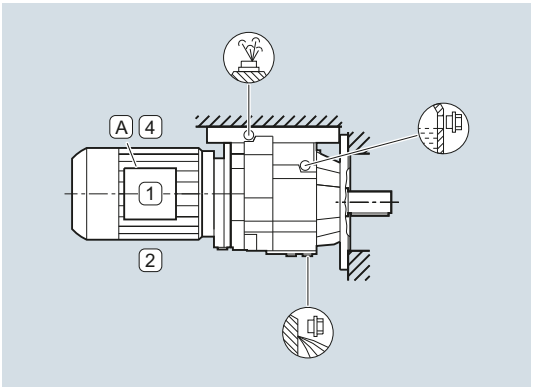
M2



Order code:

M2 **D02**

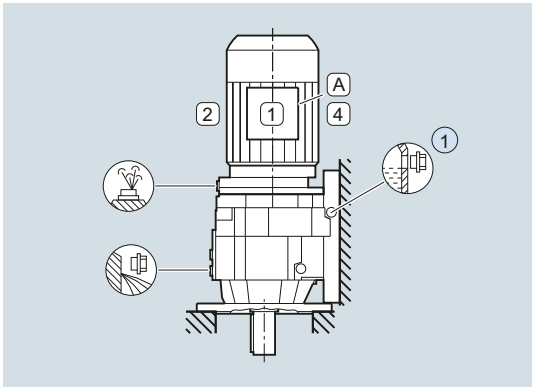
M3



Order code:

M3 **D03**

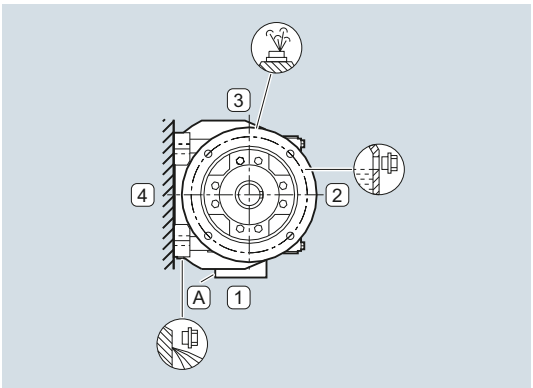
M4



Order code:

M4 **D04**

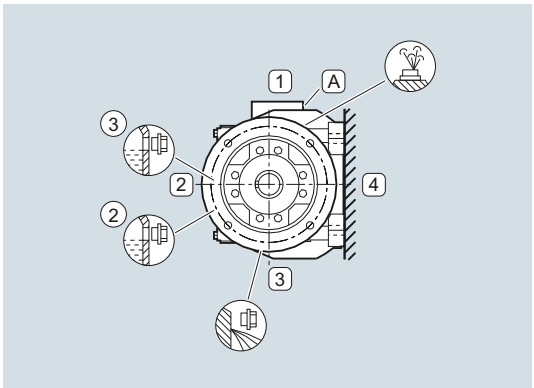
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

Flange-mounted design or with housing flange

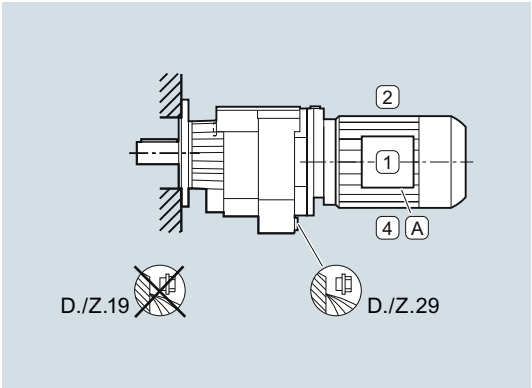
Helical gearboxes ZF and DF or ZZ and DZ, sizes 19 and 29

Oil valves

Sizes 19 and 29 are lubricated for life.

For an explanation of the symbols, see page 8/3.

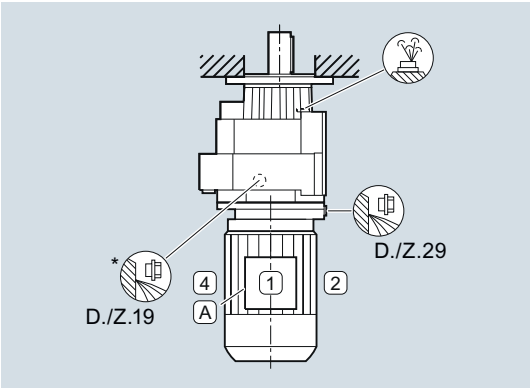
M1



Order code:

M1 **D01**

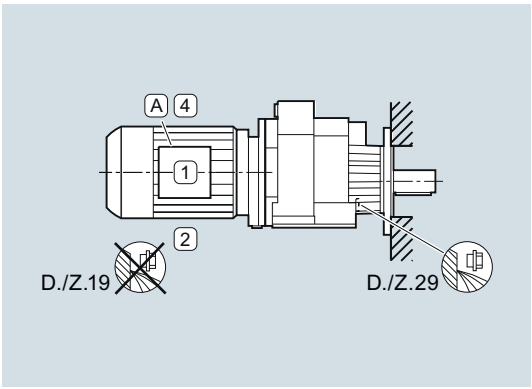
M2



Order code:

M2 **D02**

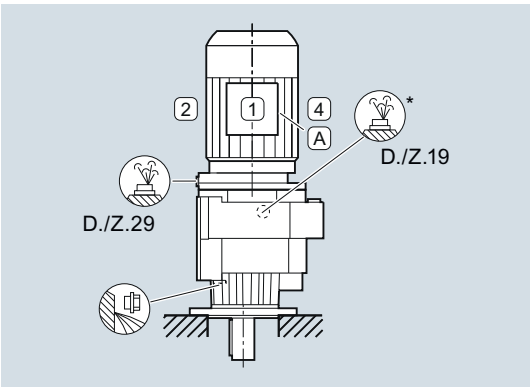
M3



Order code:

M3 **D03**

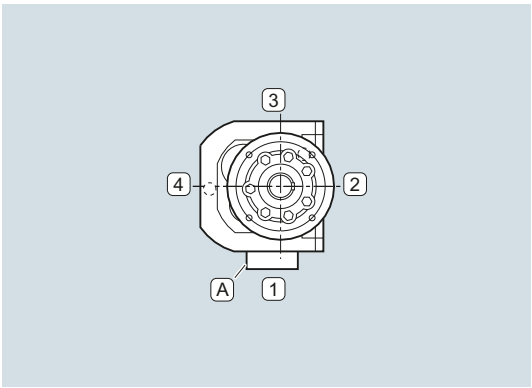
M4



Order code:

M4 **D04**

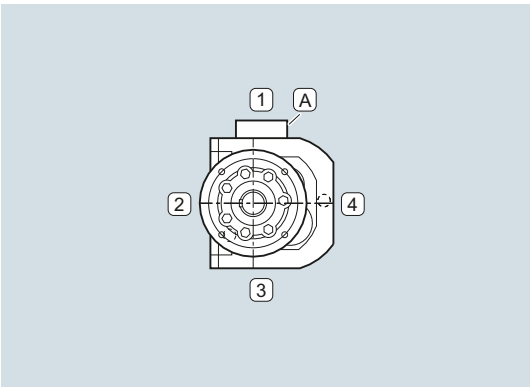
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

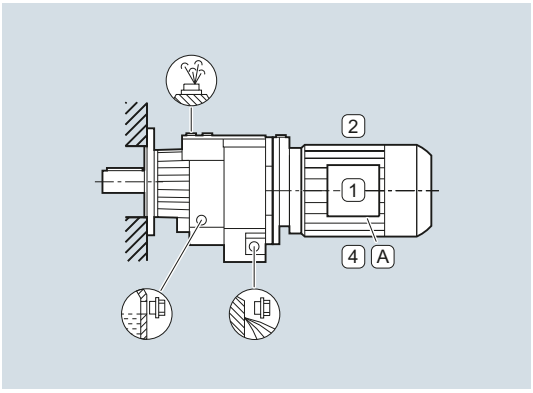
Flange-mounted design or with housing flange (continued)

Helical gearboxes ZF and DF or ZZ and DZ, size 39

Oil valves

For an explanation of the symbols, see page 8/3.

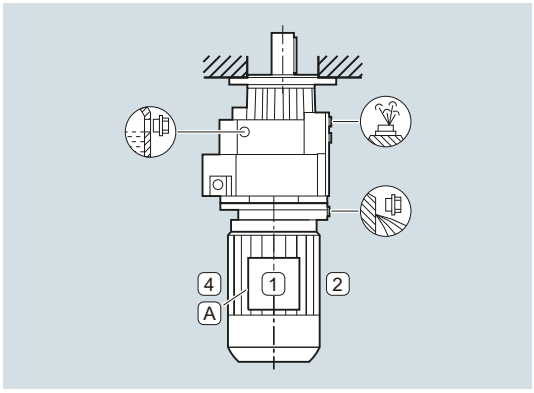
M1



Order code:

M1 **D01**

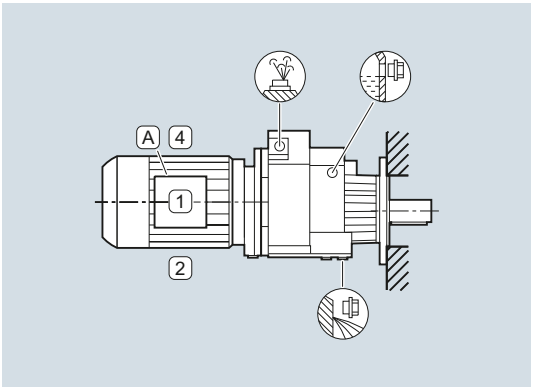
M2



Order code:

M2 **D02**

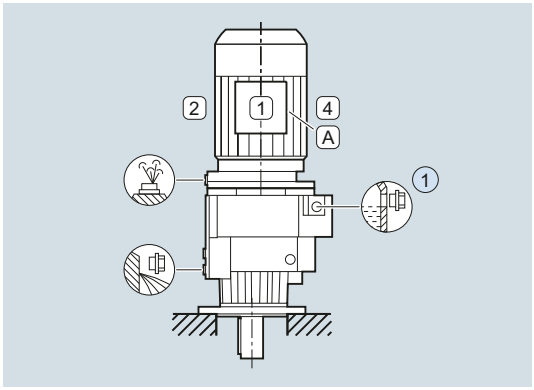
M3



Order code:

M3 **D03**

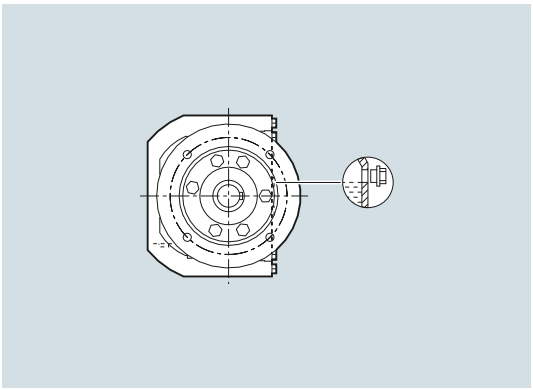
M4



Order code:

M4 **D04**

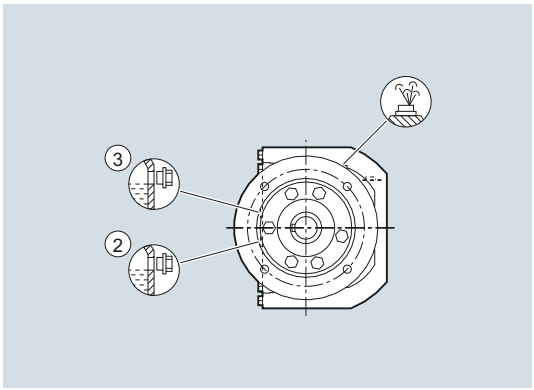
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

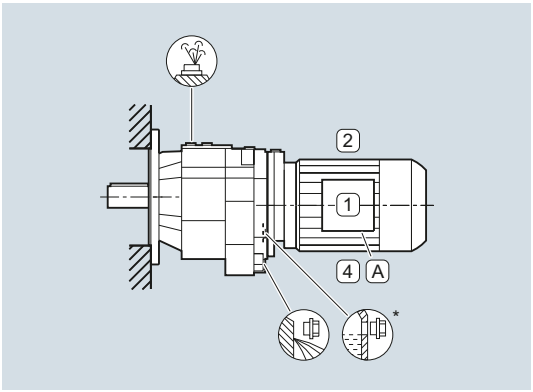
Flange-mounted design or with housing flange (continued)

Helical gearboxes ZF and DF, sizes 49 to 189, or ZZ and DZ, sizes 49 to 129
Helical gearboxes ZF and DF with VLplus/XLplus reinforced bearing systems, sizes 89 to 169
Cooling tower gearboxes, sizes 89 to 189 (mounting positions M2 and M4)

Oil valves

For an explanation of the symbols, see page 8/3.

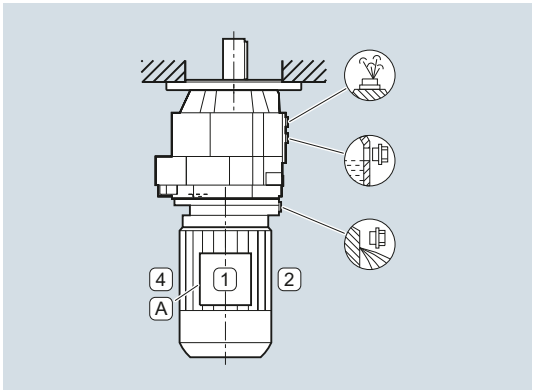
M1



Order code:

M1	**D01**

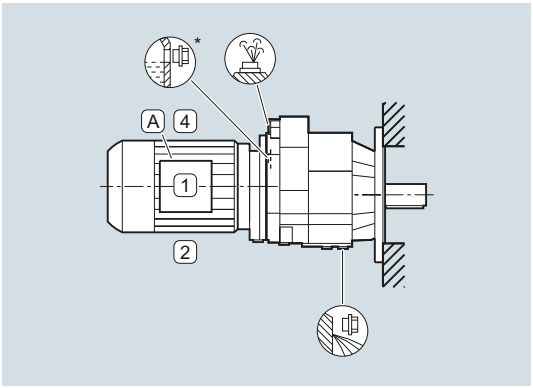
M2



Order code:

M2	**D02**

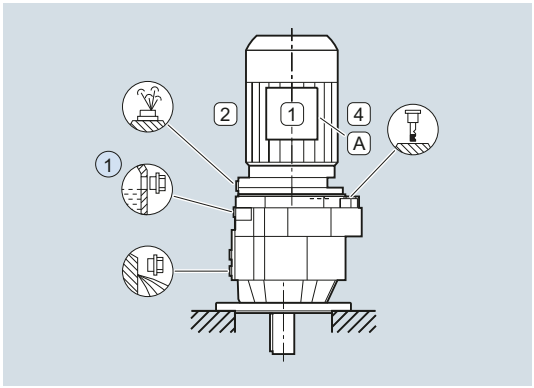
M3



Order code:

M3	**D03**

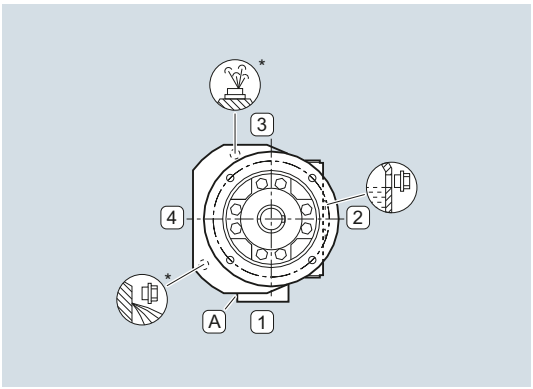
M4



Order code:

M4	**D04**

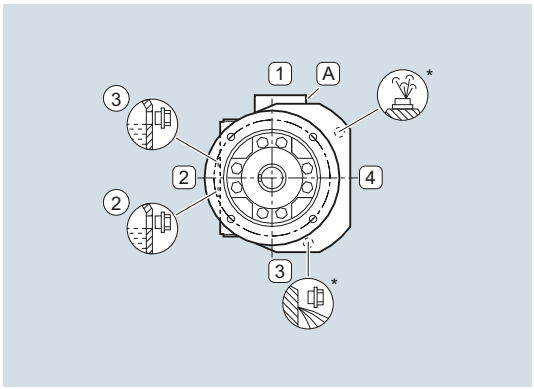
M5



Order code:

M5	**D05**

M6



Order code:

M6	**D06**

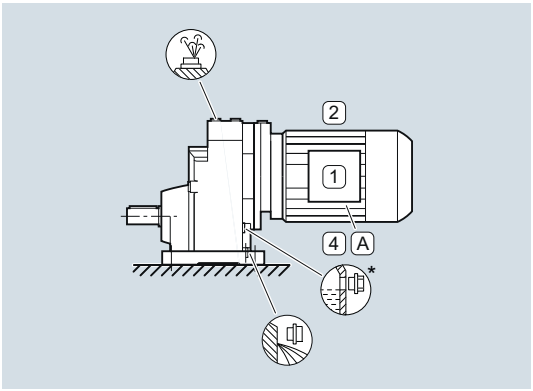
Foot-mounted design

Helical gearboxes E, sizes 39 to 149

Oil valves

For an explanation of the symbols, see page 8/3.

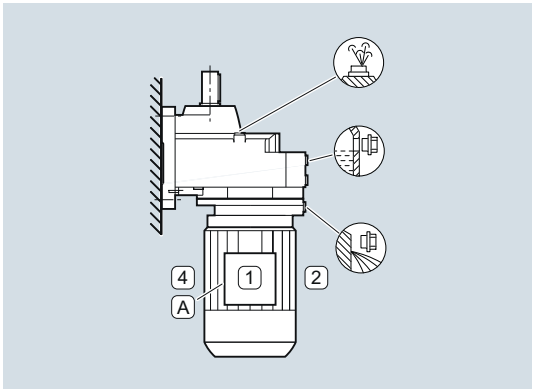
M1



Order code:

M1 **D01**

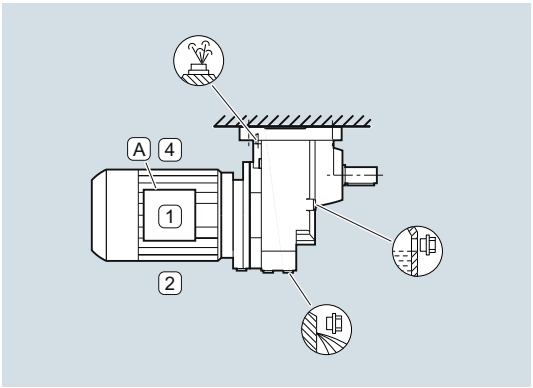
M2



Order code:

M2 **D02**

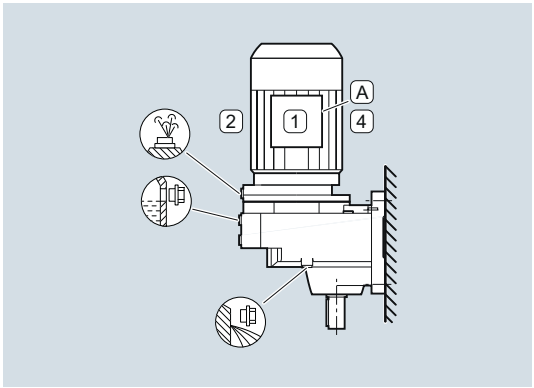
M3



Order code:

M3 **D03**

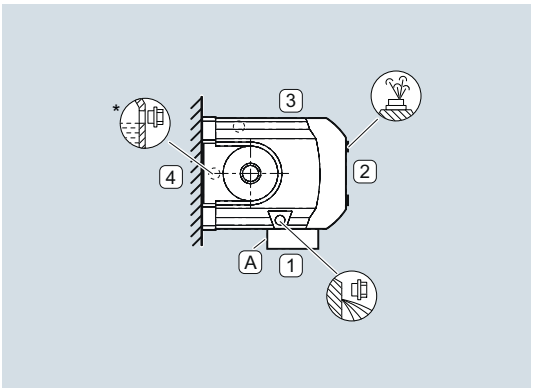
M4



Order code:

M4 **D04**

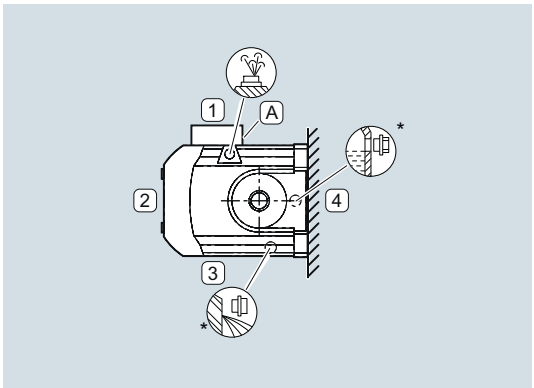
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

Flange-mounted design or with housing flange

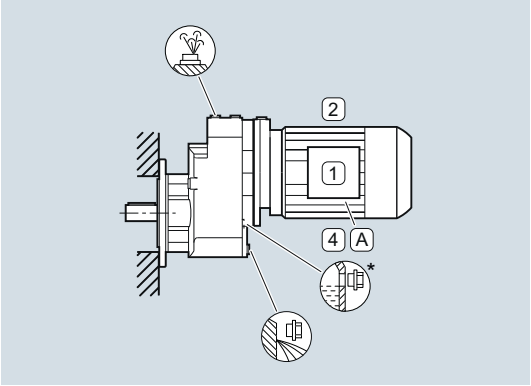
Helical gearboxes EF, sizes 39 to 149

Cooling tower gearboxes EKF, sizes 89 to 149 (mounting positions M2 and M4)

Oil valves

For an explanation of the symbols, see page 8/3.

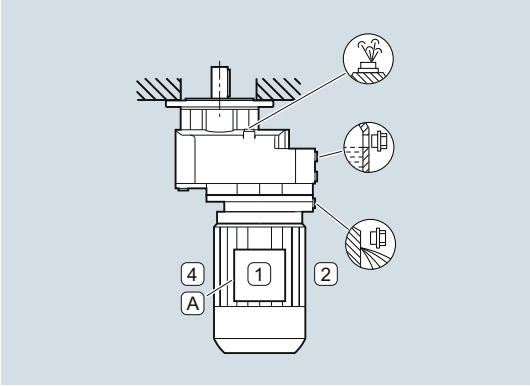
M1



Order code:

M1 **D01**

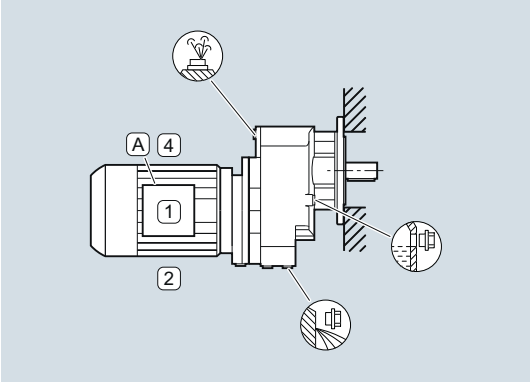
M2



Order code:

M2 **D02**

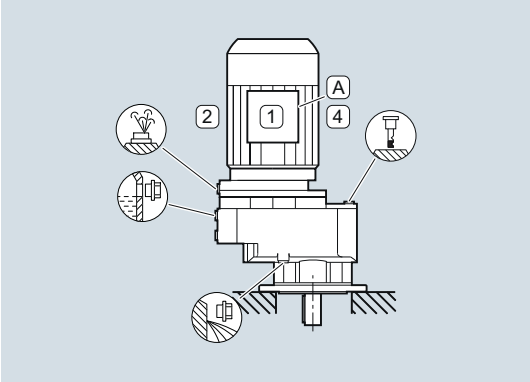
M3



Order code:

M3 **D03**

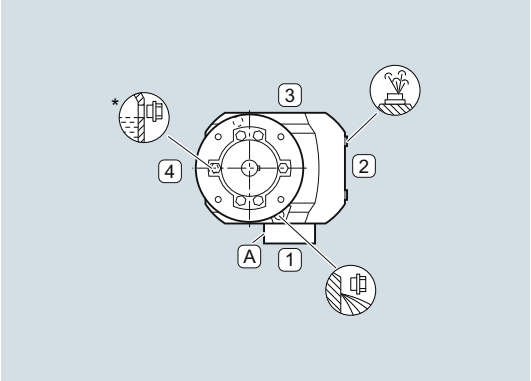
M4



Order code:

M4 **D04**

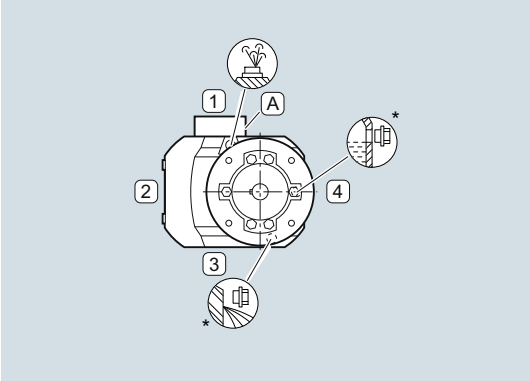
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

Shaft-mounted design

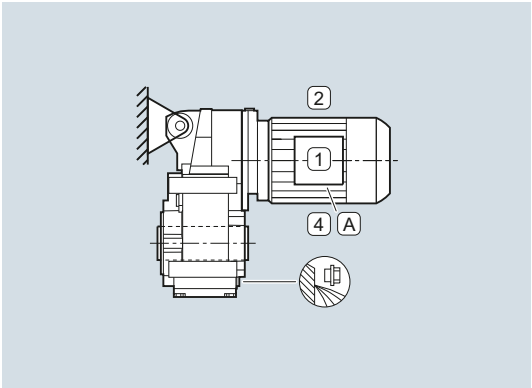
Parallel shaft gearboxes F.AD., size 29

Oil valves

Size 29 is lubricated for life.

For an explanation of the symbols, see page 8/3.

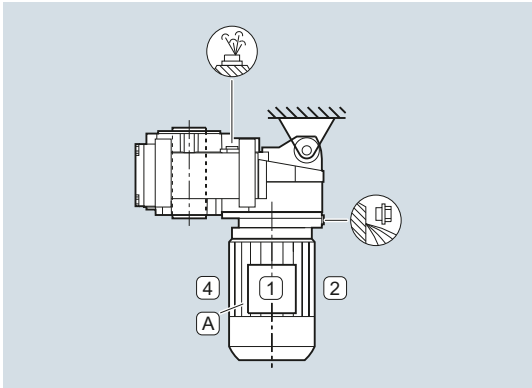
M1



Order code:

M1 **D01**

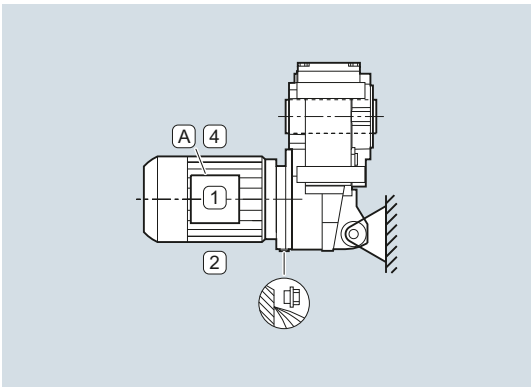
M2



Order code:

M2 **D02**

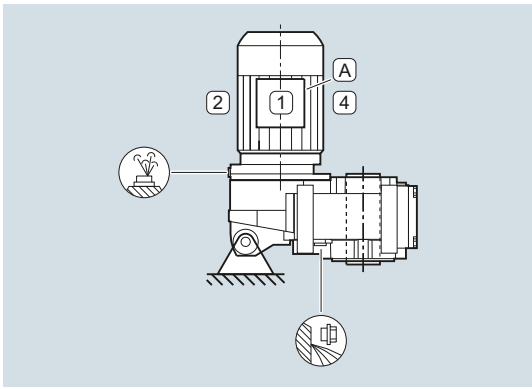
M3



Order code:

M3 **D03**

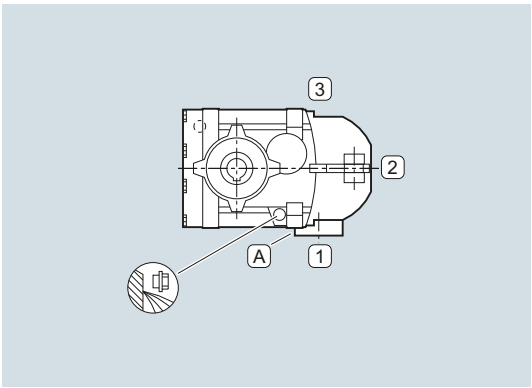
M4



Order code:

M4 **D04**

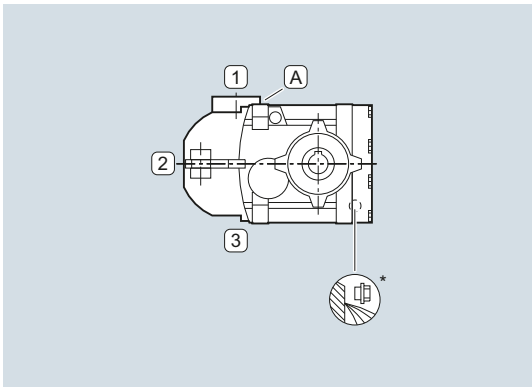
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

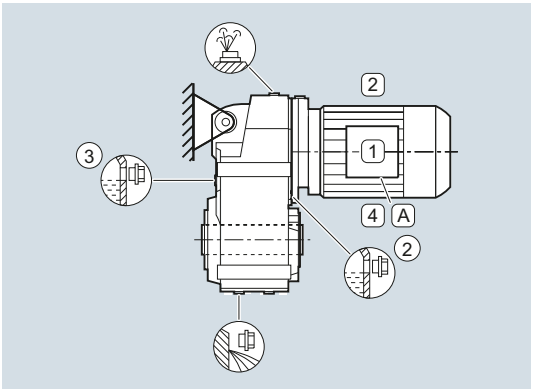
Shaft-mounted design (continued)

Parallel shaft gearboxes F.AD., sizes 39 to 189

Oil valves

For an explanation of the symbols, see page 8/3.

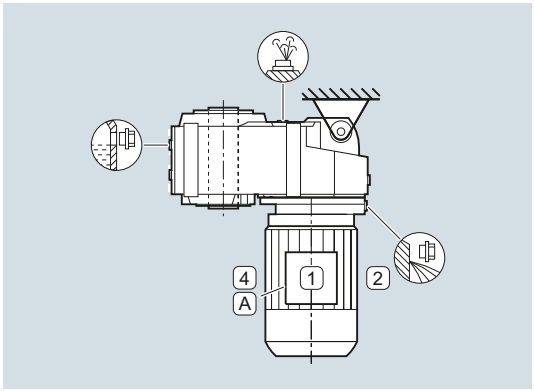
M1



Order code:

M1	**D01**

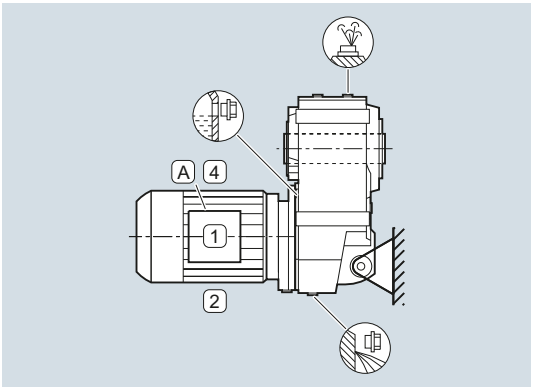
M2



Order code:

M2	**D02**

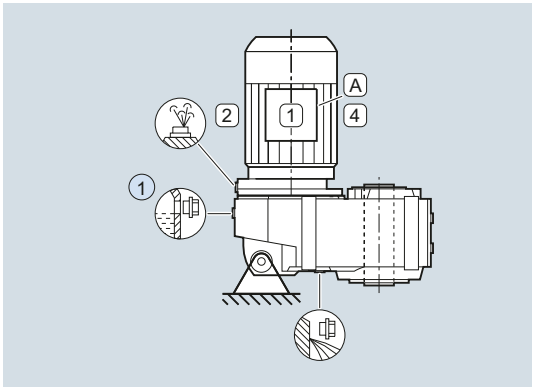
M3



Order code:

M3	**D03**

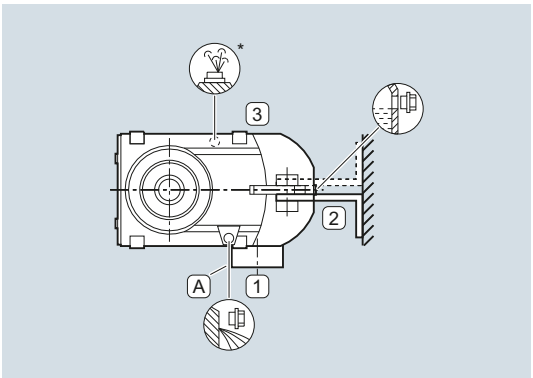
M4



Order code:

M4	**D04**

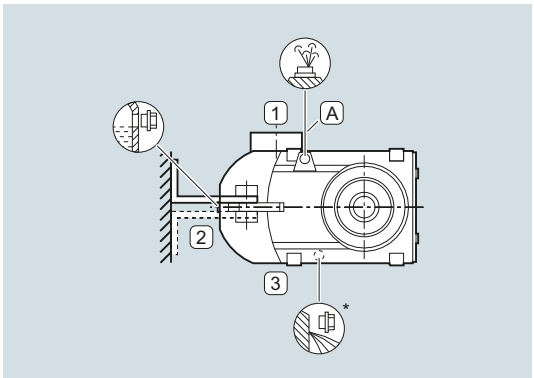
M5



Order code:

M5	**D05**

M6



Order code:

M6	**D06**

Flange-mounted design or with housing flange

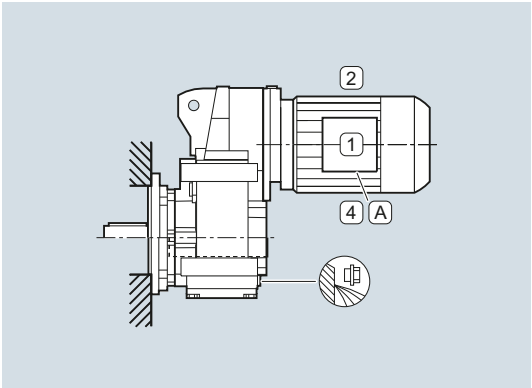
Parallel shaft gearboxes F..F or F..Z, size 29

Oil valves

Size 29 is lubricated for life.

For an explanation of the symbols, see page 8/3.

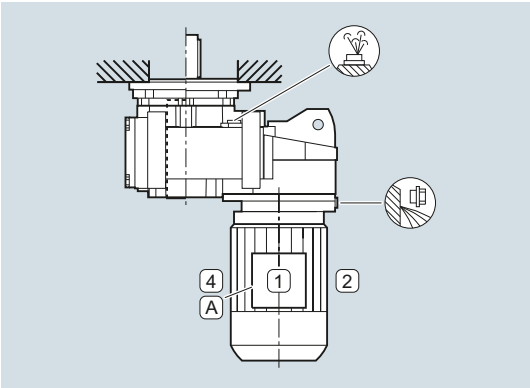
M1



Order code:

M1	**D01**

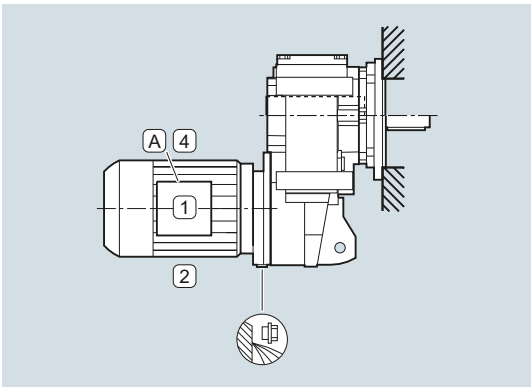
M2



Order code:

M2	**D02**

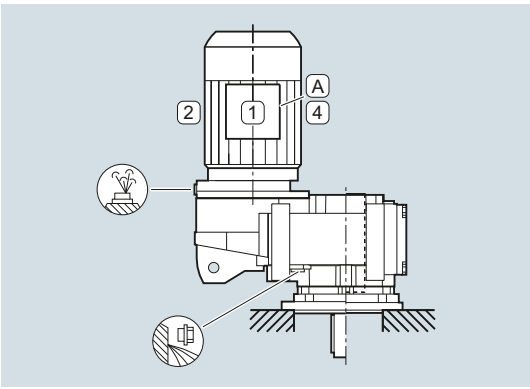
M3



Order code:

M3	**D03**

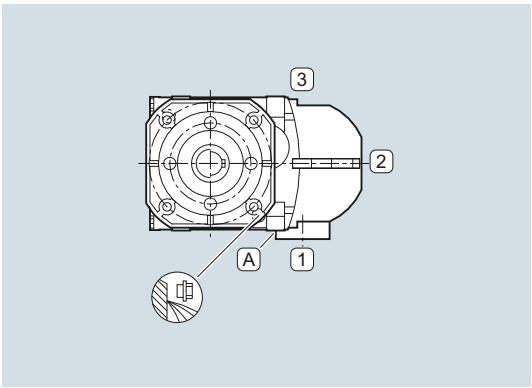
M4



Order code:

M4	**D04**

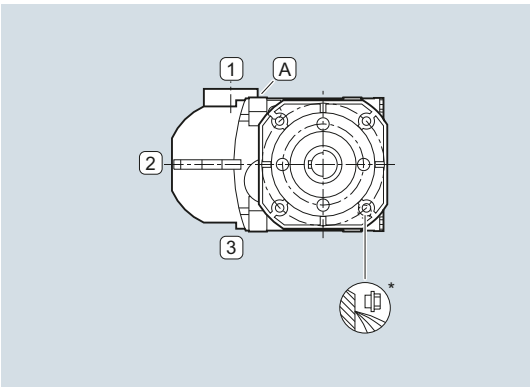
M5



Order code:

M5	**D05**

M6



Order code:

M6	**D06**

8

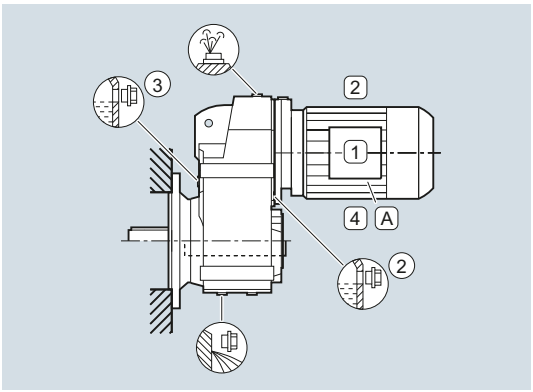
Flange-mounted design or with housing flange (continued)

Parallel shaft gearboxes F..F or F..Z, sizes 39 to 189
Parallel shaft gearboxes F..F with VLplus reinforced bearing systems, sizes 89 to 169

Oil valves

For an explanation of the symbols, see page 8/3.

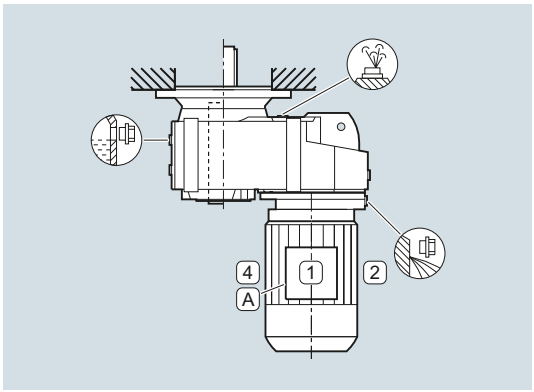
M1



Order code:

M1	**D01**

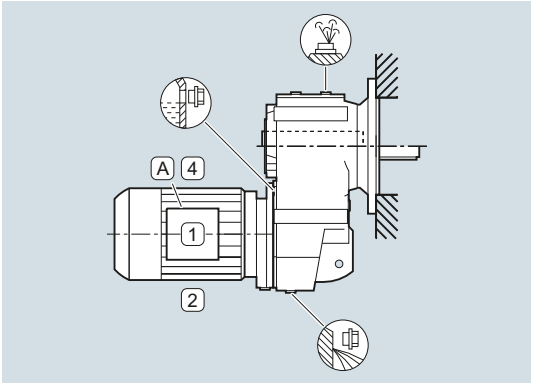
M2



Order code:

M2	**D02**

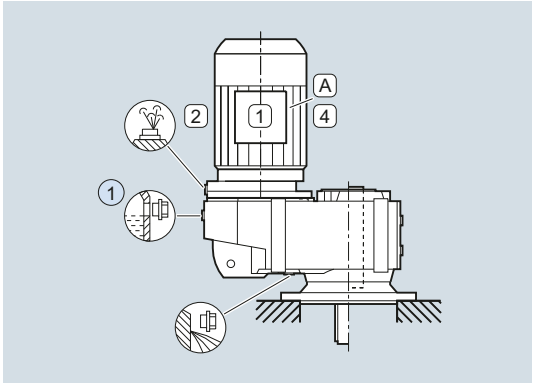
M3



Order code:

M3	**D03**

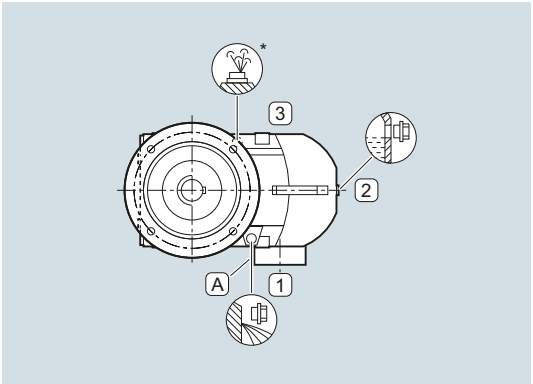
M4



Order code:

M4	**D04**

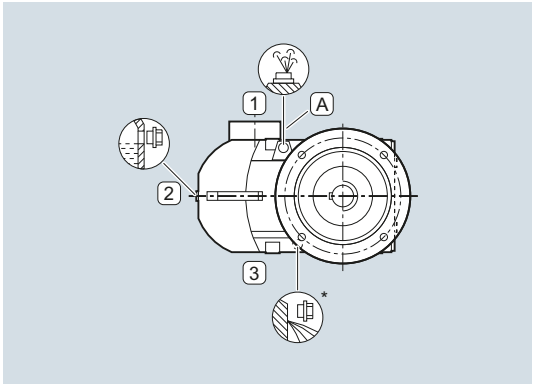
M5



Order code:

M5	**D05**

M6



Order code:

M6	**D06**

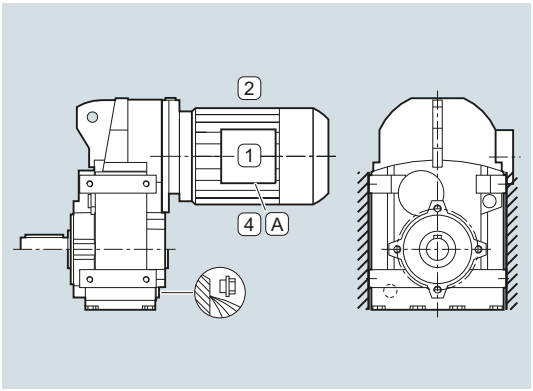
Foot-mounted design

Parallel shaft gearbox F, size 29

Oil valves

For an explanation of the symbols, see page 8/3.

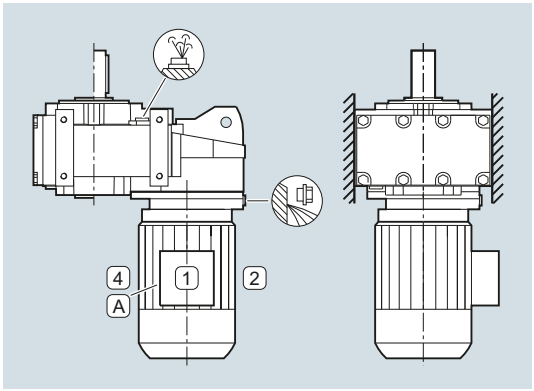
M1



Order code:

M1 **D01**

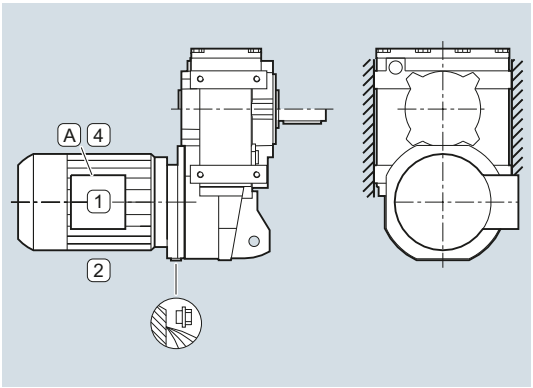
M2



Order code:

M2 **D02**

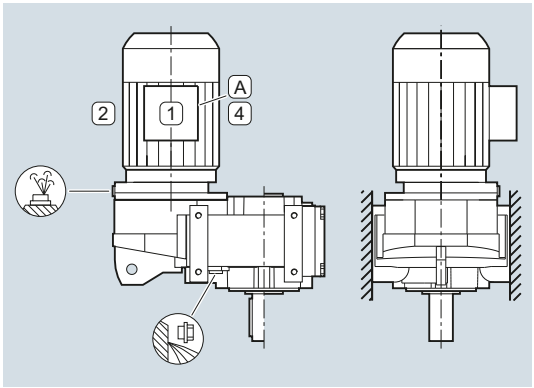
M3



Order code:

M3 **D03**

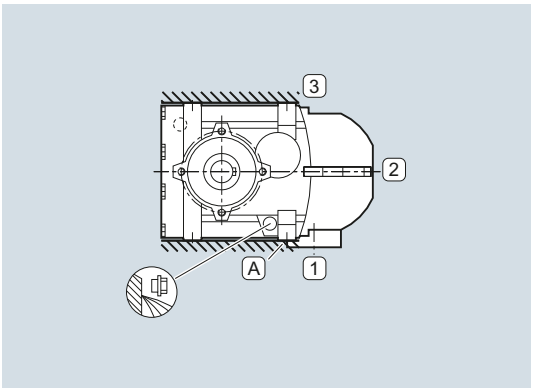
M4



Order code:

M4 **D04**

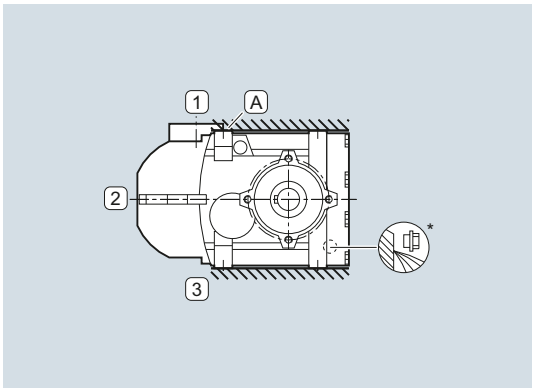
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

8

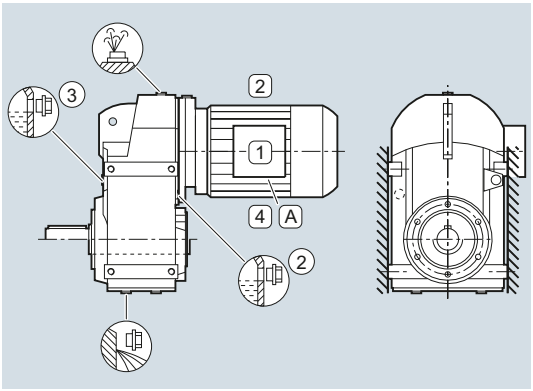
Foot-mounted design (continued)

Parallel shaft gearbox F, sizes 39 to 189

Oil valves

For an explanation of the symbols, see page 8/3.

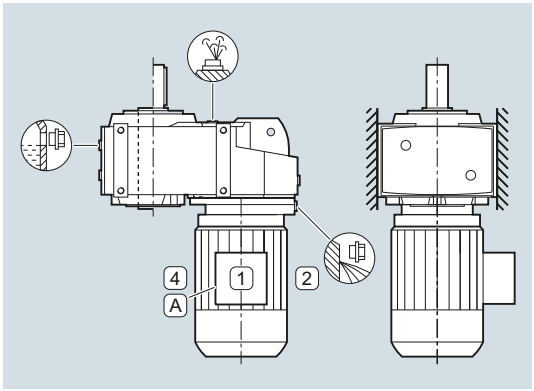
M1



Order code:

M1 **D01**

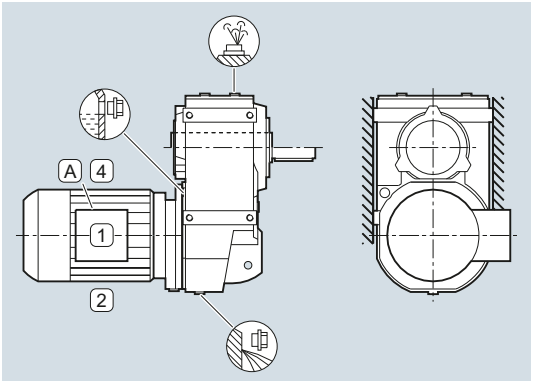
M2



Order code:

M2 **D02**

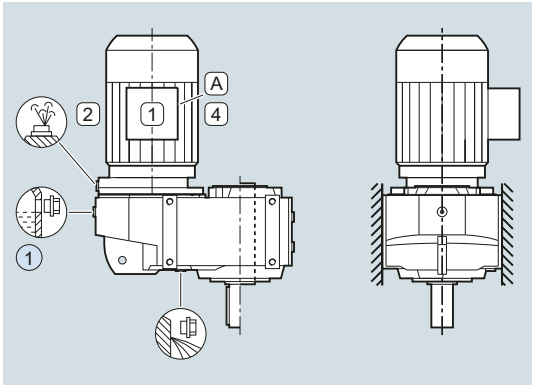
M3



Order code:

M3 **D03**

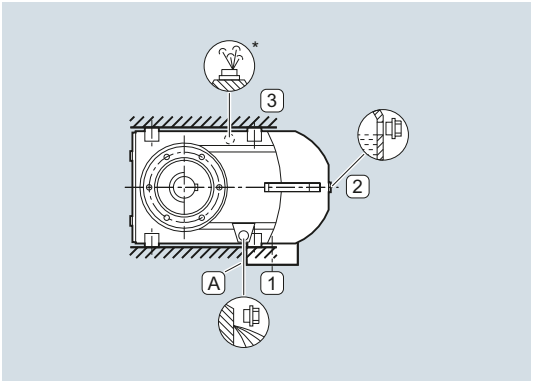
M4



Order code:

M4 **D04**

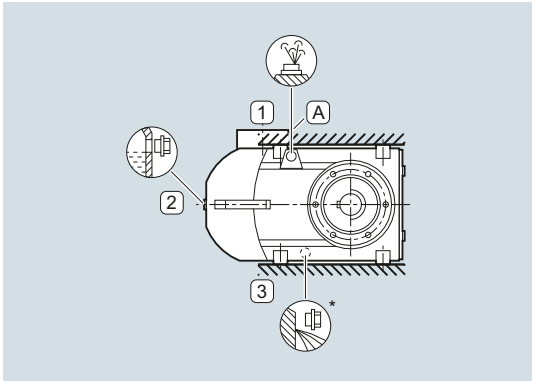
M5



Order code:

M5 **D05**

M6



Order code:

M6 **D06**

Foot-mounted design

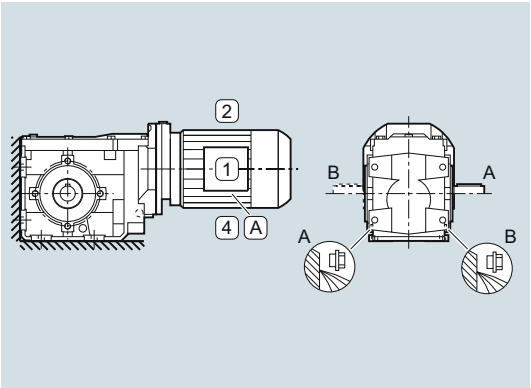
Bevel gearboxes B, sizes 19 and 29

Oil valves

Sizes 19 and 29 are lubricated for life.

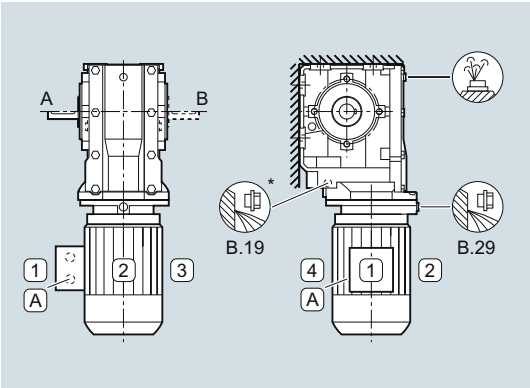
For an explanation of the symbols, see page 8/3.

M1



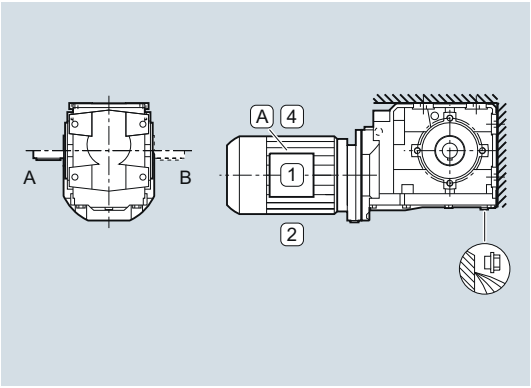
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



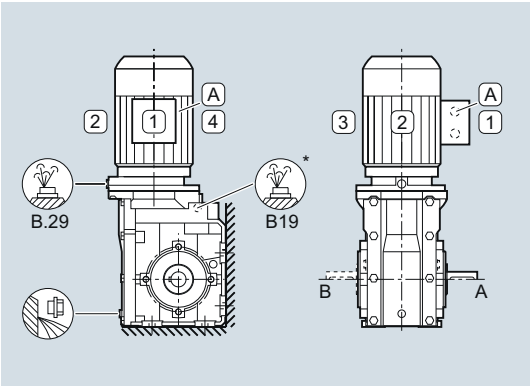
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



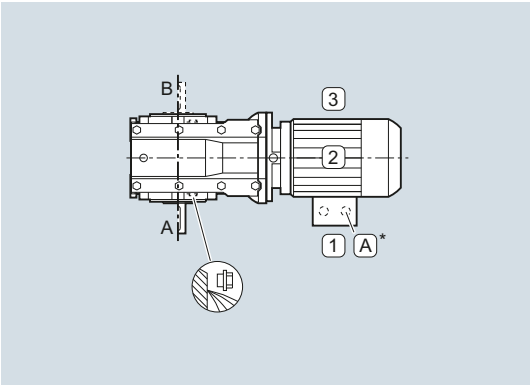
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



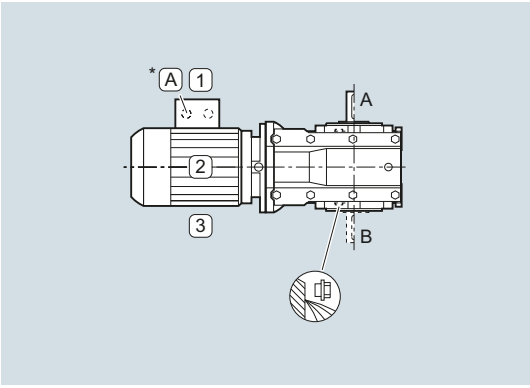
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

Bevel gearbox B

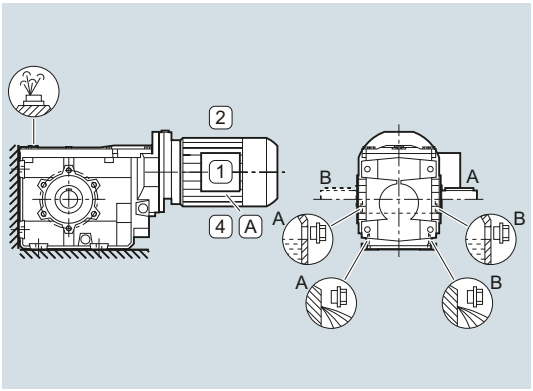
Foot-mounted design (continued)

Bevel gearboxes B, sizes 39 and 49

Oil valves

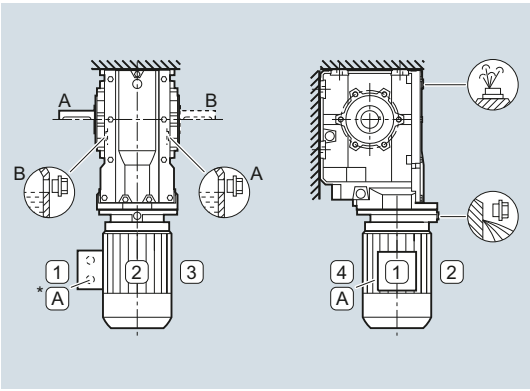
For an explanation of the symbols, see page 8/3.

M1



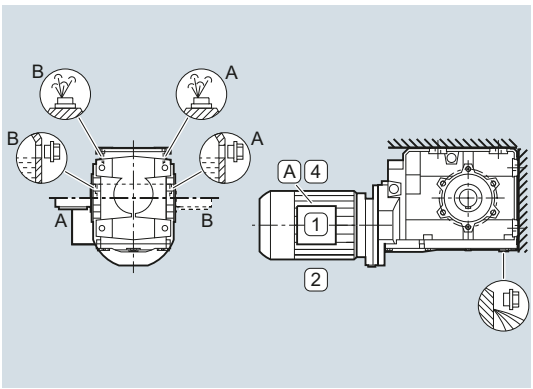
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



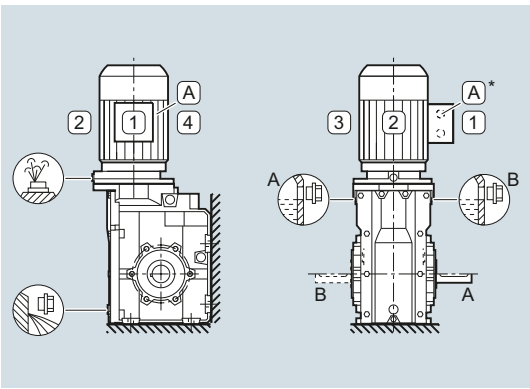
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



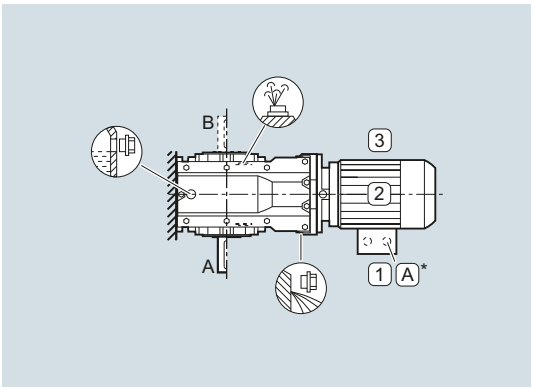
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



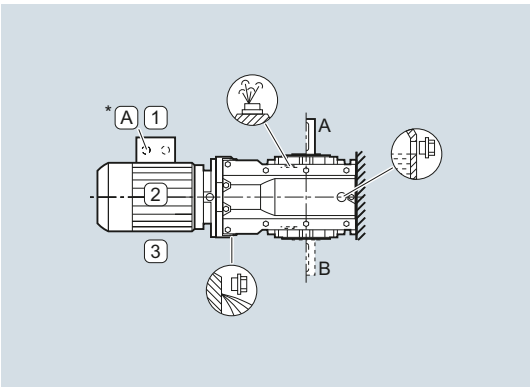
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

Housing flange design and flange-mounted design

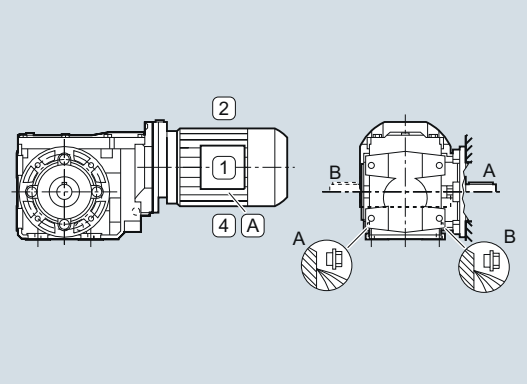
Bevel gearboxes B.Z and B.F, sizes 19 and 29

Oil valves

Sizes 19 and 29 are lubricated for life.

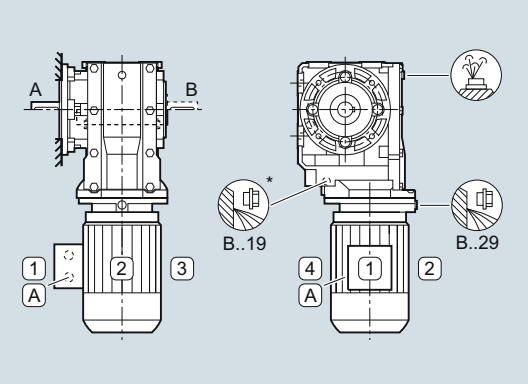
For an explanation of the symbols, see page 8/3.

M1



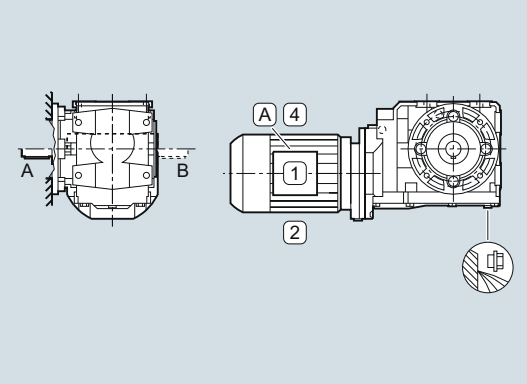
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



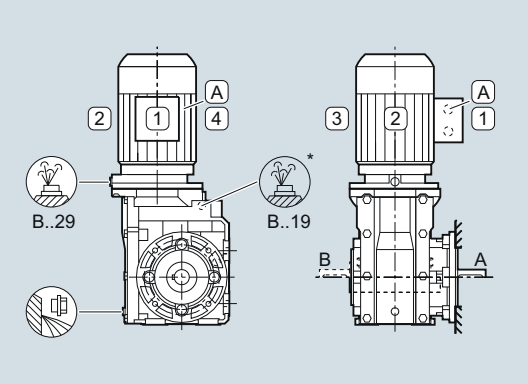
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



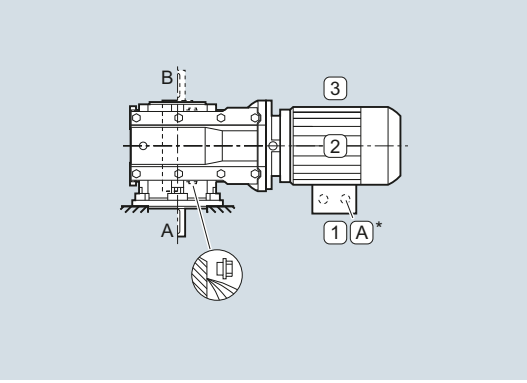
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



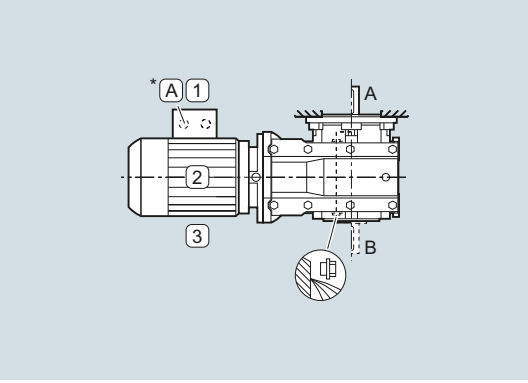
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

Bevel gearbox B

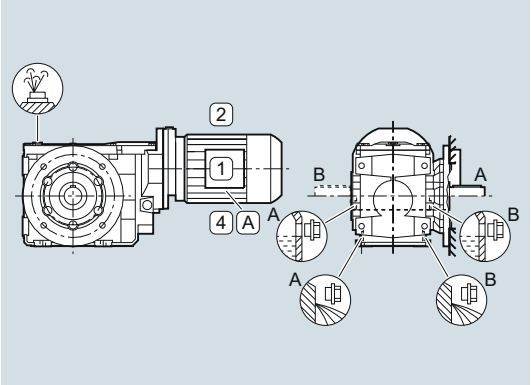
Housing flange design and flange-mounted design (continued)

Bevel gearboxes B.Z and B.F, sizes 39 and 49

Oil valves

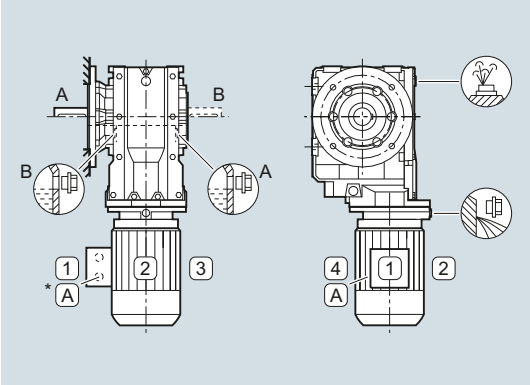
For an explanation of the symbols, see page 8/3.

M1



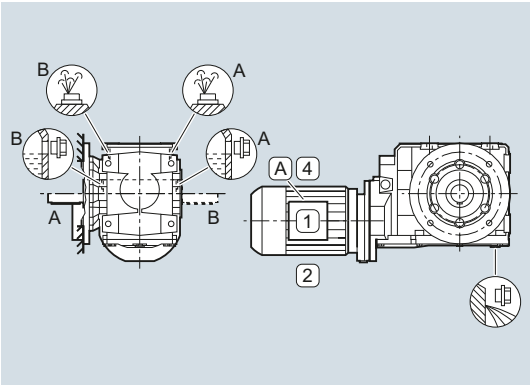
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



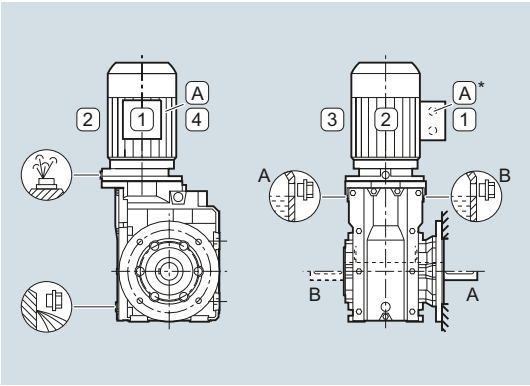
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



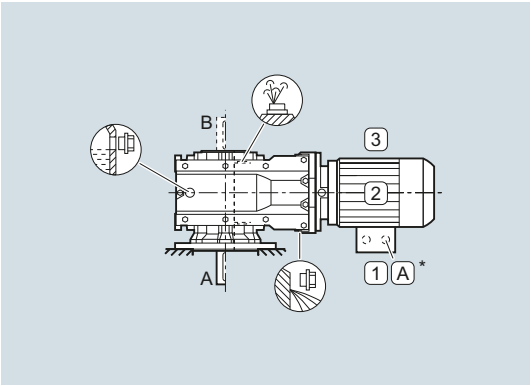
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



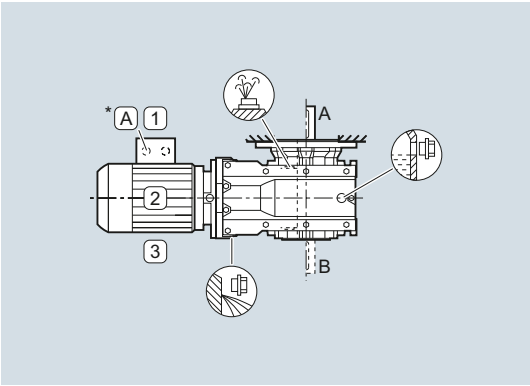
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

Shaft-mounted design

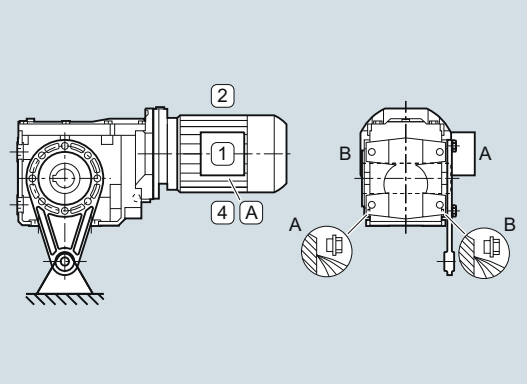
Bevel gearboxes BAD., sizes 19 and 29

Oil valves

Sizes 19 and 29 are lubricated for life.

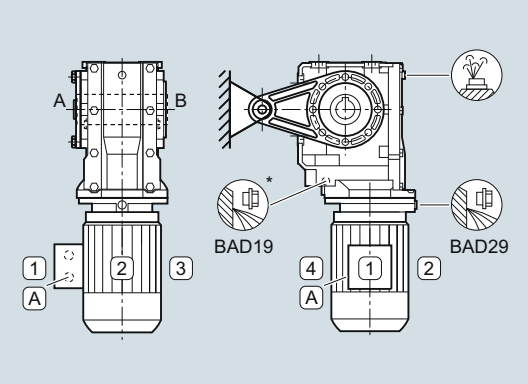
For an explanation of the symbols, see page 8/3.

M1



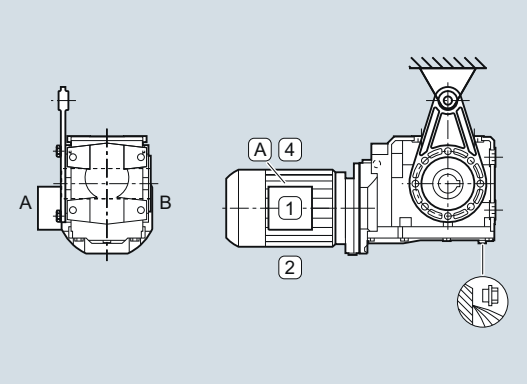
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



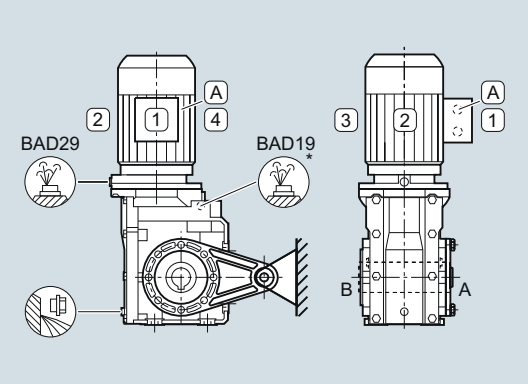
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



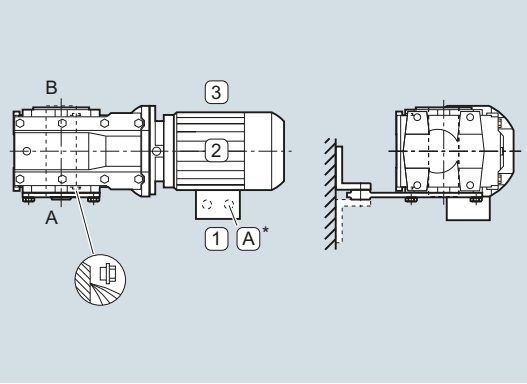
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



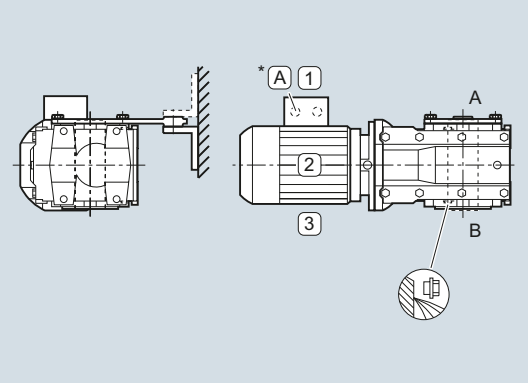
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

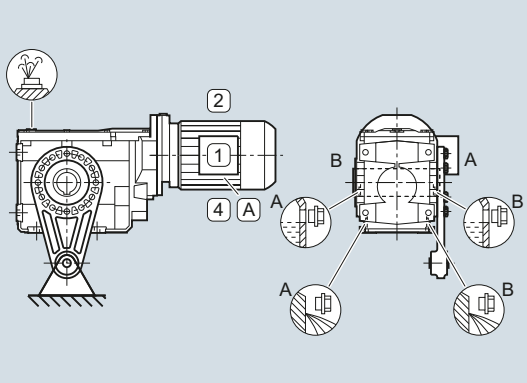
Shaft-mounted design (continued)

Bevel gearboxes BAD., sizes 39 and 49

Oil valves

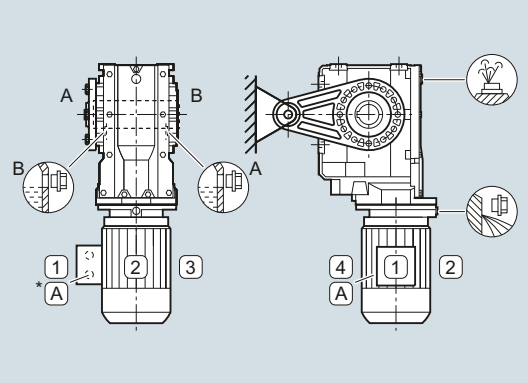
For an explanation of the symbols, see page 8/3.

M1



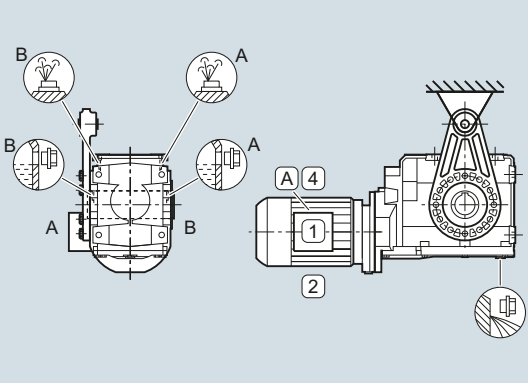
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



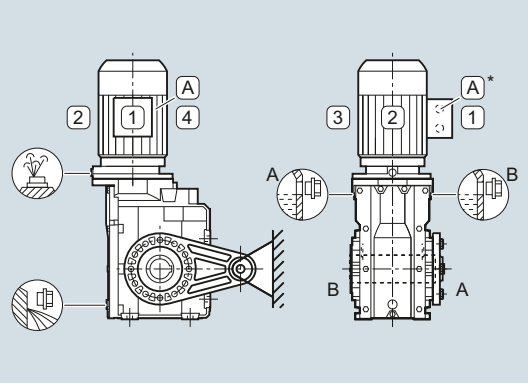
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



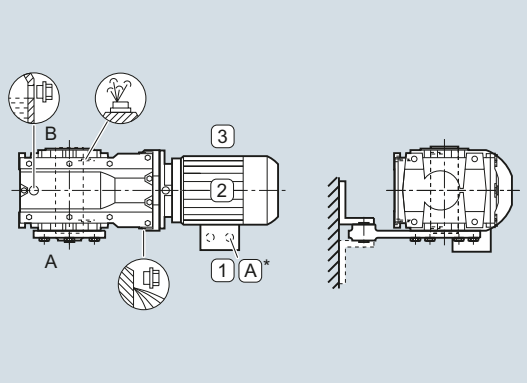
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



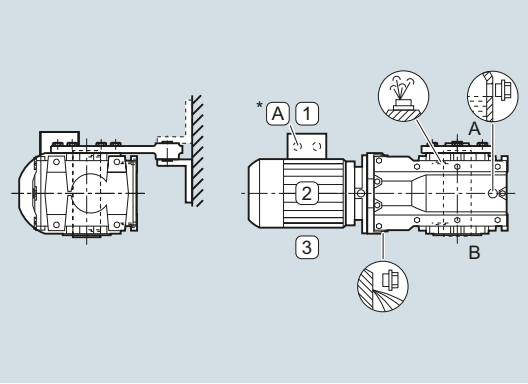
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

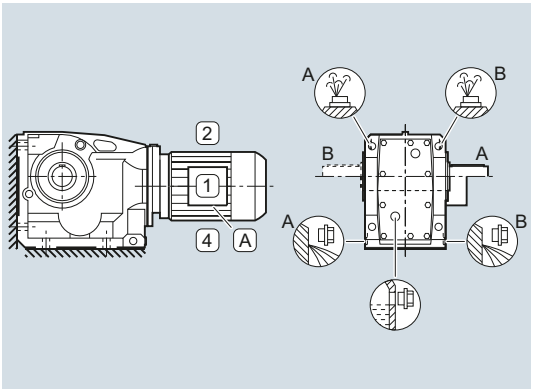
Foot-mounted design

Bevel gearboxes K, sizes 39 to 189

Oil valves

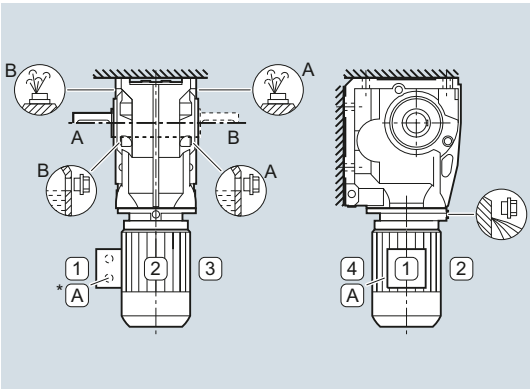
For an explanation of the symbols, see page 8/3.

M1



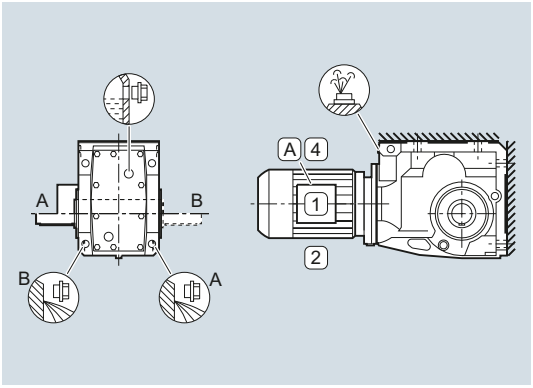
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



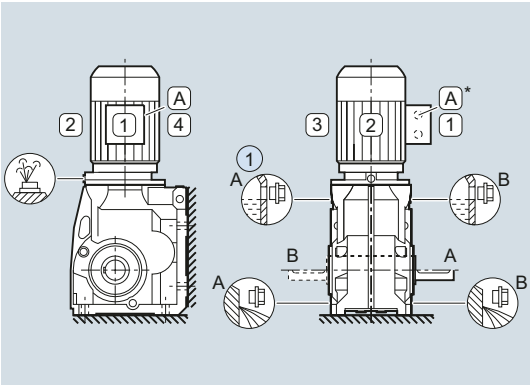
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



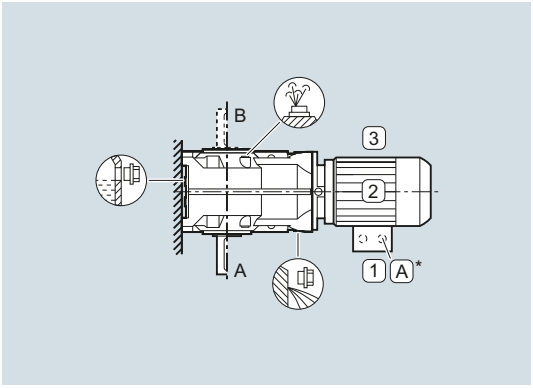
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



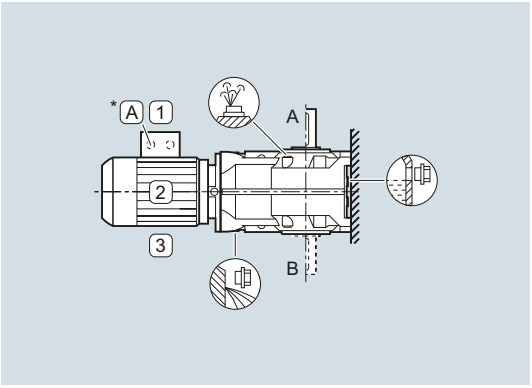
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

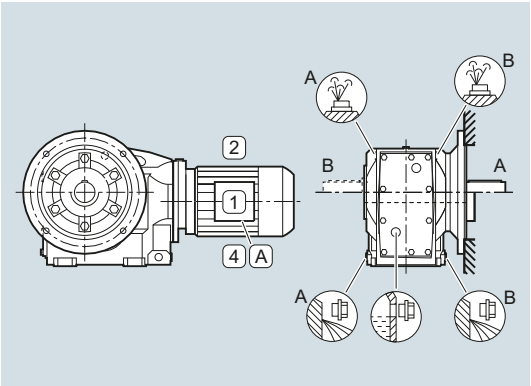
Housing flange design and flange-mounted design

Bevel gearboxes KAZ and K.F, sizes 39 to 189
Bevel gearboxes K.F with VLplus reinforced bearing systems, sizes 89 to 169

Oil valves

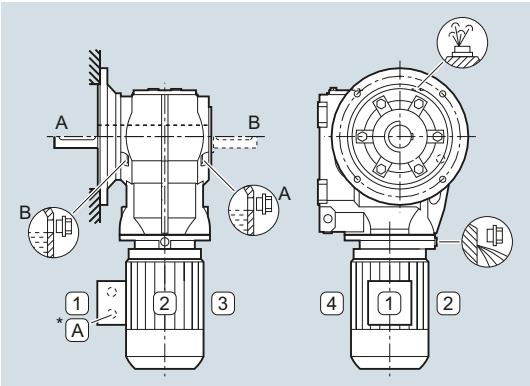
For an explanation of the symbols, see page 8/3.

M1



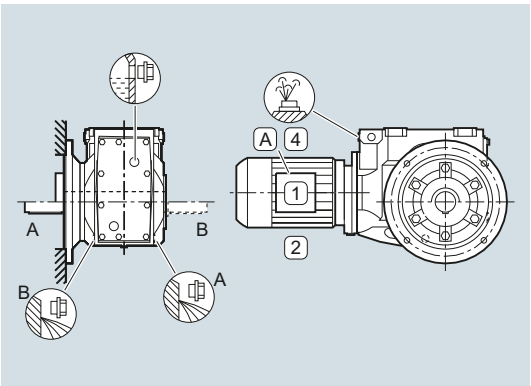
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



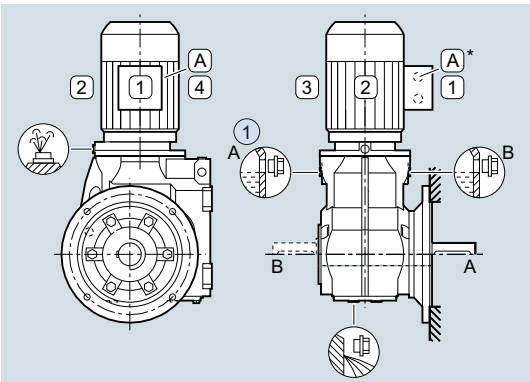
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



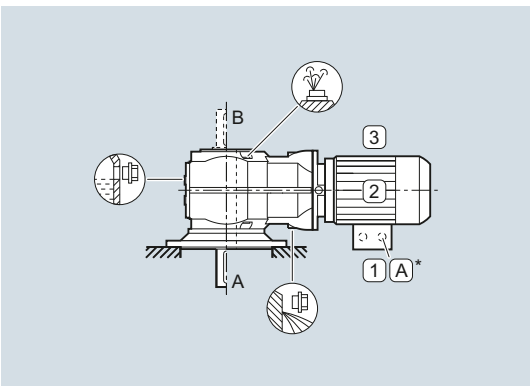
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



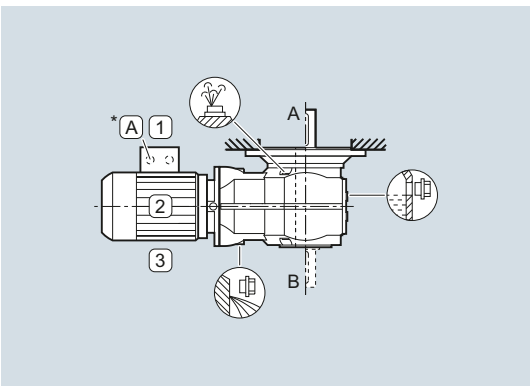
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

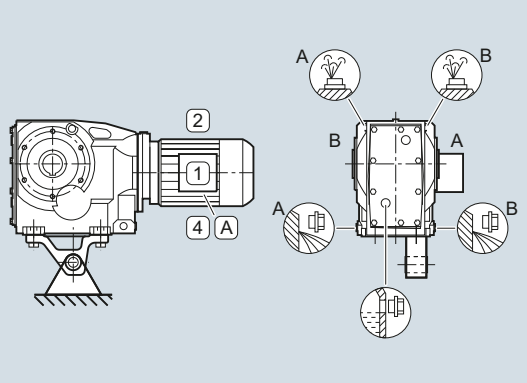
Shaft-mounted design

Bevel gearboxes KAD., sizes 39 to 189

Oil valves

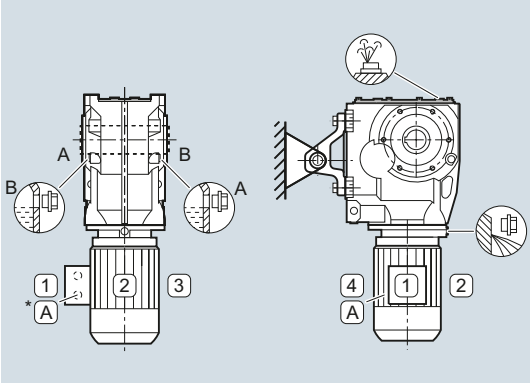
For an explanation of the symbols, see page 8/3.

M1



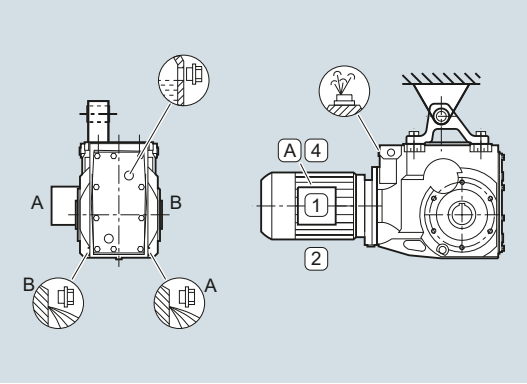
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



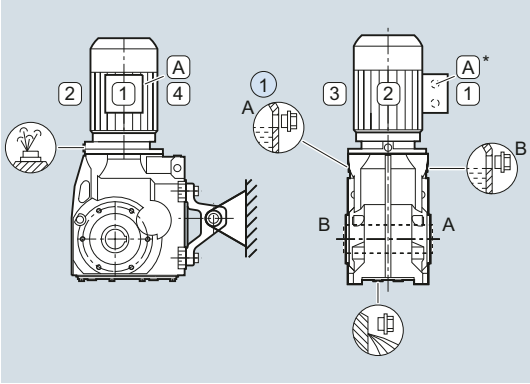
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



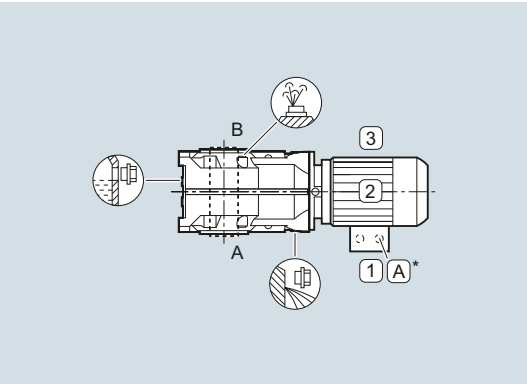
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



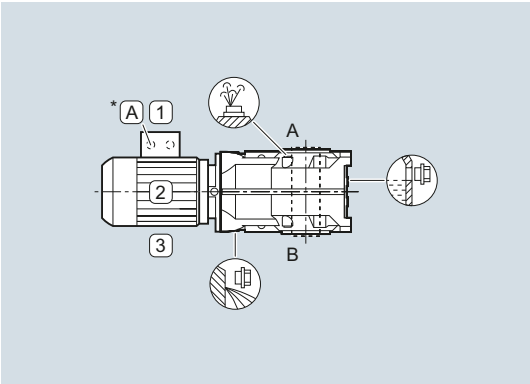
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

Shaft-mounted design

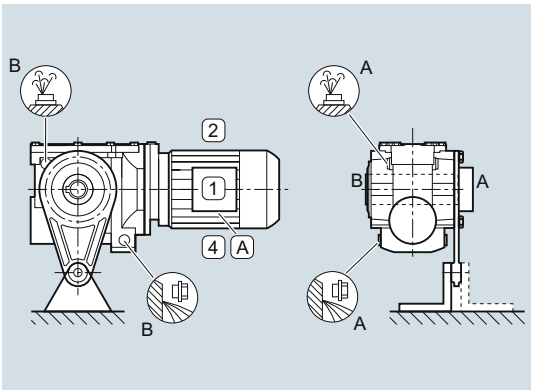
Helical worm gearboxes CAD., size 29

Oil valves

Size 29 is lubricated for life.

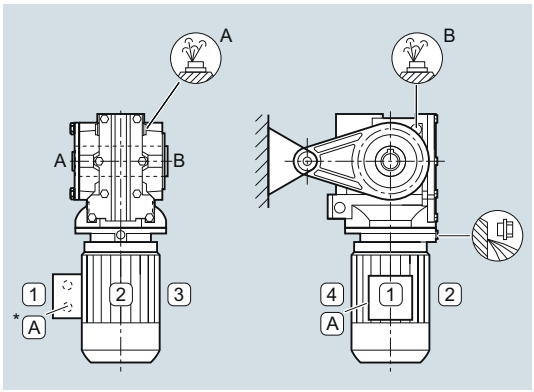
For an explanation of the symbols, see page 8/3.

M1



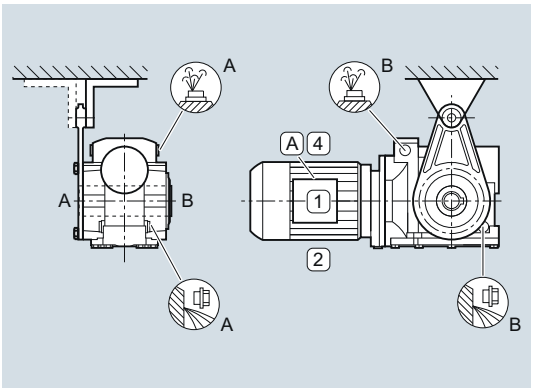
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



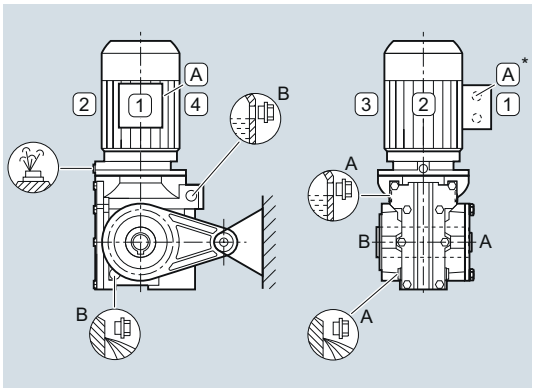
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



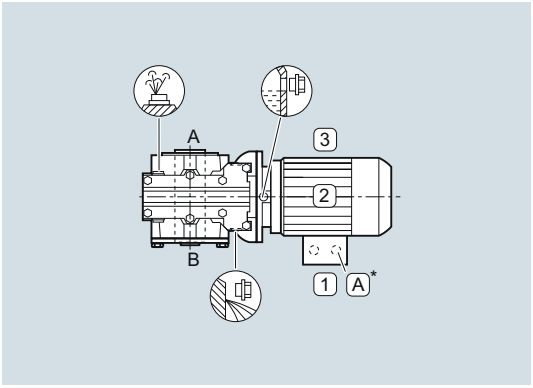
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



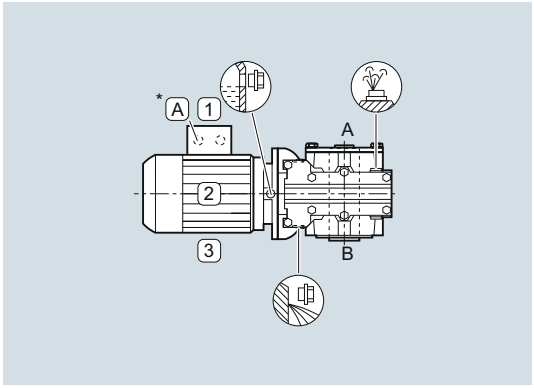
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

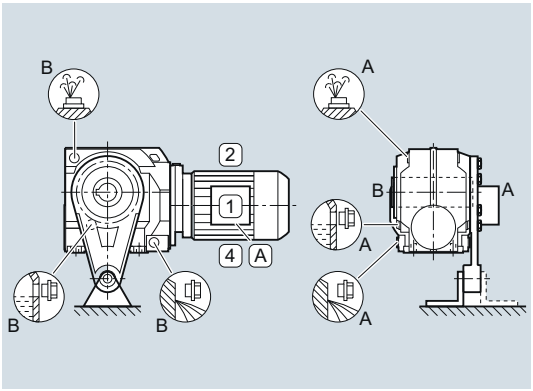
Shaft-mounted design (continued)

Helical worm gearboxes CAD., sizes 39 to 89

Oil valves

For an explanation of the symbols, see page 8/3.

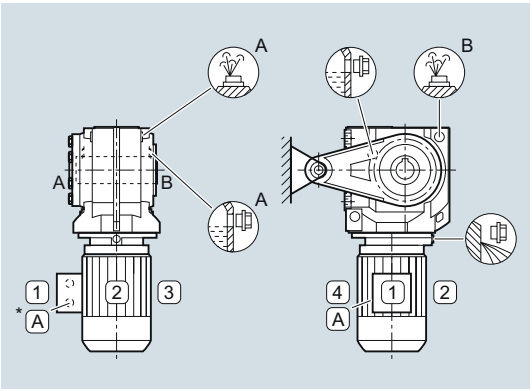
M1



Order code:

M1 output side A	**D11**
M1 output side B	**D21**

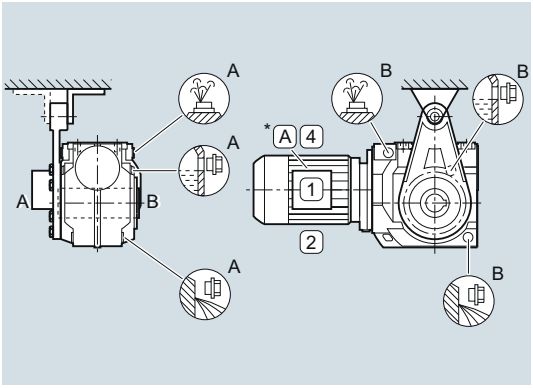
M2



Order code:

M2 output side A	**D12**
M2 output side B	**D22**

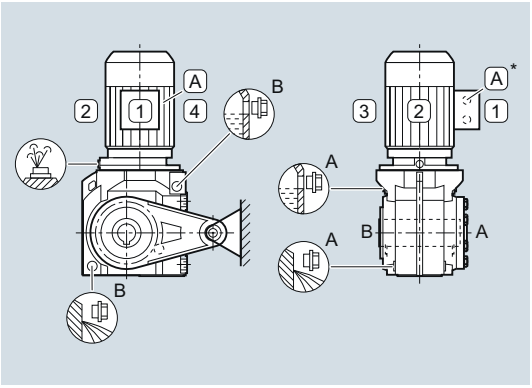
M3



Order code:

M3 output side A	**D13**
M3 output side B	**D23**

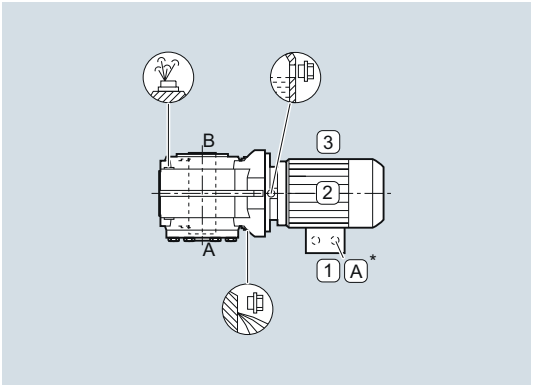
M4



Order code:

M4 output side A	**D14**
M4 output side B	**D24**

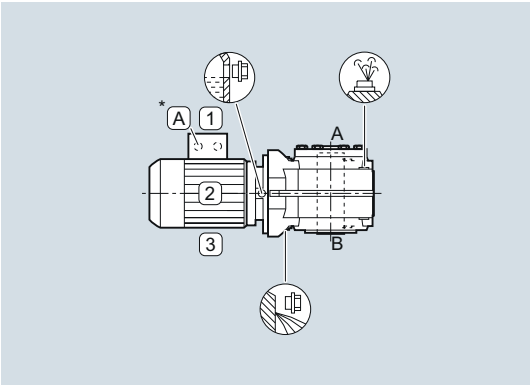
M5



Order code:

M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:

M6 output side A	**D16**
M6 output side B	**D26**

Housing flange design and flange-mounted design

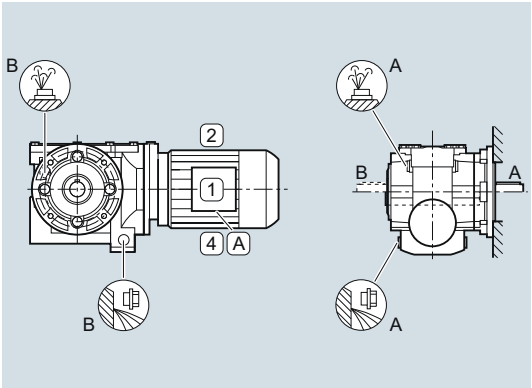
Helical worm gearboxes CAZ and C.F, size 29

Oil valves

Size 29 is lubricated for life.

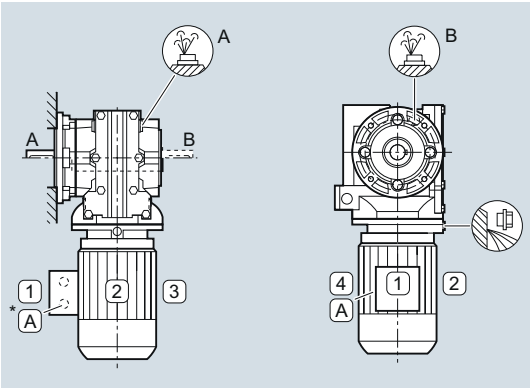
For an explanation of the symbols, see page 8/3.

M1



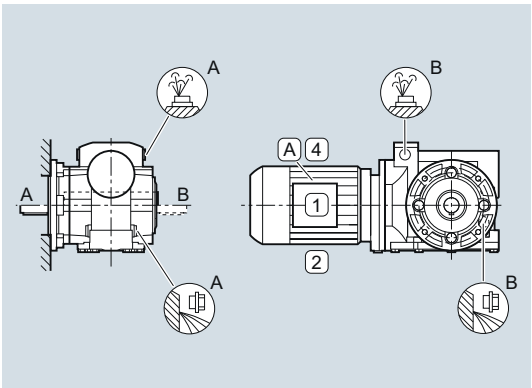
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



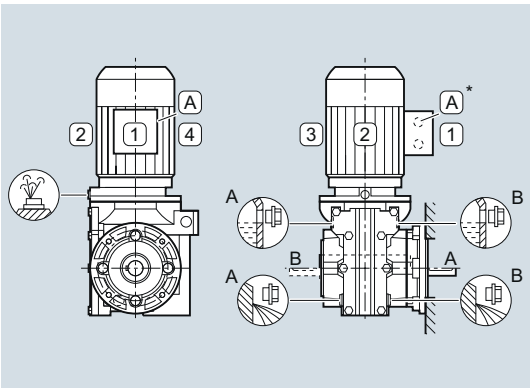
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



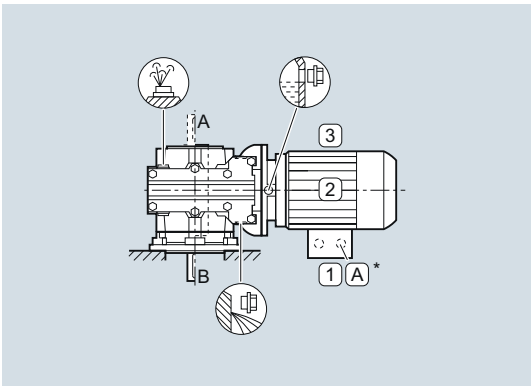
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



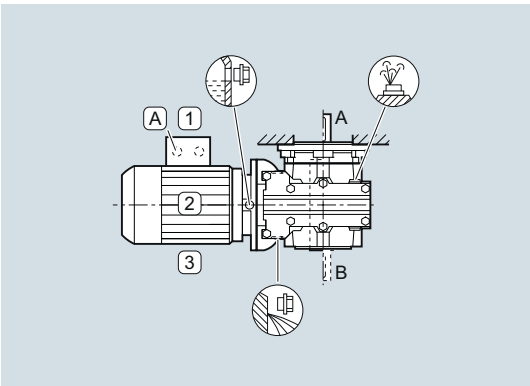
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

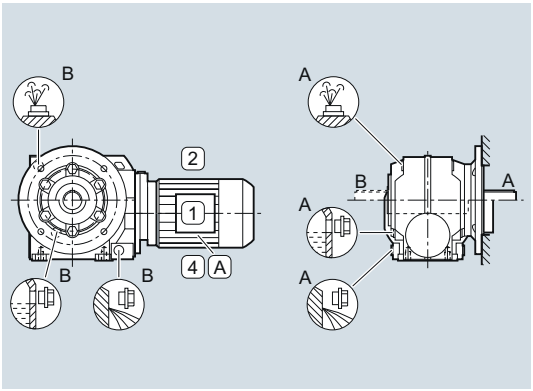
Housing flange design and flange-mounted design (continued)

Helical worm gearboxes CAZ and C.F, sizes 39 to 89

Oil valves

For an explanation of the symbols, see page 8/3.

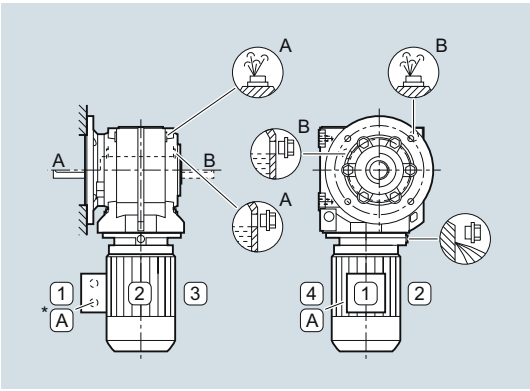
M1



Order code:

M1 output side A	**D11**
M1 output side B	**D21**

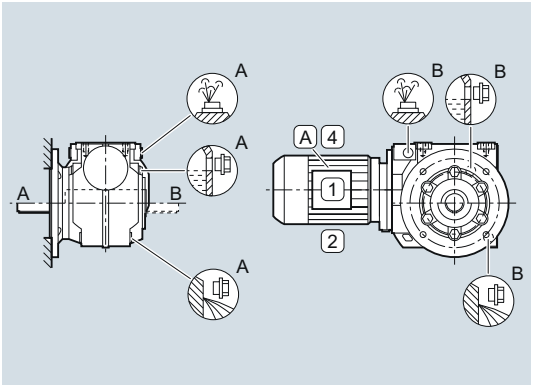
M2



Order code:

M2 output side A	**D12**
M2 output side B	**D22**

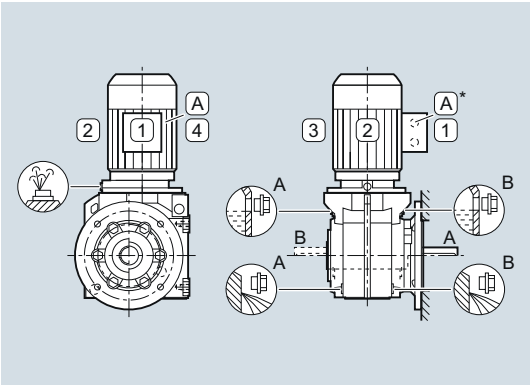
M3



Order code:

M3 output side A	**D13**
M3 output side B	**D23**

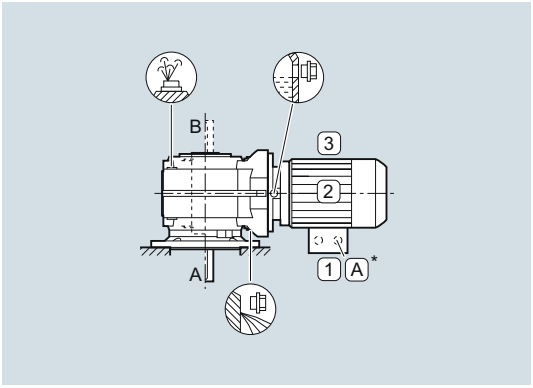
M4



Order code:

M4 output side A	**D14**
M4 output side B	**D24**

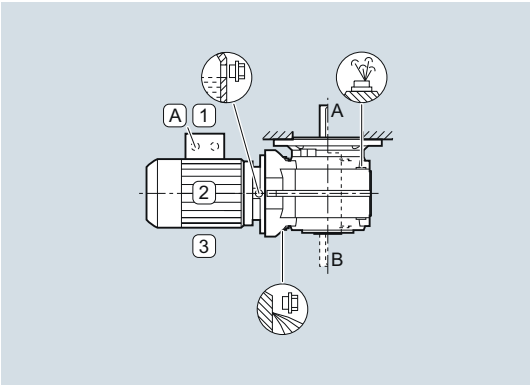
M5



Order code:

M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:

M6 output side A	**D16**
M6 output side B	**D26**

Foot-mounted design

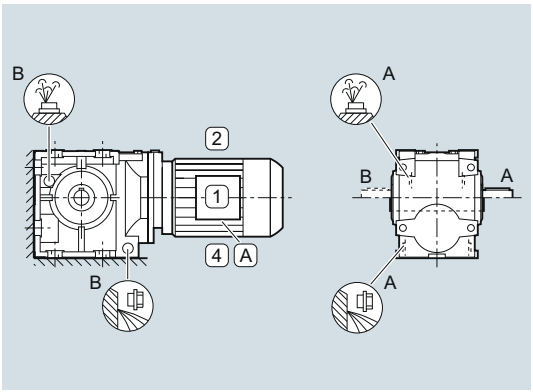
Helical worm gearboxes C, size 29

Oil valves

Size 29 is lubricated for life.

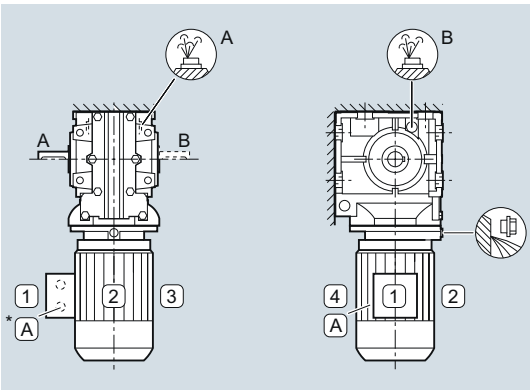
For an explanation of the symbols, see page 8/3.

M1



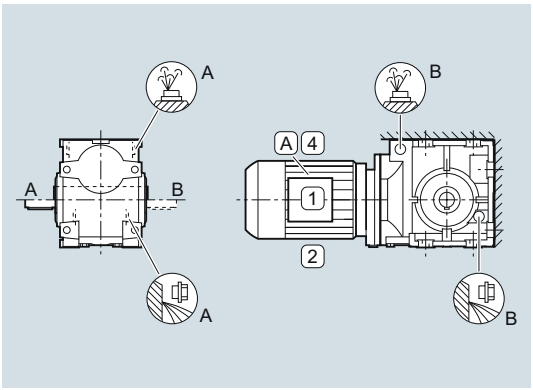
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



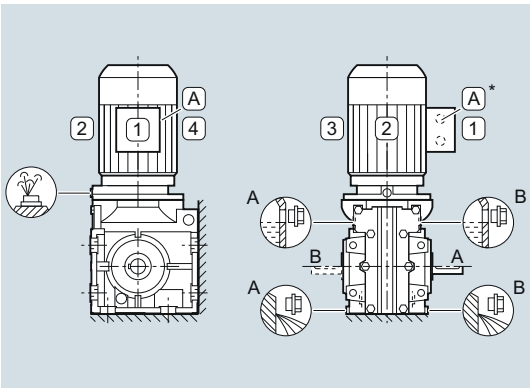
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



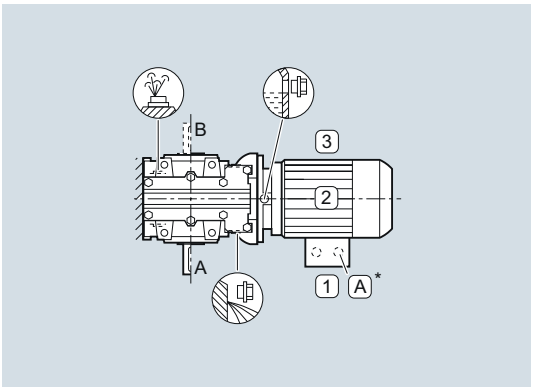
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



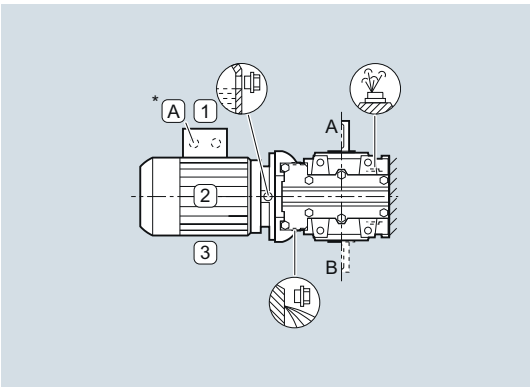
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

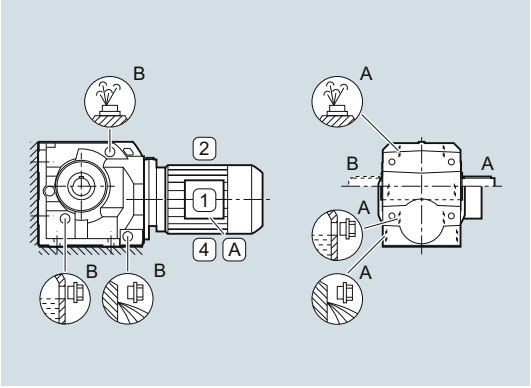
Foot-mounted design (continued)

Helical worm gearboxes C, sizes 39 to 89

Oil valves

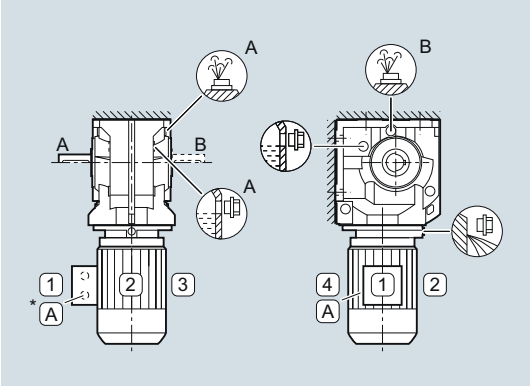
For an explanation of the symbols, see page 8/3.

M1



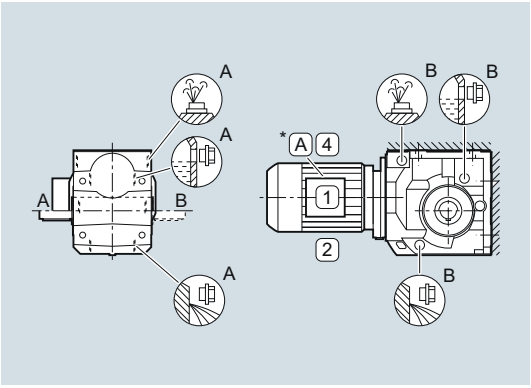
Order code:	
M1 output side A	**D11**
M1 output side B	**D21**

M2



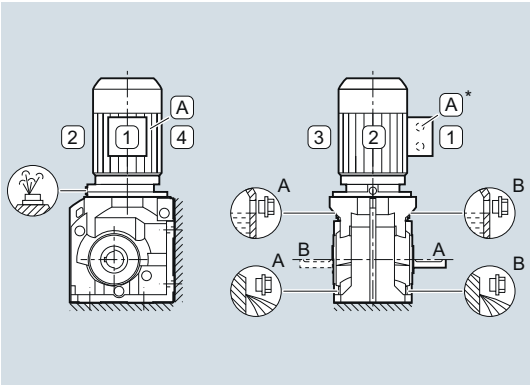
Order code:	
M2 output side A	**D12**
M2 output side B	**D22**

M3



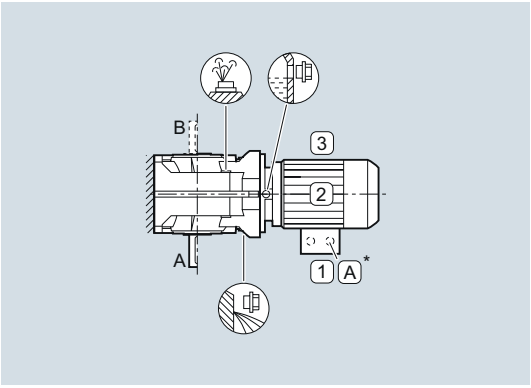
Order code:	
M3 output side A	**D13**
M3 output side B	**D23**

M4



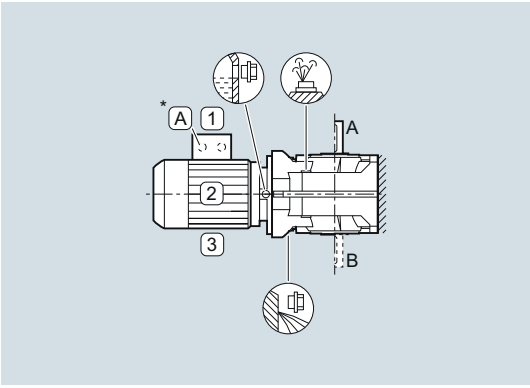
Order code:	
M4 output side A	**D14**
M4 output side B	**D24**

M5



Order code:	
M5 output side A	**D15**
M5 output side B	**D25**

M6



Order code:	
M6 output side A	**D16**
M6 output side B	**D26**

Tandem gearbox

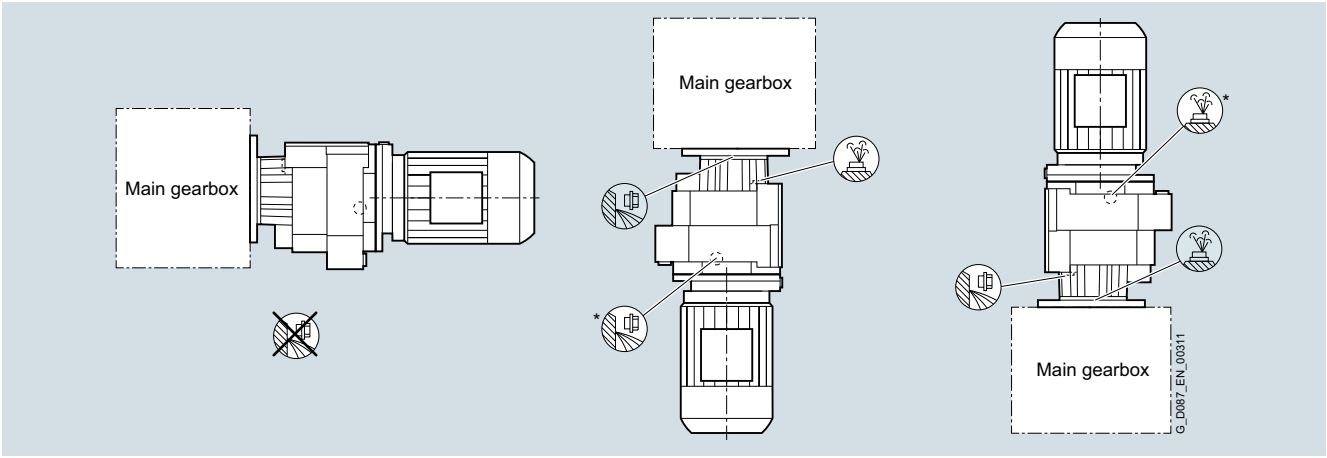
Overview

The tandem gearbox is mounted in the same position as the main gearbox. The diagrams below are only designed to show the position of the oil control valves of the 2nd gearbox.

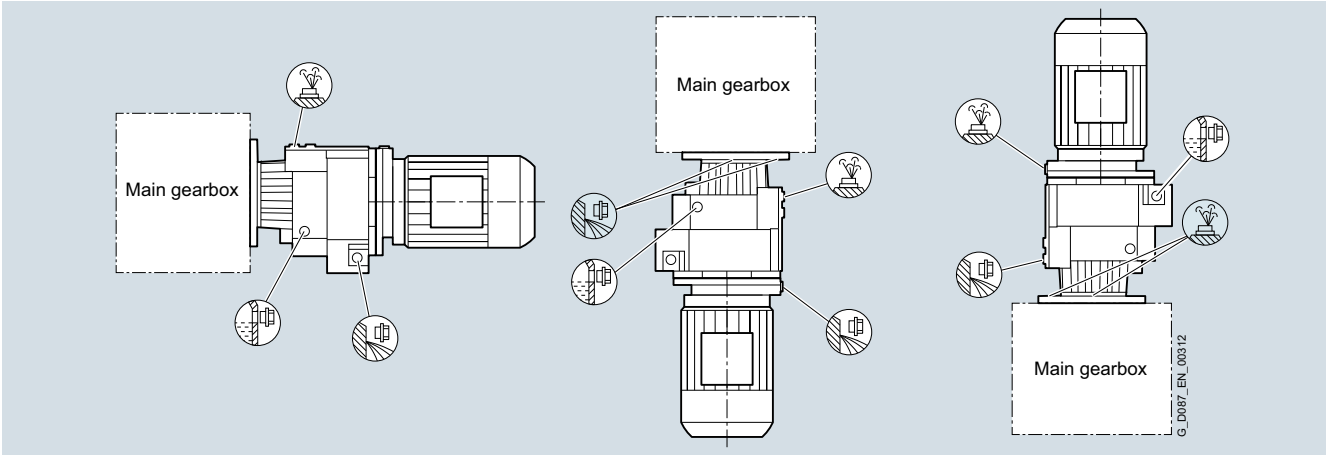
Note:

In a horizontal operating position, the convex face of the housing of the 2nd gearbox generally points vertically downwards.
For an explanation of the symbols, see page 8/3.

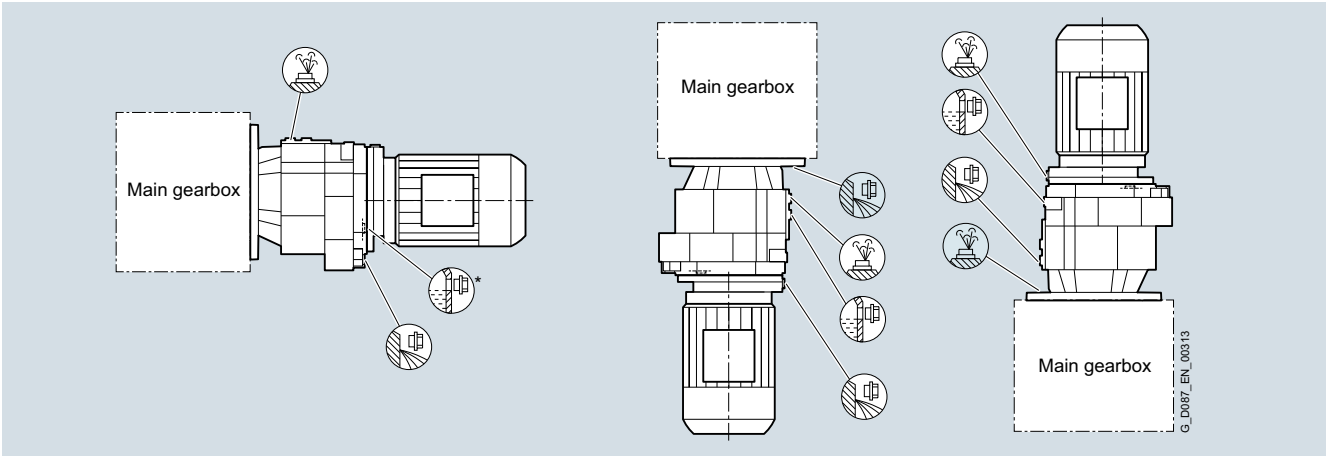
Tandem gearbox: 2nd gearbox size 19



Tandem gearbox: 2nd gearbox size 39



Tandem gearbox: 2nd gearbox sizes 49 to 69



Overview

Apart from the standard types of construction, geared motors can also be supplied in different inclined positions.

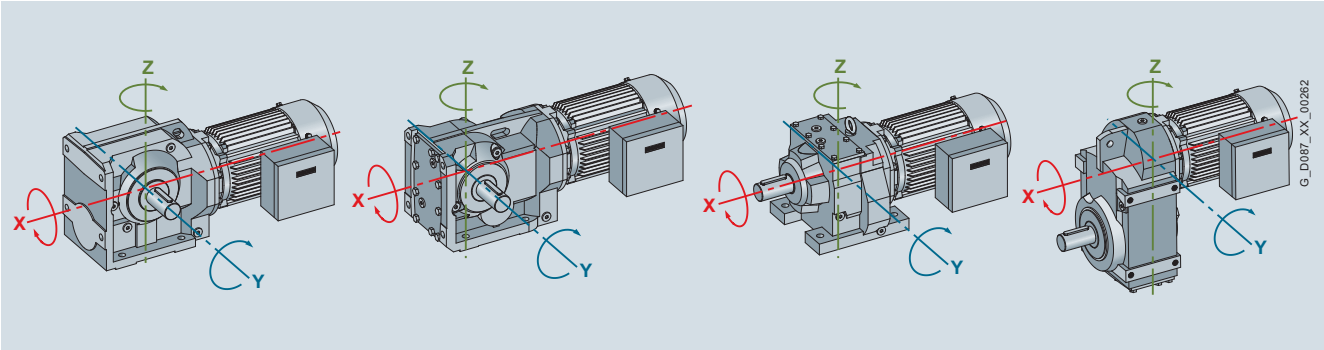


Fig. 8/6 Axes of rotation of the geared motors

Order code:

Y axis		X axis		Z axis	
Rotation angle 5 °	**E01**	Rotation angle 5 °	**E21**	Rotation angle 5 °	**E41**
Rotation angle 10 °	**E02**	Rotation angle 10 °	**E22**	Rotation angle 10 °	**E42**
Rotation angle 15 °	**E03**	Rotation angle 15 °	**E23**	Rotation angle 15 °	**E43**
Rotation angle 20 °	**E04**	Rotation angle 20 °	**E24**	Rotation angle 20 °	**E44**
Rotation angle 25 °	**E05**	Rotation angle 25 °	**E25**	Rotation angle 25 °	**E45**
Rotation angle 30 °	**E06**	Rotation angle 30 °	**E26**	Rotation angle 30 °	**E46**
Rotation angle 35 °	**E07**	Rotation angle 35 °	**E27**	Rotation angle 35 °	**E47**
Rotation angle 40 °	**E08**	Rotation angle 40 °	**E28**	Rotation angle 40 °	**E48**
Rotation angle 45 °	**E09**	Rotation angle 45 °	**E29**	Rotation angle 45 °	**E49**
Rotation angle 50 °	**E10**	Rotation angle 50 °	**E30**	Rotation angle 50 °	**E50**
Rotation angle 55 °	**E11**	Rotation angle 55 °	**E31**	Rotation angle 55 °	**E51**
Rotation angle 60 °	**E12**	Rotation angle 60 °	**E32**	Rotation angle 60 °	**E52**
Rotation angle 65 °	**E13**	Rotation angle 65 °	**E33**	Rotation angle 65 °	**E53**
Rotation angle 70 °	**E14**	Rotation angle 70 °	**E34**	Rotation angle 70 °	**E54**
Rotation angle 75 °	**E15**	Rotation angle 75 °	**E35**	Rotation angle 75 °	**E55**
Rotation angle 80 °	**E16**	Rotation angle 80 °	**E36**	Rotation angle 80 °	**E56**
Rotation angle 85 °	**E17**	Rotation angle 85 °	**E37**	Rotation angle 85 °	**E57**

Use the functions of the DT Configurator to precisely design the special mounting position you require.

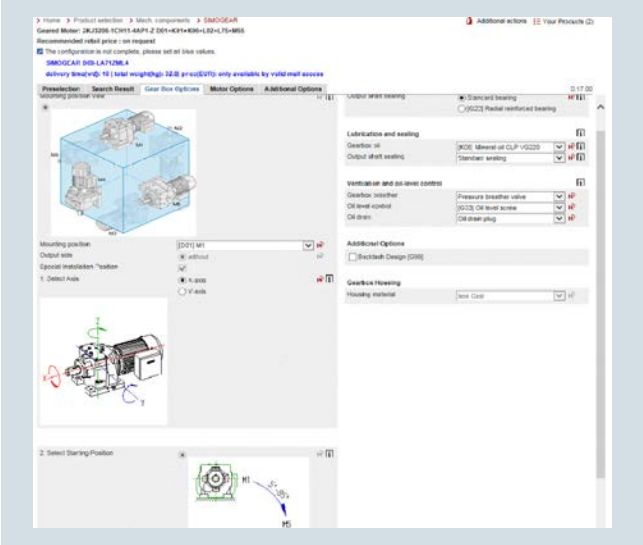
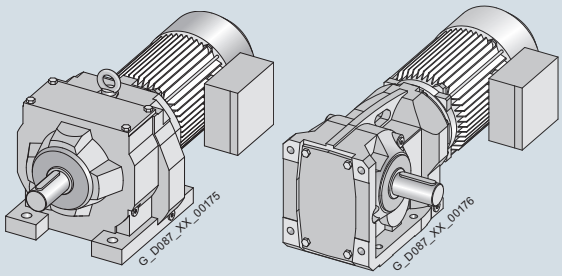
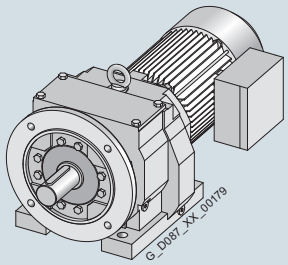
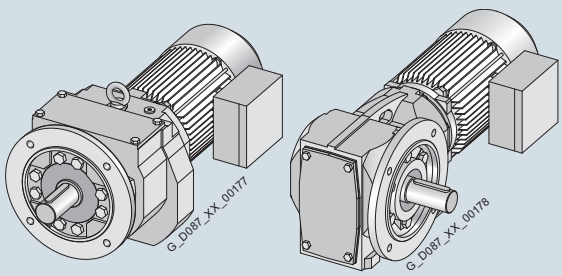
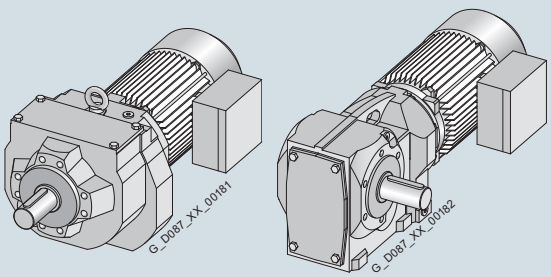
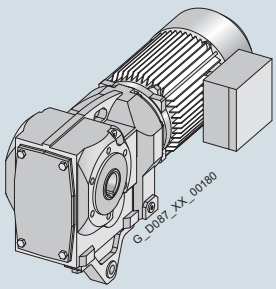


Fig. 8/7 DT Configurator

Mounting types

Overview

Mounting type	Type designation 2nd data position	Possible for D, Z	E	F	B	K	C	Example	Article No. 14th data position
Foot-mounted design	-	✓	✓	✓	✓	✓	✓		**A**
Foot/flange-mounted design	B	✓[1]	-	-	-	-	-		**B**
Flange-mounted design (A type)	F	✓	✓	✓	✓	✓	✓		**F**
Housing flange (C type)	Z	✓	✓	✓	✓	✓	✓		**H**
Shaft-mounted design	D	-	-	✓	✓	-	✓		**D**
(torque arm)		-	-	-	-	✓	-		**C**

[1] Only for sizes 29 to 89

Flange-mounted designs

The flange-mounted designs are available with different diameters.

Gearbox type	Flange diameter mm													Order code
Helical gearboxes DF and ZF														
Gearbox size	**19**	**29**	**39**	**49**	**59**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**	
	120	120	120											**H02**
	140	140		140										**H03**
	160	160	160	160	160									**H04**
			200	200	200	200								**H05**
					250	250	250							**H06**
							300	300						**H07**
							350	350	350	350				**H08**
								450	450	450	450	450		**H09**
										550	550	550	550	**H10**
												660	660	**H11**
Helical gearboxes VLplus								300						**H07**
								350	350	350				**H08**
								450	450	450		450		**H09**
										550	550	550		**H10**
												660		**H11**
Helical gearboxes XLplus								450	450					**H09**
										550	550			**H10**
												660		**H11**
Helical gearboxes DB and ZB														
Gearbox size	**29**		**39**		**49**		**59**		**69**		**79**		**89**	
	120		120											**H02**
					140									**H03**
					160		160							**H04**
									200					**H05**
											250			**H06**
													300	**H07**
Helical gearboxes EF														
Gearbox size	**39**		**49**		**69**		**89**		**109**		**129**		**149**	
	120													**H02**
	140													**H03**
	160		160											**H04**
	200		200		200									**H05**
			250		250		250							**H06**
							300		300					**H07**
							350		350		350		350	**H08**
									450		450		450	**H09**
													550	**H10**
Cooling tower gearboxes														
Gearbox size	**EKF89**	**EKF109**	**EKF129**	**EKF149**	**ZKF89**	**ZKF109**	**ZKF129**	**ZKF149**	**ZKF169**	**ZKF189**				
	250													**H06**
	300	300			300									**H07**
	350	350	350	350	350	350	350							**H08**
		450	450	450	450	450	450	450	450					**H09**
				550			550	550	550	550				**H10**
									660	660				**H11**
Cooling tower gearboxes XLplus					450	450								**H09**
							550	550						**H10**
									660					**H11**

8

Mounting types

Flange-mounted designs (continued)

Gearbox type	Flange diameter mm											Order code
Parallel shaft gearboxes F..F												
Gearbox size	**29**	**39**	**49**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**	
	120											**H02**
	160	160										**H04**
			200									**H05**
				250	250							**H06**
						300						**H07**
							350					**H08**
								450	450			**H09**
										550		**H10**
											660	**H11**
Parallel shaft gearbox VLplus						300						**H07**
							350					**H08**
								450	450			**H09**
										550		**H10**
Bevel gearboxes B.F												
Gearbox size	**19**			**29**			**39**			**49**		
	120			120								**H02**
				160			160					**H04**
							200			200		**H05**
Bevel gearboxes K.F												
Gearbox size	**39**	**49**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**		
	160											**H04**
		200										**H05**
			250	250								**H06**
					300							**H07**
						350						**H08**
							450	450				**H09**
									550			**H10**
										660		**H11**
Bevel gearboxes VLplus					300							**H07**
						350						**H08**
							450	450				**H09**
									550			**H10**
Helical worm gearboxes C.F												
Gearbox size	**29**		**39**		**49**		**69**		**89**			
	120											**H02**
	160		160									**H04**
					200		200					**H05**
									250			**H06**

8

Flange-mounted designs (continued)

Water drain holes at the output flange

For gearboxes in a flange-mounted design, water drain holes can be located at the output flange. This is required for mounting position M2 (output shaft facing upwards), if there is a risk that water will collect in the output flange.

Order code:

Water drain holes at the output flange	**G77**

Flange diameter mm	**Possible for**												
Helical gearboxes Z and D													
Gearbox size	**19**	**29**	**39**	**49**	**59**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**
120													
140				✓									
160				✓	✓[1)]								
200				✓	✓	✓[2)]							
250					✓	✓	✓[1)]						
300							✓	✓					
350							✓	✓	✓	✓			
450								✓	✓	✓	✓	✓	
550										✓	✓	✓	✓
660												✓	✓

[1)] Water drain holes are also possible for foot/flange-mounted designs
[2)] Water drain holes are only possible for foot/flange-mounted designs

Helical gearboxes E								
Gearbox size	**39**	**49**	**69**	**89**	**109**	**129**	**149**	
120	✓							
140	✓							
160	✓	✓						
200	✓	✓	✓					
250		✓	✓	✓				
300				✓	✓			
350					✓	✓	✓	
450						✓	✓	

Cooling tower gearboxes										
Gearbox size	**EKF89**	**EKF109**	**EKF129**	**EKF149**	**ZKF89**	**ZKF109**	**ZKF129**	**ZKF149**	**ZKF169**	**ZKF189**
250	✓									
300	✓	✓			✓					
350	✓	✓	✓	✓	✓	✓	✓			
450		✓	✓	✓	✓	✓	✓	✓	✓	
550				✓			✓	✓	✓	✓
660									✓	✓

Parallel shaft gearboxes F											
Gearbox size	**29**	**39**	**49**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**
120											
140											
160		✓									
200			✓								
250				✓	✓						
300						✓					
350							✓				
450								✓	✓		
550										✓	
660											✓

Bevel gearboxes K										
Gearbox size	**39**	**49**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**
160	✓									
200		✓								
250			✓	✓						
300					✓					
350						✓				
450							✓	✓		
550									✓	
660										✓

Mounting types

Flange-mounted designs (continued)

Output flange seal

The flange sealing option enables you to create a fluid-tight interface between the housing and the output flange. The seal prevents the escape of fluids (e.g. oil or water).

The gearbox in a flange-mounted design can be used when a fluid-tight space at the output is required. Input gears are a typical application.

The flange sealing option must always be ordered for use in combination with the "water drain holes at the output flange" option.

Order code:

Output flange seal	**G78**

Parallel shaft gearboxes F.AD. in a shaft-mounted design

The rubber buffers (supplied loose) are used to flexibly support the gearbox on the housing plate provided.

When mounting, the rubber buffers must be pretensioned to the dimension specified in the dimensional drawing.

The elastomer used for support is manufactured out of natural rubber 70° ± 5 Shore A.

The rubber buffers are suitable for all mounting positions and can withstand temperatures of between -40 and +60 °C.

Article No. at 14th data position

Shaft-mounted design	**D**

The dimensions of the torque arm can be seen in the dimensional drawings.

Bevel gearboxes KAD. in a shaft-mounted design

The torque arm of bevel gearboxes K is mounted on the underside of the housing. The rubber buffers are used to flexibly support the gearbox on the torque arm.

The elastomer used for support is manufactured out of natural rubber of grade 60° Shore A.

The rubber elastic buffers are suitable for all mounting positions and can withstand temperatures of between -40 and +60 °C.

Article No. at 14th data position

Shaft-mounted design	**C**

The dimensions of the torque arm can be seen in the dimensional drawings.

Bevel gearboxes BAD. in a shaft-mounted design

The torque arm can be screwed to the gearbox housing at various positions.

Article No. at 14th data position

Shaft-mounted design	**D**

When ordered, the torque arm is supplied loose.

Shaft-mounted design for sizes 19 and 29

The elastomer used for support is manufactured out of natural rubber 90° Shore A. The rubber elastic buffers are suitable for all mounting positions and can withstand temperatures of between -30 and +60 °C.

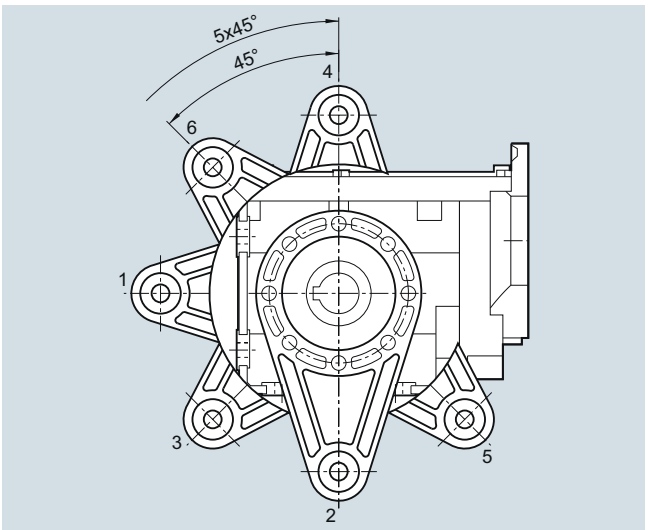


Fig. 8/8 Bevel gearboxes BAD., sizes 19 and 29

Shaft-mounted design for sizes 39 and 49

The elastomer used for support is manufactured out of natural rubber 60° Shore A. The rubber elastic buffers are suitable for all mounting positions and can withstand temperatures of between -40 and +60 °C.

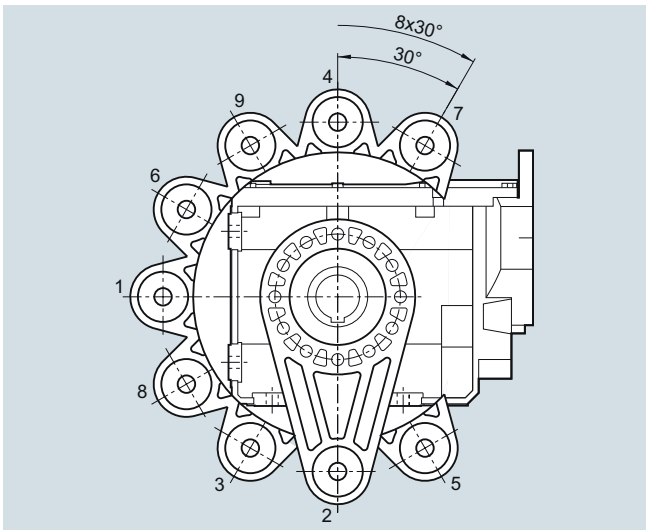


Fig. 8/9 Bevel gearboxes BAD., sizes 39 and 49

Helical worm gearboxes CAD. in a shaft-mounted design

The torque arm can be screwed to the gearbox housing at various positions.

Article No. in the 14th data position	
Shaft-mounted design	**D**

When ordered, the torque arm is supplied loose.

Shaft-mounted design for size 29

The elastomer used for support is manufactured out of natural rubber 90° Shore A. The rubber elastic buffers are suitable for all mounting positions and can withstand temperatures of between -30 and +60 °C.

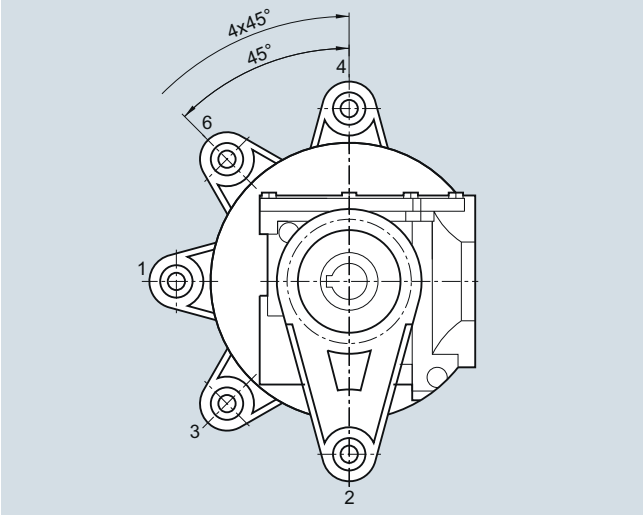


Fig. 8/10 Helical worm gearboxes CAD., size 29

Shaft-mounted design for sizes 39 to 89

The elastomer used for support is manufactured out of natural rubber 60° Shore A. The rubber elastic buffers are suitable for all mounting positions and can withstand temperatures of between -40 and +60 °C.

Order code:	
Figure 1	**G09**
Figure 2	**G10**

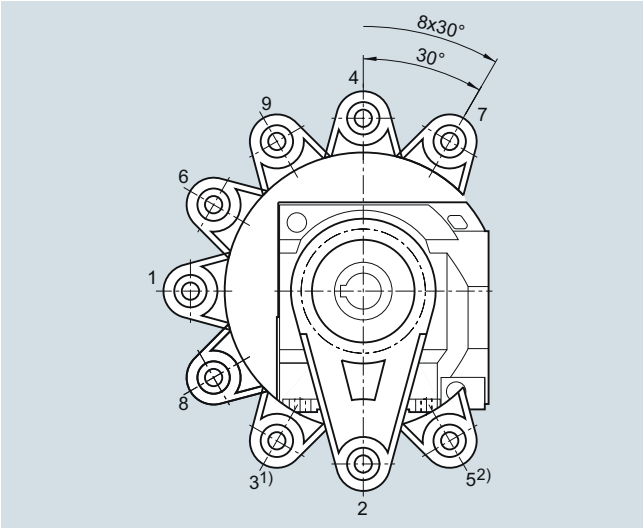


Fig. 8/11 Helical worm gearboxes CAD., Figure 1, sizes 39 to 89

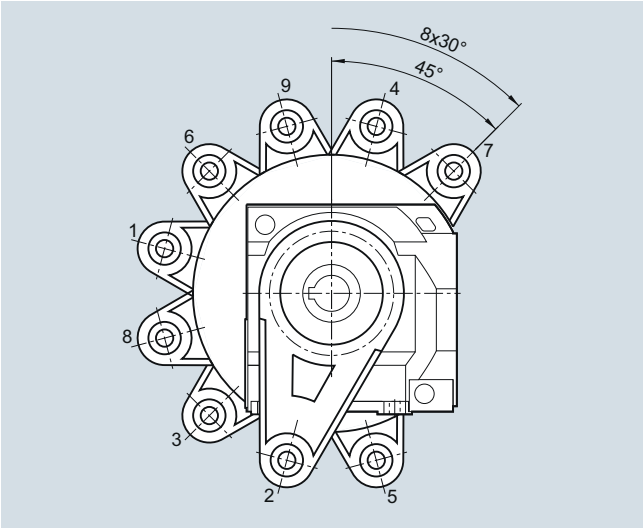


Fig. 8/12 Helical worm gearboxes CAD., Figure 2, sizes 39 to 89

1) Position not possible for sizes CAD.39 and CAD.69

2) Position not possible for size CAD.39

Shaft designs

Selection and ordering data

Shaft design	Dimensions mm						Ambient temperature range	Article No. 8th data position	Article No. supplement
Helical gearboxes Z and D									
Gearbox size	**19**	**29**	**39**	**49**	**59**	**69**			
Solid shaft	V20 x 40	V25 x 50	V25 x 50	V30 x 60	V35 x 70	V35 x 70	-40 ... +60 °C	**1**	
	V16 x 28				V30 x 60			**2**	
	V16 x 40		V30 x 60		V40 x 80			**3**	
Solid shaft without feather key	VG20 x 40	VG25 x 50	VG25 x 50	VG30 x 60	VG35 x 70	VG35 x 70		**9**	**H1G**
Solid shaft, inches	V0.75" x 1.57"	V1" x 1.97"	V1" x 1.97"	V1.25" x 2.36"	V1.375" x 2.76"	V1.375" x 2.76"		**9**	**H6A**
Gearbox size	**79**	**89**	**109**	**129**	**149**	**169**			
Solid shaft	V40 x 80	V50 x 100	V60 x 120	V70 x 140	V90 x 170	V110 x 210	-40 ... +60 °C	**1**	
	V35 x 70					V100 x 210		**2**	
	V50 x 100	V60 x 120						**3**	
Solid shaft without feather key[1]	VG40 x 80	VG50 x 100	VG60 x 120	VG70 x 140	VG90 x 170	-		**9**	**H1G**
Solid shaft, inches	V1.625" x 3.15"	V2.125" x 3.94"	V2.375" x 4.72"	V2.875" x 5.51"	V3.625" x 6.69"	V4.375" x 8.27"		**9**	**H6A**
Solid shaft VLplus		VM60 x 120	VM70 x 140	VM90 x 170	VM100 x 210	VM120 x 210		**9**	**H1C**
Solid shaft XLplus		VM60 x 120	VM70 x 140	VM90 x 170	VM100 x 210	VM120 x 210		**9**	**H1C**
Gearbox size	**189**								
Solid shaft	V120 x 210						-40 ... +60 °C	**1**	
Solid shaft, inches	V4.75" x 8.27"							**9**	**H6A**
Helical gearboxes E									
Gearbox size	**39**	**49**	**69**	**89**	**109**	**129**	**149**		
Solid shaft	V20 x 40	V25 x 50	V30 x 60	V40 x 80	V50 x 100	V60 x 120	V70 x 140	-40 ... +60 °C	**1**
Solid shaft, inches	V0.75" x 1.57"	V1" x 1.97"	V1.25" x 2.36"	V1.625" x 3.15"	V2.125" x 3.94"	V2.375" x 4.72"	V2.875" x 5.51"		**9**	**H6A**
Cooling tower gearboxes									
Gearbox size	**EKF89**	**EKF109**	**EKF129**	**EKF149**					
Solid shaft	VC40 x 80/160	VC50 x 100/180	VC60 x 120/200	VC70 x 140/220			-40 ... +60 °C	**9**	**H1B**
Gearbox size	**ZKF89**	**ZKF109**	**ZKF129**	**ZKF149**	**ZKF169**	**ZKF189**			
Solid shaft	VC50 x 100/180	VC60 x 120/200	VC70 x 140/220	VC90 x 170/250	VC110 x 210/330	VC120 x 210/330	-40 ... +60 °C	**9**	**H1B**
Solid shaft XLplus	VM60 x 120	VM70 x 140	VM90 x 170	VM100 x 210	VM120 x 210			**9**	**H1C**

[1] Can only be selected for foot- or flange-mounted version.

Selection and ordering data (continued)

Shaft design	Dimensions mm						Ambient temperature range	Article No. 8th data position	Article No. supplement
Parallel shaft gearboxes F									
Gearbox size	**29**	**39**	**49**	**69**	**79**	**89**			
Solid shaft	V25 x 50	V25 x 50	V30 x 60	V35 x 70	V40 x 80	V50 x 100	-40 ... +60 °C	**1**	
		V30 x 70	V40 x 80		V50 x 100			**3**	
Solid shaft without feather key	VG25 x 50	VG25 x 50	VG30 x 60	VG35 x 70	VG40 x 80	VG50 x 100		**9**	**H1G**
Solid shafts on both sides [1) 3)]		VD25 x 50	VD30 x 60	VD35 x 70	VD40 x 80	VD50 x 100		**9**	**H5A**
Solid shafts on both sides without key [1) 3)]			VDG30 x 60	VDG35 x 70	VDG40 x 80	VDG50 x 100		**9**	**H5B**
Solid shaft, inches	V1" x 1.97"	V1" x 1.97"	V1.25" x 2.36"	V1.375" x 2.76"	V1.625" x 3.15"	V2" x 3.94"		**9**	**H6A**
Solid shaft VLplus						VM60 x 120		**9**	**H1C**
Hollow shaft	H25	H30	H35	H40	H40	H50		**5**	
		H25	H30					**6**	
Hollow shaft, inches	H1"	H1.25"	H1.375"	H1.5"	H1.5"	H2"		**9**	**H7A**
Hollow shaft VLplus						HM50		**9**	**H2F**
Hollow shaft with shrink disk	HS25	HS30	HS35	HS40	HS40	HS50		**9**	**H3A**
Splined hollow shaft		N30	N35	N35	N45	N50		**9**	**H4A**
Gearbox size	**109**	**129**	**149**	**169**	**189**				
Solid shaft	V60 x 120	V70 x 140	V90 x 170	V110x120	V120x210		-40 ... +60 °C	**1**	
	V80 x 170	V90 x 170	V100 x 210	V120 x 210	V140 x 250			**3**	
Solid shafts without key [1)]	VG60 x 120							**9**	**H1G**
Solid shafts on both sides [1) 3)]	VD60 x 120	VD70 x 140	VD90 x 170	VD110 x 210	VD120x210			**9**	**H5A**
Solid shafts on both sides without key [1) 3)]	VDG60 x 120							**9**	**H5B**
Solid shaft, inches	V2.375" x 4.72	V2.875 x 5.51	V3.625" x 6.69"	V4.375"x8.27"	V4.75"x8.27"			**9**	**H6A**
Solid shaft VLplus	VM70 x 140	VM90 x 170	VM100 x 210	VM120 x 210				**9**	**H1C**
Hollow shaft	H60	H70	H90	H100	H120			**5**	
			H80	H110				**6**	
	H70							**7**	
Hollow shaft, inches	H2.375"	H2.75"	H3.625"	H4"	H4.5"			**9**	**H7A**
Hollow shaft VLplus	HM60	HM70	HM90	HM100				**9**	**H2F**
Hollow shaft with shrink disk	HS65	HS75	HS95	HS105	HS125			**9**	**H3A**
			HS90					**9**	**H3B**
	HS70							**9**	**H3C**
Splined hollow shaft	N65	N70	N85	N90	N110			**9**	**H4A**
Bevel gearboxes B									
Gearbox size	**19**	**29**	**39**	**49**					
Solid shaft	V20 x 40	V20 x 40	V30 x 60	V35 x 70			-40 ... +60 °C	**1**	
Solid shaft without feather key	VG20 x 40	VG20 x 40	VG30 x 60	VG35 x 70				**9**	**H1G**
Solid shaft, inches	V0.75" x 1.57"	V0.75" x 1.57"	V1" x 1.97"	V1.375" x 2.76"				**9**	**H6A**
Solid shaft, both ends [2)]	VD20 x 40	VD20 x 40	VD30 x 60	VD35 x 70				**9**	**H5A**
Hollow shaft	H20	H20	H30	H40				**5**	
		H25	H35	H35				**6**	
			H40					**7**	
Hollow shaft, inches	H0.75"	H0.75"	H1.25"	H1.5"				**9**	**H7A**
Hollow shaft with shrink disk	HS20	HS20	HS35	HS40				**9**	**H3A**

1) Can only be selected for foot- or flange-mounted version.
2) Can only be selected for the foot-mounted version.
3) For restricted motor sizes with shaft ends, use the DT Configurator for the exact design.

Selection and ordering data (continued)

Shaft design	Dimensions					Ambient temperature range	Article No. 8th data position	Article No. supplement
	mm							
Bevel gearboxes K								
Gearbox size	**39**	**49**	**69**	**79**	**89**			
Solid shaft	V25 x 50	V30 x 60	V35 x 70	V40 x 80	V50 x 100	-40 ... +60 °C	**1**	
	V35 x 70	V40 x 80		V50 x 100			**3**	
Solid shaft without feather key	VG25 x 50	VG30 x 60	VG35 x 70	VG40 x 80	VG50 x 100		**9**	**H1G**
Solid shaft, inches	V1" x 1.97"	V1.25" x 2.36"	V1.375" x 2.76"	V1.625" x 3.15"	V2" x 3.94"		**9**	**H6A**
Solid shaft, both ends [1]	VD25 x 50	VD30 x 60	VD35 x 70	VD40 x 80	VD50 x 100		**9**	**H5A**
Solid shafts on both sides without key [1]		VDG30 x 60	VDG35 x 70	VDG40 x 80	VDG50 x 100		**9**	**H5B**
Solid shaft VLplus					VM60 x 120		**9**	**H1C**
Hollow shaft	H30	H35	H40	H40	H50		**5**	
	H25	H30					**6**	
Hollow shaft, inches	H1.25"	H1.375"	H1.5"	H1.5"	H2"		**9**	**H7A**
Hollow shaft VLplus					HM50		**9**	**H2F**
Hollow shaft with shrink disk	HS30	HS35	HS40	HS40	HS50		**9**	**H3A**
Splined hollow shaft	N30	N35	N35	N45	N50		**9**	**H4A**
Gearbox size	**109**	**129**	**149**	**169**	**189**			
Solid shaft	V60 x 120	V70 x 140	V90 x 170	V110 x 210	V120 x 210	-40 ... +60 °C	**1**	
	V80 x 170	V90 x 170	V100 x 210	V120 x 210	V140 x 250		**3**	
Solid shaft, inches	V2.375" x 4.72"	V2.875" x 5.51"	V3.625" x 6.69"	V4.375" x 8.27"	V4.75" x 8.27"		**9**	**H6A**
Solid shaft, both ends [1]	VD60 x 120	VD70 x 140	VD90 x 170	VD110 x 210	VD120 x 210		**9**	**H5A**
Solid shaft VLplus	VM70 x 140	VM90 x 170	VM100 x 210	VM120 x 210			**9**	**H1C**
Hollow shaft	H60	H70	H90	H100	H120		**5**	
			H80				**6**	
	H70			H110			**7**	
Hollow shaft, inches	H2.375"	H2.75"	H3.625"	H4"	H4.5"		**9**	**H7A**
Hollow shaft VLplus	HM60	HM70	HM90	HM100			**9**	**H2F**
Hollow shaft with shrink disk	HS65	HS75	HS95	HS105	HS125		**9**	**H3A**
			HS90				**9**	**H3B**
	HS70						**9**	**H3C**
Splined hollow shaft	N65	N70	N85	N90	N110		**9**	**H4A**
Helical worm gearboxes C								
Gearbox size	**29**	**39**	**49**	**69**	**89**			
Solid shaft	V20 x 40	V25 x 50	V30 x 60	V35 x 70	V45 x 90	-40 ... +60 °C	**1**	
				V40 x 80 [2]	V50 x 100 [2]		**2**	
		V35 x 70 [2]	V40 x 80 [2]	V50 x 100 [2]	V70 x 140 [2]		**3**	
Solid shaft without feather key	VG20 x 40	VG25 x 50	VG30 x 60	VG35 x 70	VG45 x 90		**9**	**H1G**
Solid shaft, inches	V0.75" x 1.57"	V1" x 1.97"	V1.25" x 2.36"	V1.375" x 2.76"	V1.75" x 3.54"		**9**	**H6A**
Solid shaft, both ends [2]	VD20 x 40	VD25 x 50	VD30 x 60	VD35 x 70	VD45 x 90		**9**	**H5A**
Hollow shaft	H20	H25	H30	H40	H50		**5**	
		H30	H35	H45	H60		**6**	
Hollow shaft, inches	H0.75"	H1.25"	H1.375"	H1.5"	H2"		**9**	**H7A**
Hollow shaft with shrink disk	HS20	HS30	HS35	HS40	HS50		**9**	**H3A**
				HS50	HS60		**9**	**H3C**

[1] Can only be selected in conjunction with foot-mounted design
[2] Can only be selected for the foot-mounted version.

Hollow shaft cover

Sealing cap

The bore of the hollow shaft is sealed using a plastic sealing cap.

Gearboxes in size 39 and larger with hollow shaft and shrink disk have a rotating protective cover.

The dimensions of the rotating protective cover can be seen in the dimensional drawings provided in the gearbox chapters.

For safety reasons, stationary protection covers may be required.

The sealing cap is not approved for the ATEX design.

Protection cover

For sizes 19 to 189, a stationary protection cover for the hollow shaft or hollow shaft with shrink disk versions can be selected.

The dimensions of the protection cover can be seen in the separate dimensional drawing provided in the gearbox chapters.

The protection cover is approved for the ATEX design.

Order code:

Protection cover[1)]	**G60**

[1)] The protective cover can be selected for the bevel gearbox in the foot-mounted design for sizes 169 and 189 only.

Reinforced output shaft bearings

The gearboxes can be supplied with the standard design or with a reinforced output shaft bearing design. The reinforced bearings allow higher radial and combined forces (radial and axial) to be absorbed.

Design	Possible for													Order code
Helical gearboxes Z and D														
Gearbox size	**19**	**29**	**39**	**49**	**59**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**	
Radially reinforced output shaft bearings						✓	✓	✓	✓	✓	✓			**G20**
VLplus reinforced bearing system [2)]								✓	✓	✓	✓	✓		**G30**
XLplus reinforced bearing system [2)]								✓	✓	✓	✓	✓		**G31**
Cooling tower gearboxes														
Gearbox size	**EKF89**	**EKF109**	**EKF129**	**EKF149**	**ZKF89**	**ZKF109**	**ZKF129**	**ZKF149**	**ZKF169**	**ZKF189**				
Radially reinforced output shaft bearings					✓	✓	✓	✓						**G20**
XLplus reinforced bearing system [2)]					✓	✓	✓	✓	✓					**G31**
Parallel shaft gearboxes F														
Gearbox size	**29**	**39**	**49**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**			
Radially reinforced output shaft bearings			✓[1)]	✓	✓	✓	✓	✓	✓	✓	✓			**G20**
VLplus reinforced bearing system [2)]						✓	✓	✓	✓	✓				**G30**
Bevel gearboxes K														
Gearbox size	**39**	**49**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**				
Radially reinforced output shaft bearings		✓[1)]	✓	✓	✓	✓	✓	✓	✓	✓				**G20**
VLplus reinforced bearing system [2)]					✓	✓	✓	✓	✓					**G30**

[1)] Not possible for flange-mounted design with solid shaft (gearbox type FZF, FDF, KF)
[2)] VLplus and XLplus reinforced bearing systems can only be selected with flange-mounted design.

Accessories for VLplus reinforced bearing systems

Drywell

To offer increased protection against escaping gear oil in the event of a leak, the VLplus version can be selected with the Drywell option. Any oil that escapes in the event of a leak at the oil chamber is captured and conveyed to an indicator.

The indicator is an oil sight glass. As an option, the version with a capacitive sensor is available, which responds in the event of an oil leak.

A disconnector approved for use in ATEX applications must be provided for explosion-proof (ATEX) gearboxes. This must be installed outside the hazardous area.

The drywell system can be used at the following ambient temperatures:

- Drywell with oil sight glass -30 to +60 °C
- Drywell with oil sensor -25 to +45 °C

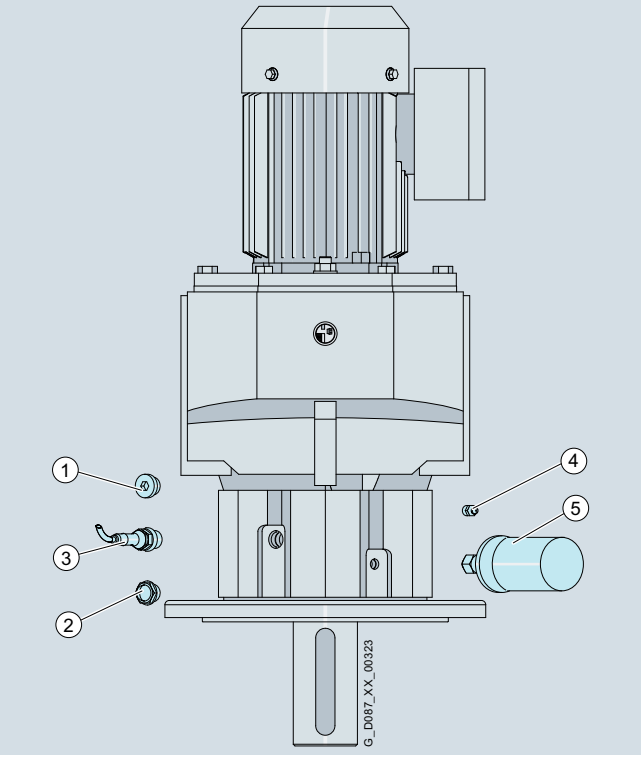


Fig. 8/13 VLplus version with Drywell / grease cartridge

① Screw plug (standard)
② Drywell with oil sight glass
③ Drywell with oil sensor
④ Grease nipple / regreasing device (standard)
⑤ Grease cartridge / automatic regreasing device

Drywell is available for the following mounting positions:

Gearbox type	Mounting position
Helical gearbox ZF/DF with VLplus	M4
Parallel shaft gearbox FZF/FDF with VLplus	M4
Bevel gearbox KF with VLplus	M5-A / M6-B

Order code:	
Drywell with oil sight glass	**G89**
Drywell with oil sensor	**G90**
24 V Drywell disconnector	**G88**

Grease cartridge

The output bearing of the flange must be lubricated regularly. A grease cartridge (automatic regreasing device) can be used for this with the VLplus version.
This ensures a continuous supply and prevents the bearing from being provided with too little or too much grease.

The grease cartridge can be used at ambient temperatures between -20 to +50 °C. For different ambient temperatures, please contact Siemens.

Order code:	
Grease cartridge	**G93**

Overview

Lubrication

The gearboxes are filled in the factory with a high-quality lubricant. Lubricants permitted for the various gearbox types and applications are listed in the lubricant table.

Other oils from various lubricant manufacturers that have been approved by Siemens AG can be found on the Internet in the Service and Support pages in the List of approved and recommended gear lubricants T 7300:

https://support.automation.siemens.com/WW/view/en/44231658

Note:

For ambient conditions with a high air humidity and salt-laden atmosphere, we recommend that only mineral or PAO oils are used.

Oil quantities

The lubricant quantity depends on the gearbox type, size and mounting position. The corresponding oil quantities are specified in the operating instructions and on the rating plate of the geared motor.

Sealing

The standard models of gearbox are supplied with high-quality radial shaft sealing rings with dust protection lips. This sealing design is reliable for a wide range of applications.

Special application areas and environmental conditions require special radial shaft sealing rings and materials, which are coordinated with the particular gearbox oil and environment. This coordinated sealing system results in a high reliability and availability of the plant.

When compared to standard sealing systems, the maintenance intervals can be extended. This therefore reduces maintenance costs.

Sealing system

Output shaft sealing	Description	Ambient condition	Order code
Normal environmental stress			
Standard seal	High-quality NBR radial shaft sealing ring with dust protection lip.	Environment with low dust and pollution levels with low moisture.	-
Longer service life			
Seal with longer service life	The radial shaft sealing ring with protective lip is designed with an additional seal on the internal gearbox side. The sealing system has a high degree of reliability due to its resistance to impurities in the oil.	Environment with low dust and pollution levels with low moisture.	**G23**
Longer service life and increased environmental stress			
Seal for increased environmental stress	This seal is equipped with an additional fiber disk. In addition to the longer service life, it also provides increased protection against higher environmental stress as a result of dust and dirt deposits. As a consequence, the sealing system has a high degree of reliability. For additional environmental stress, e.g. water jets or significant levels of pollution as a result of production materials, please contact your local Siemens office.	Environments with increased pollution and dust levels as well as low moisture. Typical applications: Production areas with increased pollution and dust, such as wood chips, dusts or granulate as well as occasional spray water.	**G24**
High temperature-resistant			
Seal for high temperatures	High-quality FKM radial shaft sealing ring with dust protection lip.	Environment with low dust and pollution levels with low moisture.	**G25**

Roller bearing greases for gearboxes and motors

The roller bearings of gearboxes and motors are lubricated in the factory with a roller bearing grease that is coordinated with the selected application area. The quantity of grease between the rolling elements and the space in front of the bearing depends on the operating conditions and the gearbox mounting position. For operation in the selected application areas, it is not necessary to relubricate the roller bearings.

We recommend that the grease filling of the roller bearings is also changed when the oil or shaft sealing rings are replaced.

Other greases supplied by different lubricant manufacturers that have been approved by Siemens AG are specified in the List of approved and recommended gear lubricants T 7300.

Selection

Gearboxes can be used for different applications. The following lubricants and seals can be selected to ensure that a gearbox is optimally designed for a specific application.

Note:

Note the ambient conditions specified in chapter "General options" on page 10/2.

Selection of lubricant				**Selection of seal**		
				Environmental stress		
				Standard	Standard	Increased
Area of application	**Permissible ambient temperature of oil**	**Oil type**		**Service life**		
				Standard	Longer	Longer
	°C	Designation acc. to DIN 51502	**Order code**	**-**	**G23**	**G24**
Helical gearboxes Z, D, and E, cooling tower gearboxes EKF and ZKF, parallel shaft gearboxes F, and bevel gearboxes K						
Standard	-15 … +40	CLP ISO VG220	**K06**	✓	✓	✓
	-35 … +40	CLP ISO PAO VG220	**K12**	✓	✓	✓
	-40 … +10	CLP ISO PAO VG68	**K13**	✓	✓	✓
	-25 … +80	CLP ISO PG VG460	**K08**	✓	✓	✓
	-25 … +50	CLP ISO PG VG220	**K07**	✓	✓	✓
Foodstuff area	-25 … +40	CLP ISO H1 VG460	**K11**	✓	✓	-
	-30 … +10	CLP ISO H1 VG100	**K14**	✓	✓	-
Biodegradable oil	-20 … +40	CLP ISO E VG220	**K10**	✓	✓	-
Bevel gearboxes B						
Standard	-25 … +40	CLP ISO PG VG220	**K07**	✓	✓[1)]	✓[1)]
	-35 … +40	CLP ISO PAO VG220	**K12**	✓	✓[1)]	✓[1)]
	-25 … +40	CLP ISO PAO VG460	**K16**	✓	✓[1)]	✓[1)]
	-40 … +10	CLP ISO PAO VG68	**K13**	✓	✓[1)]	✓[1)]
	-25 … +80	CLP ISO PG VG460	**K08**	✓	✓[1)]	✓[1)]
Foodstuff area	-25 … +40	CLP ISO H1 VG460	**K11**	✓	✓[1)]	-
	-30 … +10	CLP ISO H1 VG100	**K14**	✓	✓[1)]	-
Helical worm gearboxes C						
Standard	-25 … +40	CLP ISO PG VG220	**K07**	✓	✓	✓
	-25 … +60	CLP ISO PG VG460	**K08**	✓	✓	✓
	-35 … +40	CLP ISO PAO VG220	**K12**	✓	✓	✓
	-25 … +40	CLP ISO PAO VG460	**K16**	✓	✓	✓
	-40 … +10	CLP ISO PAO VG68	**K13**	✓	✓	✓
Foodstuff area	-25 … +40	CLP ISO H1 VG460	**K11**	✓	✓	-
	-30 … +10	CLP ISO H1 VG100	**K14**	✓	✓	-

[1)] Not possible with size B19

CLP = mineral oil
CLP PG = polyglycol oil
E = ester oil, organic oil (bio oil / risk of water pollution, class WGK1)
PAO = poly-alpha-olefin oil
CLP H1 = physiologically safe oil (USDA-H1 approval)

Overview

Gearboxes from size 39 for standard mounting positions are supplied as standard with pressure breather valve, oil level control and drain screw.

Gearbox sizes 19 and 29 are supplied ready for operation, lubricated for life, and can be operated in mounting positions M1, M3, M5, and M6 without requiring a pressure breather valve. For mounting positions M2 and M4, they are equipped with a pressure breather valve.

Possible venting and oil level control options

Design	Possible for													Order code	Technical information → page
Helical gearboxes Z and D															
Size	**19**	**29**	**39**	**49**	**59**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**		
Lubricated for life	✓	✓													
Pressure breather valve			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G45**	page 8/51
Pressure breather valve, stainless steel			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G49**	page 8/51
Oil expansion unit			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G47**	page 8/52
Oil sight glass with reflector				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G34**	page 8/54
Magnetic oil drain screw			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G53**	page 8/54
Oil drain valve, straight			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G54**	page 8/54
Oil drain valve, angled			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G55**	page 8/54
Oil level sensor								✓	✓	✓	✓	✓	✓	**G37**	page 8/55
PT100 electrical temperature monitoring				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G69**	page 8/55
Helical gearboxes E															
Size	**39**		**49**		**69**		**89**		**109**		**129**		**149**		
Pressure breather valve	✓		✓		✓		✓		✓		✓		✓	**G45**	page 8/51
Pressure breather valve, stainless steel	✓		✓		✓		✓		✓		✓		✓	**G49**	page 8/51
Oil expansion unit	✓		✓		✓		✓		✓		✓		✓	**G47**	page 8/52
Oil sight glass with reflector	✓		✓		✓		✓		✓		✓		✓	**G34**	page 8/54
Magnetic oil drain screw	✓		✓		✓		✓		✓		✓		✓	**G53**	page 8/54
Oil drain valve, straight	✓		✓		✓		✓		✓		✓		✓	**G54**	page 8/54
Oil drain valve, angled	✓		✓		✓		✓		✓		✓		✓	**G55**	page 8/54
Oil level sensor							✓		✓		✓		✓	**G37**	page 8/55
PT100 electrical temperature monitoring			✓		✓		✓		✓		✓		✓	**G69**	page 8/55
Cooling tower gearboxes															
Size	**EKF89**		**EKF109**		**EKF129**		**EKF149**		**ZKF89**		**ZKF109**		**ZKF129**		**ZKF149**		**ZKF169**		**ZKF189**		
Pressure breather valve	✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	**G45**	page 8/51
Pressure breather valve, stainless steel	✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	**G49**	page 8/51
Oil expansion unit	✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	**G47**	page 8/52
Oil sight glass with reflector	✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	**G34**	page 8/54
Magnetic oil drain screw	✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	**G53**	page 8/54
Oil drain valve, straight	✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	**G54**	page 8/54
Oil drain valve, angled	✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	**G55**	page 8/54
PT100 electrical temperature monitoring	✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	**G69**	page 8/55

Overview (continued)

Possible venting and oil level control options

Design	Possible for											Order code	Technical information → page
Parallel shaft gearboxes F													
Size	**29**	**39**	**49**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**		
Lubricated for life	✓												
Pressure breather valve		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G45**	page 8/51
Pressure breather valve, stainless steel		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G49**	page 8/51
Oil expansion unit		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G47**	page 8/52
Oil sight glass with reflector			✓	✓	✓	✓	✓	✓	✓	✓	✓	**G34**	page 8/54
Magnetic oil drain screw		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G53**	page 8/54
Oil drain valve, straight		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G54**	page 8/54
Oil drain valve, angled		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**G55**	page 8/54
Oil level sensor						✓	✓	✓	✓	✓	✓	**G37**	page 8/55
PT100 electrical temperature monitoring			✓	✓	✓	✓	✓	✓	✓	✓	✓	**G69**	page 8/55
Bevel gearboxes B													
Size	**19**			**29**			**39**			**49**			
Lubricated for life	✓			✓									
Pressure breather valve	✓			✓			✓			✓		**G45**	page 8/51
Pressure breather valve, stainless steel	✓			✓			✓			✓		**G49**	page 8/51
Oil expansion unit				✓			✓			✓		**G47**	page 8/52
Oil sight glass with reflector										✓		**G34**	page 8/54
Magnetic oil drain screw							✓			✓		**G53**	page 8/54
Oil drain valve, straight							✓			✓		**G54**	page 8/54
Oil drain valve, angled							✓			✓		**G55**	page 8/54
PT100 electrical temperature monitoring										✓		**G69**	page 8/55
Bevel gearboxes K													
Size	**39**	**49**	**69**	**79**	**89**	**109**	**129**	**149**	**169**	**189**			
Pressure breather valve	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		**G45**	page 8/51
Pressure breather valve, stainless steel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		**G49**	page 8/51
Oil expansion unit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		**G47**	page 8/52
Oil sight glass with reflector		✓	✓	✓	✓	✓	✓	✓	✓	✓		**G34**	page 8/54
Magnetic oil drain screw	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		**G53**	page 8/54
Oil drain valve, straight	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		**G54**	page 8/54
Oil drain valve, angled	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		**G55**	page 8/54
Oil level sensor					✓	✓	✓	✓	✓	✓		**G37**	page 8/55
PT100 electrical temperature monitoring		✓	✓	✓	✓	✓	✓	✓	✓	✓		**G69**	page 8/55
Helical worm gearboxes C													
Size	**29**		**39**		**49**		**69**		**89**				
Lubricated for life	✓[1)]												
Pressure breather valve	✓		✓		✓		✓		✓			**G45**	page 8/51
Pressure breather valve, stainless steel	✓		✓		✓		✓		✓			**G49**	page 8/51
Oil expansion unit			✓		✓		✓		✓			**G47**	page 8/52
Oil sight glass with reflector					✓		✓		✓			**G34**	page 8/54
Magnetic oil drain screw			✓		✓		✓		✓			**G53**	page 8/54
Oil drain valve, straight			✓		✓		✓		✓			**G54**	page 8/54
Oil drain valve, angled			✓		✓		✓		✓			**G55**	page 8/54
PT100 electrical temperature monitoring					✓		✓		✓			**G69**	page 8/55

[1)] Helical worm gearboxes for all mounting positions are equipped with a pressure breather valve.

Pressure breather valve

Gearboxes from size 39 are supplied with an installed pressure breather valve; this is suitable for both indoors and outdoors use.

Gearbox sizes 19 and 29 can be operated in mounting positions M1, M3, M5, and M6 without requiring a pressure breather valve. For mounting positions M2 and M4, they are equipped with a pressure breather valve.

A stainless-steel version of the pressure breather valve is also available for use in special ambient conditions.

Order code:

Pressure breather valve	**G45**
Pressure breather valve, stainless steel	**G49**

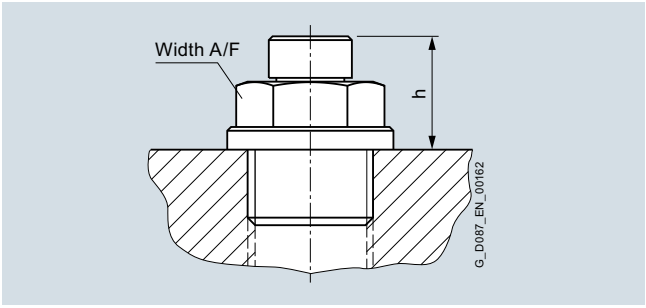


Fig. 8/14 Pressure breather valve

Technical specifications

Size	Width across flats	Thread	Dimension h
	Width A/F		mm
Helical gearboxes Z and D			
19, 29	12	G 1/8 A	15
39	12	G 1/8 A	15
49 … 79	13	G 1/4 A	15
89 ... 129	17	G 3/8 A	15
149 ... 189	24	G 3/4 A	18
Helical gearboxes E			
39	12	G 1/8 A	15
49 … 69	13	G 1/4 A	15
89 ... 129	17	G 3/8 A	15
149	24	G 3/4 A	18
Cooling tower gearboxes ZKF			
89 ... 129	17	G 3/8 A	15
149 ... 189	24	G 3/4 A	18
Cooling tower gearboxes EKF			
89 ... 129	17	G 3/8 A	15
149	24	G 3/4 A	18
Parallel shaft gearboxes F			
29	12	G 1/8 A	15
39	12	G 1/8 A	15
49 … 79	13	G 1/4 A	15
89 ... 129	17	G 3/8 A	15
149 ... 189	24	G 3/4 A	18
Bevel gearboxes B			
19, 29	12	G 1/8 A	15
39	12	G 1/8 A	15
49	13	G 1/4 A	15
Bevel gearboxes K			
39	12	G 1/8 A	15
49 … 89	13	G 1/4 A	15
109 ... 129	17	G 3/8 A	15
149 ... 189	24	G 3/4 A	18
Helical worm gearboxes C			
29	12	G 1/8 A	15
39	12	G 1/8 A	15
49 … 89	13	G 1/4 A	15

Oil expansion unit

The oil expansion unit increases the expansion space for the lubricant. For certain types of construction and at high operating temperatures, this avoids that lubricant escapes.

The oil expansion unit is supplied as a mounting kit, and can be mounted onto the geared motor vertically or at an angle.

The oil expansion unit can be used at the following ambient temperatures:

- Oil expansion unit type 1 -40 to +60 °C
- Oil expansion unit type 2 -25 to +60 °C

For different ambient temperatures, please contact Siemens.

Order code:

Oil expansion unit	**G47**

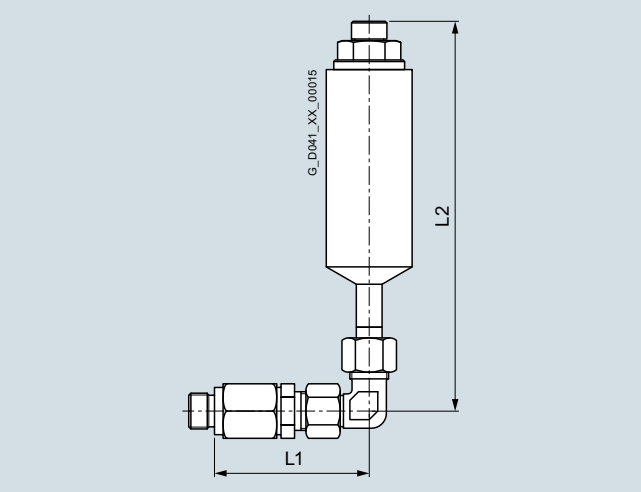


Fig. 8/15 Oil expansion unit type 1

Technical specifications

Size	Motor frame size	Width across flats	Thread	Dimension L1	Dimension L2
		Width A/F		mm	mm
Helical gearboxes Z and D					
39	63 ... 90	17/19	G1/8A	49	194
	100 ... 112			71	172
49 ... 69	63 ... 90	19/19	G1/4A	49	194
	100 ... 112			49	194
	132			71	172
79	80 ... 90	19/19	G1/4A	49	194
	100 ... 132			71	172
	160			99	194
89	100 ... 132	22/19	G3/8A	49	194
	160			71	172
	180			71	172
Helical gearboxes E					
39	63 ... 90	17/19	G1/8A	49	194
	100 ... 112			71	172
49	63 ... 90	19/19	G1/4A	49	194
	100 ... 112			49	194
	132			71	172
69	71 ... 90	19/19	G1/4A	49	194
	100 ... 112			71	172
	132 ... 160			99	194
89	100 ... 132	22/19	G3/8A	49	194
	160			71	172
	180			71	172

Technical specifications

Size	Motor frame size	Width across flats	Thread	Dimension L1	Dimension L2
		Width A/F		mm	mm
Cooling tower gearboxes ZKF					
89	100 ... 132	22/19	G3/8A	49	194
	160			71	172
	180			71	172
Cooling tower gearboxes EKF					
89	100 ... 132	22/19	G3/8A	49	194
	160			71	172
	180			71	172
Parallel shaft gearboxes F					
39	63 ... 90	17/19	G1/8A	49	194
	100 ... 112			71	172
49 ... 69	63 ... 90	19/19	G1/4A	49	194
	100 ... 112			49	194
	132			71	172
79	80 ... 90	19/19	G1/4A	49	194
	100 ... 132			71	172
	160			99	194
89	100 ... 132	22/19	G3/8A	49	194
	160			71	172
	180			71	172
Bevel gearboxes B					
29	63 ... 90	17/19	G1/8A	49	194
	100			71	172
39	63 ... 90	17/19	G1/8A	49	194
	100 ... 112			71	172
49	63 ... 90	19/19	G1/4A	49	194
	100 ... 112			49	194
	132			71	172
Bevel gearboxes K					
39	63 ... 90	17/19	G1/8A	49	194
	100 ... 112			71	172
49	63 ... 90	19/19	G1/4A	49	194
	100 ... 112			49	194
69	71 ... 90	19/19	G1/4A	49	194
	100 ... 112			49	194
	132			71	172
79	71 ... 90	19/19	G1/4A	49	194
	100 ... 132			71	172
89	80 ... 90	19/19	G1/4A	49	194
	100 ... 132			71	172
	160			99	194
109	100 ... 132	22/19	G3/8A	49	194
	160			71	172
	180			71	172
Helical worm gearboxes C					
39	63 ... 90	17/19	G1/8A	49	194
	100			71	172
49 ... 69	63 ... 90	19/19	G1/4A	49	194
	100 ... 112			49	194
	132			71	172
89	80 ... 90	19/19	G1/4A	49	194
	100 ... 132			49	194
	132			71	172

Oil expansion unit (continued)

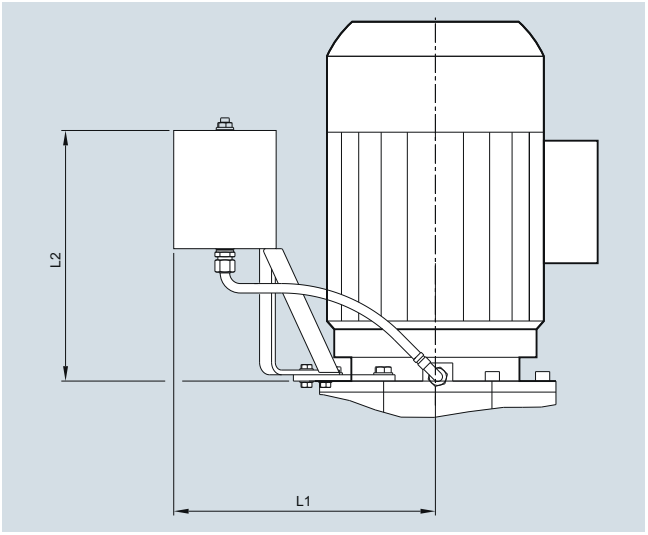


Fig. 8/16 Oil expansion unit type 2

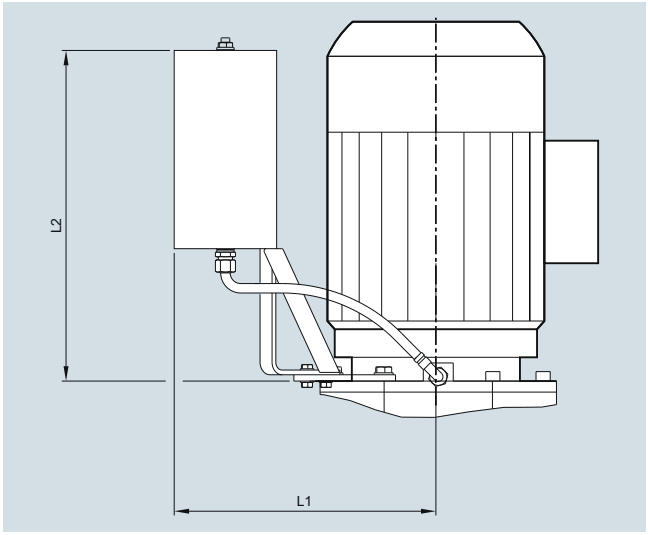


Fig. 8/17 Oil expansion unit type 3

Technical specifications

Size	Motor frame size	Type	Thread	Dimension L1	Dimension L2
				mm	mm
Helical gearboxes Z and D					
109	90 ... 225	2	G3/8A	406	334
129	90 ... 250	2	G3/8A	442	334
149	100 ... 250	3	G3/4A	465	505
169	112 ... 250	3	G3/4A	493	505
189	112 ... 250	3	G3/4A	493	505
Helical gearboxes E					
109	90 ... 225	2	G3/8A	406	334
129	90 ... 250	2	G3/8A	442	334
149	100 ... 250	3	G3/4A	465	505
Cooling tower gearboxes ZKF					
109	90 ... 225	2	G3/8A	406	334
129	90 ... 250	2	G3/8A	442	334
149	100 ... 250	3	G3/4A	465	505
169	112 ... 250	3	G3/4A	493	505
189	112 ... 250	3	G3/4A	493	505
Cooling tower gearboxes EKF					
109	90 ... 225	2	G3/8A	406	334
129	90 ... 250	2	G3/8A	442	334
149	100 ... 250	3	G3/4A	465	505
Parallel shaft gearboxes F					
109	90 ... 225	2	G3/8A	406	334
129	90 ... 250	2	G3/8A	442	334
149	100 ... 250	3	G3/4A	465	505
169	112 ... 250	3	G3/4A	493	505
189	112 ... 250	3	G3/4A	493	505
Bevel gearboxes K					
129	90 ... 225	2	G3/8A	406	334
149	90 ... 250	2	G3/4A (G3/8A)	442	334
169	100 ... 250	3	G3/4A	465	505
189	112 ... 250	3	G3/4A	493	505

Value in parenthesis applies to mounting position M4.

Oil level control

Oil level checking screw

For sizes 49 and higher, the oil level is checked using the oil level checking screw.

The oil sight glass is available with a reflector to facilitate visual monitoring.

Order code:

Oil sight glass with reflector	**G34**

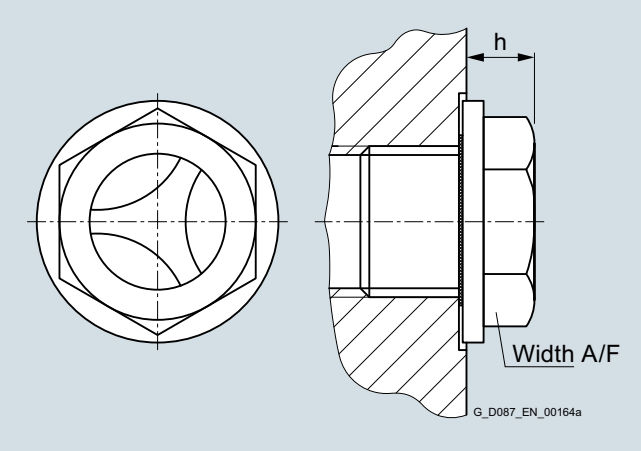


Fig. 8/18 Oil sight glass

Technical specifications

Size	Width across flats	Thread	Dimension h
	Width A/F		mm
Helical gearboxes Z and D			
49 … 79	16	G 1/4 A	10
89 ... 129	19	G 3/8 A	9
149 ... 189	24	G 3/4 A	10
Helical gearboxes E			
49 … 69	16	G 1/4 A	10
89 129	19	G 3/8 A	9
149	24	G 3/4 A	10
Cooling tower gearboxes ZKF			
89 ... 129	19	G 3/8 A	9
149 ... 189	24	G 3/4 A	10
Cooling tower gearboxes EKF			
89 129	19	G 3/8 A	9
149	24	G 3/4 A	10
Parallel shaft gearboxes F			
49 … 79	16	G 1/4 A	10
89 ... 129	19	G 3/8 A	9
149 ... 189	24	G 3/4 A	10
Bevel gearboxes B			
49	16	G 1/4 A	10
Bevel gearboxes K			
49 … 89	16	G 1/4 A	10
109 ... 129	19	G 3/8 A	9
149 ... 189	24	G 3/4 A	10
Helical worm gearboxes C			
49 … 89	16	G 1/4 A	10

Oil drain

Magnetic oil drain screw

For gearboxes from size 39, a magnetic oil drain screw is available that is inserted in the oil drain hole. This serves to collect any metal particles in the gearbox oil.

Order code:

Magnetic oil drain screw	**G53**

Oil drain valve

For gearboxes from size 39, an oil drain valve is available in either a straight or angled design.

The oil drain valve is supplied complete with screw plug as a kit.

Order code:

Oil drain valve, straight	**G54**
Oil drain valve, angled	**G55**

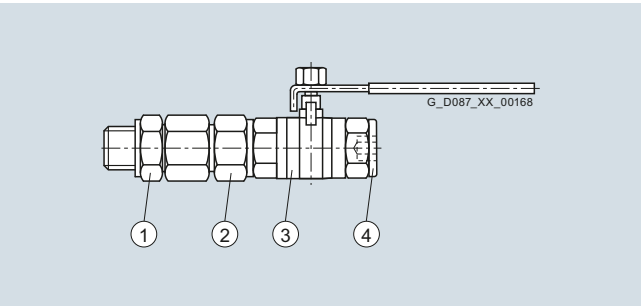


Fig. 8/19 Oil drain valve, straight

① Oil drain valve, straight
② Screw gland
③ Screw gland
④ Screw plug

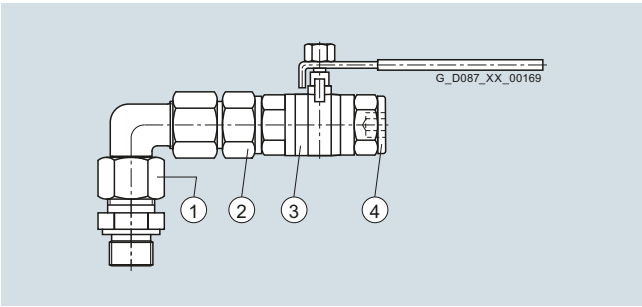


Fig. 8/20 Oil drain valve, angled

① Oil drain valve, angled
② Screw gland
③ Screw gland
④ Screw plug

PT100 electrical oil temperature monitoring

From size 49, the PT100 electrical oil temperature monitoring function is available for monitoring the oil temperature in the gearbox.

The Pt100 temperature sensor can be used both in hazardous and non-hazardous areas. In hazardous areas, the sensor may only be operated in conjunction with a disconnector (temperature transmitter).

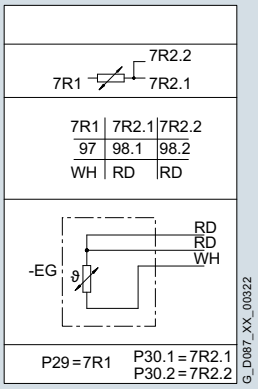


Fig. 8/21 Sensor circuit diagram for PT100 electrical oil temperature monitoring

Electrical oil level monitoring system

If the area in which the gearbox is installed is difficult to access, the gearbox oil level will need to be monitored remotely by means of a capacitive sensor.

The capacitive sensor is supplied with a 2 m long cable. The oil level can be monitored only when the gearbox is stationary (i.e. monitoring prior to startup).

The oil level sensor can be used in the following ambient temperatures:

- Oil level sensor -25 to +45 °C

For different ambient temperatures, please contact Siemens.

Order code:

Oil level sensor	**G37**

The electrical oil level monitoring system is available for the following gearboxes

Size	Mounting position					
	M1	M2	M3	M4	M5	M6
Helical gearboxes Z						
89... 169	✓	✓	✓	✓	✓	✓
189		✓			✓	✓
Helical gearboxes D						
89	✓	✓	✓	✓	✓	
109 ... 169	✓	✓	✓	✓	✓	✓
189		✓			✓	✓
Helical gearboxes E						
89	✓	✓	✓	✓		
109	✓	✓		✓		
129 149	✓	✓	✓	✓	✓	✓
Parallel shaft gearboxes F						
89 ... 189	✓	✓	✓	✓	✓	✓
Bevel gearboxes K						
109 ... 189	✓	✓	✓	✓	✓	✓

Reduced-backlash version

Gearboxes with reduced backlash are required to perform high-precision positioning tasks and to achieve a high level of control quality. A minimal torsional backlash also has a favorable effect on torque spikes during startup and on load switching in the drive train. With this version, all machine elements in the gearbox that are in the power flow are designed with reduced backlash. As a result, this version also has the option "Shrink-glued output gearwheel".

To ensure that the entire driven machine can be designed with minimum possible backlash, it is advisable to select the solution with integral motor mounting (without adapter), output shafts with shrink disk connection or with smooth shafts (without feather key). In this case, only backlash-free power transmission elements should be used.

The specified torsional backlash in minutes of the angle ['] is based on the maximum rotation angle of the output shaft (no load, max. 1 % of rated output torque) with stationary input shaft.

For the exact values, refer to the torque tables. If no values are specified in the tables, this means that a reduced-backlash version is not available for the specific version.

The dimensions of the reduced-backlash gearboxes are identical to those of the standard versions.

Order code:	
Reduced-backlash version	**G99**

The following gearboxes are available in reduced-backlash versions

Gearbox	**Size**													
	09	19	29	39	49	59	69	79	89	109	129	149	169	189
Helical gearboxes Z and D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Helical gearboxes E	On request													
Parallel shaft gearboxes F			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Bevel gearboxes B		✓	✓	✓	✓									
Bevel gearboxes K				✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Helical worm gearboxes C	Not possible													



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Voltages and frequencies

Duty types

Line operation

The three-phase AC motors are designed for duty type S1 according to IEC 60034 (continuous duty).

Order codes for line operation:

Duty type S1	**-**
Duty type S3 - 75 %	**P90**

Inverter operation

For inverter operation (**P91**), the motors with the applicable voltages are also stamped with duty type Inv. Duty.

Depending on the selected voltage, the technical specifications for the operating points at 50 Hz, 60 Hz, and 87 Hz are stated on the rating plate.

With IE2 motors rated for 0.75 kW and above with duty type S1/Inv. Duty (**P91**) that fall within the scope of the Eco-design Directive (EC) No. 640/2009, the notice "IE2 Inv. Duty only" is also attached to the motor.



Order codes for inverter operation:

Duty type S1//Inv. Duty	**P91**

Standard voltages

Three-phase AC motors are available for rated voltages ranging from 200 up to 690 V.

Motor frame sizes 63 up to 112 are generally supplied for the voltage range 220/380 V at 50 Hz.

For motor frame sizes from 132 and above, the standard version is 380/660 V at 50 Hz.

If customer need special voltage, please confirm with Siemens.

Frequency	Voltages	Power	Possible specifications	Power Classification		Article No.	Article No. supplement
Hz	V		China	≤3kW	≥4kW	13th data position	
Voltages for 50/60 Hz							
50 Hz	220 V Δ/380 V Y	P_{50}	✓	✓		**3**	
60 Hz	440 V Y	P_{60}					
50 Hz	220 V Δ/380 V Y	P_{50}	✓		✓	**9**	**N2C**
60 Hz	440 V Y	P_{60}					
50 Hz	380 V Δ/660 V Y	P_{50}	✓		✓	**3**	
60 Hz	440 V Δ	P_{60}					
50 Hz	380 V Δ/660 V Y	P_{50}	✓	✓	-	**9**	**N2D**
60 Hz	440 V Δ	P_{60}					

Temperature sensor

The temperature sensor is a **positive temperature coefficient** (PTC) thermistor which offers comprehensive protection against thermal motor overload. The temperature of the winding can be accurately monitored thanks to its low thermal capacity and the excellent heat contact with the winding. The PTC thermistor exhibits a sudden change in resistance when a rated response temperature is reached.

A tripping unit is used to evaluate the change in resistance and to open auxiliary circuits via auxiliary contacts.

The switching hysteresis of the PTC thermistor is low, which facilitates fast restarting of the drive. Motors with this type of protection are recommended for heavy duty starting, intermittent duty, extreme changes in load, high ambient temperatures, or fluctuating supply systems.

In order to prevent serious damage by impulse voltage peaks to the sensor and the downstream evaluation electronic circuitry which can occur in inverter operation as a result of the close contact between PTC thermistor and winding, the connecting cables and the PTC thermistor have reinforced insulation designed to provide "protective separation".

Order code:

PTC thermistor for disconnection	**M10**
PTC thermistor for warning and disconnection	**M11**

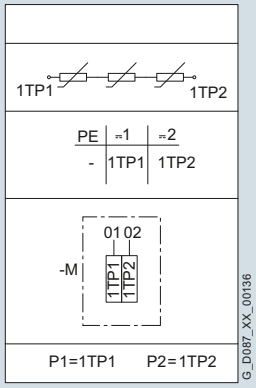


Fig. 9/1 Connection circuit diagram

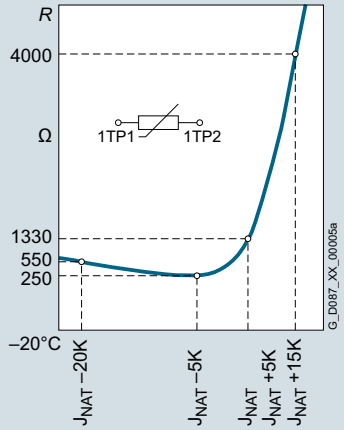


Fig. 9/2 Temperature sensor characteristic

Temperature switch

The temperature switch is a **winding thermostat** (NC contact) and is suitable as a protection device for slowly increasing motor temperatures. When the rated response temperature is reached, it can open an auxiliary circuit. When the motor temperature decreases, the winding thermostat closes again as soon as the temperature falls significantly below the rated response temperature.

When the motor current rises quickly (e.g. with a locked rotor), these switches are not suitable due to their large thermal time constants.

The temperature switch provides safety isolation in accordance with EN 61800-5-1 up to max. 500 V.

Order code:

Winding thermostat for disconnection	**M12**
Winding thermostat for warning and disconnection	**M13**

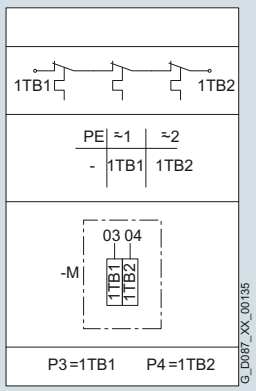


Fig. 9/3 Connection circuit diagram

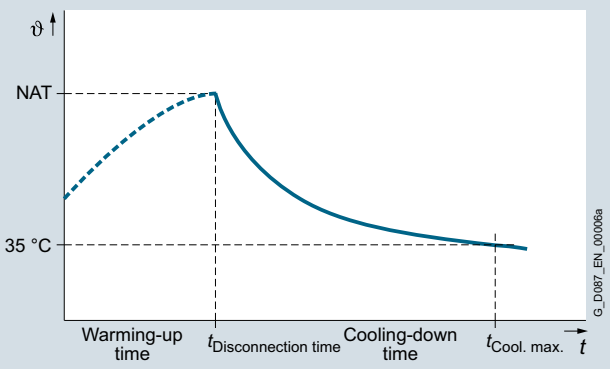


Fig. 9/4 Temperature switch characteristic

KTY 84-130 temperature sensor

This sensor is a PTC thermistor that changes its resistance depending on the temperature in accordance with a defined curve. The KTY 84-130 temperature sensor can be used for monitoring the motor temperature in inverter operation.

Some inverters determine the motor temperature using the resistance of the temperature sensor. They can be set to a required temperature for warning and disconnection.

In order to prevent serious damage by impulse voltage peaks to the sensor and the downstream evaluation electronic circuitry which can occur in inverter operation as a result of the close contact between temperature sensor and winding, the connecting cables and the temperature sensor have reinforced insulation designed to provide "protective separation".

Order code:

KTY 84-130 temperature sensor	**M16**

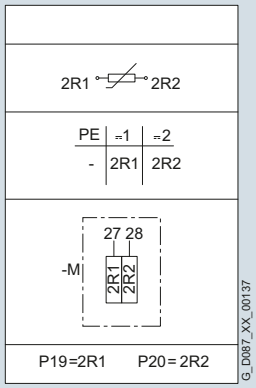


Fig. 9/5 Connection circuit diagram

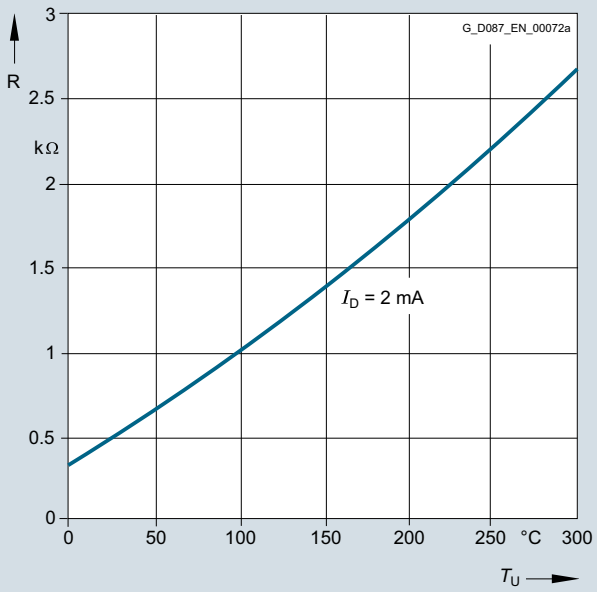


Fig. 9/6 Temperature sensor characteristic

1× Pt100 resistance thermometer

This sensor is a PTC thermistor and at 0 °C has a resistance of 100 Ω. Its resistance changes almost linearly in the range between 0 and 100 °C. Changes in temperature are transferred to an evaluation device in the form of resistance changes.

The evaluation device is not included in the scope of supply.

In order to prevent serious damage by impulse voltage peaks to the sensor and the downstream evaluation electronic circuitry which can occur in inverter operation as a result of the close contact between resistance thermometer and winding, the connecting cables and the resistance thermometer have reinforced insulation designed to provide "protective separation".

Order code:

1x Pt100 resistance thermometer	**M19**

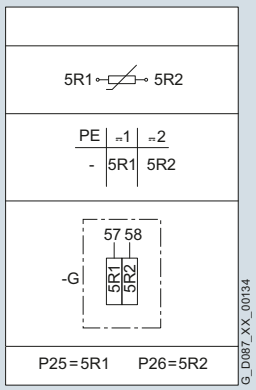


Fig. 9/7 Connection circuit diagram

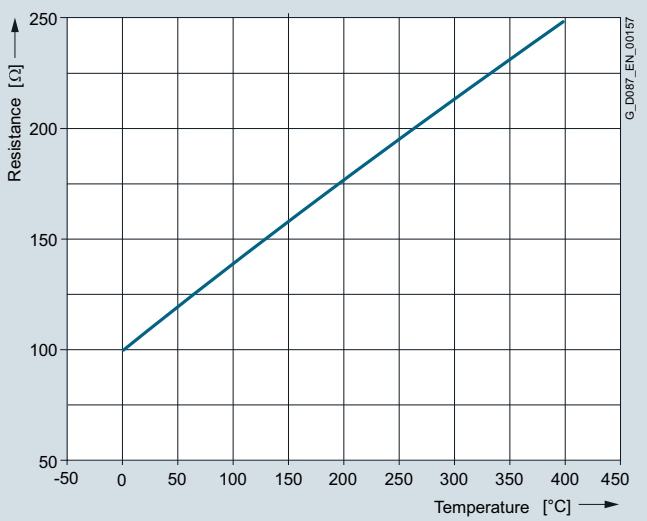


Fig. 9/8 Pt100 resistance thermometer characteristic

Pt1000 resistance thermometer

The resistance thermometer has a chip for a temperature sensor, the resistance of which changes in relation to temperature according to a series of reproducible basic values. The changes in resistance are transferred as changes in current. At 0 °C, the measurement resistances are adjusted to 1000 Ω for the Pt1000, and correspond to the accuracy class B (i.e. the relationship between resistance and temperature). The limit deviation is ±0.3 °C, and the admissible deviations are defined in EN 60751.

The Pt1000 resistance thermometer will gradually replace the KTY84-130 temperature sensors available today.

Similar to the method of operation of the Pt100, the relationship between the temperature and the electrical resistance of conductors is utilized in the Pt1000 to measure the temperature, just like with the additional resistance thermometers described above.

Pure metals undergo larger changes in resistance than alloys and have relatively constant temperature coefficients.

Temperatures for alarm and tripping can be set as required when using converters from Siemens that determine the motor temperature in accordance with the measuring principle described above. With these devices, the measured signal is evaluated directly in the converter. For line operation, the 3RS10 temperature monitoring relay, which forms part of the protection equipment, can be ordered separately. For further details, see Catalog IC 10, Article No.: E86060-K1010-A101-A8-7600.

Order code:

Pt1000 resistance thermometer	**M17**

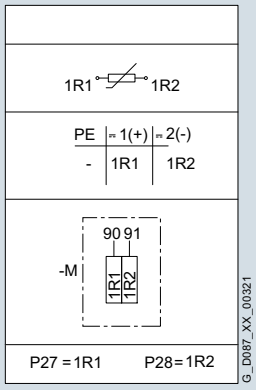


Fig. 9/9 Connection circuit diagram

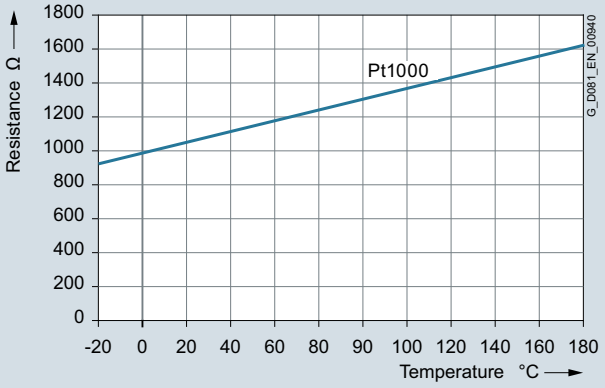


Fig. 9/10 Pt1000 resistance thermometer characteristic

Selection and ordering data

Motor protection	Motor frame size												Order code
	63	71	80	90	100	112	132	160	180	200	225	250	
PTC thermistor disconnection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**M10**
PTC thermistor, warning and disconnection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**M11**
Winding thermostat, disconnection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**M12**
Winding thermostat, warning and disconnection [1]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**M13**
KTY 84-130 temperature sensor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**M16**
1× Pt100 resistance thermometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**M19**
Pt1000 resistance thermometer			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**M17**

[1] Not possible for inverter operation

Protective devices

Number of windings	Example	Function	Number of temperature-dependent protective devices	Number of terminals
1	Motors with Single speed motor	Disconnection	3 or 1 (motor frame sizes 80 and 90)	2
		Warning and disconnection	6	3 (motor frame size 71 to 200)
				4 (motor frame size 225 to 250)

Anti-condensation heating

Motors whose windings are at risk of condensation due to the climatic conditions, e.g. inactive motors in humid atmospheres or motors that are subjected to widely fluctuating temperatures, can be equipped with anti-condensation heaters. Anti-condensation heating must not be switched on during operation.

Instead of an anti-condensation heater, another possibility is to connect a voltage that is approximately 4 to 10 % of the rated motor voltage to stator terminals U1 and V1; 20 to 30 % of rated motor current is sufficient to heat the motor.

Order code:

115 V anti-condensation heating	**M40**
230 V anti-condensation heating	**M41**

Technical specifications

Motor frame size	Heating power
	W
63 … 71	10
80 … 90	20
100 … 112	30
132 … 160	40
180 … 200	50
225 ... 250	60

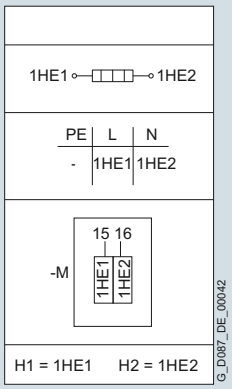


Fig. 9/11 Connection circuit diagram for the anti-condensation heating

Inverter operation

All motors used in SIMOGEAR geared motors are equipped with innovative insulation systems, consisting of high-quality enamel wires and insulating sheet materials in conjunction with highly temperature-resistant impregnations.

The motors can be operated with SINAMICS G and SINAMICS S converters and inverters (controlled and uncontrolled infeed) provided that the permissible voltage peaks listed in the relevant table are not exceeded.

Continuous operation while utilizing the admissible voltage tolerances must be avoided and is not recommended according to IEC 60034-1 2011.

Preferred supply system configurations are TT systems and TN systems with neutral-point grounding. In the case of a fault when connected to an IT supply system (ground fault), the insulation is excessively stressed. In this case, the process should be terminated as quickly as possible (t < 2 h), and the fault resolved. We do not recommend operation on TN supply systems with transition-point grounding.

Note:

When motors are operated on SINAMICS inverters additional losses occur which, depending on the admissible winding overtemperature, can make it necessary to reduce the torque. The admissible torque values can be obtained from the SIZER engineering tool. The lowest frequency specified there is 5 Hz. For stationary inverter operation at lower frequencies, particularly in the case of frame sizes < 100, it is necessary to inquire at the Quotation Center.

For inverter operation with the outputs specified in the catalog, the motors are utilized according to temperature class 155 (F), i.e. in this case neither a service factor > 1 nor an increased coolant temperature is possible.

DURIGNIT IR 2000 insulation

The DURIGNIT IR 2000 insulating system consists of high-quality enamel wires and insulating sheet materials in conjunction with temperature-resistant resin impregnation.

This ensures that these motors will have a high mechanical and electrical strength, high service value, and a long service life. The insulating system protects the winding to a large degree against aggressive gases, vapors, dust, oil, and increased air humidity. It can withstand the usual vibration stressing. The insulation is suitable up to an absolute air humidity of 30 g water per m^3 of air. Moisture condensation should be prevented from forming on the winding.

Please inquire about extreme applications.

Temperature class

All motors are designed for temperature class 155 (F). They are utilized to temperature class 130 (B).

The 4-pole motors can be optionally implemented for temperature class 180 (H). The winding is utilized to temperature class 155 (F).

Order code:

Temperature class 180 (H)	**M08**

Increased air humidity/temperature with 30 to 60 g water per m^3 of air

The motors in the standard range are designed for up to 30 g water per m^3. A design for increased air humidity in the range between 30 and 60 g water per m^3 air as a function of the temperature is possible, as shown in the following table.

Order code:

Increased air humidity/temperature with 30 to 60 g water per m^3 of air	**N54**

Relative humidity	**Temperature**						
	+20 °C	+30 °C	+40 °C	+50 °C	+60 °C	+70 °C	+80 °C
10 %	2	3	5	8	13	20	29
15 %	3	5	8	12	19	30	44
20 %	3	6	10	17	26	39	58
25 %	4	8	13	21	32	49	
30 %	5	9	15	25	39	59	
35 %	6	11	18	29	45		
40 %	7	12	20	33	52		
45 %	8	14	23	38	58		
50 %	9	15	26	41			
55 %	10	17	28	46			
60 %	10	19	31	50			
65 %	11	20	33	54			
70 %	12	21	36	58			
75 %	13	23	38				
80 %	14	24	41				
85 %	15	26	43				
90 %	16	27	46				
95 %	16	29	49				
100 %	17	30	51				

Degrees of protection

Overview

Note:

The degree of protection only applies to the electrical equipment (motor, brake, encoder). Depending on the application area, the applicable measures must be applied to the gearbox.

Available degrees of protection

Degree of protection	Motor options that can be mounted	Order code
IP55	No restrictions	**K01**
IP56	Possible in conjunction with separately driven fan, incremental encoder and absolute encoder	**K02**
IP65	Possible in conjunction with a brake, backstop, separately driven fan, incremental encoder, absolute encoder, resolver, and motor plug.	**K03**

Cooling and ventilation

Overview

The motors have radial-flow fans, which cool regardless of the direction of rotation of the motor (cooling method IC 411, IEC 60034-6). The air flows from the non-drive end (NDE) to the drive end (DE).

Self ventilation

The motor fan can either be a standard fan, metal fan, or high inertia fan.

Note:

Standard plastic fans are not suitable for ambient temperatures below -25 °C. At lower temperatures, metal fans (option M21) or high inertia fans (option M22) must be used

Fan design

Motor frame size	Fan	Material		Order code
		Fan	Fan cover	
63 ... 90	Standard fan	Plastic	Sheet metal	
	Metal fan	Aluminum	Sheet metal	**M21**
	High inertia fan	Steel core with plastic fan blades	Sheet metal	**M22**
100 ... 132	Standard fan	Plastic	Sheet metal	
	Metal fan	Aluminum	Sheet metal	**M21**
	High inertia fan	Cast iron	Sheet metal	**M22**
160	Standard fan	Plastic	Sheet metal	
	Metal fan	Aluminum	Sheet metal	**M21**
180 ... 200	Standard fan	Plastic	Sheet metal	
	Metal fan	Steel	Sheet metal	**M21**
225 ... 250	Standard fan	Plastic	Plastic / sheet metal [1]	
	Metal fan	Steel	Plastic / sheet metal [1]	**M21**

[1] The fan cover is made of sheet metal for motors with brake

Standard fan

As standard, the motors are equipped with a plastic fan. This can be used for the entire standard ambient temperature range.

Metal fan

As an alternative to the standard plastic fans, aluminum fans are available for the motors.

Metal fans are used for specific environmental conditions, e.g.:

- If there are solid or dirt particles, such as wood chips, textile fibers in the cooling air
- Special motor designs for increased ambient temperatures exceeding +60 °C
- At temperatures below -25 °C

Order code:

Metal fan	**M21**

High inertia fan

When required, 4-pole motors in frame sizes 71 to 132 can be equipped with a high inertia fan.

High inertia fans as an additional inertia are finely balanced according to ISO 1940. Typical applications are drives for traveling gear, conveying equipment, or in general for supporting soft starting and/or soft braking in line operation.

Order code:

High inertia fan	**M22**

A high inertia fan increases the moment of inertia of the motor according to the table below.

Motor frame size	J_Z	m_{fan}
	10^{-4} kgm^2	kg
71	17.1	1.38
80	27.9	1.75
90	54.0	2.55
100	116.0	3.30
112	230.0	5.30
132	562.0	9.10

Forced ventilation

Forced ventilation (separately driven fan) can be combined with almost all brakes and encoders as required.

Note:

Standard plastic fans are not suitable for ambient temperatures below -25 °C.

Order code:	
Separately driven fan	**M23**

Technical specifications (IP55)

Motor frame size	Frequency	Rated voltage range		Rated current	Power consumption	Volume flow	Weight
	[Hz]	Phase	[V]	[A]	[W]	[m^3/h]	kg
71	50	3 AC	380-420	0.16	35	95	3.9
	60	3 AC	440-480	0.16	50		
80	50	3 AC	380-420	0.16	35	115	5.4
	60	3 AC	440-480	0.16	50		
90	50	3 AC	380-420	0.16	35	200	5.8
	60	3 AC	440-480	0.16	50		
100	50	3 AC	380-420	0.16	35	340	6.3
	60	3 AC	440-480	0.16	50		
112	50	3 AC	380-420	0.16	35	440	6.9
	60	3 AC	440-480	0.16	50		
132	50	3 AC	380-420	0.25	60	1000	9.2
	60	3 AC	440-480	0.31	90		
160	50	3 AC	380-420	0.20	40	830	11.5
	60	3 AC	440-480	0.20	60		
180	50	3 AC	380-420	0.56	180	1050	14.7
	60	3 AC	440-480	0.62	230		
200	50	3 AC	380-420	0.56	180	1250	16.4
	60	3 AC	440-480	0.62	230		
225	50	3 AC	380-420	0.71	230	2750	22.5
	60	3 AC	440-480	0.72	300		
250	50	3 AC	380-420	0.71	230	3000	24.3
	60	3 AC	440-480	0.72	300		

Modular system in combination with self ventilation and forced ventilation for motor frame size 63 to 250

Cooling method	Motor plug	Encoder					Brake				Back-stop	2nd shaft extension
		Incremental encoder	Absolute encoder	Resolver [3]	Encoder under cover [2]	Encoder accessories	Without manual release	With manual release	Microswitch Air flow monitoring [1]	Wear monitoring		
Self ventilation												
Standard fan	✓	✓	✓	✓	✓	✓	✓	✓	✓	On request	✓	✓
Metal fan	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
High inertia fan [2]	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Canopy	✓	On request	On request	On request	On request	✓	✓	✓	✓		✓	-
Forced ventilation [2]												
Canopy	✓	✓	✓	✓	✓	✓	✓	✓	✓	On request	✓	-

1) Can be selected for brake type L32 or higher
2) Can be selected for motor frame size 71 or higher
3) Cannot be combined with brake motor

Connection, circuit and terminal boxes

Location and position of the terminal box

The terminal box of the motor can be mounted in four different locations or positions. The position of the terminal box is always when viewing the drive end (DE) of the motor.

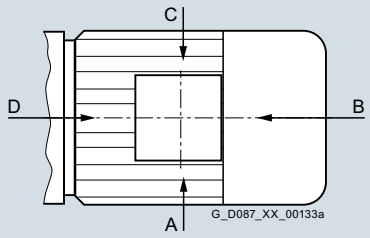
The standard position of the terminal box is on the right-hand side, with the cable entry from below (1A).

The terminal box is always located at the non-drive end (NDE) of the motor.

Selection data, cable entry

Terminal box position	Position of the cable entry	Order code
Motor		
1	A	**M55**
	B	**M56**
	C	**M57**
	D	**M58**
2	A	**M59**
	B	**M60**
	C	**M61**
	D	**M62**
3	A	**M63**
	B	**M64**
	C	**M65**
	D	**M66**
4	A	**M67**
	B	**M68**
	C	**M69**
	D	**M70**

Position of the cable entry



Terminal box position

When viewing DE

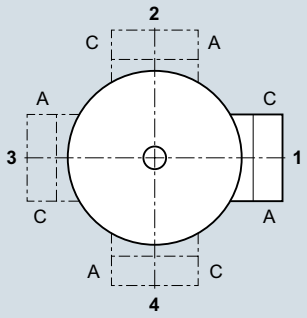


Fig. 9/12 Terminal box position and cable entry

Motor connection

The number of winding ends depends on the winding design. Three-phase AC motors are connected to the three phase conductors L1, L2, and L3 of a three-phase line supply. The motor rated voltage in the operating connection must match the phase conductor voltages of the line supply.

When the three phases operate in sequence and are connected to the terminals of the motor in alphabetical order U1, V1 and W1, the motor rotates clockwise when viewing the DE motor shaft.

The direction of rotation of the motor can be reversed if two connecting cables are interchanged. Labeled terminals are provided to connect the protective conductor.

The connections for a brake, anti-condensation heating or thermal motor protection are also located in the terminal box.

Note:

Different sizes of terminal box are used depending on the connections required.

Connection, circuit, and terminal boxes (continued)

Motor connection Δ/Y

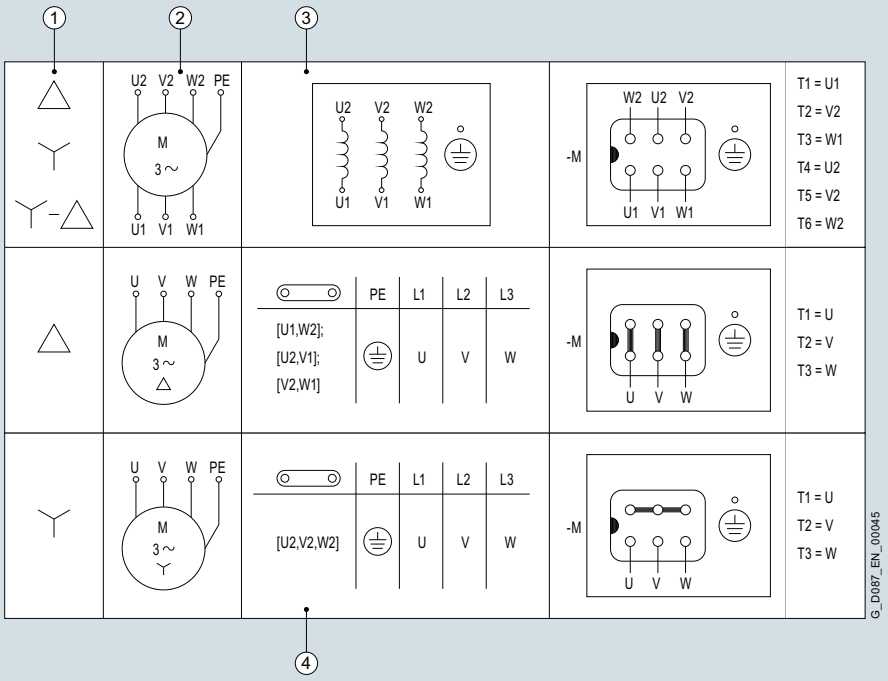


Fig. 9/13 Connection circuit diagram, motor connection Δ/Y

① Motor connection
② Circuit diagram symbols
③ Winding arrangement in the motor
④ Location of the jumpers on the terminal board and juxtaposition of the line connection with the motor connection

Motor connection Y

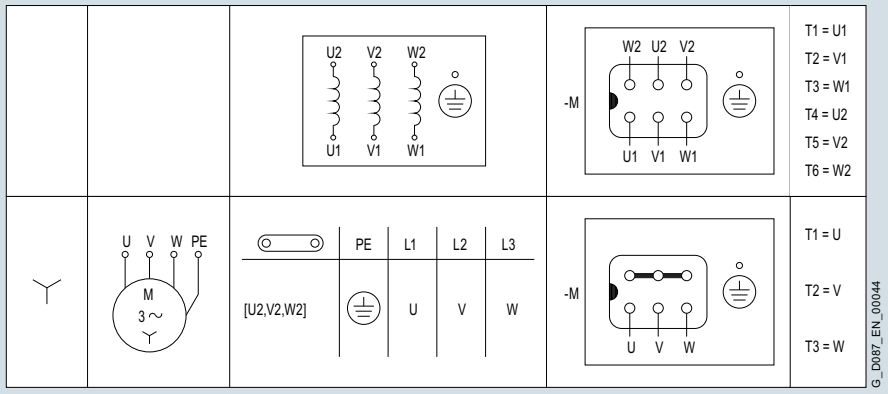


Fig. 9/14 Connection circuit diagram, motor connection Y

Connection, circuit, and terminal boxes (continued)

Motor connection YY/Y

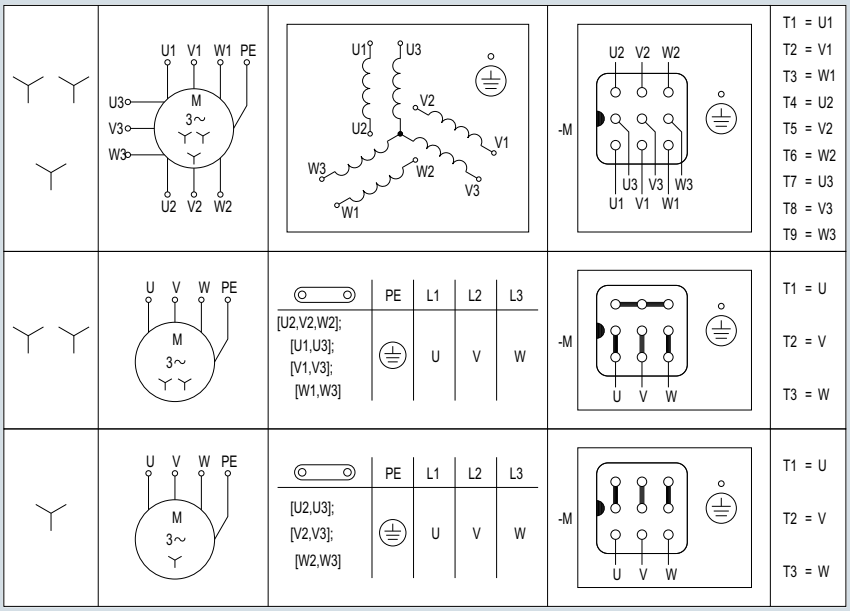


Fig. 9/15 Connection circuit diagram, motor connection YY/Y

Terminal connection

The terminal board accommodates the terminals that are connected to the leads to the motor windings.

The terminals are designed so that up to frame size 160, the external (line) connections can be established without requiring cable lugs.

Terminal box assignment

Motor frame size	Applicable motor		Number	Contact screw thread	Max. connectable conductor	Cable inlet	Auxiliary terminals	
	LHN	LEN					Max. number	Max. connectable conductor
					mm²			mm²
63	✓		6	M4	1.5 (2.5 with cable lug)	1×M25×1.5+1×M20×1.5	8	2.5
71	✓							
80		✓				1×M25×1.5+1×M16×1.5		
	✓					2×M25×1.5		
90	✓							
		✓				1×M25×1.5+1×M16×1.5		
100	✓				4	1×M32×1.5+1×M25×1.5	10	
		✓				2×M32×1.5		
112	✓	✓						
132	✓	✓			6			
160	✓	✓		M5	16	2xM40x1.5		
180	✓	✓						
200	✓	✓		M6	25	2xM50x1.5		
225	✓			M8	35			
250	✓			M10	120			

Connection, circuit, and terminal boxes (continued)

External grounding

IEC 60034 specifies additional external grounding for motors with ratings of 100 kW and higher. For motors, sizes 63 up to 200, this is optionally available.

Motors in sizes 225 to 250 are supplied as standard with external grounding.

Order code:

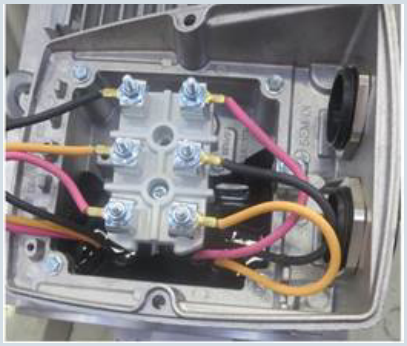
External grounding	**N53**

Maximum conductor connection for external grounding

Motor frame size	Thread size
63 … 71	M4
80 … 180	M6
200	2 x M6
225 ... 250	2 x M8

Terminal box grouted

The terminal box slot is tightly sealed with 2-component potting compound, so that no humidity from the terminal box space can enter the interior of the motor.



Order code:

Terminal box grouted [1]	**M53**

[1] Not possible in conjunction with UL-R and CSA design.

Motor plug

Overview

The motor plug is supplied ready for use, and replaces the terminal box with terminal board.

Motor plugs are also available in an EMC design. A counterplug can also be provided.

In the basic design, the motor plug connection is in position B, see page 9/10. The dimensions depend on the motor frame size.

Particularly in cases where a brake with a manual release lever is used in the direction of the non-drive end (NDE), a check must be made to ensure that the motor plug does not collide with the manual release lever in the direction of the drive end (DE).

The main advantages of a motor plug over a terminal box with terminals are as follows:

- Peripheral equipment can be quickly installed
- Reduction of installation and repair times for end users
- No wiring errors as a result of the plug system
- Replacement of a geared motor without having to make any intervention in the electronics

The winding connections and, optionally, the power supply for the brake and the signal cables for the temperature sensors are connected in the plug housing.

HAN 10E motor plug

The motor plug is compatible with the products from the ECOFAST field device system. It is available for motor frame sizes 80 to 132 and can be used for line voltages at the motor plug ≤ 500 V and rated currents ≤ 16 A.

The motor plug can be used in the standard temperature range from -40 up to +60 °C. A special design is required for higher temperatures.

The motor connection (star or delta connection) is selected by the customer in the form of the counterplug used.

Technical specifications

Number of contacts	10 + ⏚
Max. voltage	500 V
Max. current load per PIN	16 A
Specifications	CE, cUL-Rus
Degree of protection	IP65

Order code:

HAN 10E motor plug (2 brackets)	**N00**
HAN 10E motor plug (2 brackets) EMC	**N01**
HAN 10E motor plug (1 bracket)	**N04**
HAN 10E motor plug (1 bracket) EMC	**N06**
HAN 10E counterplug	**N18**

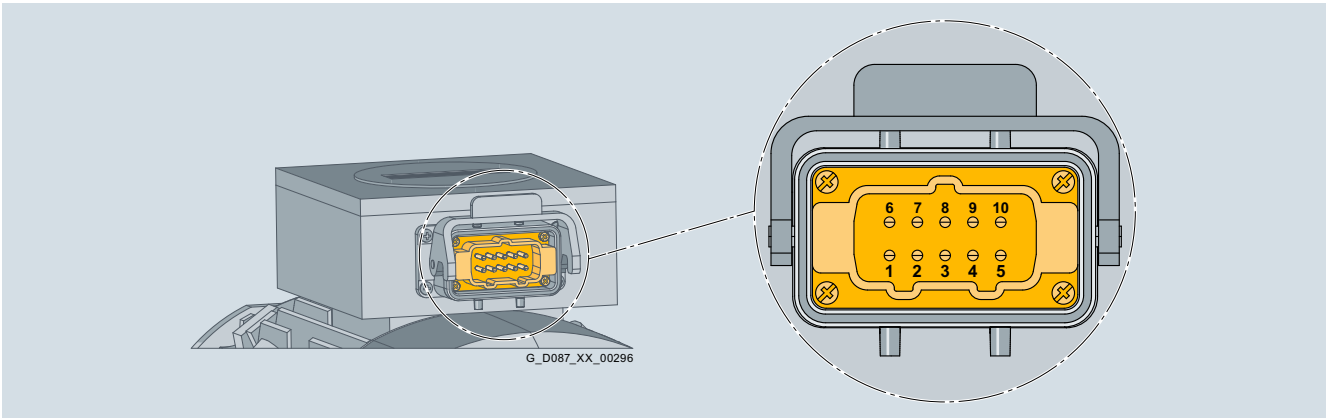


Fig. 9/16 HAN 10 E motor plug with pin assignments

Connection assignment

PIN	1	2	3	4	5	6	7	8	9	10	PE
Connection	U1	V1	W1	Brake	Brake	W2	U2	V2	Temperature-dependent winding protection		Protective conductor

HAN 10E motor plug (continued)

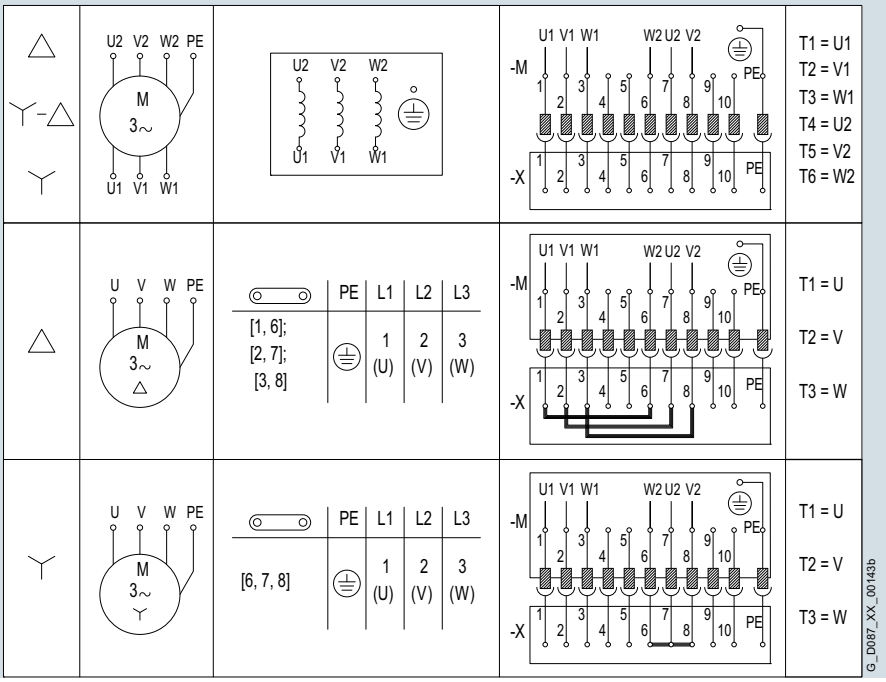


Fig. 9/17 Connection circuit diagram for motor winding

HAN K4/4 motor plug

The motor plug is available for motor frame sizes 132 up to 200, and can be used for line voltages ≤ 690 V at the power connection and ≤ 250 V at the control connection – as well as rated currents ≤ 63 A at the power connection and ≤ 16 A at the control connection. The jumpers are connected to the terminal board at the factory depending on the selected circuit or voltage.

Technical specifications

Number of contacts	4 + 4 + ⏚
Max. voltage power range	690 V (pollution degree 3)
Max. current load power range per PIN	63 A
Max. voltage control range	250 V (pollution degree 3)
Max. current load control range per PIN	16 A
Specifications	CE, cUL-Rus
Degree of protection (interlocked)	IP65

Order code:

HAN K4/4 motor plug (1 bracket)	**N08**
HAN K4/4 motor plug (1 bracket) EMC	**N09**
HAN K4/4 motor plug (2 brackets)	**N10**
HAN K4/4 motor plug (2 brackets) EMC	**N11**
HAN K4/4 counterplug	**N19**

Motor plug

HAN K4/4 motor plug (continued)

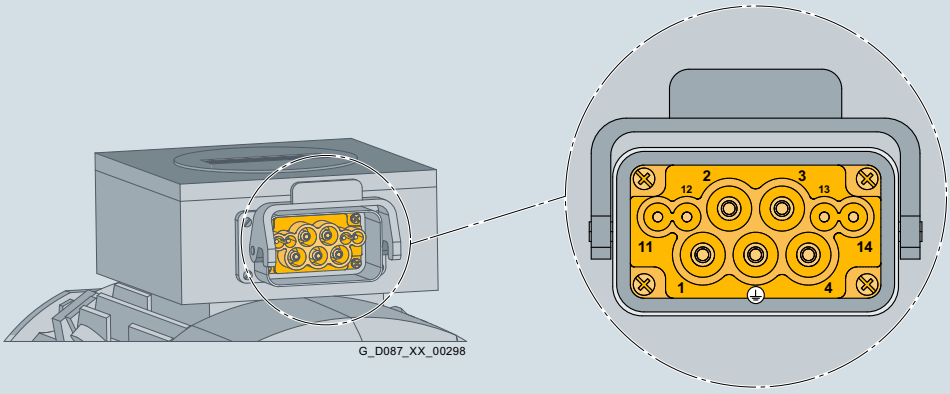


Fig. 9/18 HAN K4/4 motor plug with pin assignments

Connection assignment

PIN	1	2	3	4	11	12	13	14	PE
Connection	U	V	W	-	Brake	Brake	Temperature-dependent winding protection		Protective conductor

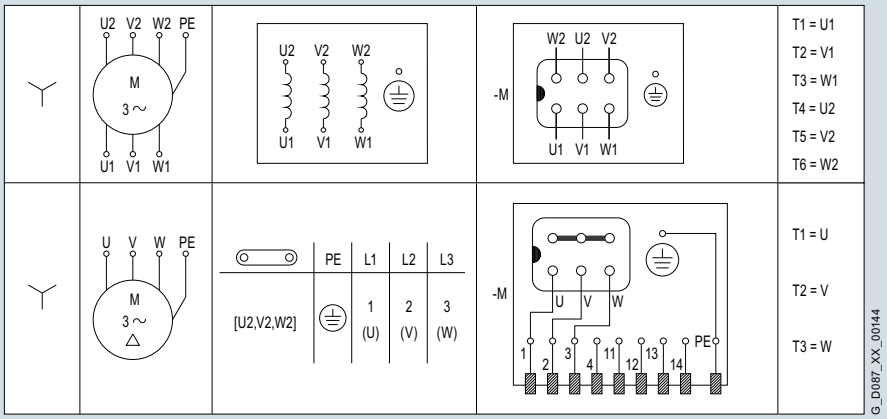


Fig. 9/19 Connection circuit diagram for motor winding Y connection

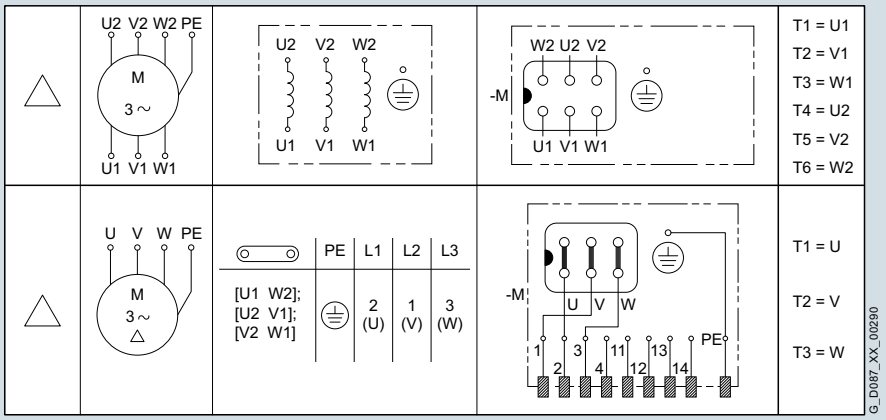


Fig. 9/20 Connection circuit diagram for motor winding Δ connection

HAN Q8 motor plug

The motor plug is available for motor frame sizes 63 to 132 and can be used for line voltages ≤ 500 V as well as rated currents ≤ 16 A. The jumpers are connected to the terminal board at the factory depending on the selected circuit or voltage.

Order code:

HAN Q8 motor plug (1 bracket) EMC	**N12**

Technical specifications

Number of contacts	8 + ⏚
Max. voltage	500 V (pollution degree 3)
Max. current load per PIN	16 A
Specifications	CE, cUL-Rus
Degree of protection (interlocked)	IP65

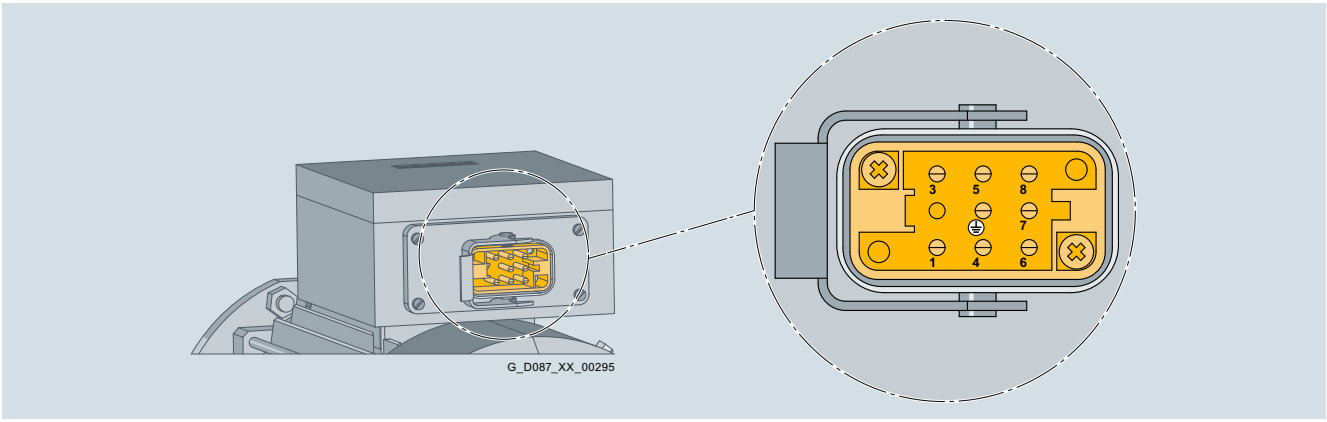


Fig. 9/21 HAN Q8 motor plug with pin assignments for motor frame sizes 63 to 132

Connection assignment

PIN	1	2	3	4	5	6	7	8	PE
Connection	U	-	W	Brake	Temperature-dependent motor protection	Brake	V	Temperature-dependent motor protection	Protective conductor

HAN Q8 motor plug (continued)

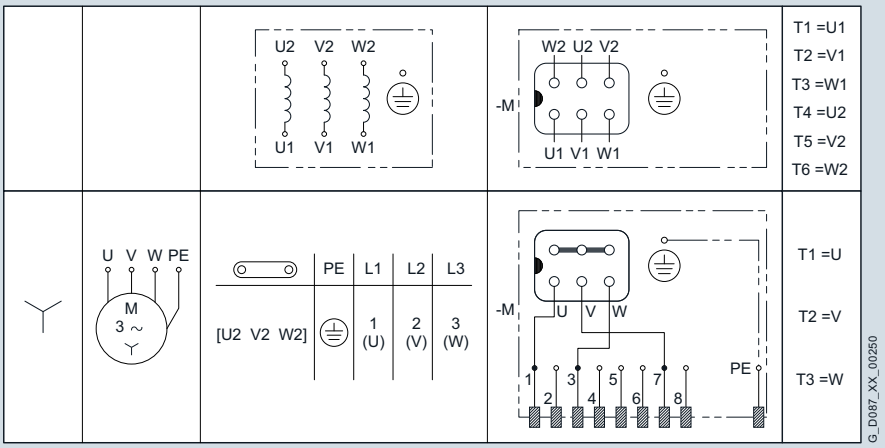


Fig. 9/22 Connection circuit diagram for motor winding Y connection

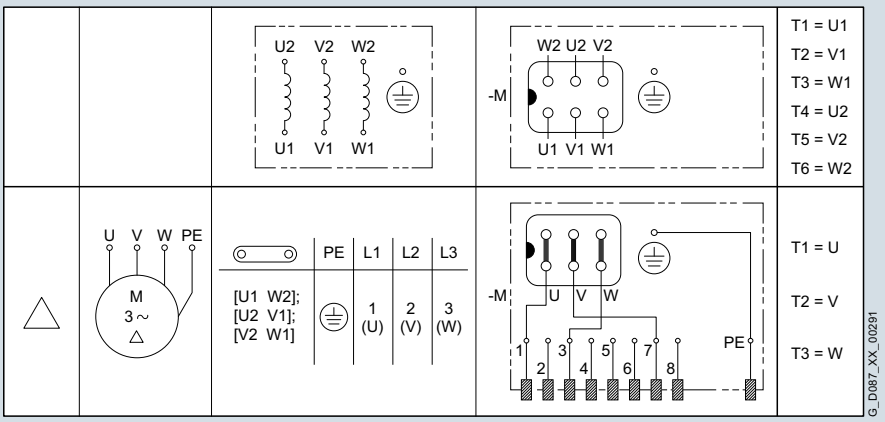


Fig. 9/23 Connection circuit diagram for motor winding Δ connection

HAN Q12 motor plug

The motor plug is available for motor frame sizes 63 to 90 and can be used for line voltages ≤ 400 V as well as rated currents ≤ 10 A. The motor connection (star or delta connection) is selected by the customer.

Order code:

HAN Q12 motor plug (1 bracket) EMC	**N13**

Technical specifications

Number of contacts	12 + ⏚
Max. voltage	400 V (pollution degree 3)
Max. current load per PIN	10 A
Specifications	CE
Degree of protection (interlocked)	IP65

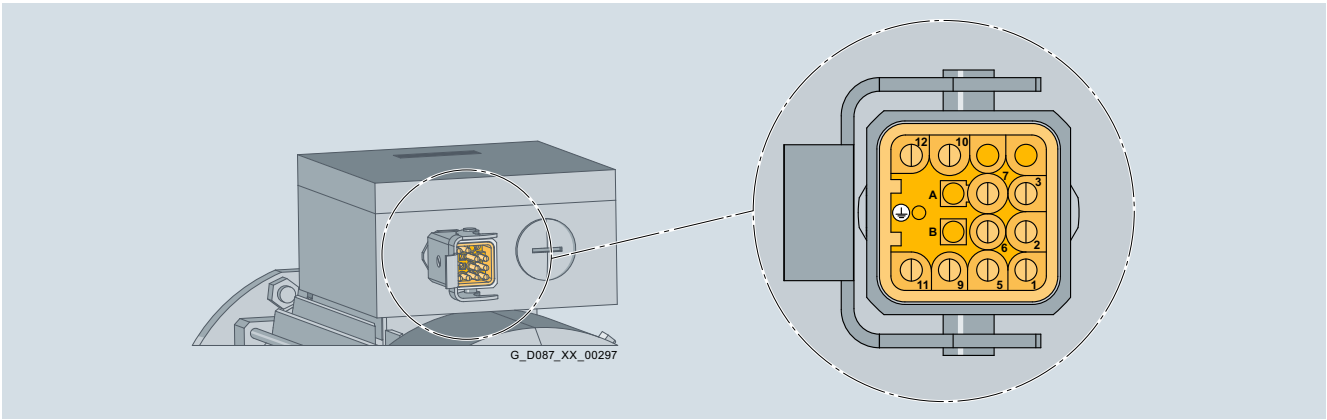


Fig. 9/24 HAN Q12 motor plug with pin assignments

Connection assignment

PIN	1	2	3	4	5	6	7	8	9	10	11	12	PE
Connection	U1	V1	W1	-	W2	U2	V2	-	Brake	Temperature-dependent winding protection	Brake	Temperature-dependent winding protection	Protective conductor

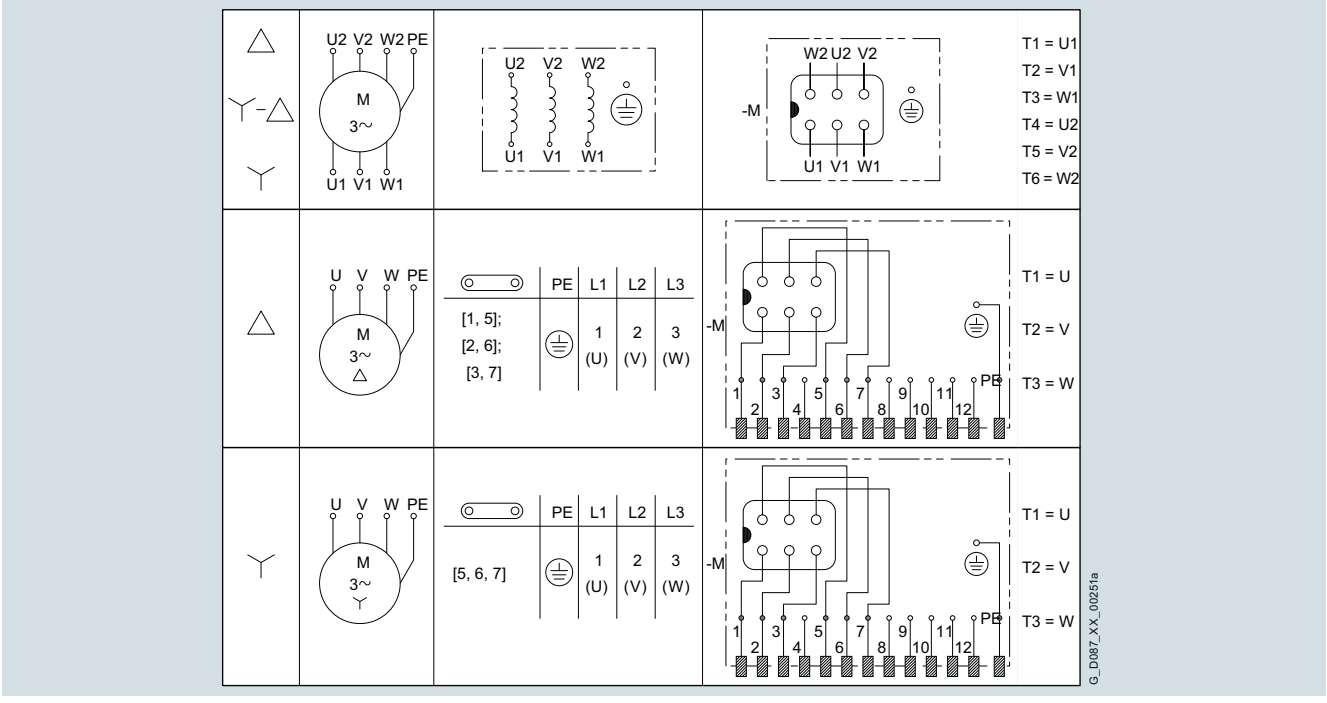


Fig. 9/25 Connection circuit diagram for motor winding

Brake

Overview

SIMOGEAR geared motors can be supplied with spring-operated disk brakes in order to reduce the motor run-on time or to hold loads, for example.

Our MODULOG modular system allows several brake sizes to be used with one motor frame size. This chapter specifies the assignment to the motor frame sizes and possible brake options.

Design and principle of operation

Single-disk, spring-operated brakes have two friction surfaces. When the brake is in a zero current state, a braking torque is generated using several springs.

The brake is released electromagnetically. When the motor brakes, the rotor which can be axially shifted on the hub or the shaft is pressed via the armature disk against the friction surface by means of the springs. In the braked state, there is a gap between the armature disk and the solenoid assembly.

To release the brake, the solenoid is energized with DC voltage. The resulting magnetic force attracts the armature disk onto the solenoid assembly against the spring force.

The spring force is then no longer applied to the rotor, which can now rotate freely.

At ambient temperatures above 45 °C, a more detailed examination of the brake is necessary. Please contact Siemens.

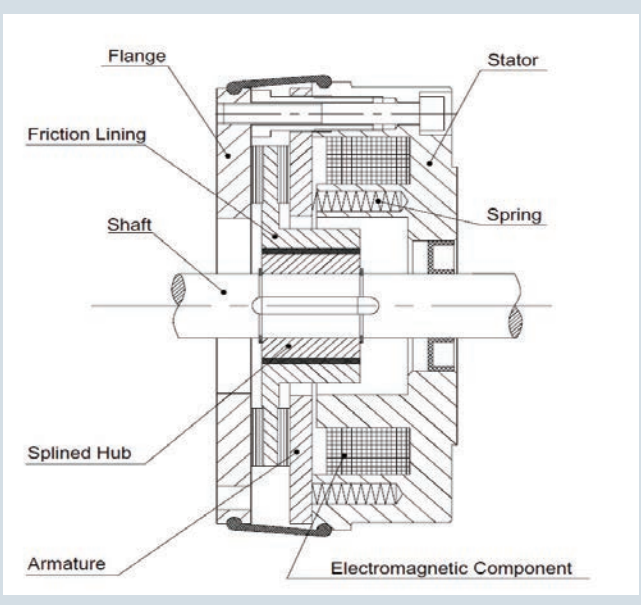


Fig. 9/34 Brake L

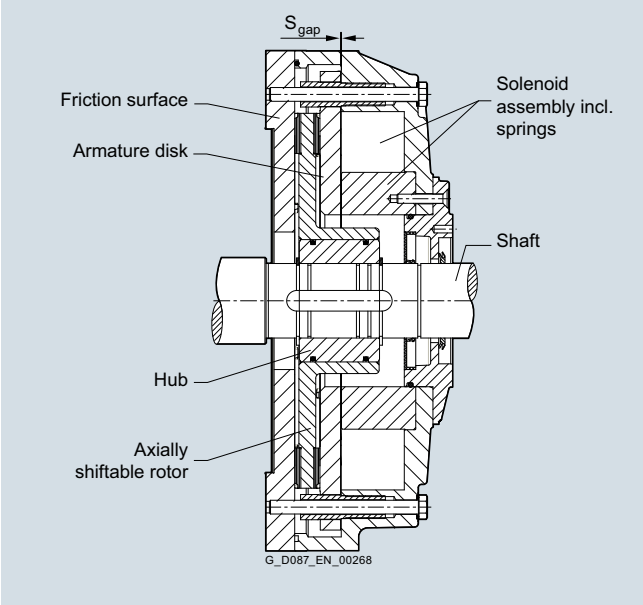


Fig. 9/35 Brake FDX

Selecting the brake

Our MODULOG modular system allows several brake sizes to be used with one motor frame size.

Brake assignment

Brake type	Braking torque	Motor frame size												Order code
	Nm	63	71	80	90	100	112	132	160	180	200	225	250	
L4/2	2	❍	❍	❍										**B02**
L4	4	❑	❑	❍										**B00**
L4/5	5	❍	❍	❍										**B57**
L8/5	5		❍	❍	❍									**B07**
L8	8		❍	❑	❍									**B04**
L8/10	10		❍	❍	❍									**B09**
L16/8	8			❍	❍	❍								**B14**
L16	16			●	❑	❍								**B10**
L16/20	20				❍	❍								**B13**
L32/14	14				❍	❍	❍							**B66**
L32	32				❍	❑	❑							**B15**
L32/40	40					❍	❍							**B18**
L60/25	25					❍	❍							**B67**
L60/38	38					❍	❍							**B20**
L60	60						❍							**B19**
L80/50	50							❍						**B26**
L80	80							❑						**B22**
L80/100	100							❍						**B23**
L150/80	80							❍	❍					**B32**
L150/100	100							❍	❍					**B29**
L150/125	125							❍	❍					**B30**
L150	150							❍	❑					**B28**
L260/200	200								❍	❍	❍			**B37**
L260	260								❍	❑	❑			**B33**
L260/315	315									❍	❍			**B58**
L400/300	300										❍	❍		**B41**
L400	400										❍	❍		**B39**
L400/600	600										●	●		**B59**
FDX30/650	650											❍	❍	**B55**
FDX30/750	750												❍	**B56**
FDX30/850	850												❍	**B64**

❑ Standard assignment
❍ Working brake and holding brake
● Can only be used as holding brake

Connecting the brake

Labeled terminals are provided in the main terminal box of the motor to connect the brake.

Connection circuit diagram with AC or DC control

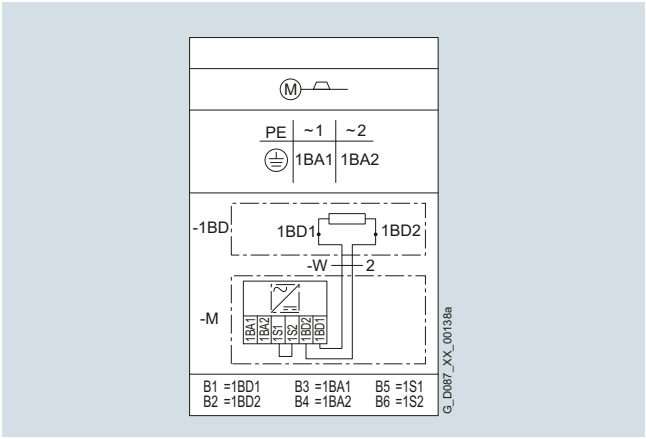


Fig. 9/36 Connection circuit diagram with AC control voltage

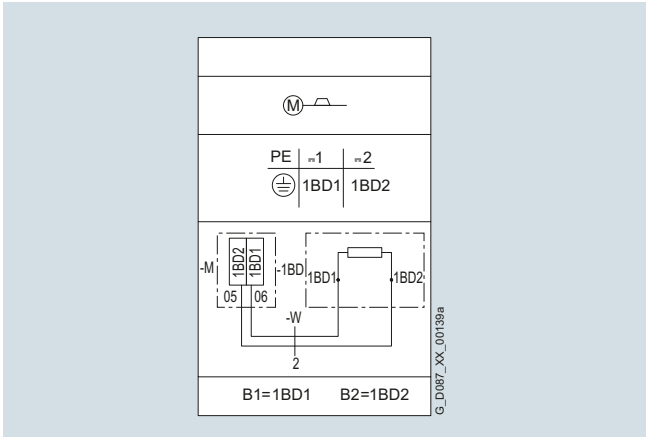


Fig. 9/37 Connection circuit diagram with DC control voltage

Function diagram of a brake switched on the AC side or DC and AC sides

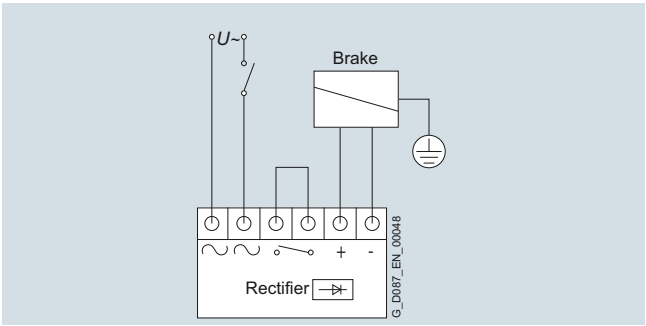


Fig. 9/38 Function diagram of a brake switched on the AC side

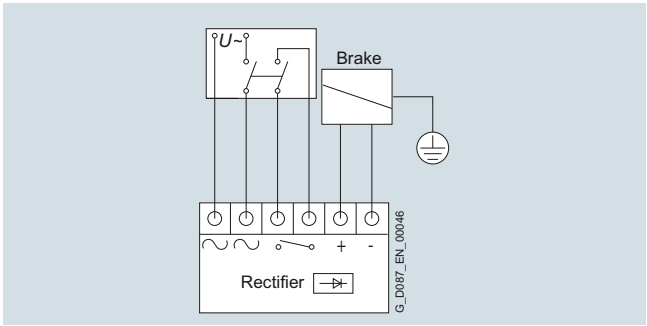


Fig. 9/39 Function diagram of a brake switched on the DC and AC sides

Supply voltages

The following supply voltages are available for brakes.

Supply voltage	Possible specifications				Motor frame sizes	Brake type		Rectifier		Coil voltage		Order code
	CE	UL-R/CSA	China	Export		L4 ... L400	FDX30	Brake L	Brake FDX	Brake L	Brake FDX	
DC voltages												
24 V DC ± 10 %	✓	✓	✓	✓	63 ... 200	✓	-	-	-	-	-	**C66**
103 V DC ± 10 %	✓	✓	✓	✓	63 ... 200	✓	-	-	-	-	-	**C52**
180 V DC ± 10 %	✓	✓	✓	✓	63 ... 200	✓	-	-	-	-	-	**C53**
205 V DC ± 10 %	✓	✓	✓	✓	63 ... 200	✓	-	-	-	-	-	**C64**
AC voltages												
200 V AC ± 10 %	✓	✓	✓	✓	63 ... 250	✓	✓	Rectifier bridge	Rectifier PMG	180 V DC	103 V DC	**C45**
230 V AC ± 10 %	✓	✓	✓	✓	63 ... 250	✓	✓	Half-wave rectifier		103 V DC	103 V DC	**C46**
380 V AC ± 10 %	✓	✓	✓	✓	63 ... 250	✓	✓			180 V DC	180 V DC	**C48**
400 V AC ± 10 %	✓	✓	✓	✓	63 ... 250	✓	✓			180 V DC	180 V DC	**C47**
415 V AC ± 10 %	✓	✓	✓	✓	63 ... 250	✓	✓			180 V DC	180 V DC	**C50**
460 V AC ± 10 %	✓	✓	✓	✓	63 ... 250	✓	✓			205 V DC	205 V DC	**C63**
AC voltages with function rectifier with disconnection on the DC side using current or voltage sensing												
230 V AC ± 10 %	✓	✓	✓	✓	63 ... 200	✓	-	Function rectifier	-	103 V DC	-	**C72**
400 V AC ± 10 %	✓	✓	✓	✓	63 ... 200	✓	-		-	205 V DC	-	**C47**
460 V AC ± 10 %	✓	✓	✓	✓	63 ... 200	✓	-		-	215 V DC	-	**C74**

Brake control

The brakes are released by DC voltage. The brake is controlled by the DC supply voltage in systems without a rectifier, or by the AC supply voltage in systems with a rectifier. Half-wave rectifiers or rectifier bridges are used as rectifiers.

Note:

In case of beyond the ambient temperature, we recommend using a rectifier in the control cabinet. If necessary, please contact Siemens.

Supply voltage	DC voltages	AC voltages	Switching frequency	Ambient temperature
Brake L	Without	Rectifier	No restriction	-30 °C ... +45 °C
		Function rectifier	See Section "Function rectifier" page 9/24	See Section "Function rectifier" page 9/24
Brake FDX	-	Rectifier PMG	See table "Switching frequency of PMG rectifiers"	-40 °C ... +45 °C

Switching frequency of PMG rectifiers

Duty cycle/switching frequency for the 205 V DC brake solenoid

Supply voltage	Switching frequency s/h^{-1}														
V_{AC}	1	10	20	30	40	50	60	70	80	90	100	110	120	130	140
410 ... 480 V AC															
410	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
420	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
440	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.40	98.53	97.66	96.80	95.93	95.06
460	98.08	97.21	96.34	95.48	94.61	93.74	92.88	92.01	91.14	90.28	89.41	88.54	87.68	86.81	85.94
480	90.07	89.21	88.34	87.47	86.61	85.74	84.87	84.01	83.14	82.27	81.41	80.54	79.67	78.81	77.94

Duty cycle/switching frequency for the 180 V DC brake solenoid

Supply voltage	Switching frequency s/h^{-1}														
V_{AC}	1	10	20	30	40	50	60	70	80	90	100	110	120	130	140
380 ... 440 V AC															
380	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.54	98.67
400	100.00	99.13	98.27	97.40	96.53	95.67	94.80	93.93	93.07	92.20	91.33	90.47	89.60	88.73	87.87
410	95.18	94.31	93.45	92.58	91.71	90.85	89.98	89.11	88.25	87.38	86.51	85.65	84.78	83.91	83.05
420	90.70	89.84	88.97	88.10	87.24	86.37	85.50	84.64	83.77	82.90	82.04	81.17	80.30	79.44	78.57
440	82.64	81.78	80.91	80.04	79.18	78.31	77.44	76.58	75.71	74.84	73.98	73.11	72.24	71.38	70.51

Duty cycle/switching frequency for the 103 V DC brake solenoid

Supply voltage	Switching frequency s/h^{-1}														
V_{AC}	1	10	20	30	40	50	60	70	80	90	100	110	120	130	140
190 ... 240 V AC															
190	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
200	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
210	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
220	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.58	98.71	97.84	96.98	96.11
230	99.04	98.17	97.30	96.44	95.57	94.70	93.84	92.97	92.10	91.24	90.37	89.50	88.64	87.77	86.90
240	90.96	90.09	89.22	88.36	87.49	86.62	85.76	84.89	84.02	83.16	82.29	81.42	80.56	79.69	78.82

Function rectifier

The following table provides an overview of brake control with function rectifiers.

Function rectifier		**High-speed rectifier + disconnection on the DC side using**	
Technical specifications	Unit	**Current sensing**	**Voltage sensing**
Supply voltage	V_{AC} ± 10 %	220 … 460	220 … 500
Supply frequency	Hz	40 … 60	40 … 60
Max. output current up to an ambient temperature of +40 °C[1)]	A_{DC}	1.2	1.2
Output voltage	V_{DC}	0.445 x supply voltage (0.89 - max. 8 %) x supply voltage	0.445 x supply voltage (0.89 - max. 8 %) x supply voltage
Permissible continuous current of the current sensor	A_{DC}	0.27 … 34	-
Max. switching frequency[2)]	rpm	76[2)3)]	76[2)3)]
Supported motors		Max. motor current 34 A	No restrictions
Supported brakes		L4 … L400	L4 … L400
Suitable for		Braking operation for fast brake release + application	Braking operation for fast brake release + application
Inverter operation		Not suitable	Separate power supply required
Line operation		Direct-on-line starting	Direct-on-line Y/Δ starting
Motor starters		Not suitable	No restrictions
Operation with driving loads and/or high moment of inertia		No restrictions	Separate power supply required
Suppressor circuit		Spark suppressor	Spark suppressor
Order code		**C59** [4)]	**C60**

1) At higher ambient temperatures the output current decreases.
2) The specified maximum switching frequencies are upper limit values. They are essentially dependent on the braking power and the permissible operating energy of the brakes.
3) The maximum switching frequency is obtained from the overexcitation times and recovery times as well as switching-off in holding operation.
4) The function rectifier **C59** is connected to the terminal board at the factory depending on the selected circuit or voltage.

Duty cycle, function rectifier

The high-speed rectifier releases the brake with overexcitation and thus reduces the maximum duty cycle (on-load factor) of the brake.

Depending on the supply voltage and the switching frequency, the maximum duty cycle of the brake solenoid can be taken from the following diagrams and tables.

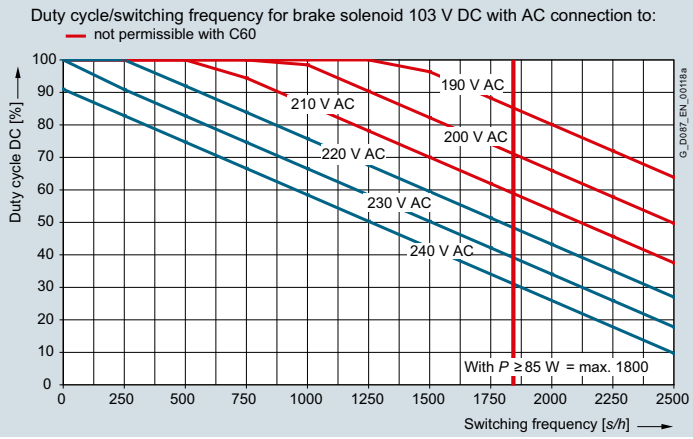


Fig. 9/40 Duty cycle/switching frequency for the 103 V DC brake solenoid

Supply voltage	**Switching frequency** s/h^{-1}								Up to brake size L80		
V_{AC}	1	250	500	750	1 000	1 250	1 500	1 750	2 000	2 250	2 500
220 … 240 V AC for separate power supply											
220	100	100	91	83	75	67	59	51	43	35	26
230	100	90	82	74	66	58	50	42	34	25	17
240	100	82	74	66	58	50	42	34	25	17	9

Function rectifier (continued)

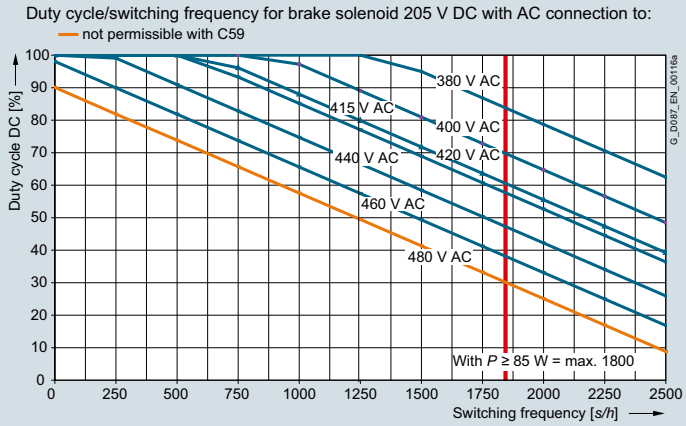


Fig. 9/41 Duty cycle/switching frequency for the 205 V DC brake solenoid

Supply voltage	Switching frequency s/h^{-1}								Up to brake size L80		
V_{AC}	1	250	500	750	1 000	1 250	1 500	1 750	2 000	2 250	2 500
400 V AC for connection at the motor terminal board											
380	100	100	100	100	100	100	94	86	78	70	62
400	100	100	100	100	97	89	80	72	64	56	48
420	100	100	100	93	85	77	68	60	52	44	36
380 … 440 V AC for separate power supply											
380	100	100	100	100	100	100	94	86	78	70	62
400	100	100	100	100	97	89	80	72	64	56	48
440	100	99	90	82	74	66	58	50	42	34	25

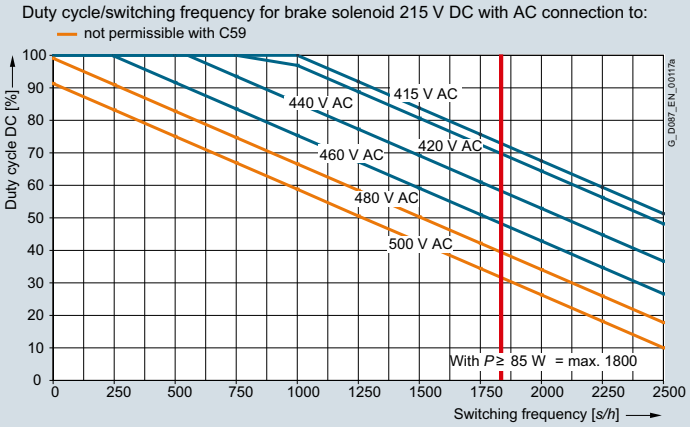


Fig. 9/42 Duty cycle/switching frequency for the 215 V DC brake solenoid

Supply voltage	Switching frequency s/h^{-1}								Up to brake size L80		
V_{AC}	1	250	500	750	1 000	1 250	1 500	1 750	2 000	2 250	2 500
410 … 480 V AC for separate power supply[1)]											
410	100	100	100	100	100	95	87	78	70	62	54
460	100	99	91	83	75	67	59	51	42	34	26
480	100	90	82	74	66	58	50	42	34	25	17

1) The brake power supply voltage can be limited by the rectifier.

Brake options

Manual brake release

The brakes L can be supplied with a manual brake release lever. The manual brake release lever can be used to release the brake at zero current. When the brake has been released, the motor shaft can rotate freely in order to bring the output shaft to a certain position or for use as an emergency release in the event of a power failure, for example.

The manual brake release lever can be fixed in the released position using an additional locking mechanism mounted on the brake.

Only the manual brake release lever with locking mechanism can be selected for brakes FDX.

The manual brake release lever can be mounted in various different positions. The position of the manual brake release lever relates to the standard design of the motor. The standard position is "2".

Order code:

Manual brake release lever	**C02**
Manual brake release lever with locking mechanism	**C03**

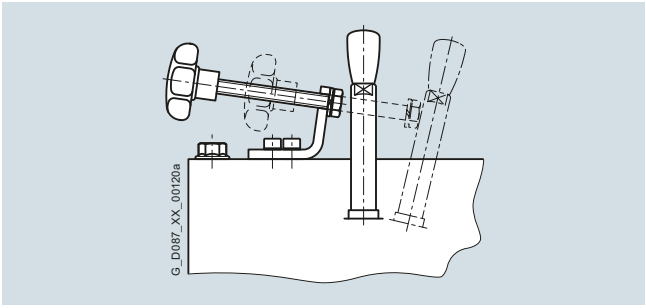


Fig. 9/43 Example of manual brake release lever with locking mechanism for brake L

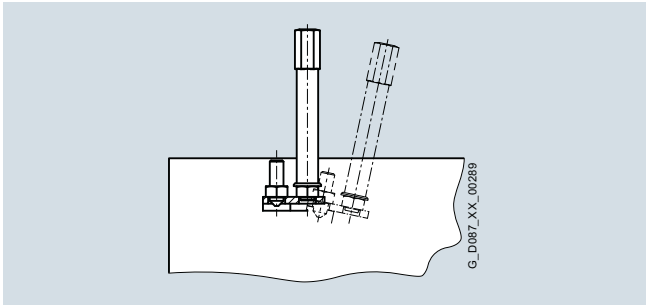


Fig. 9/44 Example of manual brake release lever with locking mechanism for brake FDX

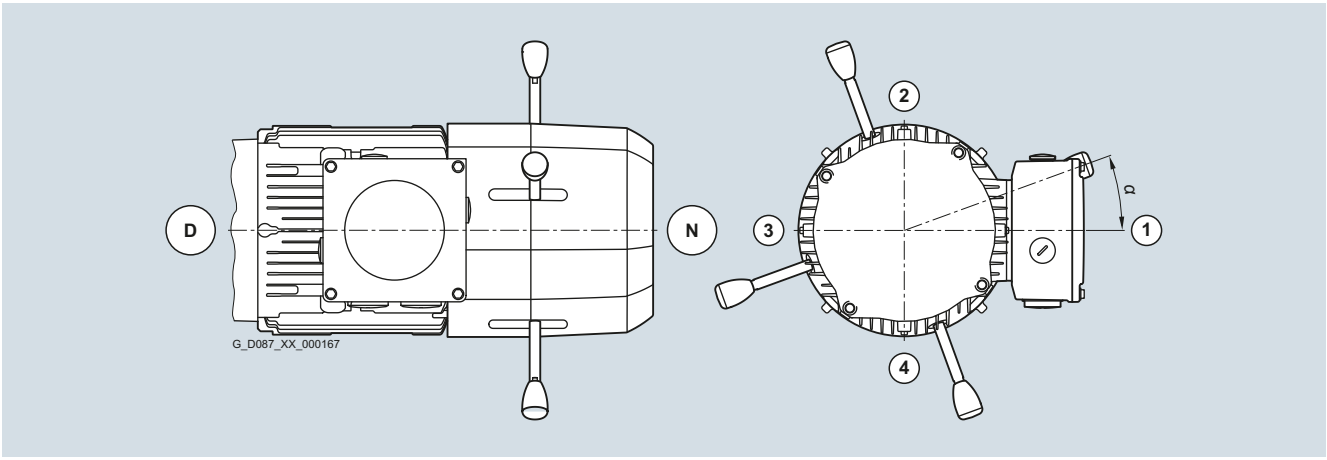


Fig. 9/45 Manual brake release lever position

Manual brake release lever position	Motor frame size												Order code
	63	71	80	90	100	112	132	160	180	200	225	250	
1	0°	10°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	**C26**
2	90°	100°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	**C27**
3	180°	190°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	**C28**
4	270°	280°	270°	270°	270°	270°	270°	270°	270°	270°	270°	270°	**C29**

Brake options (continued)

The dimensions of the manual brake release lever depend on the size.

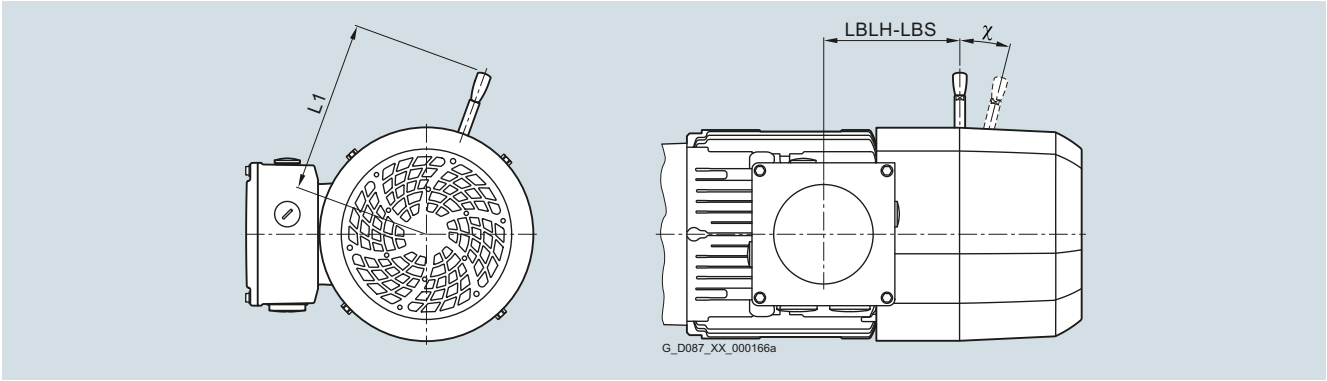


Fig. 9/46 Dimensions, manual brake release lever

Motor frame size		Brake type	Terminal box position	Distance			Angle, manual brake release lever
				Centerline of the motor up to the outermost position of the manual brake release lever		Center of the terminal box up to the center of the manual brake release lever	With the brake released
				Without locking mechanism	With locking mechanism	Standard corrosion protection	
				mm	mm	mm	Tolerance +3°
				L1	**L1**	**LBLH-LBS**	**χ**
LHN63	**63**	L4	1A, 2A, 3A, 4A	107	127	79.8	12°
LHN71	**71**	L4	1A, 2A, 3A, 4A	107	127	68.3	12°
	71	L8	1A, 2A, 3A, 4A	116	136	68.8	10°
LHN/LEN80	**80**	L4	1A, 2A, 3A, 4A	107	127	104.3	12°
	80	L8	1A, 2A, 3A, 4A	116	136	104.8	10°
	80	L16	1A, 2A, 3A, 4A	132	151	115.9	9°
LHN/LEN90	**90**	L8	1A, 2A, 3A, 4A	116	136	107.8	10°
	90	L16	1A, 2A, 3A, 4A	132	151	118.9	9°
	90	L32	1A, 2A, 3A, 4A	161	161	120.9	10°
LHN/LEN100	**100**	L16	1A, 2A, 3A, 4A	132	151	119.9	9°
	100	L32	1A, 2A, 3A, 4A	161	161	121.9	10°
	100	L60	1A, 2A, 3A, 4A	195	195	125.5	9°
LHN/LEN112	**112**	L32	1A, 2A, 3A, 4A	161	161	126.4	10°
	112	L60	1A, 2A, 3A, 4A	195	195	130.0	9°
LHN/LEN132	**132**	L80	1A, 2A, 3A, 4A	240	240	148.0	10°
	132	L150	1A, 2A, 3A, 4A	279	279	161.1	9°
LHN/LEN160	**160**	L150	1A, 2A, 3A, 4A	279	279	207.1	9°
	160	L260	1A, 2A, 3A, 4A	319	319	202.6	10°
LHN/LEN180	**180**	L260	1A, 2A, 3A, 4A	319	319	202.6	10°
LHN/LEN200	**200**	L260	1A, 2A, 3A, 4A	319	319	214.6	10°
	200	L400	1A, 2A, 3A, 4A	445	445	224.7	10°
LHN225	**225**	L400	1A, 2A, 3A, 4A	445	445	208.7	10°
	225	L1000	1A, 2A, 3A, 4A	832	832	219.0	10°
LHN250	**250**	L1000	1A, 2A, 3A, 4A	832	832	233.0	10°

Brake options (continued)

Monitoring

Brake with microswitch to monitor the release

The air gap s_{gap} of the brake is monitored by a microswitch mounted on the base plate of the solenoid assembly.

The motor does not start up until the brake has been fully released (s_{gap} = 0) and the armature disk is in contact with the solenoid assembly. The microswitch is actuated and controls the motor contactor.

When the brake is switched off, the armature disk reaches the maximum air gap (s_{gapmax}) and the microswitch opens. This means that the motor contactor is not controlled and the motor does not start.

This method is used for machines and units which require a precisely defined starting and braking procedure, as well as for fault monitoring of faulty rectifiers, interrupted connecting cables, faulty solenoids, and excessively large air gaps (brake solenoid cannot fully attract the armature disk).

The microswitch for air gap monitoring is available for brakes in sizes L32 to L400 and FDX30.

Note:

The mechanical components of the microswitch must be protected against icing at low temperatures.

Order code:

Microswitch for monitoring brake release	**C04**

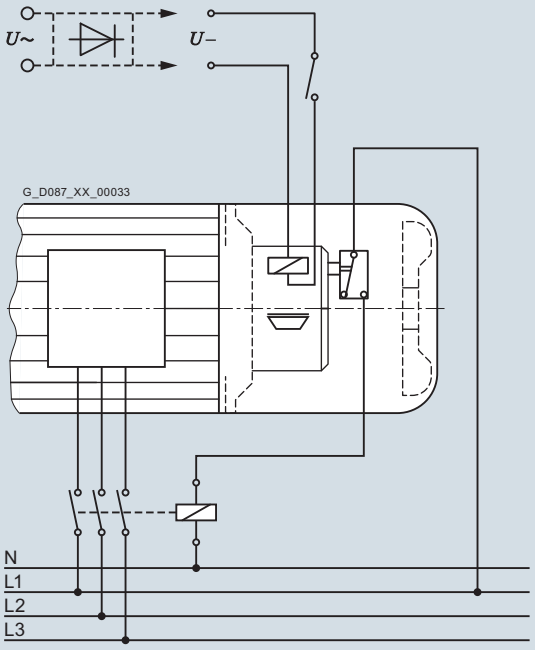


Fig. 9/47 Circuit principle with microswitch

Brake options (continued)

Enclosed brake

The brakes L can be supplied as enclosed brakes.

Enclosed brakes include a dust protection ring around the circumference and an integrated shaft sealing ring at the shaft outlet. This prevents the release and penetration of dust, moisture, and other pollution. Other advantages are reduced noise when applying the brake as well as, in combination with a motor anti-condensation heater, a reduced risk of the rotor freezing on the friction surfaces.

In addition, a condensation drain hole can be incorporated in the dust protection ring for brakes L.

The enclosed brake can also be shipped in combination with a manual brake release lever and a manual brake release lever with locking mechanism.

Order code:

Enclosed brake	**C01**
Enclosed brake with condensation drain hole[1)]	**C11**

1) About FDX 30 brake,ask on request.

Corrosion protection

The brakes L&FDX are supplied with standard corrosion protection. A friction plate or adapter flange is always mounted between the mating friction surface (end shield on the ventilation side) and the rotor. The rotor is made of a rustproof material.

Brake cable protection

The brake cable of the geared motors is normally routed through the cable gland of the terminal box.

For motor frame sizes 63 to 132, we are offering an optional version of brake cable routing which ensures enhanced protection for the brake cable. In this version, the brake cable is brought into the motor directly under the fan cover through a hole in the base of the terminal box. This arrangement ensures that most of the cable is covered and protected against mechanical damage.

Order code:

Brake cable protection	**C80**

Brake options (continued)

Reduced-noise rotor-hub connection

The brakes are supplied with a reduced-noise rotor-hub connection. This reduces rattling noise of the rotor, particularly at low speeds and in inverter operation.

Brake options for motor frame sizes 63 to 250

Option	Brake type									
	L4	L8	L16	L32	L60	L80	L150	L260	L400	FDX30
Without rectifier	✓	✓	✓	✓	✓	✓	✓	✓	✓	O.R.
Rectifier for disconnection on the DC and AC sides	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Function rectifier for quick brake release and application[1)]	✓	✓	✓	✓	✓	✓	✓	✓	✓	O.R.
Standard friction lining	✓	✓	✓	✓	✓	✓	✓	✓	✓	O.R.
Microswitch for monitoring brake release	-	-	-	✓	✓	✓	✓	✓	✓	✓
Manual brake release	✓	✓	✓	✓	✓	✓	✓	✓	✓	O.R.
Manual brake release with locking mechanism	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Standard corrosion protection	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑
Enclosed brake	✓	✓	✓	✓	✓	✓	✓	✓	✓	O.R.
Enclosed brake with condensation drain hole	✓	✓	✓	✓	✓	✓	✓	✓	✓	O.R.
Brake cable protection	✓	✓	✓	✓	✓	✓	✓	✓	-	-

❑ Standard design
1) Not possible for UL-R or CSA versions

Possible modular system in combination with brake for motor frame sizes 63 to 250

Design	Motor plug	Encoder					Ventilation	Backstop	Second shaft extension
		Incremental encoder	Absolute encoder	Resolver	Encoder under cover without canopy	Encoder accessories	Self ventilation Forced ventilation		
Brake	✓	✓	✓		✓	✓	✓		✓
Manual brake release	✓	✓	✓	-	✓	✓	✓	-	✓
• Without locking mechanism	✓	✓	✓	-	✓	✓	✓	-	✓
• With locking mechanism	✓	✓	✓	-	✓	✓	✓	-	✓
Microswitch	✓	✓	✓	-	✓	✓	✓	-	✓
• Air flow monitoring[1)]	✓	✓	✓	-	✓	✓	✓	-	✓

1) Can be selected for brake type L32 or higher

Technical specifications [1)]

Braking torques as a function of speed and permissible speed limits with holding brake and emergency stop function

Brake type	Max. permissible no-load speed with emergency stop function	Braking torque measured at rated braking torque at 100 rpm		
	Friction lining			
	Standard	1 500 rpm	3 000 rpm	At max. idle speed
	rpm	%	%	%
L4	6 000	86	79	72
L8	5 000	84	77	71
L16	4 000	82	76	71
L32	3 600	80	74	71
L60	3 600	79	72	68
L80	3 600	78	71	65
L150	3 600	76	69	65
L260	3 600	74	67	65
L400	3 000	72	67	65
FDX30	3 000	70	67	65

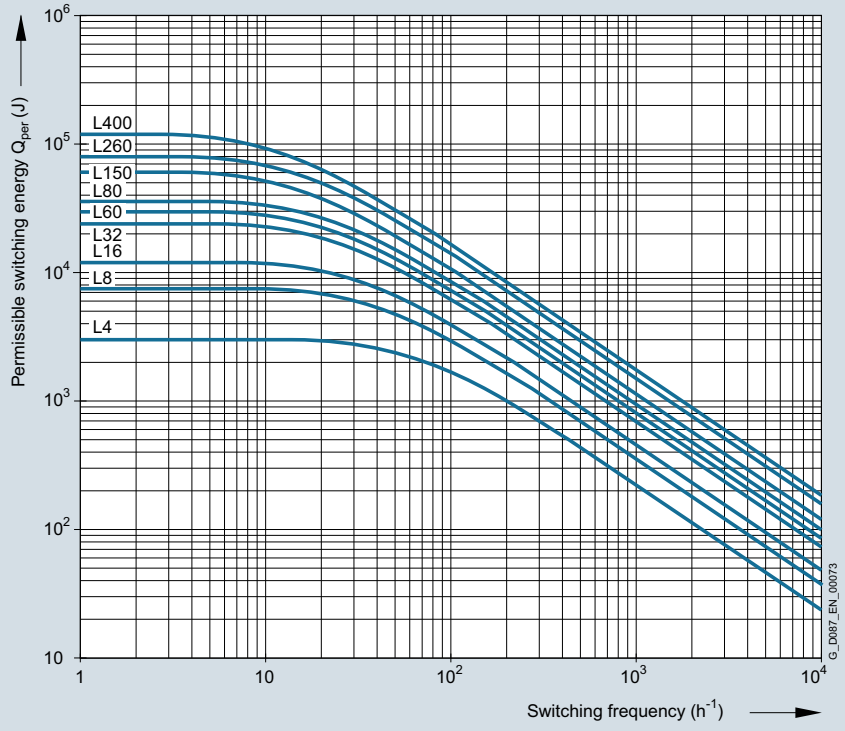


Fig. 9/48 Permissible operating energy

[1)] Values refer to brake in its delivery state

Technical specifications (continued) [1)]

Disconnection times, application times, and moments of inertia for brakes L

Brake type	Rated braking torque	Disconnection time		Applica-tion time	Response time	Rise time	Applica-tion time	Response time	Rise time	Weight	Moment of inertia
	T_{br}	t_2		$t_1 = t_{11} + t_{12}$	t_{11}	t_{12}	$t_1 = t_{11} + t_{12}$	t_{11}	t_{12}		J_B
	At 100 rpm	Standard excitation	Over-excitation	AC and DC switched or DC switched			AC switched				
	Nm	ms	ms	ms	ms	ms	ms	ms	ms	kg	10^{-4} kgm^2
L4/2	2.0	30	17	60	30	30	240	140	100	1.12	0.18
L4	4.0	40	28	30	15	15	170	80	90	1.12	0.18
L4/5	5.0	47	35	25	12	13	135	50	85	1.12	0.18
L8/5	5.0	37	18	56	28	28	270	170	100	1.96	0.61
L8	8.0	50	40	32	15	17	190	100	90	1.96	0.61
L8/10	10.0	70	45	28	13	15	155	80	75	1.96	0.61
L16/8	8.0	55	20	68	38	30	700	350	350	3.41	1.5
L16	16.0	69	35	45	25	20	550	250	300	3.41	1.5
L16/20	20.0	90	40	37	20	17	280	150	130	3.41	1.5
L32/14	14.0	80	45	115	65	50	800	500	300	5.2	3.5
L32	32.0	108	65	56	26	30	405	200	205	5.2	3.5
L32/40	40.0	150	75	48	22	26	325	135	190	5.2	3.5
L60/25	25.0	100	70	120	80	40	1 090	700	390	6.68	5.5
L60/38	38.0	140	75	82	52	30	780	470	310	6.68	5.5
L60	60.0	190	95	54	27	27	470	240	230	6.68	5.5
L80/50	50.0	150	70	140	90	50	1 290	640	650	9.15	12
L80	80.0	200	110	75	45	30	950	400	550	9.15	12
L80/100	100.0	230	130	65	40	25	650	250	400	9.15	12
L150/80	80.0	190	100	180	110	70	1 730	930	800	17.56	25
L150/100	100.0	200	108	135	85	50	1 630	850	780	17.56	25
L150/125	125.0	210	115	110	70	40	1 090	570	520	17.56	25
L150	150.0	260	130	85	50	35	940	450	490	17.56	25
L260/200	200.0	300	125	205	85	120	2 100	900	1 200	28.73	46
L260	260.0	340	150	165	65	100	1 660	560	1 100	28.73	46
L260/315	315.0	410	170	150	60	90	1 330	350	980	28.73	46
L400/300	300.0	360	180	290	150	140	2 500	1 200	1 300	45	140
L400	400.0	390	190	260	140	120	2 050	1 050	1 000	45	140
L400/600	600.0	580	300	245	130	115	1 300	400	900	45	140
FDX30/650	650.0	470	280	410	210	200	4 200	2 000	2 200	53	340
FDX30/750	750.0	500	290	350	170	180	3 600	1 700	1 900	53	340
FDX30/850	850.0	560	330	330	160	170	3 100	1 500	1 600	53	340

[1)] Values refer to brake in its delivery state

Technical specifications (continued) [1)]

Working capacity for brakes L

Brake type	Rated braking torque T_{br}	Power consumption	Working capacity			
			Per braking operation W_{1max}	Friction energy until the brake lining is replaced W_{tot}	Friction energy until the air gap is readjusted W_V	
	At 100 rpm	At +20 °C				With overexcitation
	Nm	W	kJ	MJ	MJ	MJ
L4/2	2	20	3	220	45	75
L4	4	20	3	220	45	75
L4/5	5	20	3	220	45	75
L8/5	5	25	7.5	310	65	100
L8	8	25	7.5	310	65	100
L8/10	10	25	7.5	310	50	100
L16/8	8	30	12	500	100	150
L16	16	30	12	500	100	150
L16/20	20	30	12	500	100	150
L32/14	14	40	24	1100	250	300
L32	32	40	24	1100	250	300
L32/40	40	40	24	1100	100	300
L60/25	25	50	28	1500	300	300
L60/38	38	50	28	1500	300	300
L60	60	50	28	1500	270	300
L80/50	50	55	36	2100	320	320
L80	80	55	36	2100	320	320
L80/100	100	55	36	2100	320	320
L150/80	80	85	60	2600	520	520
L150/100	100	85	60	2600	520	520
L150/125	125	85	60	2600	520	520
L150	150	85	60	2600	520	520
L260/200	200	100	80	4200	630	630
L260	260	100	80	4200	630	630
L260/315	315	100	80	4200	580	630
L400/300	300	110	120	5500	900	900
L400	400	110	120	5500	900	900
L400/600	600	110	120	5500	300	400
FDX30/650	650	200	120	8000	1000	1000
FDX30/750	750	200	120	8000	1000	1000
FDX30/850	850	200	120	8000	1000	1000

[1)] Values refer to brake in its delivery state

Technical specifications (continued) [1)]

No-load switching frequency for brakes L

Motor type	Power	Brake type	Overexcitation							
	4-pole		Without	With	Without	With	Without	With	Without	With
	At 50 Hz		**No-load switching frequency (Z_A)**							
	kW		1/h	1/h	1/h	1/h	1/h	1/h	1/h	1/h
			4-pole		**2-pole**		**6-pole**		**8-pole**	
LHN63...	0.09 0.12 0.18	L4/5, L4	-	-	-	-	-	-	-	-
		L4/2	-	-	-	-	-	-	-	-
LHN71...	0.25	L4/5, L4	7 300	9 500	2 500	3 200	10 500	14 000	14 500	19 000
	0.37	L4/2	12 500	13 500	4 300	4 500	18 500	20 000	25 000	27 000
		L8/10, L8	6 000	7 600	1 800	2 500	9 000	11 000	12 000	15 000
		L8/5	8 900	11 000	2 900	3 500	13 000	16 000	17 500	22 000
LHN80...E LEN80...E LEN80...P	0.55	L4/5, L4	9 000	9 500	2 900	3 100	13 500	14 000	-	-
	0.75	L4/2	10 500	11 500	3 500	3 800	15 500	16 500	-	-
		L8/10, L8	6 300	7 500	2 100	2 500	9 400	11 000	-	-
		L8/5	9 500	10 000	3 100	3 300	14 000	15 000	-	-
		L16	6 500	7 500	2 100	2 500	9 700	11 000	-	-
		L16/8	7 500	8 000	2 500	2 600	11 000	12 000	-	-
LHN90...E LEN90...E LEN90...P	1.1	L8/10, L8	6 500	7 000	2 100	2 300	9 700	10 500	-	-
	1.5	L8/5	8 000	8 500	2 600	2 800	12 000	12 500	-	-
		L16/20, L16	3 200	4 300	1 000	1 400	4 800	6 400	-	-
		L16/8	6 500	7 000	2 100	2 300	9 700	10 500	-	-
		L32	2 200	3 000	700	1 000	3 300	4 500	-	-
		L32/14	5 500	6 000	1 800	2 000	8 200	12 000	-	-
LHN100...E LEN100...E LEN100...P	2.2	L16/20, L16	6 000	6 500	2 000	2 100	9 000	9 700	12 000	13 000
	3.0	L16/8	6 500	7 000	2 100	2 300	9 700	10 500	14 000	14 000
		L32/40, L32	3 200	4 600	1 000	1 500	4 800	6 900	6 400	9 200
		L32/14	6 000	6 500	2 000	2 100	9 000	9 700	12 000	13 000
		L60/38, L60/25	3 200	4 600	1 000	1 500	4 800	6 900	9 200	9 200
LHN112... LEN112...E LEN112...P	4.0	L32/40, L32	3 300	3 500	1 100	1 100	4 900	5 200	6 600	7 000
		L32/14	3 600	3 800	1 200	1 200	5 400	5 700	7 600	7 600
		L60	2 600	3 200	850	1 050	3 900	4 800	5 200	6 400
		L60/38, L60/25	3 200	3 600	1 050	1 200	4 800	5 400	7 200	7 200
LHN132... LEN132...E LEN132...P	5.5	L80/100, L80	1 850	2 050	600	6 500	2 700	3 000	3 700	4 100
	7.5	L80/50	2 050	2 200	650	700	3 000	3 300	4 100	4 400
	9.2 (just for LEN132...E)	L150, L150/125	1 200	1 500	400	500	1 800	2 200	2 400	3 000
		L150/100, L150/80	1 900	2 050	600	650	2 800	3 000	3 800	4 100
LHN160... LEN160...E LEN160...P	11.0	L150, L150/125	1 400	1 550	450	500	2 100	2 300	2 800	3 100
	15.0	L150/100, L150/80	1 650	1 750	550	550	2 400	2 600	3 300	3 500
	9.2 (just for LEN160...P)	L260	850	1 200	250	400	1 200	1 800	1 700	2 400
		L260/200	1 050	1 300	350	400	1 500	1 900	2 100	2 600
LHN180... LEN180...E LEN180...P	18.5	L260/315, L260	500	550	320	330	750	800	1 000	1 100
	22.0	L260/200	550	600	174	200	800	900	1 100	1 200
LHN200... LEN200...E LEN200...P	30.0	L260/315, L260	450	500	150	150	650	750	900	1 000
		L260/200	500	525	150	175	750	750	1 000	1 050
		L400, L400/300	400	425	125	125	600	600	800	850

Conversion factors for no-load switching frequency:
60 Hz operation 0.75 x Z_A

[1)] Values refer to brake in its delivery state

Overview

Encoder	Motor frame size												Order code	Technical information
	63	71	80	90	100	112	132	160	180	200	225	250		→ page
Incremental encoder														
TTL1024S/R KD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q44**	page 9/36
HTL1024S/R KD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q47**	page 9/36
HTL2048S/R KD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q48**	page 9/36
TTL1024S/R LC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q31**	page 9/38
HTL1024S/R LC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q32**	page 9/38
Resolver [1]														
1XP8013-10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q85**	page 9/40
1XP8023-11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q86**	page 9/40
1XP8013-11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q87**	page 9/40
1XP8023-10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q88**	page 9/40
Absolute encoder														
1XP8024-21	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q79**	page 9/42
1XP8014-20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓[2]	✓[2]	**Q80**	page 9/41
1XP8024-20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓[2]	✓[2]	**Q81**	page 9/41
1XP8014-10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓[2]	✓[2]	**Q82**	page 9/41
1XP8024-10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓[2]	✓[2]	**Q83**	page 9/41
Rugged encoders														
Leine und Linde LL 861 900 220						✓	✓	✓	✓	✓	✓	✓	**Q92**	page 9/43
Hübner HOG 9 D 1024						✓	✓	✓	✓	✓	✓	✓	**Q93**	page 9/43
Hübner HOG 10 D 1024							✓	✓	✓	✓	✓	✓	**Q94**	page 9/44
Mechanical protection														
Encoder under cover		✓	✓	✓	✓	✓	✓	✓	✓	✓			**Q95**	page 9/48

[1] Cannot be selected in combination with brake
[2] Can only be selected in combination with brake

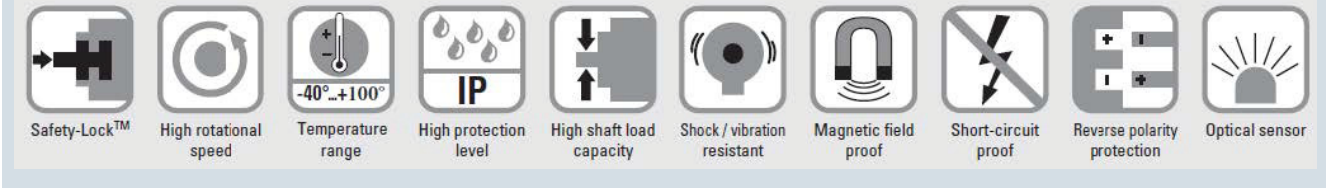
Incremental encoders

Incremental encoder TTL1024S/R KD, HTL1024S/R KD, HTL2048S/R KD



Due to their sturdy bearing construction in Safety Lock™ Design, the TTL1024S/R KD, HTL1024S/R KD, HTL2048S/R KD offer high resistance against vibration and installation errors.

The rugged housing, high protection level of up to IP66/IP67, as well as the wide temperature range of 40°C up to +100°C, make this product range the perfect encoder for all applications.



Robust performance

- Increased resistance against vibrations and tolerance of installation errors, elimination of machine downtime and repairs thanks to sturdy bearing construction in “Safety LockTM Design”.
- Ensures highest safety against field breakdowns and is thus suitable also for outside use thanks to its resistant die cast housing and protection up to IP66/ IP67.
- Undetachable clamping ring on hollow shaft encoders.
- Wide temperature range, 40°C ... +100°C.
- Higher shock resistance.
- Higher vibration resistance.

Many variants

- Reliable mounting in a wide variety of installation situations: comprehensive and proven fixing possibilities.
- Compatible with all US and European standards.
- Max. 5000 pulses per revolution.

Technical data

Mechanical characteristics		
Maximum speed		5000 min^{-1}(continuous)
Moment of inertia		Approx. $6\times10^{-6}kgm^2$
Starting torque at 20°C		<0.01Nm
Weight		Approx. 0.4kg
Protection acc.to EN 60529		IP66/IP67
Working temperature range		-40°C…+100°C[1]
Material	shaft	Stainless steel
	housing	Zinc diecast
Connection		tangential cable, 0.8 m, with M23 connector, 12pin
Shock resistance acc.to EN 60068-2-27		3000m/s^2, 6ms
Vibration resistance acc.to EN 60068-2-6		300m/s^2, 10…2000Hz

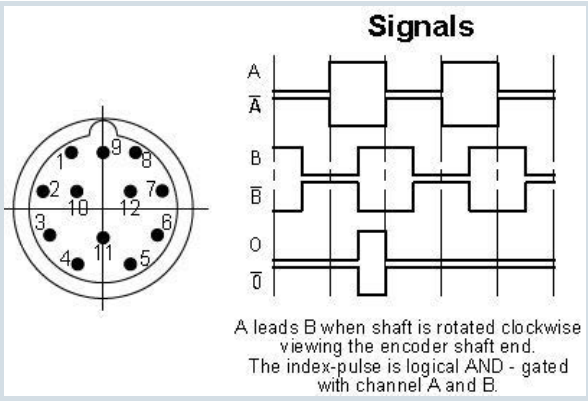
[1] non-condensing, measured on flange

Electrical characteristics			
Order code		Q44	Q47/Q48
Pulse rate		1024	1024/2048
Output circuit		RS422(TTL compatible)	PUSH-PULL
Power supply		5V DC(±5%)	10…30V DC
Power consumption		Typ. 40mA	Typ. 50mA
		Max. 90mA	Max. 100mA
Permissible load/channel		Max. ±20mA	Max. ±20mA
Pulse frequency		Max. 300kHz	Max. 300kHz
Signal level	HIGH	Min. 2.5V	Min. +V-1V
	LOW	Max. 0.5V	Max. 0.5V
Rising edge time t_r		Max. 30ns[1]	Max. 200ns[2]
Falling edge time t_f		Max. 30ns[1]	Max. 200ns[2]
Short circuit proof outputs [3]		Yes[4]	Yes
Reverse polarity protection of the power supply(V+)		No	Yes
UL approval		File 224618	
CE compliant acc.to		EMC guideline 2014/30/EU	
		RoHS guideline 2011/65/EU	

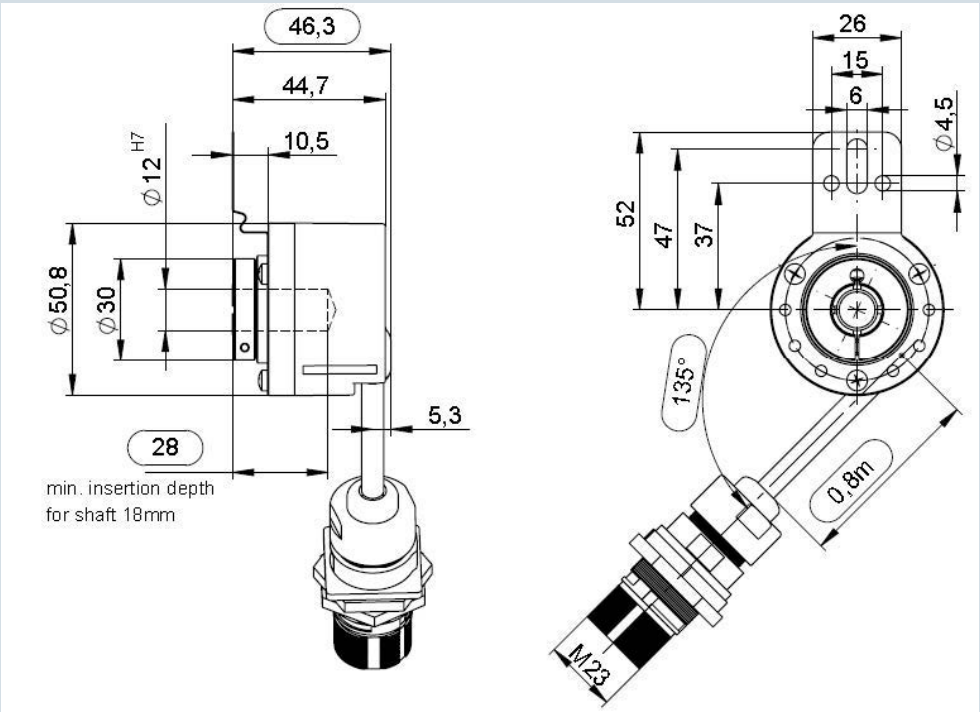
[1] 1m cable,120Ω terminating resistor
[2] 1m cable,1.2kΩ load resistor
[3] If power supply correctly applied
[4] Only one channel allowed to be shorted-out.
If +V=5V DC, short-circuit to channel, 0V, or +V is permitted
If +V=5…30V DC, short-circuit to channel, 0V, or 0V is permitte

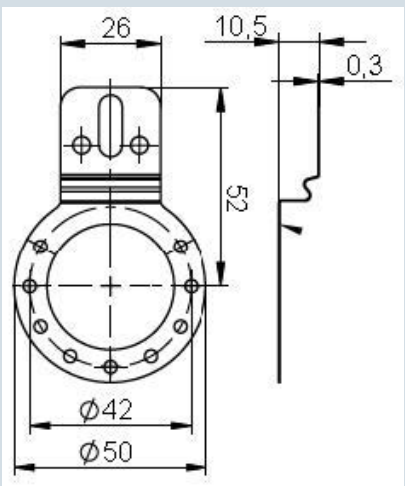
Terminal assignment

Terminal assignment	
connector M23, 12-pole	
pin	**signal**
1	$\overline{B}$
2	+ Vsens
3	0
4	$\overline{0}$
5	A
6	$\overline{A}$
7	-
8	B
9	-
10	0 V
11	0 Vsens
12	+ V



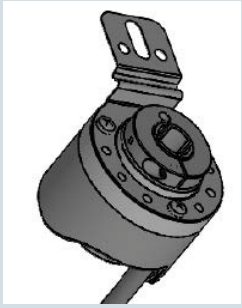
Dimensions (mm)





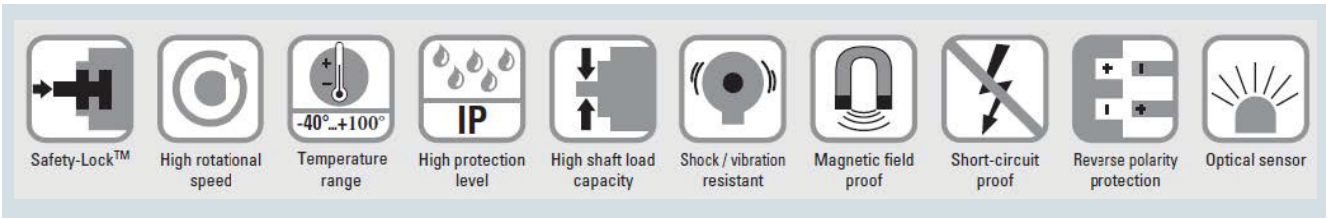
Incremental encoders

Incremental encoder HTL1024S/R LC, TTL1024S/R LC



Due to their sturdy bearing construction in Safety Lock™ Design, HTL1024S/R LC, TTL1024S/R LC offer high resistance against vibration and installation errors.

The rugged housing, high protection level of up to IP66/IP67, as well as the wide temperature range of 40°C up to +100°C, make this product range the perfect encoder for all applications.



Robust performance

- Increased resistance against vibrations and tolerance of installation errors, elimination of machine downtime and repairs thanks to sturdy bearing construction in “Safety LockTM Design”.
- Ensures highest safety against field breakdowns and is thus suitable also for outside use thanks to its resistant die cast housing and protection up to IP66/ IP67.
- Undetachable clamping ring on hollow shaft encoders.
- Wide temperature range, 40°C ... +100°C.
- Higher shock resistance.
- Higher vibration resistance.

Many variants

- Reliable mounting in a wide variety of installation situations: comprehensive and proven fixing possibilities.
- Compatible with all US and European standards.
- Max. 5000 pulses per revolution.

Technical data

Mechanical characteristics		
Maximum speed		5000 min^{-1}(continuous)
Moment of inertia		Approx. $6\times10^{-6}kgm^2$
Starting torque at 20°C		<0.05Nm
Weight		Approx. 0.4kg
Protection acc.to EN 60529		IP66/IP67
Working temperature range		-40°C…+100°C[1]
Material	shaft	Stainless steel
	housing	Zinc diecast
	cable	PUR
Connection		tangential cable, 2 m, PUR
Shock resistance acc.to EN 60068-2-27		3000m/s^2, 6ms
Vibration resistance acc.to EN 60068-2-6		300m/s^2, 10…2000Hz

[1] non-condensing, measured on flange

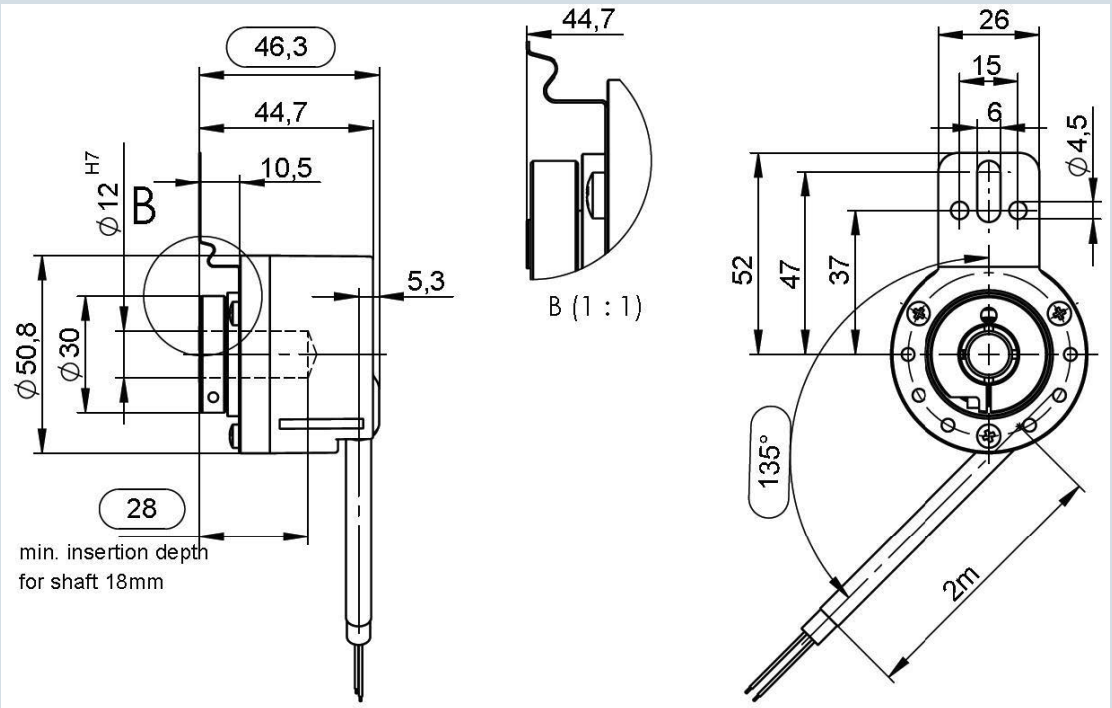
Electrical characteristics			
Order code		Q31	Q32
Pulse rate		1024	1024
Output circuit		RS422 (TTL compatible)	PUSH-PULL
Power supply		5V DC(±5%)	10…30V DC
Power consumption		Typ. 40mA	Typ. 50mA
		Max. 90mA	Max. 100mA
Permissible load/channel		Max. ±20mA	Max. ±20mA
Pulse frequency		Max. 300kHz	Max. 300kHz
Signal level	HIGH	Min. 2.5V	Min. +V-1V
	LOW	Max. 0.5V	Max. 0.5V
Rising edge time t_r		Max. 30ns[1]	Max. 200ns[2]
Falling edge time t_f		Max. 30ns[1]	Max. 200ns[2]
Short circuit proof outputs [3]		Yes[4]	Yes
Reverse polarity protection of the power supply(V+)		No	Yes
UL approval		File 224618	
CE compliant acc.to		EMC guideline 2014/30/EU	
		RoHS guideline 2011/65/EU	

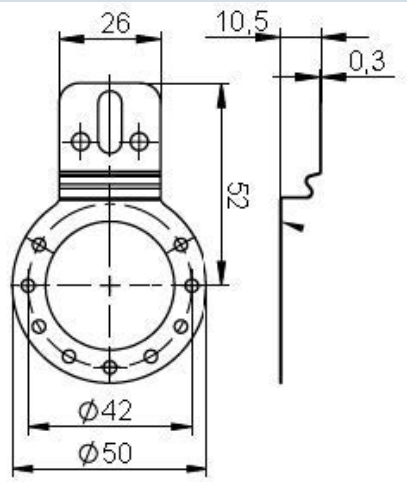
[1] 1m cable,120Ω terminating resistor
[2] 1m cable,1.2kΩ load resistor
[3] If power supply correctly applied
[4] Only one channel allowed to be shorted-out.
If +V=5V DC, short-circuit to channel, 0V, or +V is permitted
If +V=5…30V DC, short-circuit to channel, 0V, or 0V is permitte

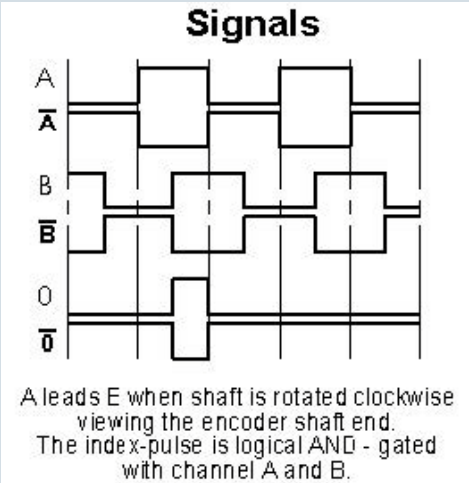
Terminal assignment

Signal	$\overline{B}$	+Vsens	0	$\overline{0}$	A	$\overline{A}$	B	0V	0Vsens	+V
Colour	PK	BN	BU	RD	GN	YE	GY	WH GN	WH	BN GN

Dimensions (mm)







Encoder

Resolvers 1XP8013 and 1XP8023 [1)]

Resolvers are available up to motor frame size 200.

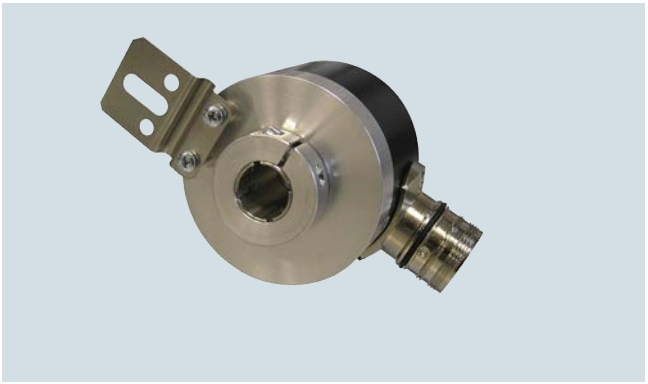


Fig. 9/49 Resolver 1XP8013

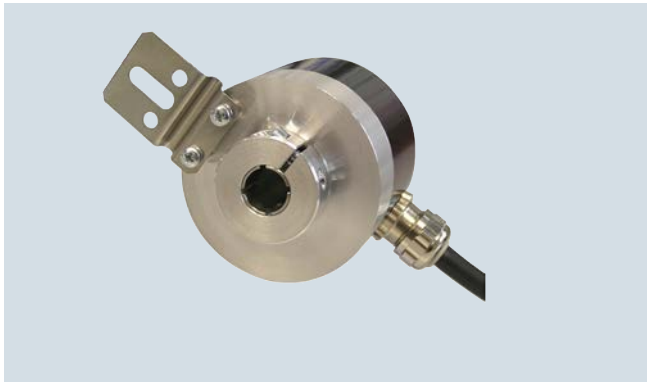


Fig. 9/50 Resolver 1XP8023

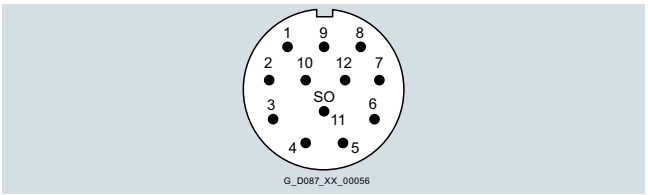
Technical specifications

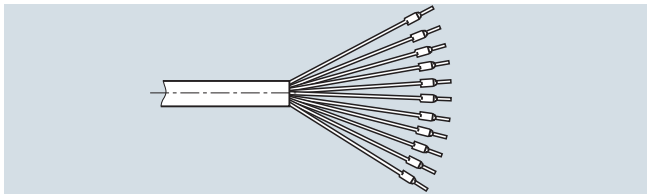
Resolver	**1XP8013-10**	**1XP8023-10**	**1XP8013-11**	**1XP8023-11**
Input voltage	7 V_{RMS}		7 V_{RMS}	
Current consumption (maximum)	120 mA		65 mA	
Input frequency	5 kHz		10 kHz	
Phase shift	0° (+25°)		0° (± 10 °)	
Zero voltage (maximum)	50 mV		50 mV	
Pole pairs	1		1	
Primary side	R1 - R2		R1 - R2	
Impedance				
Z_{ro}	55 + j50 (± 20 %) Ω		70 + j100 (± 20 %) Ω	
Z_{so}	115 + j175 (± 20 %) Ω		180 + j300 (± 20 %) Ω	
Z_{ss}	115 + j160 (± 20 %) Ω		175 + j275 (± 20 %) Ω	
DC resistance				
Rotor	36 (± 10 %) Ω		36 (± 10 %) Ω	
Stator	60 (± 10 %) Ω		60 (± 10 %) Ω	
Maximum permissible mechanical speed	≤ 8 000 rpm		≤ 8 000 rpm	
Permissible electrical speed	≤ 8 000 rpm		≤ 8 000 rpm	
Vibration (55 … 2 000 Hz)	≤ 100 m/s²		≤ 100 m/s²	
Shock (6 ms)	≤ 1 000 m/s²		≤ 1 000 m/s²	
Connection system → page 9/47	Flange socket, 0° coding	1 m cable with coupling socket	Flange socket, 0° coding	1 m cable with coupling socket
Degree of protection	IP65		IP65	
Ambient temperature range	-20 °C to +40 °C			
Weight, approx.	320 g	500 g	320 g	500 g
Certification	CE, cUL-Rus			
Order code	**Q85 [1)]**	**Q88 [1)]**	**Q87 [1)]**	**Q86 [1)]**

[1)] For worm geared motors S, the resolver is available only for motor frame size 71.

Connection assignment

For cable available as an option, see „Encoder accessories (continued)“ from page 9/51.





	Input voltage		**Sine tap**		**Cosine tap**	
Connection	R1	R2	S1	S3	S2	S4
Flange socket	10	7	11	12	1	2
Core color	pink	white	red	blue	yellow	violet

[1)] Resolver cannot be combined with brake motor

Absolute encoders 1XP8014 and 1XP8024

Absolute encoders are available up to motor frame size 250.

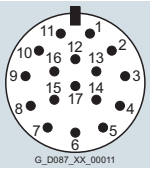
The multiturn absolute encoder can be shipped with EnDAT protocol or SSI protocol and mounted on the shaft.

Technical specifications

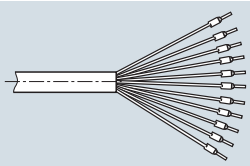
Absolute encoder	**1XP8014-20**	**1XP8024-20**	**1XP8014-10**	**1XP8024-10**
Supply voltage U_B	10 … 30 V		5 V ± 5 %	
Maximum current consumption without load	≤ 200 mA			
Absolute position values	SSI		EnDAT 2.1	
• Code	Gray		Dual	
• Positions per revolution	8 192 (13 bit)			
• Differentiable revolutions	4 096			
Incremental signals	~1 V_{PP}			
• Pulses per revolution	512		2 048	
• Outputs	Sine/cosine pulses A, B			
• Limit frequency -3 dB	≥ 200 kHz			
• Signal size	0.8 … 1.2 V_{PP}			
Moment of inertia of rotor	4.3 x 10^{-6} kgm^2			
Maximum permissible mechanical speed	≤ 6 000 rpm			
Permissible electrical speed with system accuracy	≤ 1 500 rpm/± 1 LSB ≤ 10 000 rpm/± 50 LSB			
Vibration (55 … 2 000 Hz)	15 g	30 g	15 g	30 g
Shock (6 ms)	100 g			
Degree of protection	IP66			
Ambient temperature range	-20 °C to +40 °C			
Connection system → page 9/47	Flange socket, 17-pole with 0° coding	1 m cable with coupling socket	Flange socket, 17-pole with 0° coding	1 m cable with coupling socket
Weight, approx.	0.3 kg			
Certification	CE, cUL-Rus			
Order code	**Q80** [1]	**Q81** [1]	**Q82** [1]	**Q83** [1]

[1] For worm geared motors S, the absolute encoder is available only for motor frame size 71.

Connection assignment



For cable available as an option, see „Encoder accessories (continued)“ from page 9/51.



	Voltage supply					**Incremental signals**				**Absolute position values**				**Other signals**	
Connection	U_B	Sensor U_B	0 V	Sensor 0 V	Inner shield	A+	A-	B+	B-	DATA	$\overline{DATA}$	CLOCK	$\overline{CLOCK}$	Rot. direction	Zeros
Flange socket (SSI)	7	1	10	4	11	15	16	12	13	14	17	8	9	2	5
Core color	brown/ green	blue	white/ green	white		green/ black	yellow/ black	blue/ black	red/ black	gray	pink	violet	yellow	black	green

	Voltage supply					**Incremental signals**				**Absolute position values**					
Connection	U_B	Sensor U_B	0 V	Sensor 0 V	Inner shield	A+	A-	B+	B-	DATA	$\overline{DATA}$	CLOCK	$\overline{CLOCK}$	-	-
Flange socket (EnDAT 2.1)	7	1	10	4	11	15	16	12	13	14	17	8	9		
Core color	brown/ green	blue	white/ green	white		green/ black	yellow/ black	blue/ black	red/ black	gray	pink	violet	yellow	black	green

Absolute encoder 1XP8024-21

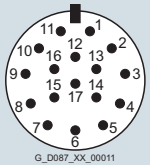
The absolute encoder is available with SSI protocol and HTL incremental signals up to motor frame size 200.

Technical specifications

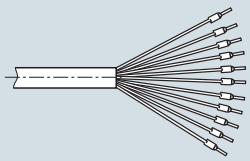
Absolute encoder	**1XP8024-21**
Supply voltage U_B	10 … 30 V
Maximum current consumption without load	28 mA at 24 V
Absolute position values	SSI
• Code	Gray
• Positions per revolution	8 192 (13 bit)
• Differentiable revolutions	4 096
• Calculation time t_{cal}	≤ 5 µs
Incremental signals	HTL
• Outputs	2 short-circuit-proof square-wave pulses U_{a1}, U_{a2} (maximum 1 min) 2 short-circuit-proof square-wave pulses $\overline{U_{a1}}$, $\overline{U_{a2}}$ (maximum 1 min)
• Signal level	U_{High} U_B - 2.5 V I_{High} = 20 mA U_{Low} ≤ 1.6 V I_{Low} = 20 mA
• Pulses per revolution	2 048
• Sampling rate	≥ 205 kHz
• Edge interval	0.43 µs
Starting torque at 20 °C	≤ 0.01 Nm
Moment of inertia of rotor	4.3 x 10^{-6} kgm^2
Maximum permissible mechanical speed	≤ 6 000 rpm
Vibration (55 … 2 000 Hz)	≤ 150 m/s^2 (EN 60068-2-6)
Shock (6 ms)	≤ 1 000 m/s^2 (EN 60068-2-27)
Degree of protection	IP66
Ambient temperature range	-20 °C to +40 °C
Connection system ➞ page 9/47	1 m cable with 17-pole coupling socket, 0° coding
Weight, approx.	0.3 kg
Certification	CE, cUL-Rus
Order code	**Q79** [1]

[1] For worm geared motors S, the absolute encoder can only be selected for motor frame size 71.

Connection assignment



For cable available as an option, see „Encoder accessories (continued)“ from page 9/51.



	Voltage supply					**Incremental signals**				**Absolute position values**				**Other signals**	
Connection	U_B	Sensor U_B	0 V	Sensor 0 V	Inner shield	U_{a1}	$\overline{U_{a1}}$	U_{a2}	$\overline{U_{a2}}$	DATA	$\overline{DATA}$	CLOCK	$\overline{CLOCK}$	Count. direction	Zeros
Flange socket (SSI)	7	1	10	4	11	15	16	12	13	14	17	8	9	2	5
Core color	brown/ green	blue	white/ green	white		green/ black	yellow/ black	blue/ black	red/ black	gray	pink	violet	yellow	black	green

Rugged encoders

Rotary pulse encoder LL 861 900 220



Fig. 9/51 Leine und Linde LL 861 900 220

With its rugged design, this rotary pulse encoder is also suitable for demanding operating environments. It is resistant to shock and vibration and has insulated bearings.

The rotary pulse encoder LL 861 900 220 is available in combination with self-ventilated motors in frame size 112 or larger, or in combination with forced-ventilated motors in frame size 160 or larger.

The version of the rotary pulse encoder with a diagnostics system (ADS) can be supplied by Leine and Linde.

Technical specifications

Supply voltage U_B	**+9 … +30 V**
Current consumption without load	max. 80 mA
Permissible load current per output	40 mA
Pulses per revolution	1 024
Outputs	6 short-circuit-proof square-wave pulses A, A', B, B', 0, 0', high current HTL
Pulse offset between the two outputs	90° ± 25° electrical
Output amplitude	$U_{High} \geq U_B$ - 4 V $U_{Low} \leq$ 2.5 V
Pulse duty factor	1:1 ± 10 %
Rate of change	50 V/µs (without load)
Maximum frequency	100 kHz for 350 m cable
Maximum speed	4 000 rpm
Degree of protection	IP66
Ambient temperature range	-20 °C to +40 °C
Maximum permissible radial cantilever force	300 N
Maximum permissible axial force	100 N
Connection system → page 9/47	Terminal strips in the encoder Cable connection, M20 x 1.5 radial
Weight, approx.	1.3 kg
Order code	**Q92**

Manufacturer:
Leine und Linde (Germany) GmbH
Bahnhofstrasse 36
73430 Aalen, Germany
Phone: +49 (0) 73 61-78093-0
Fax: +49 (0) 73 61-78093-11
www.leinelinde.com
E-mail: info@leinelinde.de

Rotary pulse encoder HOG9 D 1024 I

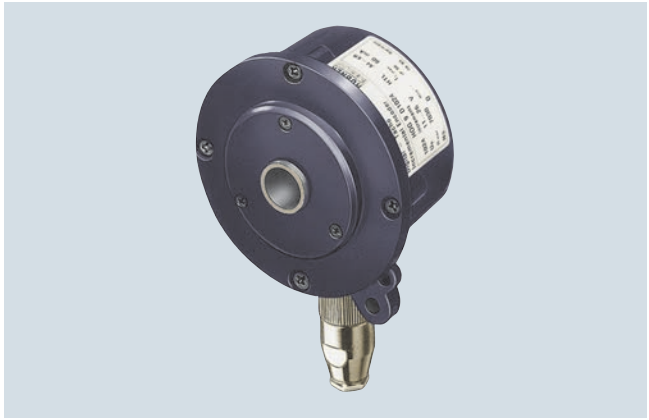


Fig. 9/52 Hübner HOG9 D 1024 I

The encoder is equipped with insulated bearings.

The rotary pulse encoder HOG9 D 1024 I is available in combination with self-ventilated motors in frame size 112 or larger, or in combination with forced-ventilated motors in frame size 160 or larger.

Technical specifications

Supply voltage U_B	**+9 … +30 V**
Current consumption without load	50 … 100 mA
Permissible load current per output	60 mA, 300 mA peak
Pulses per revolution	1 024
Outputs	4 short-circuit-proof square-wave pulses A, B and A', B'
Pulse offset between the two outputs	90° ± 20°
Output amplitude	$U_{High} \geq U_B$ - 3.5 V $U_{Low} \leq$ 1.5 V
Pulse duty factor	1:1 ± 20 %
Rate of change	10 V/µs (without load)
Maximum frequency	120 kHz
Maximum speed	7 000 rpm
Degree of protection	IP56
Ambient temperature range	-20 °C to +40 °C
Maximum permissible radial cantilever force	300 N
Maximum permissible axial force	200 N
Connection system → page 9/47	Radial connector (mating connector is part of the scope of delivery)
Mechanical design acc. to Hübner Ident. No.	73 522 E
Weight	0.7 kg
Order code	**Q93**

Manufacturer:
Baumer Hübner GmbH
Max-Dohrn-Str. 2+4
10589 Berlin, Germany
Phone: +49 (0) 30-6 90 03-0
Fax: +49 (0) 30-6 90 03-1 04
www.baumerhuebner.com
E-mail: info@baumerhuebner.com

Rugged encoders (continued)

Rotary pulse encoder HOG10 D 1024 I

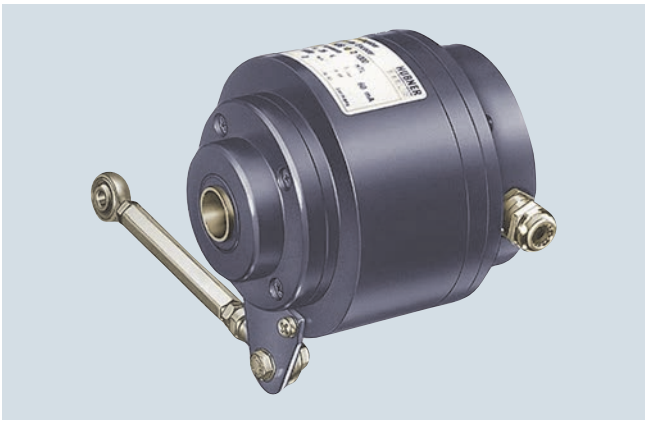


Fig. 9/53 Hübner HOG10 D 1024 I

This encoder is extremely rugged and is therefore suitable for harsh operating conditions. It is equipped with insulated bearings.

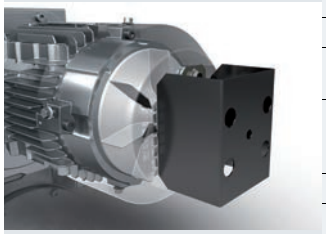
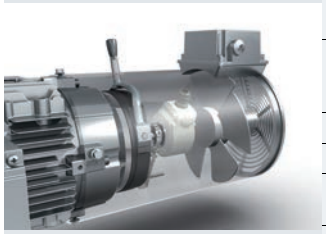
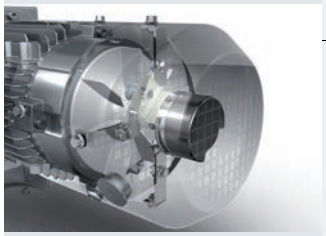
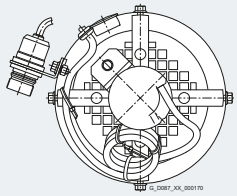
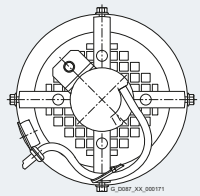
The rotary pulse encoder HOG10 D 1024 I is available for motor frame size 132 and higher.

Technical specifications

Supply voltage U_B	**+9 ... +30 V**
Current consumption without load	Approx. 100 mA
Permissible load current per output	60 mA, 300 mA peak
Pulses per revolution	1 024
Outputs	4 short-circuit-proof square-wave pulses A, B and A', B'
Pulse offset between the two outputs	90° ± 20 %
Output amplitude	$U_{High} \geq U_B$ - 3.5 V $U_{Low} \leq$ 1.5 V
Pulse duty factor	1:1 ± 20 %
Rate of change	10 V/µs (without load)
Maximum frequency	120 kHz
Maximum speed	7 000 rpm
Degree of protection	IP66
Ambient temperature range	-20 °C to +40 °C
Maximum permissible radial cantilever force	400 N
Maximum permissible axial force	250 N
Connection system ➞ page 9/47	Terminals, cable connection M20x1.5
Mechanical design acc. to Hübner Ident. No.	74 055 E
Weight, approx.	1.6 kg
Order code	**Q94**

Manufacturer:
Baumer Hübner GmbH
Max-Dohrn-Str. 2+4
10589 Berlin, Germany
Phone: +49 (0) 30-6 90 03-0
Fax: +49 (0) 30-6 90 03-1 04
www.baumerhuebner.com
E-mail: info@baumerhuebner.com

Mechanical protection

Design	Figure	Encoder type	Encoder order code	Connection system	Mounting of flange/coupling socket
Protection plate					
For self-ventilated motors up to frame size 200, the encoder is mounted outside the fan cover. In the standard version, the encoder is covered by a protective metal plate (painted red).		1XP8014-..	**Q80, Q82**	Flange socket	
		1XP8013-..	**Q85, Q87**		
		TTL1024S/R LC HTL1024S/R LC	**Q31** **Q32**	2m cable with end sleeves	
		TTL1024S/R KD HTL1024S/R KD HTL2048S/R KD	**Q44, Q47, Q48**	0.8 m cable + coupling socket	
		1XP8024-..	**Q79, Q81, Q83**	1 m cable + coupling socket	
		1XP8023-..	**Q86, Q88**		
Fan cover of the motor (with separately driven fan)					
For force-ventilated motors the encoder is mounted inside the fan cover.		TTL1024S/R LC HTL1024S/R LC	**Q31** **Q32**	2m cable with end sleeves	
		TTL1024S/R KD HTL1024S/R KD HTL2048S/R KD	**Q44, Q47, Q48**	0.8 m cable + coupling socket	The coupling socket is attached to the motor cooling fins using a claw.
		1XP8024-..	**Q79, Q81, Q83**	1 m cable + coupling socket	The cable is freely fed out of the fan cover.
		1XP8023-..	**Q86, Q88**		
		Leine & Linde LL 861 900 220	**Q92**	Cable terminal box	
		HOG9 D 1021 I	**Q93**	Flange socket	
		HOG10 D 1021 I	**Q94**	Cable terminal box	
Encoder under cover					
Optionally, for motor frame sizes 71 to 200, instead of the protective metal plate, a protective cover can be ordered. This provides additional mechanical protection for the encoder. Order code for encoder under cover: **Q95**		TTL1024S/R LC HTL1024S/R LC	**Q31** **Q32**	2m cable with end sleeves	
		TTL1024S/R KD HTL1024S/R KD HTL2048S/R KD	**Q44, Q47, Q48**	0.8 m cable + coupling socket	The coupling socket is attached to the cover by a bracket. 
		1XP8024-..	**Q79, Q81, Q83**	1 m cable + coupling socket	The cable is brought out through a cutout with protective envelope. 
		1XP8023-..	**Q86, Q88**		

9

Motors prepared for encoder mounting

The interface for the modular encoder-mounting shaft is designed for a total maximum weight of m = 500g. The connections and wiring for the encoder system must be selected such that the rotary encoder is not subjected to any additional forces. The encoder must be mounted in such a way that normal linear expansion does not subject the torque arm to any impermissible forces.

In the delivery state, the encoder-mounting shaft has a maximum radial runout of ≤ 0.1 mm. When the encoder is selected, it must be ensured that the minimum immersion depth of the solid shaft into the hollow shaft corresponds to the encoder manufacturer's specifications. The encoder manufacturer's instructions and recommendations must also be observed.

The interface "Prepared for encoder mounting" is always shipped with an encoder protection device for protection during transportation. The encoder protection device should be used in order to protect the mounted encoder and the mounting system against mechanical damage.

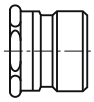
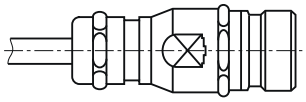
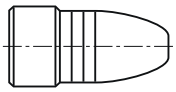
This option is suitable for applications with medium shock and vibration requirements. At medium cycle frequencies of the application, speeds up to 3 600 rpm are possible.

Order code:

Prepared for encoder mounting (12 mm)	**N50**

Encoder accessories

Connection system

Connection system	Description	Design
M23 flange socket		
	The flange socket is mounted directly on the encoder.	Pin contacts External thread
M23 coupling socket		
	The coupling socket is connected to the encoder via a cable.	Pin contacts External thread
M23 connector		
	The connector is connected to the flange/ coupling socket.	Socket contacts Union nut

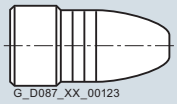
Technical specifications

	Cable suitable for cable carriers	Cable unsuitable for cable carriers
Approvals		
• VDE	yes	yes
• cULus or UL/CSA	yes	yes
• UL-CSA File No.	AWM STYLE 20963 80 °C 30 V E63216	E242293
Operating temperature on the surface		
• Permanently installed	-40 °C ... +80 °C	-40 °C ... +100 °C
• Moving	-10 °C ... +80 °C	-30 °C ... +100 °C
Smallest bending radius		
• Permanently installed	≥ 70 mm	≥ 35 mm
• Moving	≥ 100 mm	≥ 70 mm
Bending operations	Typ. 5 x 10^6 cycles	-
Oil resistance	EN 50363-10-2	Oil-resistant
Outer jacket	Polyurethane (PUR)	Polyurethane (PUR)
Design	4x2x0,14+4x0.5 (for incremental encoder) 4x2x0,14+4x0.5+4x0.5 (for absolute encoder)	5x2x0.14 mm^2
Outer diameter	8 mm	7 mm ± 0.2 mm

Connector

A straight connector for shielded cables up to 8 mm in diameter is available for encoders with flange/coupling socket.

Selection table



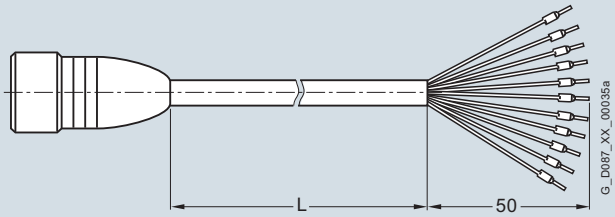
Encoder type	Order code Article No.
	M23 connector
Incremental encoders TTL1024S/R KD, HTL1024S/R KD, HTL2048S/R KD Resolvers 1XP8013 and 1XP8023	**Q62** FDU:55190000565002
Absolute encoders 1XP8014, 1XP8024	**Q62** FDU:55190000565003

Encoder accessories (continued)

Cable with end sleeves

A pre-assembled cable with end sleeves and three different cable lengths can be supplied for the encoders.

Selection table

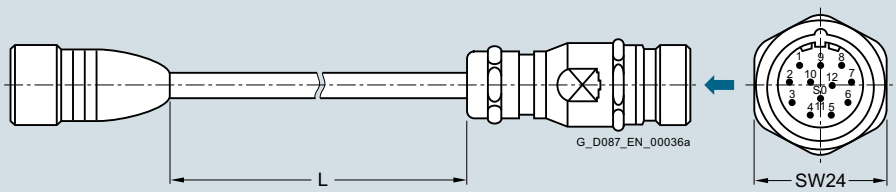


Encoder type	Suitable for cable carrier Yes/no	Order code Article No.		
Free cable length L			**8 m**	**15 m**
Incremental encoders TTL1024S/R KD, HTL1024S/R KD, HTL2048S/R KD	yes		**Q70** FDU:70000004013447	**Q71** FDU:70000004013448
Resolvers 1XP8013 and 1XP8023	no	**Q69** FDU:70000004013576	**Q70** FDU:70000004013577	**Q71** FDU:70000004013578
Absolute encoders 1XP8014 and 1XP8024	yes	**Q69** FDU:70000004013454	**Q70** FDU:70000004013455	**Q71** FDU:70000004013456

Cable with coupling socket

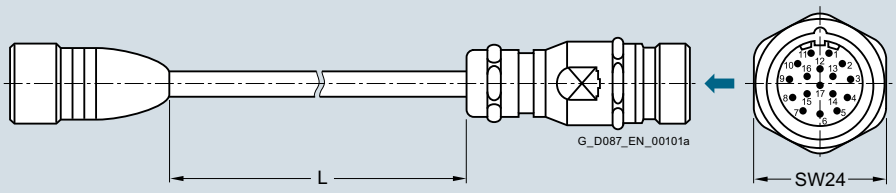
A cable with a straight coupling socket can be supplied for the encoders.

Selection table



Encoder type	Suitable for cable carrier Yes/no	Order code Article No.		
Free cable length L		**2 m**	**8 m**	**15 m**
Incremental encoders TTL1024S/R KD, HTL1024S/R KD, HTL2048S/R KD	yes	**Q72** FDU:70000004013449	**Q73** FDU:70000004013450	**Q74** FDU:70000004013451
Resolvers 1XP8013 and 1XP8023	no	**Q72** FDU:70000004013579	**Q73** FDU:70000004013580	**Q74** FDU:70000004013581

For the connection assignment, see the encoder flange socket.



Encoder type	Suitable for cable carrier Yes/no	Order code Article No.		
Free cable length L		**2 m**	**8 m**	**15 m**
Absolute encoders 1XP8014 and 1XP8024	yes	**Q72** FDU:70000004013457	**Q73** FDU:70000004013458	**Q74** FDU:70000004013459

Encoder accessories (continued)

EnDAT gateways for absolute encoders

Using interface converters (gateways), EnDAT absolute encoders can be integrated in networks with a serial bus system (PROFIBUS DP, CANopen, and DeviceNET).



Fig. 9/54 EnDAT gateways

Technical specifications

Gateways	**PROFINET**	**PROFIBUS DP**	**CANopen**	**DeviceNET**
Supply voltage	9 ... 36 V DC	9 ... 30 V DC	9 ... 30 V DC	9 ... 30 V DC
Encoder data				
Connection	EnDat	EnDat	EnDat	EnDat
Supply voltage	5 V DC ± 5 %	5 V DC ± 5 %	5 V DC ± 5 %	5 V DC ± 5 %
Absolute encoder	1XP8014-10 (**Q82**) and 1XP8024-10 (**Q83**)			
Accessories				
Cable with coupling socket	**Q72, Q73, Q74**			
Order code	**Q01** [1]	**Q02**	**Q03**	**Q04**

[1] Not possible in conjunction with UL-R and CSA design.

Manufacturer:
Leine & Linde AB
Am Sandtorkai 50
20457 Hamburg, Germany
Phone: +49 (0) 40 3176758 60
Fax: +49 (0) 40 3176758 65
www.leinelinde.com
E-mail: info@leinelinde.de

Modular system in combination with encoder systems

Encoder	**Motor plug**	**Brake**	**Self ventilation**			**Forced ventilation**[1]	**Backstop**
			Standard fan	Metal fan	High inertia fan [1]		
Incremental encoder							
TTL1024S/R KD	✓	✓	✓	✓	✓	✓	✓
HTL1024S/R KD	✓	✓	✓	✓	✓	✓	✓
HTL2048S/R KD	✓	✓	✓	✓	✓	✓	✓
TTL1024S/R LC	✓	✓	✓	✓	✓	✓	✓
HTL1024S/R LC	✓	✓	✓	✓	✓	✓	✓
Absolute encoder							
1XP8014-..	✓	✓	✓	✓	✓	✓	✓
1XP8024-..	✓	✓	✓	✓	✓	✓	✓
Resolver							
1XP8013-..	✓	-	✓	✓	✓	✓	✓
1XP8023-..	✓	-	✓	✓	✓	✓	✓
Rugged encoders							
LL 861 900 220	✓	-	✓	✓	✓	✓	✓
HOG9 D 1024 I	✓	-	✓	✓	✓	✓	✓
HOG10 D 1024 I	✓	-	✓	✓	✓	✓	✓

[1] Can be selected for motor frame size 71 or higher

Backstop

Motors in frame sizes 71 to 250 can be supplied with a backstop, which prevents them from rotating in the opposite direction to that used in operation.

Above the disengage speed, in the operational direction of rotation, there is no connection between the inner and outer rings of the backstop.

For starting and stopping below the disengage speed, the operating time may be a maximum of 20 seconds.

In the direction of rotation opposite to the operational direction of rotation, there is a fixed connection between the inner and outer rings of the backstop. This allows the rated backstop torque to be transmitted.

When selecting the backstop, the direction of rotation of the geared motor output shaft must be specified.

Please note that motor speeds that are lower (e.g. in inverter operation) than the disengage speed can damage the backstop.

Order code:	
Backstop	**N23**

Order code, output shaft direction of rotation:	
Clockwise	**K18**
Counterclockwise	**K19**

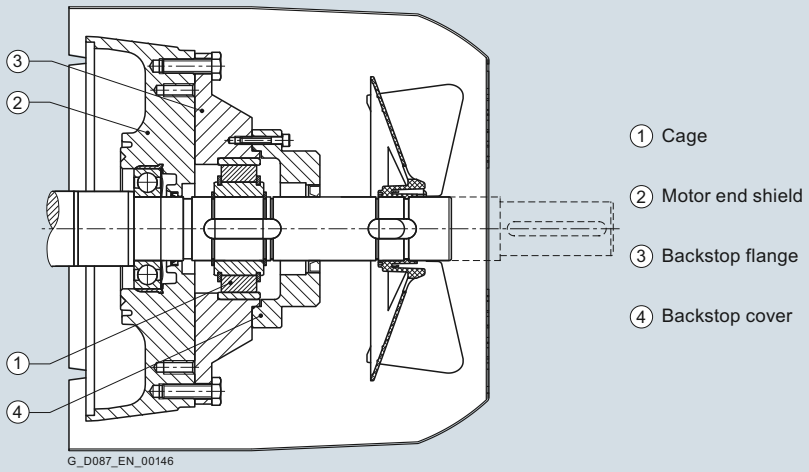


Fig. 9/55 Backstop

Technical specifications

Motor frame size	Rated torque	Disengage speed	Maximum speed	Weight	Moment of inertia of cage and inner ring
	T_{SP} Nm	n_{dis} rpm	n_{max} rpm	m_{Bstp} kg	J_{Bstp} 10^{-4} kgm^2
71	100	890	5 000	0.26	1.0
80	100	890	5 000	0.26	1.0
90	150	860	5 000	0.42	2.0
100	150	860	5 000	0.42	2.0
112	150	860	5 000	0.42	2.0
132	420	750	5 000	1.16	8.0
160	800	700	5 000	1.16	8.0
180	1 050	670	5 000	1.60	20.0
200	1 050	670	5 000	1.60	20.0
225	1 350	630	5 000	4.20	27.0
250	1 350	630	5 000	4.20	27.0

Modular system in combination with backstop

Modular system	Motor plug	Brake	Encoder	Self ventilation Forced ventilation	Second shaft extension
Backstop	✓	-	✓	✓	✓

Second shaft extension and handwheel

Second shaft extension

For 4-pole motors a free, second shaft extension can be supplied on the non-drive end (NDE). The second shaft extension has a 60° centering hole to DIN 332, Part 2 with M3 to M24 tapped hole depending on the shaft diameter.

For a coupling output, the second shaft extension can transmit the full rated power. Please also inquire about the power that can be transmitted and permissible cantilever force if belt pulleys, chains, or gear pinions are used on the second shaft extension.

A second shaft extension cannot be provided if a rotary pulse encoder and/or a separately driven fan has been mounted to the motor.

Order code:

Second shaft extension [1]	**N39**

[1] Only LHN motors can select N39

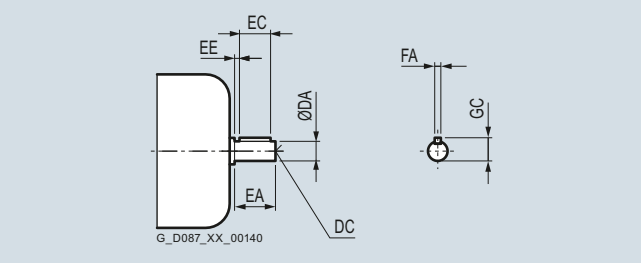


Fig. 9/56 Second motor shaft extension

Technical specifications

Motor frame size	DA	EA	Distance between fan cover and shaft shoulder	DC	EC	EE	FA	GC
63	-	-	-	-	-	-	-	-
71	14	30	4	M5	22	4	5	16.0
80	14	30	4	M5	22	4	5	16.0
90	19	40	5	M6	32	4	6	21.5
100	19	40	5	M6	32	4	6	21.5
112	24	50	6	M8	40	5	8	27.0
132	28	60	8	M10	50	5	8	31.0
160	38	80	8	M12	70	5	10	41.0
180	42	110	15	M16	90	10	12	45.0
200	48	110	20	M16	100	5	14	51.5
225	55	110	5	M20	100	5	16	59.0
250	60	140	5	M20	125	10	18	64.0

Handwheel

Motors of frame sizes 71 to 160 can be supplied with a second shaft extension and additionally with a handwheel.

The handwheel is a disk-type handwheel in accordance with DIN 3670. By mounting it on the second shaft extension of the motor, the geared motor can be rotated even when the motor winding is in a no-voltage state.

Order code:

Handwheel [1]	**N40**

[1] Only LHN motors can select N40

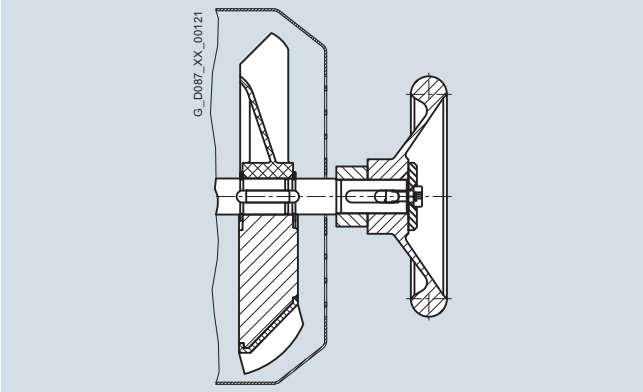


Fig. 9/57 Handwheel

Modular system in combination with second shaft extension

Modular system	Motor plug	Brake	Backstop	Encoder	Self ventilation	Forced ventilation
Second shaft extension						
Without handwheel	✓	✓	✓	-	✓	-
With handwheel	✓	✓	✓	-	✓	-

Canopy

Geared motors with a vertical mounting position (motor at the top) can also be fitted with a canopy. The canopy prevents small items from falling into the geared motor; in the case of outdoors installation, its primary function is to serve as a rain canopy.

If the motor is to be used or stored in the open air, we recommend that it is kept under additional cover to protect it from prolonged exposure to direct sunlight, rain, snow, ice, or dust.

Order code:

Canopy	**N22**
Enlarged canopy [1]	**N24**

[1] When select encoder,geared motors can be fitted with an enlarged canopy

Condensation drain hole

Condensation can accumulate inside the motor as the result of environmental effects. This can result in corrosion and lower clearances and creepage distances.

The condensation is drained to the outside through the condensation drain hole. Depending on the mounting position, the drain holes are located at the DE and/or NDE of the motor.

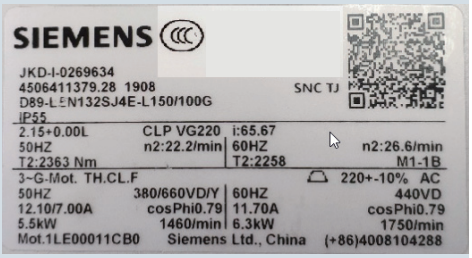
Order code:	
Condensation drain hole	**N46**

Internal motor corrosion protection

The outer surfaces of the geared motors have a high quality paint finish.

For special applications, it may be necessary to apply a protective coating to the inner surfaces of the motor as well.

Order code:	
Internal motor corrosion protection	**N41**



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10/2 Standard ambient temperature of the geared motors
10/2 Extreme ambient temperatures

10/3 Surface treatment and preservation
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Standard ambient temperature of the geared motors

Depending on the gearbox type, the SIMOGEAR geared motors can be deployed in the following standard ambient temperature ranges:

Gearbox type	Ambient temperature
Helical geared motor Z./D./E. Parallel shaft geared motor FZ./FD. Bevel geared motor K	-15 °C to +40 °C
Bevel geared motor B Helical worm geared motor C	-20 °C to +40 °C

An extended ambient temperature range from -20 °C to +40 °C is additionally available for the helical gearboxes, parallel shaft gearboxes, and bevel gearboxes K.

Order code:

Ambient temperature -20 to +40 °C	**K95**

Extreme ambient temperatures

When operating the SIMOGEAR geared motors outside the specified standard ambient temperatures, the geared motors must be adapted to the special environmental conditions. Please contact Siemens in this regard.

Surface treatment

To protect the drives against corrosion and external influences, five high-quality paint systems are available in various colors.

The corrosion protection system is designed in accordance with the corrosivity categories of EN ISO 12944-2.

Geared motors, frame size 49 and higher, are painted in RAL 7016 (anthracite gray) to corrosivity category C1 as standard. This ensures that they are protected against corrosion for indoors use.

Geared motors, frame sizes 09 to 39 with an aluminum housing, are supplied unpainted as standard.

The shaft extensions and bare surfaces are treated with corrosion protection for 6 months.

Corrosivity category	Paint system			Description	Order code
	Primer	Intermediate coat	Top coat		
Surface protection					
Aluminum gearbox housing[1]					
Unpainted (standard)	-	-	-	• Indoor installation • Heated buildings with neutral atmospheres	**L00**
C1 Normal environmental stress	-	-	1-component hydro paint	• Resistant to greases, conditionally resistant to mineral oils, aliphatic solvents • Standard paint	**L02**
Cast iron gearbox housing[2]					
C1 Normal environmental stress	-	-	1-component hydro paint	• Indoor installation • Heated buildings with neutral atmospheres • Resistant to greases, conditionally resistant to mineral oils, aliphatic solvents • Standard paint	**L02**
All geared motors					
C2 Low environmental stress	2-component epoxy zinc phosphate	-	2-component polyurethane	• Indoor and outdoor installation • Unheated buildings with condensation, production areas with low humidity, e.g. warehouses and sports facilities • Atmospheres with little pollution, rural areas • Resistant to greases, mineral oils and sulfuric acid (10 %), caustic soda (10 %), and conditionally resistant to aliphatic solvents	**L03**
C3 Average environmental stress	2-component epoxy zinc phosphate	-	2-component polyurethane	• Indoor and outdoor installation • Production areas with high humidity and some air pollution, e.g. food production areas, dairies, laundries, and breweries • Urban and industrial atmospheres, moderate contamination from sulfur dioxide, coastal areas with low salt levels • Resistant to greases, mineral oils, aliphatic solvents, sulfuric acid (10 %), caustic soda (10 %)	**L04**
C4 High environmental stress	2-component epoxy zinc phosphate	-	2-component polyurethane	• Indoor and outdoor installation • Chemical plants, swimming pools, wastewater treatment plants, electroplating shops, and boathouses above seawater • Industrial areas and coastal areas with moderate salt levels • Resistant to greases, mineral oils, aliphatic solvents, sulfuric acid (10 %), caustic soda (10 %)	**L20**
C5 Very high environmental stress	2-component epoxy zinc phosphate	2-component epoxy zinc phosphate	2-component polyurethane	• Indoor and outdoor installation • Buildings/areas with almost constant condensation and high degrees of pollution, e.g. malt factories and aseptic areas • Industrial areas with high humidity and aggressive atmosphere, coastal areas and offshore environments with high salt levels • Resistant to greases, mineral oils, aliphatic solvents, sulfuric acid (10 %), caustic soda (20 %)	**L05**

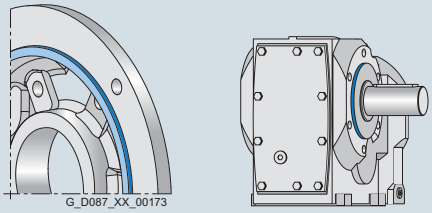
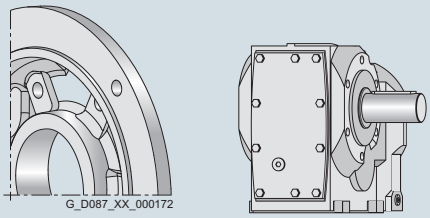
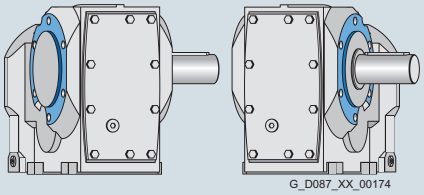
[1] Helical gearboxes D/Z19 to D/Z39, parallel shaft gearboxes F29 and bevel gearboxes B29 and B39
[2] The bevel gearbox B49 is supplied painted

Surface treatment (continued)

Corrosivity category	Paint system			Description	Order code
	Base coat	Intermediate coat	Top coat		
Primer				**Ability to be painted**	
C2 G	2-component polyurethane	-	-	• 2-component polyurethane paint, 2-component epoxy paint and acid-hardening paint, 2-component acrylic paint	**L01**
Unpainted	-	-	-	• Plastic paint, synthetic resin paint, oil paint, 2-component polyurethane paint, 2-component epoxy paint	**L00**

Painting flange surfaces

For flange-mounted or housing flange designs, the flange surface and centering are not painted at the selected output end. The versions listed in the table can be optionally selected.

Design	Figure Surfaces marked blue are not painted	Possible for	Order code
Centering not painted		• Flange-mounted design • Housing flange design	**L11**
Flange completely painted		• Flange-mounted design • Housing flange design	**L12**
Centering flange not painted on both sides		• Housing flange design for bevel gearbox and helical worm gearbox	**L27**

Surface treatment (continued)

Colors

In addition to anthracite gray (RAL 7016), you can select from other standard colors.

RAL color	Designation	Color, example	Order code
RAL 7016	Anthracite gray (standard)		**L75**
RAL 5015	Sky blue		**L50**
RAL 7030	Stone gray		**L55**
RAL 7031	Blue gray		**L53**

You can find additional colors in the DT Configurator.

Note

For light colors in corrosivity category C1 we recommend selection of surface treatment in the corrosivity category one level higher to ensure adequate and uniform coloring for the geared motor.

Preservation

All gearboxes and geared motors are preserved as standard for 6 months.

Long-term preservation up to 36 months

If the gearboxes are stored for longer than 6 months, then we recommend the "Long-term preservation" option. A VCI (volatile corrosion inhibitor) is added to the gearbox oil.

Until commissioning, it is not permissible that the gearbox is opened, as otherwise the VCI will vaporize.
The oil level must be checked before commissioning. Corrosion protection is also applied to the flange contact surfaces and shaft extensions. We recommend that the gearbox is stored in the appropriate mounting position.

Storage conditions

Geared motors, stored in dry, dust-free and evenly tempered rooms do not require any special packaging.

In all other areas, the units must be packaged in foil with desiccant and moisture indicator. If required, protection must be provided against mold and termites. The storage location must be vibration- and shock-free. The storage conditions must be regularly checked.

Order code:

Long-term preservation up to 36 months	**K17**

For information about storage and commissioning please refer to the operating instructions.

Overview

The rating plates on the gearboxes and geared motors are normally manufactured out of coated aluminum foil. They are covered with a special masking film which ensures permanent resistance to UV radiation and media of all kinds (oils, greases, salt water, cleaning agents, etc.).

The adhesive and the material ensure firm adhesion and long-term legibility within the operating temperature range from -40 to +155 °C.

For geared motors, the rating plate is attached to a stainless steel plate on the motor.

For specific designs, additional rating plates are attached to the motor.

Rating plate for helical, parallel shaft, bevel and helical worm geared motors

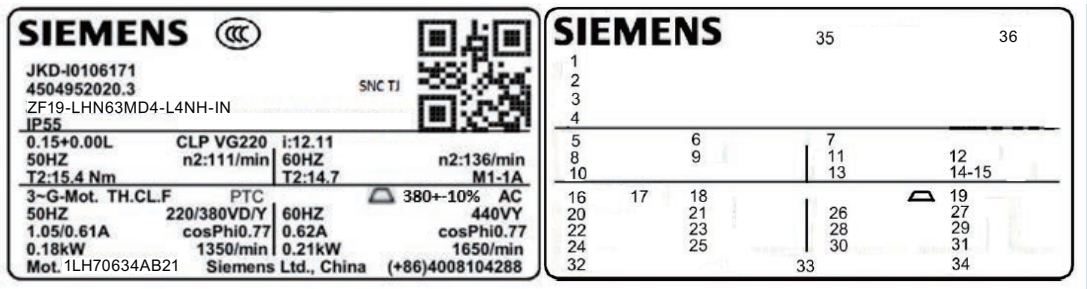


Fig. 10/1 Example, rating plate on helical geared motor

General data	
1	Serial No.
2	Purchase order No.
3	Type designation
4	Protection grade
5	Oil quantity
6	Oil type
7	Total transmission ratio
8	Rated frequency (Hz)
9	Gearbox output speed n2 [rpm]
10	Geared motor output torque T2 [Nm]
11	Rated frequency (Hz)
12	Gearbox output speed n2 [rpm]
13	Geared motor output torque T2 [Nm]
14	Mounting position of geared motors
15	Mounting position of junction boxes
16	Number of motor phases and current type
17	Insulation class
18	Insulation class protection
19	Brake type and voltage
20	Rated frequency (Hz)

Motor and brake data	
21	Rated voltage
22	Rated current
23	Power factor
24	Rated power
25	Rated speed
26	Rated frequency (Hz)
27	Rated voltage
28	Rated current
29	Power factor
30	Rated power
31	Rated speed
32	Motor series
33	Manufacturer
34	Hotline
35	CCC authentication marking
36	Data matrix code

Second rating plate

Second rating plate, supplied loose

For the gearboxes and geared motors, an additional rating plate can be supplied loose.

Order code:

Second rating plate, supplied loose	**K41**

Second rating plate, attached

When requested, a second rating plate can be attached to the motor.

Order code:

Second rating plate, attached	**K68**

Safety instruction sheet and operating instructions

The geared motors are shipped with a multi-language safety instruction sheet for each delivery batch.

One set of operating instructions is enclosed for each geared motor using the following ordering option.

Enclosed documentation	Language	Order code
1 set of operating instructions for each geared motor	Chinese	**W23**
	English	**W22**

The operating instructions include the following documents:

- Replacement part drawings and lists
- Mounting instructions
- Declaration of incorporation of partly completed machinery according to the EC Machinery Directive 2006/42/EC (gearboxes)
- EC Declaration of Conformity according to Directive 2014/35/EU (motors)

The latest versions of the operating instructions, the declaration of incorporation, and the declarations of conformity are available in the Industry Online Support:
https://support.industry.siemens.com/cs/ww/en/ps/13424/man

Test certificates

On request, the following documents are available by e-mail:

Additional documentation	The following is checked:	Order code
Declaration of compliance with the order EN 10204-2.1 and factory test report EN 10204-2.2, geared motor	-	**On request**
Factory test report EN 10204-2.2 for material	-	**On request**
Acceptance test certificate EN 10204-3.1 for the motor	• Winding resistance • No-Load current of the 3 phases • Power loss for no-load operation • High voltage test • No-load speed	**W10**
Acceptance test certificate EN 10204-3.1 for gearboxes	• Output shaft diameter • Input shaft diameter (for gearboxes with input unit A, P only) • No-load speed • Noise (subjective assessment)	**W11**
Acceptance test certificate EN 10204-3.1 for paint finish	• Paint coating thickness	**W12**

Overview

For a faster delivery of our SIMOGEAR geared motors outside the standard delivery times we offer a fast track option.

In lead time category A, the SIMOGEAR geared motors can be shipped painted within 5 working days.

The maximum order quantity is 10 units/order. The order must reach your Siemens sales region by 12:00 p.m. (Chinese local time).

The following product range is available for the fast track option:

- SIMOGEAR gearbox sizes 19 to 89
- SIMOGEAR motor frame sizes 63 to 180

Order code:	
Fast lane	**W50**



11/2 Lists
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11/6 Index of variables to dimension drives
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List of order codes

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C01	Enclosed brake	9/29
C02	Manual brake release lever	9/26
C03	Manual brake release lever with locking mechanism	9/26
C04	Microswitch for monitoring brake release	9/28
C11	Enclosed brake with condensation drain hole	9/29
C80	Brake cable protection	9/29
Manual brake release lever position		
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C45 … C74	Standard voltages, brake	9/22
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C59	Function rectifier with disconnection on the DC side by sensing the current	9/24
C60	Function rectifier with disconnection on the DC side by sensing the voltage	9/24
Mounting positions		
D01 … D06	Mounting positions of the geared motors (helical, cooling tower, and parallel shaft gearboxes)	8/4 … 8/19
D11 … D16 and D21 … D26	Mounting position of the geared motors (bevel, helical worm gearboxes)	8/19 … 8/33
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E01 ... E17	Y axis of rotation	8/35
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Output shaft bearings		
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Output sealing		
G23	Seal with longer service life	8/47
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G25	Seal for high temperatures	8/47
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G34	Oil sight glass with reflector	8/54
Electrical oil level monitoring system		
G37	Oil level sensor	8/55
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G45	Pressure breather valve	8/51
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Order code	Special version Designation	Detailed data Chapter/Page
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L03	Surface protection for low environmental stress C2	10/3
L04	Surface protection for average environmental stress C3	10/3
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L11	Centering not painted	10/4
L12	Flange completely painted	10/4
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L27	Centering flange not painted on both sides	10/4
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M13	Winding thermostat for warning and disconnection (WT)	9/3
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M17	Pt1000 resistance thermometer	9/4
M19	1x Pt100 resistance thermometer	9/4
Fan		
M21	Metal fan	9/8
M22	High inertia fan	9/8
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Anti-condensation heating		
M40	115 V anti-condensation heating	9/6
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N09	HAN K4/4 motor plug (1 bracket) EMC	9/15
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Index of variables to dimension drives

Overview of data to dimension drives

Code	Description	Unit
a	Gearbox constant for calculating the radial force	kNmm
α	Force application angle	°
b, d, l, y, z	Gearbox constants	mm
C	Additional factor to calculate the radial force	-
cos φ	Power factor	-
d	Diameter of the input element	mm
d_0	Average diameter of the mounted transmission element	mm
DC	Cyclic duration factor	%
η	Efficiency	%
f	Rated frequency	Hz
f_B	Service factor	-
f_{B1}	Required service factor	-
f_{br}	Braking torque correction factor	-
f_{Btot}	Service factor of the driven machine	-
f_{limit}	Limit frequency	Hz
f_{rated}	Rated motor frequency	Hz
F_{ax}	Permissible axial force	N
F_r	Radial force at the output shaft	N
F_{R2}	Permissible radial force at the center of shaft extension (l/2)	N
F_{Ravail}	Available radial force from the mounted transmission element	N
F_x	Permissible radial force from out of center force application point	N
F_{xperm1}	Permissible radial force, limited by the bearing service life, at a distance of x from the shaft shoulder	N
F_{xperm2}	Permissible radial force, limited by the shaft strength, at a distance of x from the shaft shoulder	N
i	Transmission ratio	-
I_{St}	Starting current	A
I_{rated}	Rated current	A
J_2	Moment of inertia referred to the output speed of the gearbox	kgm^2
J_{AD}	Moment of inertia of the adapter	kgm^2
J_{add}	Additional moment of inertia	kgm^2
J_B	Moment of inertia of the brake	kgm^2
J_{Bstp}	Moment of inertia of cage and inner ring	kgm^2
J_G	Moment of inertia of the gearbox reduced to the input shaft	kgm^2
J_{mot}	Moment of inertia of the motor	kgm^2
J_X	Moment of inertia of the load referred to the motor shaft	kgm^2
J_Z	Additional moment of inertia of a high inertia fan	kgm^2
k	Factor for taking into account operating conditions	-
k_{DC}	Factor for increased power	-
k_{FI}	Factor for taking into account the additional moment of inertia	-
k_{HT}	Factor for abnormal coolant temperature and installation altitude	-

Code	Description	Unit
k_M	Factor for taking into account the load torque while accelerating	-
k_P	Factor for taking into account the required power and duty cycle	-
L_{h10}	Nominal bearing service life	h
L_{na}	Modified bearing service life	h
L_{pfA}	Measuring surface sound pressure level	dB (A)
L_{rated}	Service life of the brake lining until readjustment	h
$L_{ratedmax}$	Service life of the brake lining until replacement	h
L_{WA}	Sound power level	dB (A)
m	Drive weight without any oil	kg
m_{AF}	Mass acceleration factor	-
m_{Bstp}	Weight of the backstop	kg
m_{fan}	Fan weight	kg
m_{mot}	Motor weight (without end shield at DE)	kg
n_1	Input speed of the gearbox	rpm
n_2	Output speed of the gearbox	rpm
n_{br}	Braking speed	rpm
n_{dis}	Disengage speed	rpm
n_{max}	Maximum speed	rpm
n_{rated}	Rated speed	rpm
P_1	Actual steady-state power of the motor	kW
P_{DC}	Power for the new duty cycle	kW
P_{mot}	Motor power	kW
P_{perm}	Permissible motor power	kW
P_{rated}	Rated motor power	kW
P_{req}	Required input power	kW
P_S	Actual steady-state power of the motor	kW
Q_{perm}	Permissible operating energy	J
r	Radius of the output element	m
R_{ex}	Exact number of teeth ratio	-
s_{br}	Braking distance	m
s_{gap}	Brake air gap	mm
s_{gapmax}	Maximum brake air gap	mm
t_1	Application time of the brake	ms
t_2	Disconnection time	ms
t_3	Slipping time	ms
t_{11}	Response time	ms
t_{12}	Rise time	ms
t_{br}	Braking time	s
t_R	Duty cycle (decimal)	-
t_s	Cycle duration	ms
T_2	Geared motor output torque	Nm
T_{2N}	Maximum output torque of the gearbox	Nm
T_{2req}	Required output torque of the driven machine	Nm

Overview of data to dimension drives (continued)

Code	Description	Unit
T_A	Acceleration torque of the motor	Nm
T_{Bk}	Breakdown torque	Nm
T_{br}	Rated braking torque	Nm
T_{DC}	Torque for the new duty cycle	Nm
T_{rated}	Rated motor torque	Nm
T_{req}	Required torque	Nm
T_{SP}	Rated backstop torque	Nm
T_{St}	Relative starting torque	Nm
T_x	Reduced load torque	Nm
U	Rated voltage	V
v	Travel velocity	m/s
W	Friction energy per braking operation	J
W_{tot}	Friction energy until the brake lining is replaced	MJ
W_V	Friction energy until the brake is readjusted	MJ
x	Distance from the shaft shoulder up to the point where force is applied	mm
Z	Switching frequency	1/h
Z_A	No-load switching frequency, motor with brake	1/h
Z_0	No-load switching frequency, motor without brake	1/h
Z_{perm}	Permissible switching frequency	1/h
ϑ_{amb}	Ambient temperature	°C

Index of variables to dimension drives

Important drive technology variables

SI unit Size	Symbol		Unit symbol		Designation or Conversion factor *)
	SI	Previously	SI	Previously	
Length (distance)	l	L, s	m	m	1 km = 1 000 m
Area	A	F	m^2	m^2	1 m^2 = 100 dm^2
Volume	V	V	m^3	m^3	1 m^3 = 1 000 dm^3 1 dm^3 = 1 l
Plane angle	α, β, γ	α, β, γ	rad	Degrees °	1 rad = 1 m/m 1 L = π/2 rad 1° = π/180 rad
Rotation angle	ϕ	φ		Degrees °	1' = 1°/60; 1'' = 1'/60
Time					1 min = 60 s 1 h = 60 min
Time period/duration	t	t	s	s	1 d = 24 h
Frequency	f	f	Hz	1/s	1 Hz = 1/s
Speed	n	n	rpm	rpm	Rotations per minute
Velocity	v	v	m/s	m/s	1 km/h = $\frac{1}{3.6}$ m/s
Acceleration Acceleration due to gravity	a g	b g	m/s^2	m/s^2	g = 9.81 m/s^2
Angular velocity	ω	Ω	rad/s	1/s	
Angular acceleration	α	ζ	rad/s^2	$1/s^2$	
Mass	m	m	kg	kg	1
Density		d	kg/dm^3	kg/dm^3	10^3
Force Force due to weight	F G	P, K G	N	kp	9.81 1 N = 1 kg · 1 m/s^2
Pressure Mechanical tension	p σ	p σ	Pa N/m^2 N/mm^2	 kp/cm^2 kp/mm^2	1 Pa = 1 N/m^2 9.81 · 10^4 9.81
Work Energy Quantity of heat	W W Q	A E Q	 J	kpm kcal	9.81 4187 1 J = 1 Nm = 1 Ws
Torque of a force Torque Bending torque	 T	M_t M_d M_b	 Nm	 kpm	9.81 1 Nm = 1 J
Power	P	N	W	PS	735.5 1 W = 1 J/s = 1 Nm/s = $\frac{kgm^2}{s^3}$
Moment of inertia	J	θ	kgm^2	kpm^2	9.81

*) The numerical value of a variable in previously used units multiplied by the conversion rate gives the numerical value of the variable in SI units.

Conversion from kW to hp:

1 kW = 1.34102 hp

1 hp = 0.745700 kW

1 hp = 1.01387 PS

hp = horse power (US)

PS = Pferdestärke (horse power in German)

Important drive technology variables (continued)

SI unit Size	Symbol		Unit symbol		Designation or Conversion factor *)
	SI	Previously	SI	Previously	
Dynamic viscosity	η	η	Pa · s	P	10^{-1}
Kinematic viscosity	υ	υ	m^2/s	St	10^{-4}
Electrical current	I	I	A	A	1 A = 1 W/V = 1 V/Ω
Electrical voltage	U	U	V	V	1 V = 1 W/A
Electrical resistance	R	R	Ω	Ω	1 Ω = 1 V/A = 1/S
Electrical conductance	G	G	S	S	1 S = 1/Ω
Electrical capacitance	C	C	F	F	1 F = 1 C/V
Electric charge	Q	Q	C	C	1 C = 1 A · s
Inductance	L	L	H	H	1 H = 1 Vs/A
Magnetic flux density Induction	B	B	T	G	10^4 1 T = 1 Wb/m^2
Magnetic field strength	H	H	A/m	A/m	
Magnetic flux	ϕ	ϕ	Wb	M	10^8 1 Wb = 1 V · s
Temperature	T(ϑ)	t	K(°C)	°C	0 K = -273.15 °C

*) The numerical value of a variable in previously used units multiplied by the conversion rate gives the numerical value of the variable in SI units.

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Abbreviation	Meaning
AC	Alternating Current, three-phase
ATEX	Atmosphère explosible
CAD	Computer-Aided Design
CCC	China Compulsory Certification
CEL	China Energy Label
CEMEP	Comité Européen de Constructeurs de Machines Électriques et d'Électronique de Puissance (European sector committee of manufacturers of electrical machines)
CONT	Continuous duty
CQC	China Quality Certification Center
CSA	Canadian Standards Association
CT	Coolant temperature
DC	Direct Current
DC	Duty cycle
DE	Drive end
DIN	German Institute for Standardization (Deutsches Institut für Normen e. V. -DIN)
EAC	Eurasian conformity
EBPG	Energy-related products directive
EC	European Community
ECL	Energy Conservation Law of PRC
EER	Energy Efficiency Regulations
EFF	Efficiency
EGE	Europäische Größeneinheit
EISA	Energy Independence and Security Act
EMC	Electromagnetic compatibility
EN	European standard
EPAct	Energy Policy Act
EU	European Union
EuP	Energy Using Products
FVA	Research Association for Drive Technology (Forschungsvereinigung Antriebstechnik e. V.)
HF	High frequency
HTL	High Transistor Logic
IDS	Integrated Drive Systems
IE	International Efficiency
IEC	International Electrotechnical Commission
IP	International Protection
ISO	International Organization for Standardization

Abbreviation	Meaning
MODULOG	Modular logistically optimized design (motor)
NDE	Non-drive end
NN	Sea level
NAT	Rated response temperature
NEE	NEMA Energy Efficient
NPT	National Pipe Thread
PAO	Polyalphaolefine
PE	Protective Earth, grounding
PG	Polyglycol
PTC	Positive Temperature Coefficient
SA	Site altitude (installation altitude)
SSI	Simple Sensor Interface
SW	Width across flats
TIA	Totally Integrated Automation
TIP	Totally Integrated Power
TTL	Transistor Transistor Logic
UL-R	Underwriters Laboratories Inc. - Recognition Mark
VDE	Association of Electrical Engineering, Electronics and Information Technology (Verband der Elektrotechnik Elektronik Informationstechnik e. V.)
VDI	Association of German Engineers (Verein Deutscher Ingenieure)
WGK	Class, signifying risk of water pollution



Your benefit from practical training directly from the manufacturer

SITRAIN – Training for Industry – provides you with comprehensive support in solving your tasks.

Training directly from the manufacturer enables you to make correct decisions with confidence.

Increased profits and lower costs:

- Shorter times for commissioning, maintenance and servicing
- Optimized production operations
- Reliable configuration and commissioning
- Shortened startup times, reduced downtimes, and faster troubleshooting
- Exclude expensive faulty planning right from the start.
- Flexible plant adaptation to market requirements
- Compliance with quality standards in production
- Increased employee satisfaction and motivation
- Shorter familiarization times following changes in technology and staff

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Visit our site on the Internet at:
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or let us advise you personally:

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Your benefits with SITRAIN – Training for Industry

Certified top trainers

Our trainers are skilled specialists with practical experience. Course developers have close contact with product development, and pass on their knowledge to the trainers and then to you.

Practical application with practice

Practice, practice, practice! We have designed the trainings with an emphasis on practical exercises. They take up to half of the course time in our trainings. You can therefore implement your new knowledge in practice even faster.

300 courses in more than 60 countries

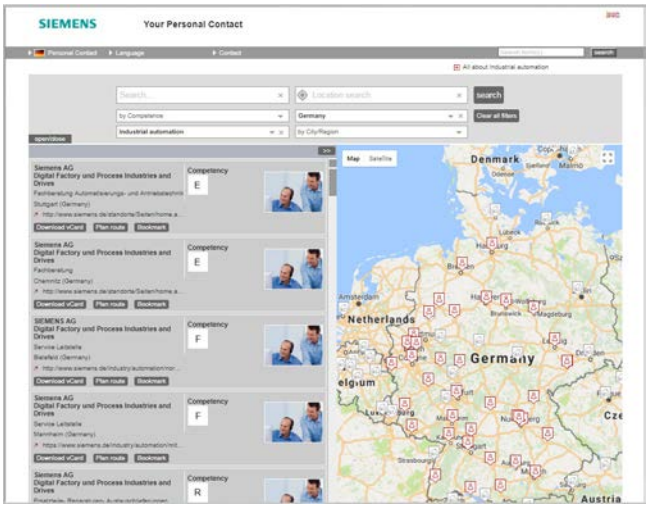
We offer a total of about 300 classroom-based courses. You can find us at more than 50 locations in Germany, and in 62 countries worldwide. You can find which course is offered at which location at:
www.siemens.com/sitrain

Skills development

Do you want to develop skills and fill in gaps in your knowledge? Our solution: We will provide a program tailored exactly to your personal requirements. After an individual requirements analysis, we will train you in our training centers near you or directly at your offices. You will practice on the most modern training equipment with special exercise units. The individual training courses are optimally matched to each other and help with the continuous development of knowledge and skills. After finishing a training module, the follow-up measures make success certain, as well as the refreshment and deepening of the knowledge gained.

Partner · Industry Mall and Interactive Catalog CA 01

Partner at Siemens



At your service locally, around the globe for consulting, sales, training, service, support, spare parts on the entire portfolio of Digital Factory and Process Industries and Drives.

Your partner can be found in our Personal Contacts Database at:
www.siemens.com/automation-contact

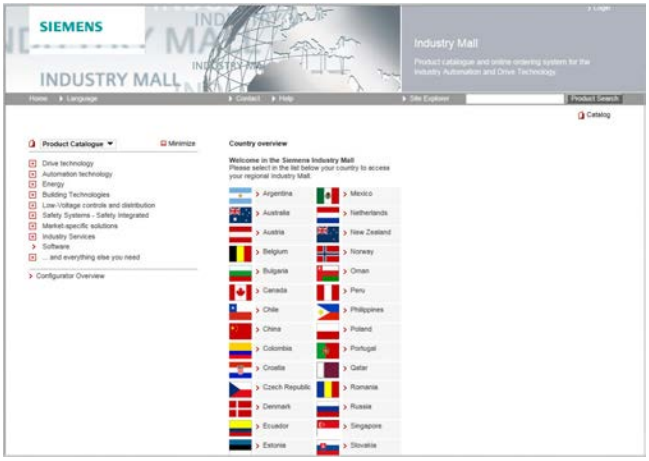
You start by selecting

- the required competence,
- products and branches,
- a country and a city

or by a

- location search or free text search.

Easy product selection and ordering in the Industry Mall and with the Interactive Catalog CA 01



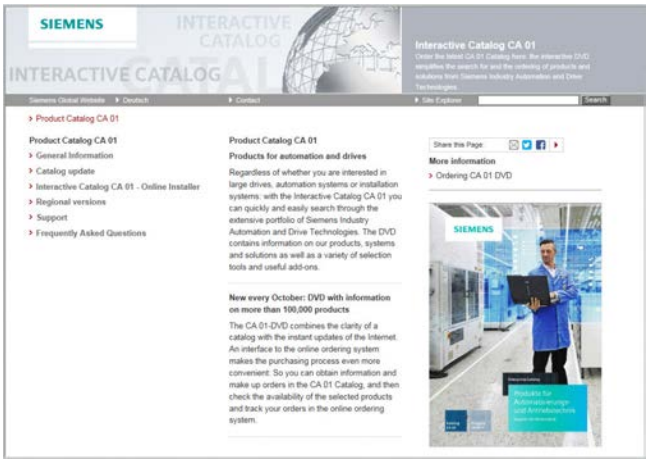
Industry Mall

The Industry Mall is a Siemens Internet ordering platform. Here you have a clear and informative online access to a huge range of products.

Powerful search functions make it easy to select the required products. Configurators enable you to configure complex product and system components quickly and easily. CAx data types are also provided here.

Data transfer allows the whole procedure, from selection through ordering to tracking and tracing, to be carried out online. Availability checks, customer-specific discounts and bid creation are also possible.

www.siemens.com/industrymall



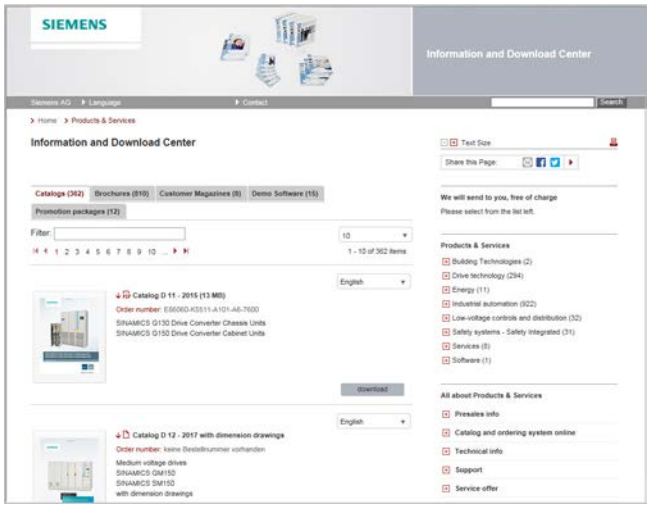
Interactive Catalog CA 01 - Products for Automation and Drives

The Interactive Catalog CA 01 combined with the Siemens Industry Mall unites the benefits of offline and online media in one application – the performance of an offline catalog with the availability of manifold and up-to-date information on the Internet.

Select products and assemble orders with the CA 01, determine the availability of the selected products and track & trace via the Industry Mall.

More information and download:
www.siemens.com/automation/ca01

Downloading catalogs



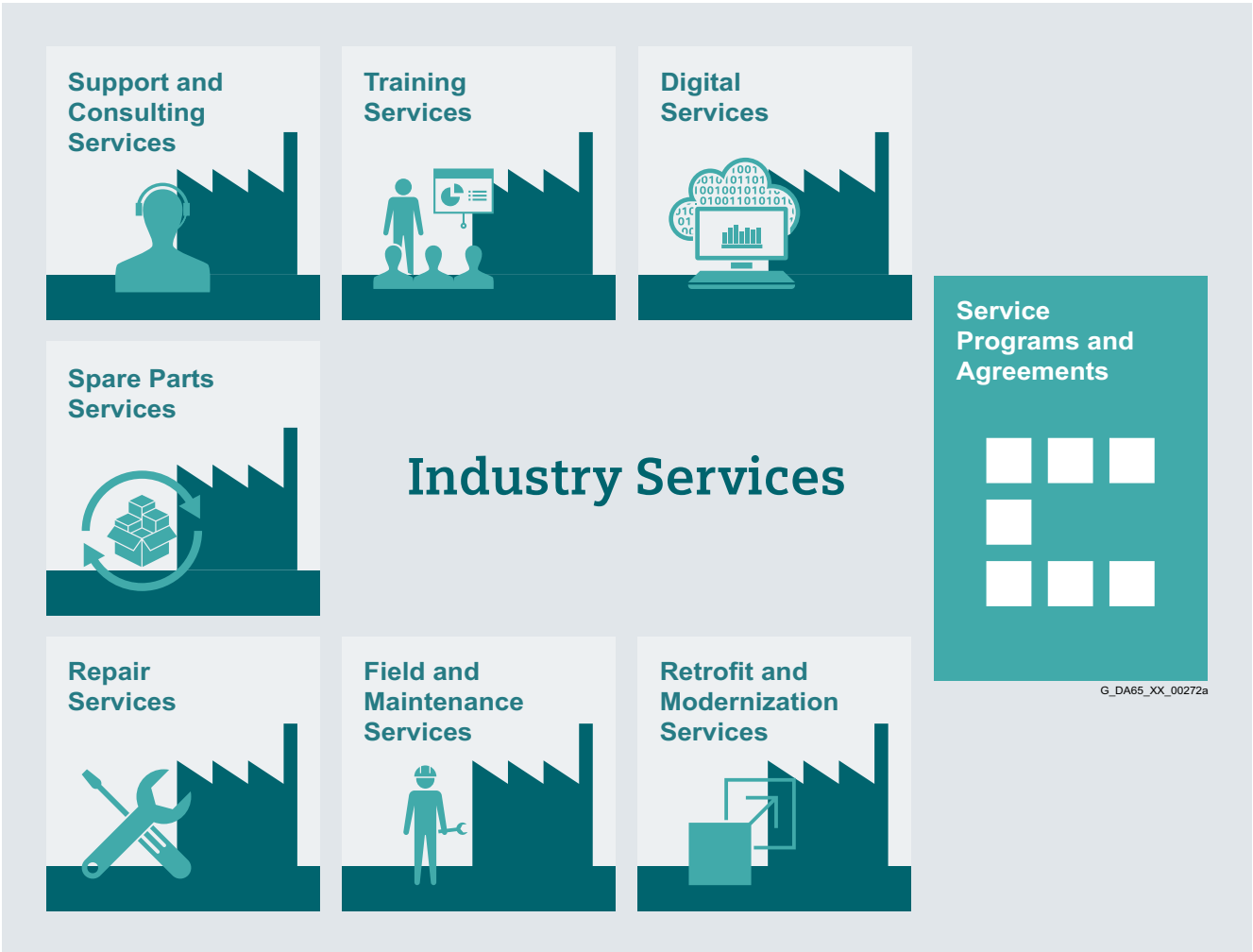
In the Information and Download Center you can download catalogs and brochures in PDF format without having to register.

The filter dialog makes it possible to carry out targeted searches.

www.siemens.com/industry/infocenter

DF/PD Ansprechpartner/Mall/CA 01/IDC En 20.03.2018

Overview



Keep your business running and shaping your digital future – with Industry Services

Optimizing the productivity of your equipment and operations can be a challenge, especially with constantly changing market conditions. Working with our service experts makes it easier. We understand your industry's unique processes and provide the services needed so that you can better achieve your business goals.

You can count on us to maximize your uptime and minimize your downtime, increasing your operations' productivity and reliability. When your operations have to be changed quickly to meet a new demand or business opportunity, our services give you the flexibility to adapt. Of course, we take care that your production is protected against cyber threats. We assist in keeping your operations as energy and resource efficient as possible and reducing your total cost of ownership. As a trendsetter, we ensure that you can capitalize on the opportunities of digitalization and by applying data analytics to enhance decision making: You can be sure that your plant reaches its full potential and retains this over the longer lifespan.

You can rely on our highly dedicated team of engineers, technicians and specialists to deliver the services you need – safely, professionally and in compliance with all regulations. We are there for you, where you need us, when you need us.

https://www.siemens.com/global/en/home/products/services/industry.html

Overview

Digital Services



Digital Services make your industrial processes transparent to gain improvements in productivity, asset availability, and energy efficiency.

Production data is generated, filtered and translated with intelligent analytics to enhance decision-making.

This is done whilst taking data security into consideration and with continuous protection against cyber-attack threats.

https://www.siemens.com/global/en/home/products/services/industry/digital-services.html

Support and Consulting Services



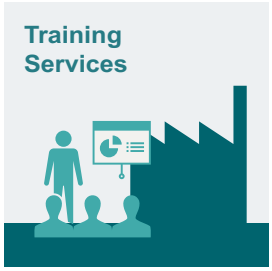
Industry Online Support site for comprehensive information, application examples, FAQs and support requests.

Technical and Engineering Support for advice and answers for all inquiries about functionality, handling, and fault clearance. The Service Card as prepaid support for value added services such as Priority Call Back or Extended Support offers the clear advantage of quick and easy purchasing.

Information & Consulting Services, e.g. SIMATIC System Audit; clarity about the state and service capability of your automation system or Lifecycle Information Services; transparency on the lifecycle of the products in your plants.

https://support.industry.siemens.com/cs/ww/en/sc/2235

Training Services

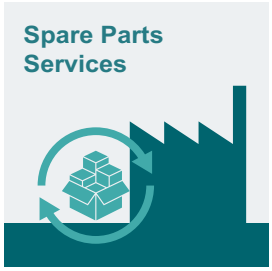


From the basics and advanced to specialist skills, SITRAIN courses provide expertise right from the manufacturer – and encompass the entire spectrum of Siemens products and systems for the industry.

Worldwide, SITRAIN courses are available wherever you need a training course in more than 170 locations in over 60 countries.

https://support.industry.siemens.com/cs/ww/en/sc/2226

Spare Parts Services



Spare Parts Services are available worldwide for smooth and fast supply of spare parts – and thus optimal plant availability. Genuine spare parts are available for up to ten years. Logistic experts take care of procurement, transport, custom clearance, storage and order management. Reliable logistics processes ensure that components reach their destination as needed.

Since not all spare parts can be kept in stock at all times, Siemens offers a preventive measure for spare parts provisioning on the customer's premises with optimized **Spare Parts Packages** for individual products, custom-assembled drive components and entire integrated drive trains – including risk consulting.

Asset Optimization Services help you design a strategy for parts supply where your investment and carrying costs are reduced and the risk of obsolescence is avoided.

https://support.industry.siemens.com/cs/ww/en/sc/2110

Industry Services – Portfolio overview

Overview (continued)



Repair Services are offered on-site and in regional repair centers for fast restoration of faulty devices' functionality.

Also available are extended repair services, which include additional diagnostic and repair measures, as well as emergency services.

https://support.industry.siemens.com/cs/ww/en/sc/2154



Provide a cost-effective solution for the expansion of entire plants, optimization of systems or upgrading existing products to the latest technology and software, e.g. migration services for automation systems.

Service experts support projects from planning through commissioning and, if desired over the entire extended lifespan, e.g. Retrofit for Integrated Drive Systems for an extended lifetime of your machines and plants.

https://support.industry.siemens.com/cs/ww/en/sc/2286



Siemens specialists are available globally to provide expert field and maintenance services, including commissioning, functional testing, preventive maintenance and fault clearance.
All services can be included in customized service agreements with defined reaction times or fixed maintenance intervals.

https://support.industry.siemens.com/cs/ww/en/sc/2265



A technical Service Program or Agreement enables you to easily bundle a wide range of services into a single annual or multi-year agreement.

You pick the services you need to match your unique requirements or fill gaps in your organization's maintenance capabilities.

Programs and agreements can be customized as KPI-based and/or performance-based contracts.

https://support.industry.siemens.com/cs/ww/en/sc/2275

Overview



Siemens Industry and Online Support with some 1.7 million visitors per month is one of the most popular web services provided by Siemens. It is the central access point for comprehensive technical know-how about products, systems and services for automation and drives applications as well as for process industries.

In connection with the challenges and opportunities related to digitalization you can look forward to continued support with innovative offerings.

Conversion tables

Rotary inertia (to convert from A to B, multiply by entry in table)

A \ B	lb-in^2	lb-ft^2	lb-in-s^2	lb-ft-s^2 slug-ft^2	kg-cm^2	kg-cm-s^2	gm-cm^2	gm-cm-s^2	oz-in^2	oz-in-s^2
lb-in^2	1	6.94×10^{-3}	2.59×10^{-3}	2.15×10^{-4}	2.926	2.98×10^{-3}	2.92×10^{3}	2.984	16	4.14×10^{-2}
lb-ft^2	144	1	0.3729	3.10×10^{-2}	421.40	0.4297	4.21×10^{5}	429.71	2304	5.967
lb-in-s^2	386.08	2.681	1	8.33×10^{-2}	1.129×10^{3}	1.152	1.129×10^{6}	1.152×10^{3}	6.177×10^{3}	16
lb-ft-s^2 slug-ft^2	4.63×10^{3}	32.17	12	1	1.35×10^{4}	13.825	1.355×10^{7}	1.38×10^{4}	7.41×10^{4}	192
kg-cm^2	0.3417	2.37×10^{-3}	8.85×10^{-4}	7.37×10^{-5}	1	1.019×10^{-3}	1000	1.019	5.46	1.41×10^{-2}
kg-cm-s^2	335.1	2.327	0.8679	7.23×10^{-2}	980.66	1	9.8×10^{5}	1000	5.36×10^{3}	13.887
gm-cm^2	3.417×10^{-4}	2.37×10^{-6}	8.85×10^{-7}	7.37×10^{-8}	1×10^{-3}	1.01×10^{-6}	1	1.01×10^{-3}	5.46×10^{-3}	1.41×10^{-5}
gm-cm-s^2	0.335	2.32×10^{-3}	8.67×10^{-4}	7.23×10^{-5}	0.9806	1×10^{-3}	980.6	1	5.36	1.38×10^{-2}
oz-in^2	0.0625	4.34×10^{-4}	1.61×10^{-4}	1.34×10^{-5}	0.182	1.86×10^{-4}	182.9	0.186	1	2.59×10^{-3}
oz-in-s^2	24.13	0.1675	6.25×10^{-2}	5.20×10^{-3}	70.615	7.20×10^{-2}	7.09×10^{4}	72.0	386.08	1

Torque (to convert from A to B, multiply by entry in table)

A \ B	lb-in	lb-ft	oz-in	N-m	kg-cm	kg-m	gm-cm	dyne-cm
lb-in	1	8.333×10^{-2}	16	0.113	1.152	1.152×10^{-2}	1.152×10^{3}	1.129×10^{6}
lb-ft	12	1	192	1.355	13.825	0.138	1.382×10^{4}	1.355×10^{7}
oz-in	6.25×10^{-2}	5.208×10^{-3}	1	7.061×10^{-3}	7.200×10^{-2}	7.200×10^{-4}	72.007	7.061×10^{4}
N-m	8.850	0.737	141.612	1	10.197	0.102	1.019×10^{4}	1×10^{7}
kg-cm	0.8679	7.233×10^{-2}	13.877	9.806×10^{-2}	1	10^{-2}	1000	9.806×10^{5}
kg-m	86.796	7.233	1.388×10^{3}	9.806	100	1	1×10^{5}	9.806×10^{7}
gm-cm	8.679×10^{-4}	7.233×10^{-5}	1.388×10^{-2}	9.806×10^{-5}	1×10^{-3}	1×10^{-5}	1	980.665
dyne-cm	8.850×10^{-7}	7.375×10^{-8}	1.416×10^{-5}	10^{-7}	1.0197×10^{-6}	1.019×10^{-8}	1.019×10^{-3}	1

Length (to convert from A to B, multiply by entry in table)

A \ B	inches	feet	cm	yd	mm	m
inches	1	0.0833	2.54	0.028	25.4	0.0254
feet	12	1	30.48	0.333	304.8	0.3048
cm	0.3937	0.03281	1	1.09×10^{-2}	10	0.01
yd	36	3	91.44	1	914.4	0.914
mm	0.03937	0.00328	0.1	1.09×10^{-3}	1	0.001
m	39.37	3.281	100	1.09	1000	1

Power (to convert from A to B, multiply by entry in table)

A \ B	hp	Watts
hp (English)	1	745.7
(lb-in) (deg./s)	2.645×10^{-6}	1.972×10^{-3}
(lb-in) (rpm)	1.587×10^{-5}	1.183×10^{-2}
(lb-ft) (deg./s)	3.173×10^{-5}	2.366×10^{-2}
(lb-ft) (rpm)	1.904×10^{-4}	0.1420
Watts	1.341×10^{-3}	1

Force (to convert from A to B, multiply by entry in table)

A \ B	lb	oz	gm	dyne	N
lb	1	16	453.6	4.448×10^{5}	4.4482
oz	0.0625	1	28.35	2.780×10^{4}	0.27801
gm	2.205×10^{-3}	0.03527	1	1.02×10^{-3}	N.A.
dyne	2.248×10^{-6}	3.59×10^{-5}	980.7	1	0.00001
N	0.22481	3.5967	N.A.	100000	1

Mass (to convert from A to B, multiply by entry in table)

A \ B	lb	oz	gm	kg	slug
lb	1	16	453.6	0.4536	0.0311
oz	6.25×10^{-2}	1	28.35	0.02835	1.93×10^{-3}
gm	2.205×10^{-3}	3.527×10^{-2}	1	10^{-3}	6.852×10^{-5}
kg	2.205	35.27	10^{3}	1	6.852×10^{-2}
slug	32.17	514.8	1.459×10^{4}	14.59	1

Rotation (to convert from A to B, multiply by entry in table)

A \ B	rpm	rad/s	degrees/s
rpm	1	0.105	6.0
rad/s	9.55	1	57.30
degrees/s	0.167	1.745×10^{-2}	1

Temperature Conversion

°F	°C	°C	°F
0	–17.8	–10	14
32	0	0	32
50	10	10	50
70	21.1	20	68
90	32.2	30	86
98.4	37	37	98.4
212	100	100	212
subtract 32 and multiply by $^5/_9$		multiply by $^9/_5$ and add 32	

Mechanism Efficiencies

Acme-screw with brass nut	~0.35–0.65
Acme-screw with plastic nut	~0.50–0.85
Ball-screw	~0.85–0.95
Chain and sprocket	~0.95–0.98
Preloaded ball-screw	~0.75–0.85
Spur or bevel-gears	~0.90
Timing belts	~0.96–0.98
Worm gears	~0.45–0.85
Helical gear (1 reduction)	~0.92

Friction Coefficients

Materials	μ
Steel on steel (greased)	~0.15
Plastic on steel	~0.15–0.25
Copper on steel	~0.30
Brass on steel	~0.35
Aluminum on steel	~0.45
Steel on steel	~0.58

Mechanism	μ
Ball bushings	<0.001
Linear bearings	<0.001
Dove-tail slides	~0.2++
Gibb ways	~0.5++

Material Densities

Material	lb-in^3	gm-cm^3
Aluminum	0.096	2.66
Brass	0.299	8.30
Bronze	0.295	8.17
Copper	0.322	8.91
Hard wood	0.029	0.80
Soft wood	0.018	0.48
Plastic	0.040	1.11
Glass	0.079–0.090	2.2–2.5
Titanium	0.163	4.51
Paper	0.025–0.043	0.7–1.2
Polyvinyl chloride	0.047–0.050	1.3–1.4
Rubber	0.033–0.036	0.92–0.99
Silicone rubber, without filler	0.043	1.2
Cast iron, gray	0.274	7.6
Steel	0.280	7.75

Wire Gauges[1)]

Cross-section mm^2	Standard Wire Gauge (SWG)	American Wire Gauge (AWG)
0.2	25	24
0.3	23	22
0.5	21	20
0.75	20	19
1.0	19	18
1.5	17	16
2.5	15	13
4	13	11
6	12	9
10	9	7
16	7	6
25	5	3
35	3	2
50	0	1/0
70	000	2/0
95	00000	3/0
120	0000000	4/0
150	–	6/0
185	–	7/0

1) The table shows approximate SWG/AWG sizes nearest to standard metric sizes; the cross-sections do not match exactly.

Notes

1. General Provisions

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following applies subordinate to the T&C:

- for installation work the "General Conditions for Erection Works – Germany"[1)] ("Allgemeine Montagebedingungen – Deutschland" (only available in German at the moment)) and/or
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customer in Germany"[1)] ("Allgemeine Geschäftsbedingungen für das Plant Analytics Services – für Kunden in Deutschland" (only available in German at the moment)) and/or
- for stand-alone software products and software products forming a part of a product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany"[1)] and/or
- for other supplies and/or services the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)].
  In case such supplies and/or services should contain Open Source Software, the conditions of which shall prevail over the " General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry "[1)]. A notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

1.2 For customers with a seat or registered office outside Germany

For customers with a seat or registered office outside Germany, the following applies subordinate to the T&C:

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"[1)] and/or
- for services the "International Terms & Conditions for Services"[1)] supplemented by "Software Licensing Conditions"[1)] and/or
- for other supplies of hard- and/or software the "International Terms & Conditions for Products"[1)] supplemented by "Software Licensing Conditions" [1)]

1.3 For customers with master or framework agreement

To the extent our supplies and/or services offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

2. Prices

The prices are in € (Euro) ex point of delivery, exclusive of packaging.

The sales tax (value added tax) is not included in the prices. It shall be charged separately at the respective rate according to the applicable statutory legal regulations.

Prices are subject to change without prior notice. We will charget the prices valid at the time of delivery.

To compensate for variations in the price of raw materials (e.g. silver, copper, aluminum, lead, gold, dysprosium and neodym), surcharges are calculated on a daily basis using the so-called metal factor for products containing these raw materials. A surcharge for the respective raw material is calculated as a supplement to the price of a product if the basic official price of the raw material in question is exceeded.

The metal factor of a product indicates the basic official price (for those raw materials concerned) as of which the surcharges on the price of the product are applied, and with what method of calculation.

An exact explanation of the metal factor can be downloaded at:

www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

To calculate the surcharge (except in the cases of dysprosium and neodym), the official price from the day prior to that on which the order was received or the release order was effected is used.

To calculate the surcharge applicable to dysprosium and neodym ("rare earths"), the corresponding three-month basic average price in the quarter prior to that in which the order was received or the release order was effected is used with a one-month buffer (details on the calculation can be found in the explanation of the metal factor).

3. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog - especially with regard to data, dimensions and weights given - these are subject to change without prior notice.

[1)] The text of the Terms and Conditions of Siemens AG can be downloaded at
www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

4. Export regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

Export may be subject to license. We shall indicate in the delivery details whether licenses are required under German, European and US export lists.

Our products are controlled by the U.S. Government (when labeled with "ECCN" unequal "N") and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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Digital: SINAMICS PERFECT HARMONY GH180 Medium-Voltage Air-Cooled Drives (Germany Edition)	D 15.1
SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled	D 18.1
SINAMICS S120 Chassis Format Converter Units SINAMICS S120 Cabinet Modules SINAMICS S150 Converter Cabinet Units	D 21.3
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LOHER VARIO High Voltage Motors Flameproof, Type Series 1PS4, 1PS5, 1MV4 and 1MV5 Frame Size 355 to 1000, Power Range 80 to 7100 kW	D 83.2
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