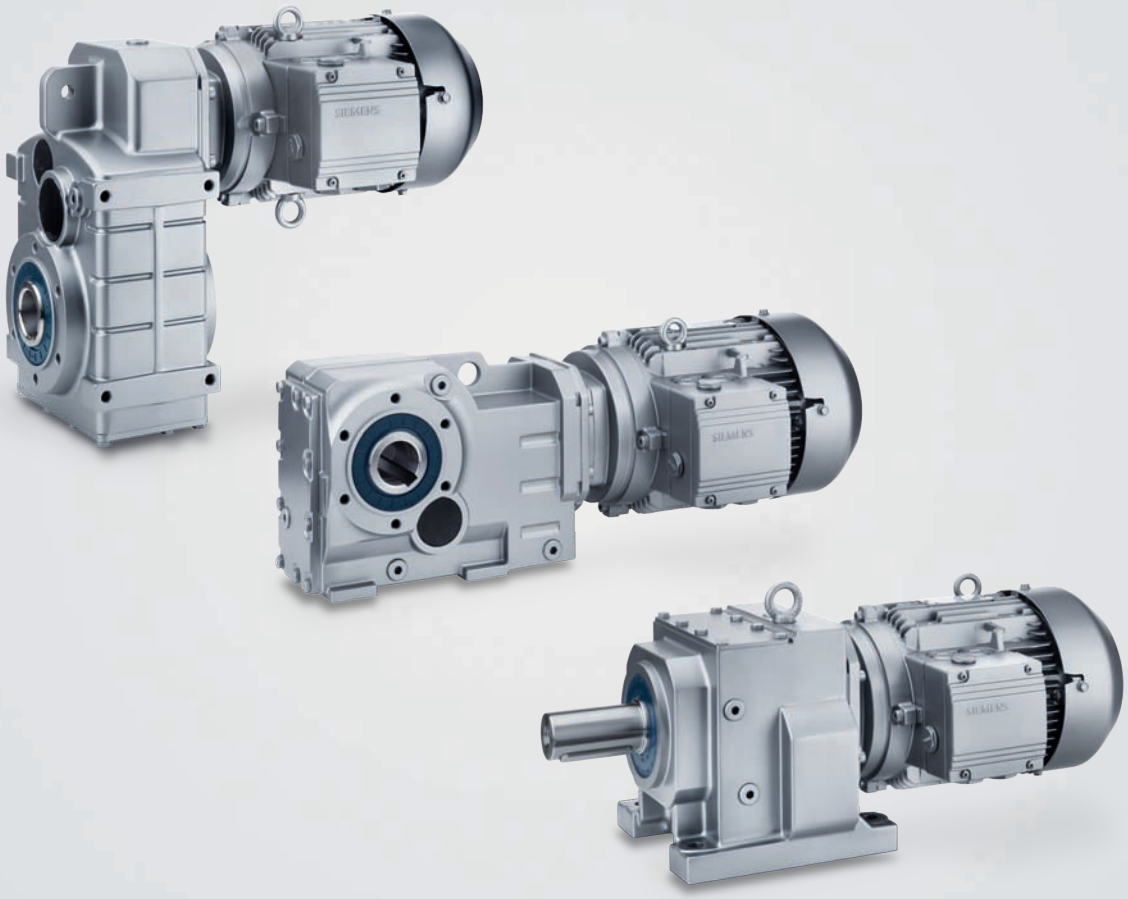
MOTOX Geared Motors

Price List D 87.1 P · October 2008



MOTOX

SIEMENS

Related catalogs

Low Voltage Motors D 81.1
IEC Squirrel-Cage Motors

E86060-K5287-A111-A2-7600

FLENDER Standard Couplings MD 10.1

E86060-K5710-A111-A2-7600

SINAMICS G110/SINAMICS G120 D 11.1
Inverter Chassis Units
SINAMICS G120D
Distributed Frequency Converters

E86060-K5511-A111-A5-7600

SINAMICS G130 D 11
Drive Converter Chassis Units
SINAMICS G150
Drive Converter Cabinet Units

E86060-K5511-A101-A4-7600

MICROMASTER DA 51.2
MICROMASTER 420/430/440
Inverters
0.12 kW to 250 kW

E86060-K5151-A121-A6-7600

MICROMASTER/COMBIMASTER DA 51.3
MICROMASTER 411 Inverter
COMBIMASTER 411
Distributed Drive Solutions

E86060-K5251-A131-A2-7600

Industrial Communication IK PI
Part 5: ET 200 Distributed I/O
ET 200S FC Frequency converter

E86060-K6710-A101-B6-7600

AC NEMA & IEC Motors D81.2
Further details available on the Internet at: U.S./Canada

Only PDF
http://www.sea.siemens.com/motors

MOTOX Konfigurator MOTOX
MOTOX Configurator
Informieren/Projektieren
(CD)

E86060-D5203-A100-A2-X100

Industry Automation and Motion Control
Information and ordering platform on the Internet at:
www.siemens.com/automation/mall

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

http://www.siemens.com/motors/printmaterial

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

Standard Drives
MOTOX Geared Motors

Price List D 87.1 P · October 2008

Supersedes:
Price List D 87.1 P · March 2008

The products contained in this price list can also be found in the Electronic Catalog MOTOX Configurator.
Order No.:
E86060-D5203-A100-A2-X100 (CD-ROM)

Please contact your local Siemens branch

STANDARD DRIVES
Introduction

1

Ordering notes

General information

The MOTOX price list contains all the standard designs that can be ordered from our Catalog D 87.1.

Delivery time categories

The longest delivery time for a single component always determines the total delivery time. The delivery times apply ex works following successful order clarification.

Overview

Delivery time category	Delivery time ex works
A	12 working days
B	15 working days
C	25 working days
D	20 working days
E	30 working days
F	Contact us first (approx. 45 working days)
K	Contact us first (approx. 45 working days)
S	Contact us first
W	As quoted (approx. 45 working days)
X	160 working days
Y	160 working days
Z	160 working days

We reserve the right to change delivery times without prior notice.

You will find the most up-to-date overview of delivery times on the Internet at:
http://sd.nes.siemens.de/sales_2003/search/Index/html_00/index.html.

Price groups

For generating internal quotations, the products are subdivided into the following price groups:

Geared motor type	Size	Price group
Helical geared motors	18 … 188	**3F0**
Parallel shaft geared motors	18 … 188	**3F1**
Bevel helical geared motors	18 … 188	**3F2**
Helical worm geared motors	18 … 88	**3F3**
Worm geared motors	36 … 63	**3F7**

Change to or cancellation of order

Changes to or cancellation of an order will be charged according to the costs incurred.

Detailed information

Detailed information (e.g. technical data, selection and ordering data and special designs – especially detailed descriptions and footnotes) can be found in Catalog D 87.1.

Electronic catalog

MOTOX Configurator

The MOTOX Configurator makes it easy to select the right geared motor, providing you with not only the correct geared motor order numbers, but also prices and relevant documentation.

Data sheets and dimension drawings can be created for the different products.

Product range

The printed catalog contains the basic selection of standard MOTOX geared motors.
The MOTOX Configurator contains practically all combinations of MOTOX gearboxes and geared motors which are theoretically possible. The MOTOX Configurator also contains additional sector-specific applications, such as:

- Monorail conveyor drives
- Extruder geared motors
- Cooling tower drives
- Mixer and agitator geared motors

You can also use the electronic catalog to configure explosion-proof ATEX gearboxes and geared motors for zones 1, 2, 21 and 22.

The MOTOX Configurator can be accessed online at:
www.siemens.com/gearedmotors,

or can be ordered from Click4business at:
https://c4bs.spls.de.

Explanation of symbols used in this document

Designation	Symbol
Standard	✓
At no extra charge	❒
Not available	–
On request	•
Not selectable / not possible	White background
Delivery time category	DTC

Trademarks

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.

Order number code

The order number consists of a combination of digits and letters and is divided into three blocks linked with hyphens for a better overview,

e.g.

2KJ1503-1CE13-1AE2-Z

+D06+M55

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

Ordering data:

- Complete order number, with a **-Z** suffix, and order code(s) or plain text.
- If a quotation is available, please specify the quotation number in addition to the order number.

Structure of the order number		Position	1	2	3	4	5	6	7	–	8	9	10	11	12	–	13	14	15	16	
MOTOX geared motors																					
1st to 5th positions: Digit, letter, Letter, digit, Digit	Helical gearbox E, 1-stage		**2**	**K**	**J**	**1**	**0**														
	Helical gearbox Z, 2-stage		**2**	**K**	**J**	**1**	**1**														
	Helical gearbox D, 3-stage		**2**	**K**	**J**	**1**	**2**														
	Parallel shaft gearbox FZ, 2-stage		**2**	**K**	**J**	**1**	**3**														
	Parallel shaft gearbox FD, 3-stage		**2**	**K**	**J**	**1**	**4**														
	Bevel helical gearboxes B and K		**2**	**K**	**J**	**1**	**5**														
	Helical worm gearboxes C		**2**	**K**	**J**	**1**	**6**														
	Worm gearboxes SC		**2**	**K**	**J**	**1**	**7**														
6th to 7th position: Digit, digit	Gearbox size																				
8th position: Digit	Output shaft																				
9th to 10th positions: Letter Letter	Motor size																				
11th position: Digit	Without motor													**0**							
	Standard motor													**1**							
12th position: Digit	Motor generation														**3**						
13th position: Digit	Frequency, voltage																				
14th position: Letter	Foot-mounted design																	**A**			
	Foot/flange-mounted design																	**B**			
	Torque arm																	**D**			
	Extruder flange																	**E**			
	Flange-mounted design (A-type)																	**F**			
	Housing flange (C-type)																	**H**			
	Cooling tower design																	**K**			
	Mixer flange																	**M**			
	Flange for agitator																	**R**			
15th to 16th positions: Letter, digit	Transmission ratio																				
	Special order versions: • Coded: order code also required • Non-coded: plain text also required																			–	**Z**

1

Notes

STANDARD DRIVES
Helical geared motors

2

Orientation

Overview

The helical gearboxes are designated as follows:

Gearbox type:

(-) Helical gearbox

Transmission stage
E 1-stage
Z 2-stage
D 3-stage

Type:

Shaft
(-) Solid shaft

Mounting
(-) Foot-mounted design
F Flange-mounted design (A-type)
Z Housing flange (C-type)
R Flange for agitator
K Flange for cooling tower

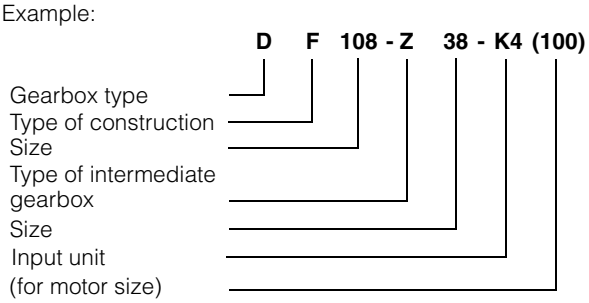
Connection
(-) Feather key

Type of intermediate gearbox:

(-) Helical gearbox

Transmission stage
Z 2-stage
D 3-stage

Example:



1-stage helical geared motors E

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
E38	LA71B4	0.12	**2KJ1001 - ■ CB13 - ■■■■**	372.–	**A**
	LA71C4	0.18	**2KJ1001 - ■ CC13 - ■■■■**	374.–	**A**
	LA71S4	0.25	**2KJ1001 - ■ CD13 - ■■■■**	379.–	**A**
	LA71M4	0.37	**2KJ1001 - ■ CE13 - ■■■■**	387.–	**A**
	LA71ZMP4	0.55	**2KJ1001 - ■ CG13 - ■■■■**	395.–	**A**
	LA80M4	0.75	**2KJ1001 - ■ DC13 - ■■■■**	417.–	**A**
	LA90S4	1.1	**2KJ1001 - ■ EL13 - ■■■■**	479.–	**A**
	LA90L4	1.5	**2KJ1001 - ■ EP13 - ■■■■**	528.–	**A**
	LA100L4	2.2	**2KJ1001 - ■ FL13 - ■■■■**	579.–	**A**
	LA100LB4	3.0	**2KJ1001 - ■ FM13 - ■■■■**	622.–	**A**
	LA112MB4	4.0	**2KJ1001 - ■ GH13 - ■■■■**	747.–	**A**
E48	LA71B4	0.12	**2KJ1002 - ■ CB13 - ■■■■**	409.–	**A**
	LA71C4	0.18	**2KJ1002 - ■ CC13 - ■■■■**	411.–	**A**
	LA71S4	0.25	**2KJ1002 - ■ CD13 - ■■■■**	416.–	**A**
	LA71M4	0.37	**2KJ1002 - ■ CE13 - ■■■■**	424.–	**A**
	LA71ZMP4	0.55	**2KJ1002 - ■ CG13 - ■■■■**	432.–	**A**
	LA80M4	0.75	**2KJ1002 - ■ DC13 - ■■■■**	454.–	**A**
	LA90S4	1.1	**2KJ1002 - ■ EL13 - ■■■■**	516.–	**A**
	LA90L4	1.5	**2KJ1002 - ■ EP13 - ■■■■**	565.–	**A**
	LA100L4	2.2	**2KJ1002 - ■ FL13 - ■■■■**	616.–	**A**
	LA100LB4	3.0	**2KJ1002 - ■ FM13 - ■■■■**	659.–	**A**
	LA112MB4	4.0	**2KJ1002 - ■ GH13 - ■■■■**	784.–	**A**
	LA132SB4	5.5	**2KJ1002 - ■ HF13 - ■■■■**	904.–	**A**
	LA132M4	7.5	**2KJ1002 - ■ HH13 - ■■■■**	1 346.–	**A**
	LA132ZMP4	9.2	**2KJ1002 - ■ HT13 - ■■■■**	1 503.–	**A**

1-stage helical geared motors E (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
E68	LA71B4	0.12	**2KJ1003 - ■ CB13 - ■■■■**	581.–	**A**
	LA71C4	0.18	**2KJ1003 - ■ CC13 - ■■■■**	583.–	**A**
	LA71S4	0.25	**2KJ1003 - ■ CD13 - ■■■■**	588.–	**A**
	LA71M4	0.37	**2KJ1003 - ■ CE13 - ■■■■**	596.–	**A**
	LA71MP4	0.55	**2KJ1003 - ■ CG13 - ■■■■**	604.–	**A**
	LA80M4	0.75	**2KJ1003 - ■ DC13 - ■■■■**	626.–	**A**
	LA90S4	1.1	**2KJ1003 - ■ EL13 - ■■■■**	688.–	**A**
	LA90L4	1.5	**2KJ1003 - ■ EP13 - ■■■■**	737.–	**A**
	LA100L4	2.2	**2KJ1003 - ■ FL13 - ■■■■**	788.–	**A**
	LA100LB4	3.0	**2KJ1003 - ■ FM13 - ■■■■**	831.–	**A**
	LA112MB4	4.0	**2KJ1003 - ■ GH13 - ■■■■**	956.–	**A**
	LA132SB4	5.5	**2KJ1003 - ■ HF13 - ■■■■**	1 076.–	**A**
	LA132M4	7.5	**2KJ1003 - ■ HH13 - ■■■■**	1 518.–	**A**
	LA132ZMP4	9.2	**2KJ1003 - ■ HT13 - ■■■■**	1 675.–	**A**
	LA160MB4	11.0	**2KJ1003 - ■ JP13 - ■■■■**	1 983.–	**B**
	LA160L4	15.0	**2KJ1003 - ■ JR13 - ■■■■**	2 638.–	**B**
E88	LA90S4	1.1	**2KJ1004 - ■ EL13 - ■■■■**	799.–	**A**
	LA90L4	1.5	**2KJ1004 - ■ EP13 - ■■■■**	848.–	**A**
	LA100L4	2.2	**2KJ1004 - ■ FL13 - ■■■■**	899.–	**A**
	LA100LB4	3.0	**2KJ1004 - ■ FM13 - ■■■■**	942.–	**A**
	LA112MB4	4.0	**2KJ1004 - ■ GH13 - ■■■■**	1 067.–	**A**
	LA132SB4	5.5	**2KJ1004 - ■ HF13 - ■■■■**	1 187.–	**A**
	LA132M4	7.5	**2KJ1004 - ■ HH13 - ■■■■**	1 629.–	**A**
	LA132ZMP4	9.2	**2KJ1004 - ■ HT13 - ■■■■**	1 786.–	**A**
	LA160MB4	11.0	**2KJ1004 - ■ JP13 - ■■■■**	2 094.–	**B**
	LA160L4	15.0	**2KJ1004 - ■ JR13 - ■■■■**	2 749.–	**B**
	LG180ZMB4	18.5	**2KJ1004 - ■ KL13 - ■■■■**	3 113.–	**B**
	LG180ZLB4	22.0	**2KJ1004 - ■ KP13 - ■■■■**	3 631.–	**B**
E108	LA90S4	1.1	**2KJ1005 - ■ EL13 - ■■■■**	1 158.–	**B**
	LA90L4	1.5	**2KJ1005 - ■ EP13 - ■■■■**	1 207.–	**B**
	LA100L4	2.2	**2KJ1005 - ■ FL13 - ■■■■**	1 258.–	**B**
	LA100LB4	3.0	**2KJ1005 - ■ FM13 - ■■■■**	1 301.–	**B**
	LA112MB4	4.0	**2KJ1005 - ■ GH13 - ■■■■**	1 426.–	**B**
	LA132SB4	5.5	**2KJ1005 - ■ HF13 - ■■■■**	1 546.–	**B**
	LA132M4	7.5	**2KJ1005 - ■ HH13 - ■■■■**	1 988.–	**B**
	LA132ZMP4	9.2	**2KJ1005 - ■ HT13 - ■■■■**	2 145.–	**B**
	LA160MB4	11.0	**2KJ1005 - ■ JP13 - ■■■■**	2 453.–	**B**
	LA160L4	15.0	**2KJ1005 - ■ JR13 - ■■■■**	3 108.–	**B**
	LG180ZMB4	18.5	**2KJ1005 - ■ KL13 - ■■■■**	3 472.–	**B**
	LG180ZLB4	22.0	**2KJ1005 - ■ KP13 - ■■■■**	3 990.–	**B**
	LG200LB4	30.0	**2KJ1005 - ■ LM13 - ■■■■**	4 884.–	**B**
	K4-LGI225S4	37.0	**2KJ1005 - ■ ME13 - ■■■■**	5 509.–	**C**
	K4-LGI225ZM4	45.0	**2KJ1005 - ■ MU13 - ■■■■**	5 919.–	**C**

Recommended prices

Selection and ordering data

1-stage helical geared motors E (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
E128	LA100L4	2.2	**2KJ1006 - ■ FL13 - ■■■■**	1 545.–	**B**
	LA100LB4	3.0	**2KJ1006 - ■ FM13 - ■■■■**	1 588.–	**B**
	LA112MB4	4.0	**2KJ1006 - ■ GH13 - ■■■■**	1 713.–	**B**
	LA132SB4	5.5	**2KJ1006 - ■ HF13 - ■■■■**	1 833.–	**B**
	LA132M4	7.5	**2KJ1006 - ■ HH13 - ■■■■**	2 275.–	**B**
	LA132ZMP4	9.2	**2KJ1006 - ■ HT13 - ■■■■**	2 432.–	**B**
	LA160MB4	11.0	**2KJ1006 - ■ JP13 - ■■■■**	2 740.–	**B**
	LA160L4	15.0	**2KJ1006 - ■ JR13 - ■■■■**	3 395.–	**B**
	LG180ZMB4	18.5	**2KJ1006 - ■ KL13 - ■■■■**	3 759.–	**B**
	LG180ZLB4	22.0	**2KJ1006 - ■ KP13 - ■■■■**	4 277.–	**B**
	LG200LB4	30.0	**2KJ1006 - ■ LM13 - ■■■■**	5 171.–	**B**
	LG225S4	37.0	**2KJ1006 - ■ ME13 - ■■■■**	5 796.–	**C**
	LG225ZM4	45.0	**2KJ1006 - ■ MU13 - ■■■■**	6 206.–	**C**
	K4-LGI250ZM4	55.0	**2KJ1006 - ■ NN13 - ■■■■**	8 222.–	**C**
E148	LA132SB4	5.5	**2KJ1007 - ■ HF13 - ■■■■**	2 659.–	**B**
	LA132M4	7.5	**2KJ1007 - ■ HH13 - ■■■■**	3 101.–	**B**
	LA132ZMP4	9.2	**2KJ1007 - ■ HT13 - ■■■■**	3 258.–	**B**
	LA160MB4	11.0	**2KJ1007 - ■ JP13 - ■■■■**	3 566.–	**B**
	LA160L4	15.0	**2KJ1007 - ■ JR13 - ■■■■**	4 221.–	**B**
	LG180ZMB4	18.5	**2KJ1007 - ■ KL13 - ■■■■**	4 585.–	**B**
	LG180ZLB4	22.0	**2KJ1007 - ■ KP13 - ■■■■**	5 103.–	**B**
	LG200LB4	30.0	**2KJ1007 - ■ LM13 - ■■■■**	5 997.–	**B**
	LG225S4	37.0	**2KJ1007 - ■ ME13 - ■■■■**	6 622.–	**C**
	LG225ZM4	45.0	**2KJ1007 - ■ MU13 - ■■■■**	7 032.–	**C**
	LG250ZM4	55.0	**2KJ1007 - ■ NN13 - ■■■■**	9 048.–	**C**
	K4-LGI280S4	75.0	**2KJ1007 - ■ PG13 - ■■■■**	11 207.–	**C**
	K4-LGI280ZM4	90.0	**2KJ1007 - ■ PW13 - ■■■■**	14 171.–	**C**

2-stage helical geared motors Z

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
Z18	LA71B4	0.12	**2KJ1100 - ■ CB13 - ■■■■**	323.–	**A**
	LA71C4	0.18	**2KJ1100 - ■ CC13 - ■■■■**	325.–	**A**
	LA71S4	0.25	**2KJ1100 - ■ CD13 - ■■■■**	330.–	**A**
	LA71M4	0.37	**2KJ1100 - ■ CE13 - ■■■■**	338.–	**A**
	LA71ZMP4	0.55	**2KJ1100 - ■ CG13 - ■■■■**	346.–	**A**
	LA71ZMD4	0.75	**2KJ1100 - ■ CH13 - ■■■■**	355.–	**A**
Z28	LA71B4	0.12	**2KJ1101 - ■ CB13 - ■■■■**	365.–	**A**
	LA71C4	0.18	**2KJ1101 - ■ CC13 - ■■■■**	367.–	**A**
	LA71S4	0.25	**2KJ1101 - ■ CD13 - ■■■■**	372.–	**A**
	LA71M4	0.37	**2KJ1101 - ■ CE13 - ■■■■**	380.–	**A**
	LA71ZMP4	0.55	**2KJ1101 - ■ CG13 - ■■■■**	388.–	**A**
	LA71ZMD4	0.75	**2KJ1101 - ■ CH13 - ■■■■**	397.–	**A**
	LA90S4	1.1	**2KJ1101 - ■ EL13 - ■■■■**	472.–	**A**
	LA90L4	1.5	**2KJ1101 - ■ EP13 - ■■■■**	521.–	**A**
	LA90ZLB4	2.2	**2KJ1101 - ■ EQ13 - ■■■■**	536.–	**A**
	LA100LB4	3.0	**2KJ1101 - ■ FM13 - ■■■■**	615.–	**A**
Z38	LA71B4	0.12	**2KJ1102 - ■ CB13 - ■■■■**	409.–	**A**
	LA71C4	0.18	**2KJ1102 - ■ CC13 - ■■■■**	411.–	**A**
	LA71S4	0.25	**2KJ1102 - ■ CD13 - ■■■■**	416.–	**A**
	LA71M4	0.37	**2KJ1102 - ■ CE13 - ■■■■**	424.–	**A**
	LA71ZMP4	0.55	**2KJ1102 - ■ CG13 - ■■■■**	432.–	**A**
	LA80M4	0.75	**2KJ1102 - ■ DC13 - ■■■■**	454.–	**A**
	LA90S4	1.1	**2KJ1102 - ■ EL13 - ■■■■**	516.–	**A**
	LA90L4	1.5	**2KJ1102 - ■ EP13 - ■■■■**	565.–	**A**
	LA100L4	2.2	**2KJ1102 - ■ FL13 - ■■■■**	616.–	**A**
	LA100LB4	3.0	**2KJ1102 - ■ FM13 - ■■■■**	659.–	**A**
	LA112MB4	4.0	**2KJ1102 - ■ GH13 - ■■■■**	784.–	**A**
Z48	LA71B4	0.12	**2KJ1103 - ■ CB13 - ■■■■**	461.–	**A**
	LA71C4	0.18	**2KJ1103 - ■ CC13 - ■■■■**	463.–	**A**
	LA71S4	0.25	**2KJ1103 - ■ CD13 - ■■■■**	468.–	**A**
	LA71M4	0.37	**2KJ1103 - ■ CE13 - ■■■■**	476.–	**A**
	LA71ZMP4	0.55	**2KJ1103 - ■ CG13 - ■■■■**	484.–	**A**
	LA80M4	0.75	**2KJ1103 - ■ DC13 - ■■■■**	506.–	**A**
	LA90S4	1.1	**2KJ1103 - ■ EL13 - ■■■■**	568.–	**A**
	LA90L4	1.5	**2KJ1103 - ■ EP13 - ■■■■**	617.–	**A**
	LA100L4	2.2	**2KJ1103 - ■ FL13 - ■■■■**	668.–	**A**
	LA100LB4	3.0	**2KJ1103 - ■ FM13 - ■■■■**	711.–	**A**
	LA112MB4	4.0	**2KJ1103 - ■ GH13 - ■■■■**	836.–	**A**
	LA132SB4	5.5	**2KJ1103 - ■ HF13 - ■■■■**	956.–	**A**
	LA132M4	7.5	**2KJ1103 - ■ HH13 - ■■■■**	1 398.–	**A**
	LA132ZMP4	9.2	**2KJ1103 - ■ HT13 - ■■■■**	1 555.–	**A**

Recommended prices

Selection and ordering data

2-stage helical geared motors Z (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
Z68	LA71B4	0.12	**2KJ1104 - ■ CB13 - ■■■■**	741.–	**A**
	LA71C4	0.18	**2KJ1104 - ■ CC13 - ■■■■**	743.–	**A**
	LA71S4	0.25	**2KJ1104 - ■ CD13 - ■■■■**	748.–	**A**
	LA71M4	0.37	**2KJ1104 - ■ CE13 - ■■■■**	756.–	**A**
	LA71ZMP4	0.55	**2KJ1104 - ■ CG13 - ■■■■**	764.–	**A**
	LA80M4	0.75	**2KJ1104 - ■ DC13 - ■■■■**	786.–	**A**
	LA90S4	1.1	**2KJ1104 - ■ EL13 - ■■■■**	848.–	**A**
	LA90L4	1.5	**2KJ1104 - ■ EP13 - ■■■■**	897.–	**A**
	LA100L4	2.2	**2KJ1104 - ■ FL13 - ■■■■**	948.–	**A**
	LA100LB4	3.0	**2KJ1104 - ■ FM13 - ■■■■**	991.–	**A**
	LA112MB4	4.0	**2KJ1104 - ■ GH13 - ■■■■**	1 116.–	**A**
	LA132SB4	5.5	**2KJ1104 - ■ HF13 - ■■■■**	1 236.–	**A**
	LA132M4	7.5	**2KJ1104 - ■ HH13 - ■■■■**	1 678.–	**A**
	LA132ZMP4	9.2	**2KJ1104 - ■ HT13 - ■■■■**	1 835.–	**A**
	LA160MB4	11.0	**2KJ1104 - ■ JP13 - ■■■■**	2 143.–	**B**
	LA160L4	15.0	**2KJ1104 - ■ JR13 - ■■■■**	2 798.–	**B**
Z88	LA90S4	1.1	**2KJ1105 - ■ EL13 - ■■■■**	1 155.–	**A**
	LA90L4	1.5	**2KJ1105 - ■ EP13 - ■■■■**	1 204.–	**A**
	LA100L4	2.2	**2KJ1105 - ■ FL13 - ■■■■**	1 255.–	**A**
	LA100LB4	3.0	**2KJ1105 - ■ FM13 - ■■■■**	1 298.–	**A**
	LA112MB4	4.0	**2KJ1105 - ■ GH13 - ■■■■**	1 423.–	**A**
	LA132SB4	5.5	**2KJ1105 - ■ HF13 - ■■■■**	1 543.–	**A**
	LA132M4	7.5	**2KJ1105 - ■ HH13 - ■■■■**	1 985.–	**A**
	LA132ZMP4	9.2	**2KJ1105 - ■ HT13 - ■■■■**	2 142.–	**A**
	LA160MB4	11.0	**2KJ1105 - ■ JP13 - ■■■■**	2 450.–	**B**
	LA160L4	15.0	**2KJ1105 - ■ JR13 - ■■■■**	3 105.–	**B**
	LG180ZMB4	18.5	**2KJ1105 - ■ KL13 - ■■■■**	3 469.–	**B**
	LG180ZLB4	22.0	**2KJ1105 - ■ KP13 - ■■■■**	3 987.–	**B**
Z108	LA90S4	1.1	**2KJ1106 - ■ EL13 - ■■■■**	1 747.–	**B**
	LA90L4	1.5	**2KJ1106 - ■ EP13 - ■■■■**	1 796.–	**B**
	LA100L4	2.2	**2KJ1106 - ■ FL13 - ■■■■**	1 847.–	**B**
	LA100LB4	3.0	**2KJ1106 - ■ FM13 - ■■■■**	1 890.–	**B**
	LA112MB4	4.0	**2KJ1106 - ■ GH13 - ■■■■**	2 015.–	**B**
	LA132SB4	5.5	**2KJ1106 - ■ HF13 - ■■■■**	2 135.–	**B**
	LA132M4	7.5	**2KJ1106 - ■ HH13 - ■■■■**	2 577.–	**B**
	LA132ZMP4	9.2	**2KJ1106 - ■ HT13 - ■■■■**	2 734.–	**B**
	LA160MB4	11.0	**2KJ1106 - ■ JP13 - ■■■■**	3 042.–	**B**
	LA160L4	15.0	**2KJ1106 - ■ JR13 - ■■■■**	3 697.–	**B**
	LG180ZMB4	18.5	**2KJ1106 - ■ KL13 - ■■■■**	4 061.–	**B**
	LG180ZLB4	22.0	**2KJ1106 - ■ KP13 - ■■■■**	4 579.–	**B**
	LG200LB4	30.0	**2KJ1106 - ■ LM13 - ■■■■**	5 473.–	**B**
	K4-LGI225S4	37.0	**2KJ1106 - ■ ME13 - ■■■■**	6 098.–	**C**
	K4-LGI225ZM4	45.0	**2KJ1106 - ■ MU13 - ■■■■**	6 508.–	**C**

2-stage helical geared motors Z (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
Z128	LA100L4	2.2	**2KJ1107 - ■ FL13 - ■■■■**	2 637.–	**B**
	LA100LB4	3.0	**2KJ1107 - ■ FM13 - ■■■■**	2 680.–	**B**
	LA112MB4	4.0	**2KJ1107 - ■ GH13 - ■■■■**	2 805.–	**B**
	LA132SB4	5.5	**2KJ1107 - ■ HF13 - ■■■■**	2 925.–	**B**
	LA132M4	7.5	**2KJ1107 - ■ HH13 - ■■■■**	3 367.–	**B**
	LA132ZMP4	9.2	**2KJ1107 - ■ HT13 - ■■■■**	3 524.–	**B**
	LA160MB4	11.0	**2KJ1107 - ■ JP13 - ■■■■**	3 832.–	**B**
	LA160LB4	15.0	**2KJ1107 - ■ JR13 - ■■■■**	4 487.–	**B**
	LG180ZMB4	18.5	**2KJ1107 - ■ KL13 - ■■■■**	4 851.–	**B**
	LG180ZLB4	22.0	**2KJ1107 - ■ KP13 - ■■■■**	5 369.–	**B**
	LG200LB4	30.0	**2KJ1107 - ■ LM13 - ■■■■**	6 263.–	**B**
	LG225S4	37.0	**2KJ1107 - ■ ME13 - ■■■■**	6 888.–	**C**
	LG225ZM4	45.0	**2KJ1107 - ■ MU13 - ■■■■**	7 298.–	**C**
	K4-LGI250ZM4	55.0	**2KJ1107 - ■ NN13 - ■■■■**	9 314.–	**C**
Z148	LA132SB4	5.5	**2KJ1108 - ■ HF13 - ■■■■**	4 546.–	**B**
	LA132M4	7.5	**2KJ1108 - ■ HH13 - ■■■■**	4 988.–	**B**
	LA132ZMP4	9.2	**2KJ1108 - ■ HT13 - ■■■■**	5 145.–	**B**
	LA160MB4	11.0	**2KJ1108 - ■ JP13 - ■■■■**	5 453.–	**B**
	LA160LB4	15.0	**2KJ1108 - ■ JR13 - ■■■■**	6 108.–	**B**
	LG180ZMB4	18.5	**2KJ1108 - ■ KL13 - ■■■■**	6 472.–	**B**
	LG180ZLB4	22.0	**2KJ1108 - ■ KP13 - ■■■■**	6 990.–	**B**
	LG200LB4	30.0	**2KJ1108 - ■ LM13 - ■■■■**	7 884.–	**B**
	LG225S4	37.0	**2KJ1108 - ■ ME13 - ■■■■**	8 509.–	**C**
	LG225ZM4	45.0	**2KJ1108 - ■ MU13 - ■■■■**	8 919.–	**C**
	LG250ZM4	55.0	**2KJ1108 - ■ NN13 - ■■■■**	10 935.–	**C**
	K4-LGI280S4	75.0	**2KJ1108 - ■ PG13 - ■■■■**	13 094.–	**C**
	K4-LGI280ZM4	90.0	**2KJ1108 - ■ PW13 - ■■■■**	16 058.–	**C**
Z168	LA132SB4	5.5	**2KJ1110 - ■ HF13 - ■■■■**	5 713.–	**B**
	LA132M4	7.5	**2KJ1110 - ■ HH13 - ■■■■**	6 155.–	**B**
	LA132ZMP4	9.2	**2KJ1110 - ■ HT13 - ■■■■**	6 312.–	**B**
	LA160MB4	11.0	**2KJ1110 - ■ JP13 - ■■■■**	6 620.–	**B**
	LA160LB4	15.0	**2KJ1110 - ■ JR13 - ■■■■**	7 275.–	**B**
	LG180ZMB4	18.5	**2KJ1110 - ■ KL13 - ■■■■**	7 639.–	**B**
	LG180ZLB4	22.0	**2KJ1110 - ■ KP13 - ■■■■**	8 157.–	**B**
	LG200LB4	30.0	**2KJ1110 - ■ LM13 - ■■■■**	9 051.–	**B**
	LG225S4	37.0	**2KJ1110 - ■ ME13 - ■■■■**	9 676.–	**C**
	LG225ZM4	45.0	**2KJ1110 - ■ MU13 - ■■■■**	10 086.–	**C**
	LG250ZM4	55.0	**2KJ1110 - ■ NN13 - ■■■■**	12 102.–	**C**
	K4-LGI280S4	75.0	**2KJ1110 - ■ PG13 - ■■■■**	14 261.–	**C**
	K4-LGI280ZM4	90.0	**2KJ1110 - ■ PW13 - ■■■■**	17 225.–	**C**

Selection and ordering data

2-stage helical geared motors Z (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
Z188	LA160MB4	11.0	**2KJ1111 - ■ JP13 - ■■■■**	9 343.–	**B**
	LA160LB4	15.0	**2KJ1111 - ■ JR13 - ■■■■**	9 998.–	**B**
	LG180ZMB4	18.5	**2KJ1111 - ■ KL13 - ■■■■**	10 362.–	**B**
	LG180ZLB4	22.0	**2KJ1111 - ■ KP13 - ■■■■**	10 880.–	**B**
	LG200LB4	30.0	**2KJ1111 - ■ LM13 - ■■■■**	11 774.–	**B**
	LG225S4	37.0	**2KJ1111 - ■ ME13 - ■■■■**	12 399.–	**C**
	LG225ZM4	45.0	**2KJ1111 - ■ MU13 - ■■■■**	12 809.–	**C**
	LG250ZM4	55.0	**2KJ1111 - ■ NN13 - ■■■■**	14 825.–	**C**
	K4-LGI280S4	75.0	**2KJ1111 - ■ PG13 - ■■■■**	16 984.–	**C**
	K4-LGI280ZM4	90.0	**2KJ1111 - ■ PW13 - ■■■■**	19 948.–	**C**
	K2-LGI315S4	110.0	**2KJ1111 - ■ QQ13 - ■■■■**	24 057.–	**E**
	K2-LGI315M4	132.0	**2KJ1111 - ■ QS13 - ■■■■**	26 141.–	**E**
	K2-LGI315L4	160.0	**2KJ1111 - ■ QU13 - ■■■■**	28 128.–	**E**
	K2-LGI315LB4	200.0	**2KJ1111 - ■ QV13 - ■■■■**	31 393.–	**E**

3-stage helical geared motors D

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
D18	LA71B4	0.12	**2KJ1200 - ■ CB13 - ■■■■**	358.–	**A**
	LA71C4	0.18	**2KJ1200 - ■ CC13 - ■■■■**	360.–	**A**
	LA71S4	0.25	**2KJ1200 - ■ CD13 - ■■■■**	365.–	**A**
	LA71M4	0.37	**2KJ1200 - ■ CE13 - ■■■■**	373.–	**A**
	LA71ZMP4	0.55	**2KJ1200 - ■ CG13 - ■■■■**	381.–	**A**
	LA71ZMD4	0.75	**2KJ1200 - ■ CH13 - ■■■■**	390.–	**A**
D28	LA71B4	0.12	**2KJ1201 - ■ CB13 - ■■■■**	392.–	**A**
	LA71C4	0.18	**2KJ1201 - ■ CC13 - ■■■■**	394.–	**A**
	LA71S4	0.25	**2KJ1201 - ■ CD13 - ■■■■**	399.–	**A**
	LA71M4	0.37	**2KJ1201 - ■ CE13 - ■■■■**	407.–	**A**
	LA71ZMP4	0.55	**2KJ1201 - ■ CG13 - ■■■■**	415.–	**A**
	LA71ZMD4	0.75	**2KJ1201 - ■ CH13 - ■■■■**	424.–	**A**
	LA90S4	1.1	**2KJ1201 - ■ EL13 - ■■■■**	499.–	**A**
	LA90L4	1.5	**2KJ1201 - ■ EP13 - ■■■■**	548.–	**A**
	LA90ZLB4	2.2	**2KJ1201 - ■ EQ13 - ■■■■**	563.–	**A**
D38	LA71B4	0.12	**2KJ1202 - ■ CB13 - ■■■■**	440.–	**A**
	LA71C4	0.18	**2KJ1202 - ■ CC13 - ■■■■**	442.–	**A**
	LA71S4	0.25	**2KJ1202 - ■ CD13 - ■■■■**	447.–	**A**
	LA71M4	0.37	**2KJ1202 - ■ CE13 - ■■■■**	455.–	**A**
	LA71ZMP4	0.55	**2KJ1202 - ■ CG13 - ■■■■**	463.–	**A**
	LA80M4	0.75	**2KJ1202 - ■ DC13 - ■■■■**	485.–	**A**
	LA90S4	1.1	**2KJ1202 - ■ EL13 - ■■■■**	547.–	**A**
	LA90L4	1.5	**2KJ1202 - ■ EP13 - ■■■■**	596.–	**A**
D48	LA71B4	0.12	**2KJ1203 - ■ CB13 - ■■■■**	533.–	**A**
	LA71C4	0.18	**2KJ1203 - ■ CC13 - ■■■■**	535.–	**A**
	LA71S4	0.25	**2KJ1203 - ■ CD13 - ■■■■**	540.–	**A**
	LA71M4	0.37	**2KJ1203 - ■ CE13 - ■■■■**	548.–	**A**
	LA71ZMP4	0.55	**2KJ1203 - ■ CG13 - ■■■■**	556.–	**A**
	LA80M4	0.75	**2KJ1203 - ■ DC13 - ■■■■**	578.–	**A**
	LA90S4	1.1	**2KJ1203 - ■ EL13 - ■■■■**	640.–	**A**
	LA90L4	1.5	**2KJ1203 - ■ EP13 - ■■■■**	689.–	**A**
	LA100L4	2.2	**2KJ1203 - ■ FL13 - ■■■■**	740.–	**A**
	LA100LB4	3.0	**2KJ1203 - ■ FM13 - ■■■■**	783.–	**A**
D68	LA71B4	0.12	**2KJ1204 - ■ CB13 - ■■■■**	922.–	**A**
	LA71C4	0.18	**2KJ1204 - ■ CC13 - ■■■■**	924.–	**A**
	LA71S4	0.25	**2KJ1204 - ■ CD13 - ■■■■**	929.–	**A**
	LA71M4	0.37	**2KJ1204 - ■ CE13 - ■■■■**	937.–	**A**
	LA71ZMP4	0.55	**2KJ1204 - ■ CG13 - ■■■■**	945.–	**A**
	LA80M4	0.75	**2KJ1204 - ■ DC13 - ■■■■**	967.–	**A**
	LA90S4	1.1	**2KJ1204 - ■ EL13 - ■■■■**	1 029.–	**A**
	LA90L4	1.5	**2KJ1204 - ■ EP13 - ■■■■**	1 078.–	**A**
	LA100L4	2.2	**2KJ1204 - ■ FL13 - ■■■■**	1 129.–	**A**
	LA100LB4	3.0	**2KJ1204 - ■ FM13 - ■■■■**	1 172.–	**A**

Recommended prices

Selection and ordering data

3-stage helical geared motors D (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
D88	LA71B4	0.12	**2KJ1205 - ■ CB13 - ■■■■**	1 323.–	**A**
	LA71C4	0.18	**2KJ1205 - ■ CC13 - ■■■■**	1 325.–	**A**
	LA71S4	0.25	**2KJ1205 - ■ CD13 - ■■■■**	1 330.–	**A**
	LA71M4	0.37	**2KJ1205 - ■ CE13 - ■■■■**	1 338.–	**A**
	LA71ZMP4	0.55	**2KJ1205 - ■ CG13 - ■■■■**	1 346.–	**A**
	LA80M4	0.75	**2KJ1205 - ■ DC13 - ■■■■**	1 368.–	**A**
	LA90S4	1.1	**2KJ1205 - ■ EL13 - ■■■■**	1 430.–	**A**
	LA90L4	1.5	**2KJ1205 - ■ EP13 - ■■■■**	1 479.–	**A**
	LA100L4	2.2	**2KJ1205 - ■ FL13 - ■■■■**	1 530.–	**A**
	LA100LB4	3.0	**2KJ1205 - ■ FM13 - ■■■■**	1 573.–	**A**
	LA112MB4	4.0	**2KJ1205 - ■ GH13 - ■■■■**	1 698.–	**A**
	LA132SB4	5.5	**2KJ1205 - ■ HF13 - ■■■■**	1 818.–	**A**
	LA132M4	7.5	**2KJ1205 - ■ HH13 - ■■■■**	2 260.–	**A**
	LA132ZMP4	9.2	**2KJ1205 - ■ HT13 - ■■■■**	2 417.–	**A**
D108	LA80M4	0.75	**2KJ1206 - ■ DC13 - ■■■■**	1 885.–	**B**
	LA90S4	1.1	**2KJ1206 - ■ EL13 - ■■■■**	1 947.–	**B**
	LA90L4	1.5	**2KJ1206 - ■ EP13 - ■■■■**	1 996.–	**B**
	LA100L4	2.2	**2KJ1206 - ■ FL13 - ■■■■**	2 047.–	**B**
	LA100LB4	3.0	**2KJ1206 - ■ FM13 - ■■■■**	2 090.–	**B**
	LA112MB4	4.0	**2KJ1206 - ■ GH13 - ■■■■**	2 215.–	**B**
	LA132SB4	5.5	**2KJ1206 - ■ HF13 - ■■■■**	2 335.–	**B**
	LA132M4	7.5	**2KJ1206 - ■ HH13 - ■■■■**	2 777.–	**B**
	LA132ZMP4	9.2	**2KJ1206 - ■ HT13 - ■■■■**	2 934.–	**B**
	LA160MB4	11.0	**2KJ1206 - ■ JP13 - ■■■■**	3 242.–	**B**
	LA160L4	15.0	**2KJ1206 - ■ JR13 - ■■■■**	3 897.–	**B**
D128	LA90S4	1.1	**2KJ1207 - ■ EL13 - ■■■■**	2 871.–	**B**
	LA90L4	1.5	**2KJ1207 - ■ EP13 - ■■■■**	2 920.–	**B**
	LA100L4	2.2	**2KJ1207 - ■ FL13 - ■■■■**	2 971.–	**B**
	LA100LB4	3.0	**2KJ1207 - ■ FM13 - ■■■■**	3 014.–	**B**
	LA112MB4	4.0	**2KJ1207 - ■ GH13 - ■■■■**	3 139.–	**B**
	LA132SB4	5.5	**2KJ1207 - ■ HF13 - ■■■■**	3 259.–	**B**
	LA132SM4	7.5	**2KJ1207 - ■ HH13 - ■■■■**	3 701.–	**B**
	LA132MP4	9.2	**2KJ1207 - ■ HT13 - ■■■■**	3 858.–	**B**
	LA160MB4	11.0	**2KJ1207 - ■ JP13 - ■■■■**	4 166.–	**B**
	LA160L4	15.0	**2KJ1207 - ■ JR13 - ■■■■**	4 821.–	**B**
	LG180ZMB4	18.5	**2KJ1207 - ■ KL13 - ■■■■**	5 185.–	**B**
	LG180ZLB4	22.0	**2KJ1207 - ■ KP13 - ■■■■**	5 703.–	**B**
	LG200LB4	30.0	**2KJ1207 - ■ LM13 - ■■■■**	6 597.–	**B**
D148	LA100L4	2.2	**2KJ1208 - ■ FL13 - ■■■■**	4 811.–	**B**
	LA100LB4	3.0	**2KJ1208 - ■ FM13 - ■■■■**	4 854.–	**B**
	LA112MB4	4.0	**2KJ1208 - ■ GH13 - ■■■■**	4 979.–	**B**
	LA132SB4	5.5	**2KJ1208 - ■ HF13 - ■■■■**	5 099.–	**B**
	LA132M4	7.5	**2KJ1208 - ■ HH13 - ■■■■**	5 541.–	**B**
	LA132ZMP4	9.2	**2KJ1208 - ■ HT13 - ■■■■**	5 698.–	**B**
	LA160MB4	11.0	**2KJ1208 - ■ JP13 - ■■■■**	6 006.–	**B**
	LA160L4	15.0	**2KJ1208 - ■ JR13 - ■■■■**	6 661.–	**B**

3-stage helical geared motors D (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
D148	LG180ZMB4	18.5	**2KJ1208 - ■ KL13 - ■■■■**	7 025.–	**B**
	LG180ZLB4	22.0	**2KJ1208 - ■ KP13 - ■■■■**	7 543.–	**B**
	LG200LB4	30.0	**2KJ1208 - ■ LM13 - ■■■■**	8 437.–	**B**
	LG225S4	37.0	**2KJ1208 - ■ ME13 - ■■■■**	9 062.–	**C**
	LG225ZM4	45.0	**2KJ1208 - ■ MU13 - ■■■■**	9 472.–	**C**
D168	LA132SB4	5.5	**2KJ1210 - ■ HF13 - ■■■■**	6 850.–	**B**
	LA132M4	7.5	**2KJ1210 - ■ HH13 - ■■■■**	7 292.–	**B**
	LA132ZMP4	9.2	**2KJ1210 - ■ HT13 - ■■■■**	7 449.–	**B**
	LA160MB4	11.0	**2KJ1210 - ■ JP13 - ■■■■**	7 757.–	**B**
	LA160L4	15.0	**2KJ1210 - ■ JR13 - ■■■■**	8 412.–	**B**
	LG180ZMB4	18.5	**2KJ1210 - ■ KL13 - ■■■■**	8 776.–	**B**
	LG180ZLB4	22.0	**2KJ1210 - ■ KP13 - ■■■■**	9 294.–	**B**
	LG200LB4	30.0	**2KJ1210 - ■ LM13 - ■■■■**	10 188.–	**B**
	LG225S4	37.0	**2KJ1210 - ■ ME13 - ■■■■**	10 813.–	**C**
	LG225ZM4	45.0	**2KJ1210 - ■ MU13 - ■■■■**	11 223.–	**C**
D188	LA132MB4	5.5	**2KJ1211 - ■ HF13 - ■■■■**	9 624.–	**B**
	LA132M4	7.5	**2KJ1211 - ■ HH13 - ■■■■**	10 066.–	**B**
	LA132ZMP4	9.2	**2KJ1211 - ■ HT13 - ■■■■**	10 223.–	**B**
	LA160MB4	11.0	**2KJ1211 - ■ JP13 - ■■■■**	10 531.–	**B**
	LA160L4	15.0	**2KJ1211 - ■ JR13 - ■■■■**	11 186.–	**B**
	LG180ZMB4	18.5	**2KJ1211 - ■ KL13 - ■■■■**	11 550.–	**B**
	LG180ZLB4	22.0	**2KJ1211 - ■ KP13 - ■■■■**	12 068.–	**B**
	LG200LB4	30.0	**2KJ1211 - ■ LM13 - ■■■■**	12 962.–	**B**
	LG225S4	37.0	**2KJ1211 - ■ ME13 - ■■■■**	13 587.–	**C**
	LG225ZM4	45.0	**2KJ1211 - ■ MU13 - ■■■■**	13 997.–	**C**
	LG250ZM4	55.0	**2KJ1211 - ■ NN13 - ■■■■**	16 013.–	**C**
	K4-LGI280S4	75.0	**2KJ1211 - ■ PG13 - ■■■■**	18 172.–	**C**
	K4-LGI280ZM4	90.0	**2KJ1211 - ■ PW13 - ■■■■**	21 136.–	**C**

Helical tandem geared motors

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
Z38 - Z28	LA71B4	0.12	**2KJ1112 - ■ CB13 - ■■■■**	697.–	**A**
	LA71C4	0.18	**2KJ1112 - ■ CC13 - ■■■■**	699.–	**A**
	LA71S4	0.25	**2KJ1112 - ■ CD13 - ■■■■**	704.–	**A**
	LA71M4	0.37	**2KJ1112 - ■ CE13 - ■■■■**	712.–	**A**
	LA71ZMP4	0.55	**2KJ1112 - ■ CG13 - ■■■■**	720.–	**A**
	LA71ZMD4	0.75	**2KJ1112 - ■ CH13 - ■■■■**	729.–	**A**
	LA90S4	1.1	**2KJ1112 - ■ EL13 - ■■■■**	804.–	**A**
	LA90L4	1.5	**2KJ1112 - ■ EP13 - ■■■■**	853.–	**A**
	LA90ZLB4	2.2	**2KJ1112 - ■ EQ13 - ■■■■**	868.–	**A**
	LA100LB4	3.0	**2KJ1112 - ■ FM13 - ■■■■**	947.–	**A**

Selection and ordering data

Helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
Z38 - D28	LA71B4	0.12	**2KJ1113 - ■ CB13 - ■■■■**	724.–	**A**
	LA71C4	0.18	**2KJ1113 - ■ CC13 - ■■■■**	726.–	**A**
	LA71S4	0.25	**2KJ1113 - ■ CD13 - ■■■■**	731.–	**A**
	LA71M4	0.37	**2KJ1113 - ■ CE13 - ■■■■**	739.–	**A**
	LA71ZMP4	0.55	**2KJ1113 - ■ CG13 - ■■■■**	747.–	**A**
	LA71ZMD4	0.75	**2KJ1113 - ■ CH13 - ■■■■**	756.–	**A**
	LA90S4	1.1	**2KJ1113 - ■ EL13 - ■■■■**	831.–	**A**
	LA90L4	1.5	**2KJ1113 - ■ EP13 - ■■■■**	880.–	**A**
	LA90ZLB4	2.2	**2KJ1113 - ■ EQ13 - ■■■■**	895.–	**A**
D48 - Z28	LA71B4	0.12	**2KJ1212 - ■ CB13 - ■■■■**	831.–	**A**
	LA71C4	0.18	**2KJ1212 - ■ CC13 - ■■■■**	833.–	**A**
	LA71S4	0.25	**2KJ1212 - ■ CD13 - ■■■■**	838.–	**A**
	LA71M4	0.37	**2KJ1212 - ■ CE13 - ■■■■**	846.–	**A**
	LA71ZMP4	0.55	**2KJ1212 - ■ CG13 - ■■■■**	854.–	**A**
	LA71ZMD4	0.75	**2KJ1212 - ■ CH13 - ■■■■**	863.–	**A**
	LA90S4	1.1	**2KJ1212 - ■ EL13 - ■■■■**	938.–	**A**
	LA90L4	1.5	**2KJ1212 - ■ EP13 - ■■■■**	987.–	**A**
	LA90ZLB4	2.2	**2KJ1212 - ■ EQ13 - ■■■■**	1 002.–	**A**
	LA100LB4	3.0	**2KJ1212 - ■ FM13 - ■■■■**	1 081.–	**A**
D48 - D28	LA71B4	0.12	**2KJ1213 - ■ CB13 - ■■■■**	859.–	**A**
	LA71C4	0.18	**2KJ1213 - ■ CC13 - ■■■■**	861.–	**A**
	LA71S4	0.25	**2KJ1213 - ■ CD13 - ■■■■**	866.–	**A**
	LA71M4	0.37	**2KJ1213 - ■ CE13 - ■■■■**	874.–	**A**
	LA71ZMP4	0.55	**2KJ1213 - ■ CG13 - ■■■■**	882.–	**A**
	LA71ZMD4	0.75	**2KJ1213 - ■ CH13 - ■■■■**	891.–	**A**
	LA90S4	1.1	**2KJ1213 - ■ EL13 - ■■■■**	966.–	**A**
	LA90L4	1.5	**2KJ1213 - ■ EP13 - ■■■■**	1 015.–	**A**
	LA90ZLB4	2.2	**2KJ1213 - ■ EQ13 - ■■■■**	1 030.–	**A**
D68 - Z28	LA71B4	0.12	**2KJ1214 - ■ CB13 - ■■■■**	1 221.–	**A**
	LA71C4	0.18	**2KJ1214 - ■ CC13 - ■■■■**	1 223.–	**A**
	LA71S4	0.25	**2KJ1214 - ■ CD13 - ■■■■**	1 228.–	**A**
	LA71M4	0.37	**2KJ1214 - ■ CE13 - ■■■■**	1 236.–	**A**
	LA71ZMP4	0.55	**2KJ1214 - ■ CG13 - ■■■■**	1 244.–	**A**
	LA71ZMD4	0.75	**2KJ1214 - ■ CH13 - ■■■■**	1 253.–	**A**
	LA90S4	1.1	**2KJ1214 - ■ EL13 - ■■■■**	1 328.–	**A**
	LA90L4	1.5	**2KJ1214 - ■ EP13 - ■■■■**	1 377.–	**A**
	LA90ZLB4	2.2	**2KJ1214 - ■ EQ13 - ■■■■**	1 392.–	**A**
	LA100LB4	3.0	**2KJ1214 - ■ FM13 - ■■■■**	1 471.–	**A**
D68 - D28	LA71B4	0.12	**2KJ1215 - ■ CB13 - ■■■■**	1 248.–	**A**
	LA71C4	0.18	**2KJ1215 - ■ CC13 - ■■■■**	1 250.–	**A**
	LA71S4	0.25	**2KJ1215 - ■ CD13 - ■■■■**	1 255.–	**A**
	LA71M4	0.37	**2KJ1215 - ■ CE13 - ■■■■**	1 263.–	**A**
	LA71ZMP4	0.55	**2KJ1215 - ■ CG13 - ■■■■**	1 271.–	**A**
	LA71ZMD4	0.75	**2KJ1215 - ■ CH13 - ■■■■**	1 280.–	**A**
	LA90S4	1.1	**2KJ1215 - ■ EL13 - ■■■■**	1 355.–	**A**

Helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
D68 - D28	LA90L4	1.5	**2KJ1215 - ■ EP13 - ■■■■**	1 404.–	**A**
	LA90ZLB4	2.2	**2KJ1215 - ■ EQ13 - ■■■■**	1 419.–	**A**
D88 - Z28	LA71B4	0.12	**2KJ1218 - ■ CB13 - ■■■■**	1 621.–	**C**
	LA71C4	0.18	**2KJ1218 - ■ CC13 - ■■■■**	1 623.–	**C**
	LA71S4	0.25	**2KJ1218 - ■ CD13 - ■■■■**	1 628.–	**C**
	LA71M4	0.37	**2KJ1218 - ■ CE13 - ■■■■**	1 636.–	**C**
	LA71ZMP4	0.55	**2KJ1218 - ■ CG13 - ■■■■**	1 644.–	**C**
	LA80M4	0.75	**2KJ1218 - ■ DC13 - ■■■■**	1 653.–	**C**
	LA90S4	1.1	**2KJ1218 - ■ EL13 - ■■■■**	1 728.–	**C**
	LA90L4	1.5	**2KJ1218 - ■ EP13 - ■■■■**	1 777.–	**C**
	LA90ZLB4	2.2	**2KJ1218 - ■ EQ13 - ■■■■**	1 792.–	**C**
	LA100LB4	3.0	**2KJ1218 - ■ FM13 - ■■■■**	1 871.–	**C**
D88 - D28	LA71B4	0.12	**2KJ1220 - ■ CB13 - ■■■■**	1 649.–	**C**
	LA71C4	0.18	**2KJ1220 - ■ CC13 - ■■■■**	1 651.–	**C**
	LA71S4	0.25	**2KJ1220 - ■ CD13 - ■■■■**	1 656.–	**C**
	LA71M4	0.37	**2KJ1220 - ■ CE13 - ■■■■**	1 664.–	**C**
	LA71ZMP4	0.55	**2KJ1220 - ■ CG13 - ■■■■**	1 672.–	**C**
	LA80M4	0.75	**2KJ1220 - ■ DC13 - ■■■■**	1 681.–	**C**
	LA90S4	1.1	**2KJ1220 - ■ EL13 - ■■■■**	1 756.–	**C**
	LA90L4	1.5	**2KJ1220 - ■ EP13 - ■■■■**	1 805.–	**C**
	LA90ZLB4	2.2	**2KJ1220 - ■ EQ13 - ■■■■**	1 820.–	**C**
D108 - Z38	LA71B4	0.12	**2KJ1223 - ■ CB13 - ■■■■**	2 227.–	**C**
	LA71C4	0.18	**2KJ1223 - ■ CC13 - ■■■■**	2 229.–	**C**
	LA71S4	0.25	**2KJ1223 - ■ CD13 - ■■■■**	2 234.–	**C**
	LA71M4	0.37	**2KJ1223 - ■ CE13 - ■■■■**	2 242.–	**C**
	LA71ZMP4	0.55	**2KJ1223 - ■ CG13 - ■■■■**	2 250.–	**C**
	LA80M4	0.75	**2KJ1223 - ■ DC13 - ■■■■**	2 272.–	**C**
	LA90S4	1.1	**2KJ1223 - ■ EL13 - ■■■■**	2 334.–	**C**
	LA90L4	1.5	**2KJ1223 - ■ EP13 - ■■■■**	2 383.–	**C**
	LA100L4	2.2	**2KJ1223 - ■ FL13 - ■■■■**	2 434.–	**C**
	LA100LB4	3.0	**2KJ1223 - ■ FM13 - ■■■■**	2 477.–	**C**
	LA112MB4	4.0	**2KJ1223 - ■ GH13 - ■■■■**	2 602.–	**C**
D108 - D38	LA71B4	0.12	**2KJ1224 - ■ CB13 - ■■■■**	2 399.–	**C**
	LA71C4	0.18	**2KJ1224 - ■ CC13 - ■■■■**	2 401.–	**C**
	LA71S4	0.25	**2KJ1224 - ■ CD13 - ■■■■**	2 406.–	**C**
	LA71M4	0.37	**2KJ1224 - ■ CE13 - ■■■■**	2 414.–	**C**
	LA71ZMP4	0.55	**2KJ1224 - ■ CG13 - ■■■■**	2 422.–	**C**
	LA80M4	0.75	**2KJ1224 - ■ DC13 - ■■■■**	2 444.–	**C**
	LA90S4	1.1	**2KJ1224 - ■ EL13 - ■■■■**	2 506.–	**C**
	LA90L4	1.5	**2KJ1224 - ■ EP13 - ■■■■**	2 555.–	**C**
D128 - Z48	LA71B4	0.12	**2KJ1227 - ■ CB13 - ■■■■**	3 680.–	**C**
	LA71C4	0.18	**2KJ1227 - ■ CC13 - ■■■■**	3 682.–	**C**
	LA71S4	0.25	**2KJ1227 - ■ CD13 - ■■■■**	3 687.–	**C**
	LA71M4	0.37	**2KJ1227 - ■ CE13 - ■■■■**	3 695.–	**C**
	LA71ZMP4	0.55	**2KJ1227 - ■ CG13 - ■■■■**	3 703.–	**C**

Recommended prices

Selection and ordering data

Helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
D128 - Z48	LA80M4	0.75	**2KJ1227 - ■ DC13 - ■■■■**	3 725.–	**C**
	LA90S4	1.1	**2KJ1227 - ■ EL13 - ■■■■**	3 787.–	**C**
	LA90L4	1.5	**2KJ1227 - ■ EP13 - ■■■■**	3 836.–	**C**
	LA100L4	2.2	**2KJ1227 - ■ FL13 - ■■■■**	3 887.–	**C**
	LA100LB4	3.0	**2KJ1227 - ■ FM13 - ■■■■**	3 930.–	**C**
	LA112MB4	4.0	**2KJ1227 - ■ GH13 - ■■■■**	4 055.–	**C**
	LA132SB4	5.5	**2KJ1227 - ■ HF13 - ■■■■**	4 175.–	**C**
	LA132SM4	7.5	**2KJ1227 - ■ HH13 - ■■■■**	4 617.–	**C**
	LA132MP4	9.2	**2KJ1227 - ■ HT13 - ■■■■**	4 774.–	**C**
D128 - Z38	LA71B4	0.12	**2KJ1225 - ■ CB13 - ■■■■**	3 613.–	**C**
	LA71C4	0.18	**2KJ1225 - ■ CC13 - ■■■■**	3 615.–	**C**
	LA71S4	0.25	**2KJ1225 - ■ CD13 - ■■■■**	3 620.–	**C**
	LA71M4	0.37	**2KJ1225 - ■ CE13 - ■■■■**	3 628.–	**C**
	LA71ZMP4	0.55	**2KJ1225 - ■ CG13 - ■■■■**	3 636.–	**C**
	LA80M4	0.75	**2KJ1225 - ■ DC13 - ■■■■**	3 658.–	**C**
	LA90S4	1.1	**2KJ1225 - ■ EL13 - ■■■■**	3 720.–	**C**
	LA90L4	1.5	**2KJ1225 - ■ EP13 - ■■■■**	3 769.–	**C**
	LA100L4	2.2	**2KJ1225 - ■ FL13 - ■■■■**	3 820.–	**C**
	LA100LB4	3.0	**2KJ1225 - ■ FM13 - ■■■■**	3 863.–	**C**
	LA112MB4	4.0	**2KJ1225 - ■ GH13 - ■■■■**	3 988.–	**C**
D128 - D38	LA71B4	0.12	**2KJ1226 - ■ CB13 - ■■■■**	3 753.–	**C**
	LA71C4	0.18	**2KJ1226 - ■ CC13 - ■■■■**	3 755.–	**C**
	LA71S4	0.25	**2KJ1226 - ■ CD13 - ■■■■**	3 760.–	**C**
	LA71M4	0.37	**2KJ1226 - ■ CE13 - ■■■■**	3 768.–	**C**
	LA71ZMP4	0.55	**2KJ1226 - ■ CG13 - ■■■■**	3 776.–	**C**
	LA80M4	0.75	**2KJ1226 - ■ DC13 - ■■■■**	3 798.–	**C**
	LA90S4	1.1	**2KJ1226 - ■ EL13 - ■■■■**	3 860.–	**C**
	LA90L4	1.5	**2KJ1226 - ■ EP13 - ■■■■**	3 909.–	**C**
D148 - Z48	LA71B4	0.12	**2KJ1231 - ■ CB13 - ■■■■**	5 365.–	**C**
	LA71C4	0.18	**2KJ1231 - ■ CC13 - ■■■■**	5 367.–	**C**
	LA71S4	0.25	**2KJ1231 - ■ CD13 - ■■■■**	5 372.–	**C**
	LA71M4	0.37	**2KJ1231 - ■ CE13 - ■■■■**	5 380.–	**C**
	LA71ZMP4	0.55	**2KJ1231 - ■ CG13 - ■■■■**	5 388.–	**C**
	LA80M4	0.75	**2KJ1231 - ■ DC13 - ■■■■**	5 410.–	**C**
	LA90S4	1.1	**2KJ1231 - ■ EL13 - ■■■■**	5 472.–	**C**
	LA90L4	1.5	**2KJ1231 - ■ EP13 - ■■■■**	5 521.–	**C**
	LA100L4	2.2	**2KJ1231 - ■ FL13 - ■■■■**	5 572.–	**C**
	LA100LB4	3.0	**2KJ1231 - ■ FM13 - ■■■■**	5 615.–	**C**
	LA112MB4	4.0	**2KJ1231 - ■ GH13 - ■■■■**	5 740.–	**C**
	LA132SB4	5.5	**2KJ1231 - ■ HF13 - ■■■■**	5 860.–	**C**
	LA132M4	7.5	**2KJ1231 - ■ HH13 - ■■■■**	6 302.–	**C**
	LA132ZMP4	9.2	**2KJ1231 - ■ HT13 - ■■■■**	6 459.–	**C**
D148 - Z38	LA71B4	0.12	**2KJ1228 - ■ CB13 - ■■■■**	5 238.–	**C**
	LA71C4	0.18	**2KJ1228 - ■ CC13 - ■■■■**	5 240.–	**C**
	LA71S4	0.25	**2KJ1228 - ■ CD13 - ■■■■**	5 245.–	**C**
	LA71M4	0.37	**2KJ1228 - ■ CE13 - ■■■■**	5 253.–	**C**

Helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
D148 - Z38	LA71ZMP4	0.55	**2KJ1228 - ■ CG13 - ■■■■**	5 261.–	**C**
	LA80M4	0.75	**2KJ1228 - ■ DC13 - ■■■■**	5 283.–	**C**
	LA90S4	1.1	**2KJ1228 - ■ EL13 - ■■■■**	5 345.–	**C**
	LA90L4	1.5	**2KJ1228 - ■ EP13 - ■■■■**	5 394.–	**C**
	LA100L4	2.2	**2KJ1228 - ■ FL13 - ■■■■**	5 445.–	**C**
	LA100LB4	3.0	**2KJ1228 - ■ FM13 - ■■■■**	5 488.–	**C**
	LA112MB4	4.0	**2KJ1228 - ■ GH13 - ■■■■**	5 613.–	**C**
D148 - D38	LA71B4	0.12	**2KJ1230 - ■ CB13 - ■■■■**	5 444.–	**C**
	LA71C4	0.18	**2KJ1230 - ■ CC13 - ■■■■**	5 446.–	**C**
	LA71S4	0.25	**2KJ1230 - ■ CD13 - ■■■■**	5 451.–	**C**
	LA71M4	0.37	**2KJ1230 - ■ CE13 - ■■■■**	5 459.–	**C**
	LA71ZMP4	0.55	**2KJ1230 - ■ CG13 - ■■■■**	5 467.–	**C**
	LA80M4	0.75	**2KJ1230 - ■ DC13 - ■■■■**	5 489.–	**C**
	LA90S4	1.1	**2KJ1230 - ■ EL13 - ■■■■**	5 551.–	**C**
	LA90L4	1.5	**2KJ1230 - ■ EP13 - ■■■■**	5 600.–	**C**
D168 - Z68	LA80M4	0.75	**2KJ1233 - ■ DC13 - ■■■■**	7 427.–	**C**
	LA90S4	1.1	**2KJ1233 - ■ EL13 - ■■■■**	7 489.–	**C**
	LA90L4	1.5	**2KJ1233 - ■ EP13 - ■■■■**	7 538.–	**C**
	LA100L4	2.2	**2KJ1233 - ■ FL13 - ■■■■**	7 589.–	**C**
	LA100LB4	3.0	**2KJ1233 - ■ FM13 - ■■■■**	7 632.–	**C**
	LA112MB4	4.0	**2KJ1233 - ■ GH13 - ■■■■**	7 757.–	**C**
	LA132SB4	5.5	**2KJ1233 - ■ HF13 - ■■■■**	7 877.–	**C**
	LA132M4	7.5	**2KJ1233 - ■ HH13 - ■■■■**	8 319.–	**C**
	LA132ZMP4	9.2	**2KJ1233 - ■ HT13 - ■■■■**	8 476.–	**C**
	LA160MB4	11.0	**2KJ1233 - ■ JP13 - ■■■■**	8 784.–	**C**
	LA160L4	15.0	**2KJ1233 - ■ JR13 - ■■■■**	9 439.–	**C**
D168 - Z48	LA71B4	0.12	**2KJ1232 - ■ CB13 - ■■■■**	7 351.–	**C**
	LA71C4	0.18	**2KJ1232 - ■ CC13 - ■■■■**	7 353.–	**C**
	LA71S4	0.25	**2KJ1232 - ■ CD13 - ■■■■**	7 358.–	**C**
	LA71M4	0.37	**2KJ1232 - ■ CE13 - ■■■■**	7 366.–	**C**
	LA71ZMP4	0.55	**2KJ1232 - ■ CG13 - ■■■■**	7 374.–	**C**
	LA80M4	0.75	**2KJ1232 - ■ DC13 - ■■■■**	7 396.–	**C**
	LA90S4	1.1	**2KJ1232 - ■ EL13 - ■■■■**	7 458.–	**C**
	LA90L4	1.5	**2KJ1232 - ■ EP13 - ■■■■**	7 507.–	**C**
	LA100L4	2.2	**2KJ1232 - ■ FL13 - ■■■■**	7 558.–	**C**
	LA100LB4	3.0	**2KJ1232 - ■ FM13 - ■■■■**	7 601.–	**C**
	LA112MB4	4.0	**2KJ1232 - ■ GH13 - ■■■■**	7 726.–	**C**
	LA132SB4	5.5	**2KJ1232 - ■ HF13 - ■■■■**	7 846.–	**C**
	LA132M4	7.5	**2KJ1232 - ■ HH13 - ■■■■**	8 288.–	**C**
	LA132ZMP4	9.2	**2KJ1232 - ■ HT13 - ■■■■**	8 445.–	**C**
D168 - D48	LA71B4	0.12	**2KJ1234 - ■ CB13 - ■■■■**	7 755.–	**C**
	LA71C4	0.18	**2KJ1234 - ■ CC13 - ■■■■**	7 757.–	**C**
	LA71S4	0.25	**2KJ1234 - ■ CD13 - ■■■■**	7 762.–	**C**
	LA71M4	0.37	**2KJ1234 - ■ CE13 - ■■■■**	7 770.–	**C**
	LA71ZMP4	0.55	**2KJ1234 - ■ CG13 - ■■■■**	7 778.–	**C**

Selection and ordering data

Helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
D168 - D48	LA80M4	0.75	**2KJ1234 - ■ DC13 - ■■■■**	7 800.–	**C**
	LA90S4	1.1	**2KJ1234 - ■ EL13 - ■■■■**	7 862.–	**C**
	LA90L4	1.5	**2KJ1234 - ■ EP13 - ■■■■**	7 911.–	**C**
	LA100L4	2.2	**2KJ1234 - ■ FL13 - ■■■■**	7 962.–	**C**
	LA100LB4	3.0	**2KJ1234 - ■ FM13 - ■■■■**	8 005.–	**C**
D188 - Z68	LA80M4	0.75	**2KJ1237 - ■ DC13 - ■■■■**	10 341.–	**C**
	LA90S4	1.1	**2KJ1237 - ■ EL13 - ■■■■**	10 403.–	**C**
	LA90L4	1.5	**2KJ1237 - ■ EP13 - ■■■■**	10 452.–	**C**
	LA100L4	2.2	**2KJ1237 - ■ FL13 - ■■■■**	10 503.–	**C**
	LA100LB4	3.0	**2KJ1237 - ■ FM13 - ■■■■**	10 546.–	**C**
	LA112MB4	4.0	**2KJ1237 - ■ GH13 - ■■■■**	10 671.–	**C**
	LA132SB4	5.5	**2KJ1237 - ■ HF13 - ■■■■**	10 791.–	**C**
	LA132M4	7.5	**2KJ1237 - ■ HH13 - ■■■■**	11 233.–	**C**
	LA132ZMP4	9.2	**2KJ1237 - ■ HT13 - ■■■■**	11 390.–	**C**
	LA160MB4	11.0	**2KJ1237 - ■ JP13 - ■■■■**	11 698.–	**C**
	LA160L4	15.0	**2KJ1237 - ■ JR13 - ■■■■**	12 353.–	**C**
D188 - Z48	LA71B4	0.12	**2KJ1235 - ■ CB13 - ■■■■**	10 133.–	**C**
	LA71C4	0.18	**2KJ1235 - ■ CC13 - ■■■■**	10 135.–	**C**
	LA71S4	0.25	**2KJ1235 - ■ CD13 - ■■■■**	10 140.–	**C**
	LA71M4	0.37	**2KJ1235 - ■ CE13 - ■■■■**	10 148.–	**C**
	LA71ZMP4	0.55	**2KJ1235 - ■ CG13 - ■■■■**	10 156.–	**C**
	LA80M4	0.75	**2KJ1235 - ■ DC13 - ■■■■**	10 178.–	**C**
	LA90S4	1.1	**2KJ1235 - ■ EL13 - ■■■■**	10 240.–	**C**
	LA90L4	1.5	**2KJ1235 - ■ EP13 - ■■■■**	10 289.–	**C**
	LA100L4	2.2	**2KJ1235 - ■ FL13 - ■■■■**	10 340.–	**C**
	LA100LB4	3.0	**2KJ1235 - ■ FM13 - ■■■■**	10 383.–	**C**
	LA112MB4	4.0	**2KJ1235 - ■ GH13 - ■■■■**	10 508.–	**C**
	LA132SB4	5.5	**2KJ1235 - ■ HF13 - ■■■■**	10 628.–	**C**
	LA132M4	7.5	**2KJ1235 - ■ HH13 - ■■■■**	11 070.–	**C**
	LA132ZMP4	9.2	**2KJ1235 - ■ HT13 - ■■■■**	11 227.–	**C**
D188 - D48	LA71B4	0.12	**2KJ1236 - ■ CB13 - ■■■■**	10 588.–	**C**
	LA71C4	0.18	**2KJ1236 - ■ CC13 - ■■■■**	10 590.–	**C**
	LA71S4	0.25	**2KJ1236 - ■ CD13 - ■■■■**	10 595.–	**C**
	LA71M4	0.37	**2KJ1236 - ■ CE13 - ■■■■**	10 603.–	**C**
	LA71ZMP4	0.55	**2KJ1236 - ■ CG13 - ■■■■**	10 611.–	**C**
	LA80M4	0.75	**2KJ1236 - ■ DC13 - ■■■■**	10 633.–	**C**
	LA90S4	1.1	**2KJ1236 - ■ EL13 - ■■■■**	10 695.–	**C**
	LA90L4	1.5	**2KJ1236 - ■ EP13 - ■■■■**	10 744.–	**C**
	LA100L4	2.2	**2KJ1236 - ■ FL13 - ■■■■**	10 795.–	**C**
	LA100LB4	3.0	**2KJ1236 - ■ FM13 - ■■■■**	10 838.–	**C**

Mounting types

Gearbox size			38	48	68	88	108	128	148	
Mounting type	**Order number 14th position**	**Order code**	**Additional cost in EUR**							**DTC**
Foot-mounted design	**A**	**–**	✓	✓	✓	✓	✓	✓	✓	**A**
Flange-mounted design (A-type)	**F**	**H01 … H05**	20.–	45.–	56.–	70.–	88.–	128.–	195.–	**A**
Housing flange (C-type)	**H**	**–**	❒	❒	❒	❒	❒	❒	❒	**A**
Cooling tower design	**K**	**–**				159.–	177.–	205.–	245.–	**D**

Shaft designs

Gearbox size			38	48	68	88	108	128	148	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**							**DTC**
Solid shaft with feather key										
	1	**–**	❒	❒	❒	❒	❒	✓	✓	**A**
	2	**–**	✓	✓	✓	✓	✓			**A**

Special designs

Lubricants

Gearbox size		38	48	68	88	108	128	148	
Designation acc. to DIN 51502	**Order code**	**Additional cost in EUR**							**DTC**
Standard oils									
CLP ISO VG220	**K06**	✓	✓	✓	✓	✓	✓	✓	**A**
CLP ISO PG VG220	**K07**	5.–	8.–	15.–	29.–	49.–	84.–	112.–	**A**
CLP ISO PG VG460	**K08**	5.–	8.–	15.–	29.–	49.–	84.–	112.–	**A**
Oils for low-temperature application									
CLP ISO PAO VG220	**K12** *)	13.–	21.–	37.–	69.–	117.–	202.–	270.–	**A**
CLP ISO PAO VG68	**K13** *)	13.–	23.–	39.–	74.–	125.–	217.–	289.–	**A**
Physiologically safe oils (approved for the food industry) in acc. with USDA H1									
CLP ISO H1 VG460	**K11** *)	14.–	24.–	42.–	78.–	132.–	231.–	307.–	**A**
Biologically degradable oils									
CLP ISO E VG220	**K10** *)	14.–	24.–	42.–	78.–	132.–	231.–	307.–	**A**

*) on request

Additional options

Gearbox size		38	48	68	88	108	128	148	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Oil level control									
Oil sight glass	**G34**		19.–	19.–	19.–	19.–	19.–	24.–	**A**
Electrical oil level monitoring system									
Capacitive sensor	•		•	•	•	•	•	•	•
Isolation amplifier 24V	•		•	•	•	•	•	•	•
Gearbox ventilation									
Breather filter	**G44**		✓	✓	✓	✓	✓	✓	**A**
Pressure breather valve	**G45**		11.–	11.–	16.–	16.–	16.–	28.–	**A**
Oil drain									
Oil drain plug magnetic	**G53**		19.–	19.–	19.–	19.–	19.–	24.–	**C**
Oil drain valve, straight	**G54**		91.–	91.–	91.–	91.–	91.–	132.–	**A**
Oil drain valve, angled	•		•	•	•	•	•	•	•
Sealing									
Combination shaft sealing	**G24**	29.–	39.–	45.–	67.–	70.–	75.–	105.–	**C**
High temperature-resistant seal (Viton)	**G25**	25.–	34.–	39.–	45.–	50.–	56.–	75.–	**B**
Flange for agitator in dry-well design									
Design with sight glass	**G89**	–	–	40.–	40.–	40.–	40.–	40.–	**B**
Design with sensor	**G90**	–	–	386.–	386.–	386.–	386.–	386.–	**B**
Regreasing device	•	–	•	•	•	•	•	•	•
Additional options									
Radially reinforced output shaft bearings	**G20**	50.–	56.–	93.–	122.–	152.–	182.–	302.–	**B**
Axially reinforced output shaft bearings	•	•	•	•	•	•	•	•	•

Mounting types

Gearbox size			18	28	38	48	68	88	108	128	148	168	188	
Mounting type	**Order number 14th position**	**Order code**	**Additional cost in EUR**											**DTC**
Foot-mounted design	**A**	**–**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
Flange-mounted design (A-type)	**F**	**H02 … H06**	28.–	35.–	35.–	41.–	60.–	71.–	95.–	141.–	224.–	304.–	334.–	**A**
Housing flange (C-type)	**H**	**–**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
Cooling tower design *)	**K**	**–**					147.–	159.–	177.–	205.–	245.–	252.–	641.–	**D**
Flange for agitator	**R**	**–**					373.–	395.–	599.–	930.–	1 664.–	2 162.–		**D**

*) selectable only for 2-stage helical gearboxes Z

Shaft designs

Gearbox size			18	28	38	48	68	88	108	128	148	168	188	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**											**DTC**
Helical gearboxes, flange-mounted design (A-type)														
Solid shaft with feather key	**1**	**–**	–	✓	❒	❒	❒	❒	❒	❒	❒	❒	✓	**A**
	2	**–**	✓		✓	✓	✓	✓	✓	✓	✓	✓		**A**
Helical gearbox with flange for agitator														
Solid shaft with feather key	**2**	**–**					✓	✓	✓		✓			**A**
	9	**H1A**								✓		✓		**A**

Special designs

Lubricants

Gearbox size		18	28	38	48	68	88	108	128	148	168	188	
Designation acc. to DIN 51502	**Order code**	**Additional cost in EUR**											**DTC**
Standard oils													
CLP ISO VG220	**K06**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
CLP ISO PG VG220	**K07**	4.–	6.–	10.–	20.–	35.–	75.–	120.–	167.–	226.–	380.–	561.–	**A**
CLP ISO PG VG460	**K08**	4.–	6.–	10.–	20.–	35.–	75.–	120.–	167.–	226.–	380.–	561.–	**A**
Oils for low-temperature application													
CLP ISO PAO VG220	**K12** *)	10.–	14.–	23.–	49.–	84.–	181.–	290.–	405.–	545.–	918.–	1 356.–	**A**
CLP ISO PAO VG68	**K13** *)	11.–	15.–	25.–	53.–	90.–	194.–	310.–	432.–	583.–	981.–	1 449.–	**A**
Physiologically safe oils (approved for the food industry) in acc. with USDA H1													
CLP ISO H1 VG460	**K11** *)	12.–	16.–	26.–	56.–	96.–	206.–	330.–	460.–	620.–	1 044.–	1 543.–	**A**
Biologically degradable oils													
CLP ISO E VG220	**K10** *)	12.–	16.–	26.–	56.–	96.–	206.–	330.–	460.–	620.–	1 044.–	1 543.–	**A**

*) on request

Special designs (continued)

Additional options

Gearbox size		18	28	38	48	68	88	108	128	148	168	188	
Design	**Order code**	**Additional cost in EUR**											**DTC**
Oil level control													
Oil sight glass	**G34**				19.–	19.–	19.–	19.–	19.–	42.–	42.–	42.–	**A**
Electrical oil level monitoring system													
Capacitive sensor	•				•	•	•	•	•	•	•	•	•
Isolation amplifier 24V	•				•	•	•	•	•	•	•	•	•
Gearbox ventilation													
Vent filter	**G44**				✓	✓	✓	✓	✓	✓	✓	✓	**A**
Pressure breather valve	**G45**				11.–	11.–	16.–	16.–	16.–	38.–	38.–	49.–	**A**
Oil drain													
Oil drain plug magnetic	**G53**				19.–	19.–	19.–	19.–	19.–	24.–	24.–	42.–	**C**
Oil drain valve, straight	**G54**				91.–	91.–	91.–	91.–	91.–	132.–	132.–	132.–	**A**
Oil drain valve, angled	•				•	•	•	•	•	•	•	•	•
Sealing													
Dual radial shaft seal	**G22 + G31**											128.–	**A**
Dual sealing MSS1	**G23**	29.–	29.–										**C**
Combination shaft sealing	**G24**			29.–	39.–	45.–	67.–	70.–	75.–	105.–	118.–		**C**
High temperature-resistant seal (Viton)	**G25**	21.–	25.–	25.–	34.–	39.–	45.–	50.–	56.–	75.–	122.–	194.–	**B**
Flange for agitator in dry-well design													
Design with sight glass	**G89**					42.–	42.–	42.–	42.–	42.–	42.–		**A**
Design with sensor	**G90**					409.–	409.–	409.–	409.–	409.–	409.–		**B**
Regreasing device	•	–	–	•	•	•	•	•	•	•	•		•
Additional options													
Radially reinforced output shaft bearings	**G20**					93.–	122.–	152.–	182.–	302.–	1)	1)	**B**
Axially reinforced output shaft bearings	•					•	•	•	•	•			•

1) For these sizes, the standard bearings are already reinforced.

STANDARD DRIVES
Parallel shaft geared motors

3

Orientation

Overview

The parallel shaft gearboxes are designated as follows:

Gearbox type:

F Parallel shaft gearbox

Transmission stage
Z 2-stage
D 3-stage

Type:

Shaft
(-) Solid shaft
A Hollow shaft

Mounting
(-) Foot-mounted design
F Flange-mounted design (A-type)
Z Housing flange (C-type)
D Torque arm
M Agitator/mixer flange
E Extruder flange

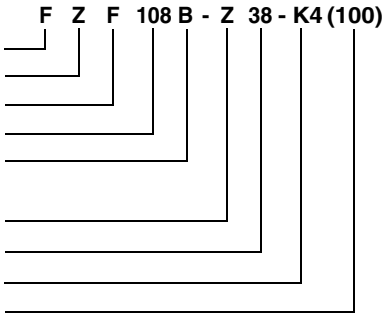
Connection
(-) Feather key
S Shrink disk
T Hollow shaft with splined shaft

Type of intermediate gearbox:

(-) Helical gearbox

Transmission stage
Z 2-stage
D 3-stage

Example:



2-stage parallel shaft geared motors FZ

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FZ28	LA71B4	0.12	**2KJ1300 - ■ CB13 - ■■■■**	541.–	**A**
	LA71C4	0.18	**2KJ1300 - ■ CC13 - ■■■■**	543.–	**A**
	LA71S4	0.25	**2KJ1300 - ■ CD13 - ■■■■**	548.–	**A**
	LA71M4	0.37	**2KJ1300 - ■ CE13 - ■■■■**	556.–	**A**
	LA71ZMP4	0.55	**2KJ1300 - ■ CG13 - ■■■■**	564.–	**A**
	LA71ZMD4	0.75	**2KJ1300 - ■ CH13 - ■■■■**	573.–	**A**
	LA90S4	1.1	**2KJ1300 - ■ EL13 - ■■■■**	648.–	**A**
	LA90L4	1.5	**2KJ1300 - ■ EP13 - ■■■■**	697.–	**A**
	LA90ZLB4	2.2	**2KJ1300 - ■ EQ13 - ■■■■**	712.–	**A**
	LA100LB4	3.0	**2KJ1300 - ■ FM13 - ■■■■**	791.–	**A**
FZ38B	LA71B4	0.12	**2KJ1301 - ■ CB13 - ■■■■**	631.–	**A**
	LA71C4	0.18	**2KJ1301 - ■ CC13 - ■■■■**	633.–	**A**
	LA71S4	0.25	**2KJ1301 - ■ CD13 - ■■■■**	638.–	**A**
	LA71ZMP4	0.37	**2KJ1301 - ■ CE13 - ■■■■**	646.–	**A**
	LA71ZMD4	0.55	**2KJ1301 - ■ CG13 - ■■■■**	654.–	**A**
	LA80M4	0.75	**2KJ1301 - ■ DC13 - ■■■■**	676.–	**A**
	LA90S4	1.1	**2KJ1301 - ■ EL13 - ■■■■**	738.–	**A**
	LA90L4	1.5	**2KJ1301 - ■ EP13 - ■■■■**	787.–	**A**
	LA100L4	2.2	**2KJ1301 - ■ FL13 - ■■■■**	838.–	**A**
	LA100LB4	3.0	**2KJ1301 - ■ FM13 - ■■■■**	881.–	**A**
FZ48B	LA71B4	0.12	**2KJ1302 - ■ CB13 - ■■■■**	704.–	**A**
	LA71C4	0.18	**2KJ1302 - ■ CC13 - ■■■■**	706.–	**A**
	LA71S4	0.25	**2KJ1302 - ■ CD13 - ■■■■**	711.–	**A**
	LA71M4	0.37	**2KJ1302 - ■ CE13 - ■■■■**	719.–	**A**
	LA71ZMP4	0.55	**2KJ1302 - ■ CG13 - ■■■■**	727.–	**A**

2-stage parallel shaft geared motors FZ (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FZ48B	LA80M4	0.75	**2KJ1302 - ■ DC13 - ■■■■**	749.–	**A**
	LA90S4	1.1	**2KJ1302 - ■ EL13 - ■■■■**	811.–	**A**
	LA90L4	1.5	**2KJ1302 - ■ EP13 - ■■■■**	860.–	**A**
	LA100L4	2.2	**2KJ1302 - ■ FL13 - ■■■■**	911.–	**A**
	LA100LB4	3.0	**2KJ1302 - ■ FM13 - ■■■■**	954.–	**A**
	LA112MB4	4.0	**2KJ1302 - ■ GH13 - ■■■■**	1 079.–	**A**
FZ68B	LA80M4	0.75	**2KJ1303 - ■ DC13 - ■■■■**	994.–	**A**
	LA90S4	1.1	**2KJ1303 - ■ EL13 - ■■■■**	1 056.–	**A**
	LA90L4	1.5	**2KJ1303 - ■ EP13 - ■■■■**	1 105.–	**A**
	LA100L4	2.2	**2KJ1303 - ■ FL13 - ■■■■**	1 156.–	**A**
	LA100LB4	3.0	**2KJ1303 - ■ FM13 - ■■■■**	1 199.–	**A**
	LA112MB4	4.0	**2KJ1303 - ■ GH13 - ■■■■**	1 324.–	**A**
	LA132SB4	5.5	**2KJ1303 - ■ HF13 - ■■■■**	1 444.–	**A**
	LA132M4	7.5	**2KJ1303 - ■ HH13 - ■■■■**	1 886.–	**A**
	LA132ZMP4	9.2	**2KJ1303 - ■ HT13 - ■■■■**	2 043.–	**A**
FZ88B	LA80M4	0.75	**2KJ1304 - ■ DC13 - ■■■■**	1 306.–	**A**
	LA90S4	1.1	**2KJ1304 - ■ EL13 - ■■■■**	1 368.–	**A**
	LA90L4	1.5	**2KJ1304 - ■ EP13 - ■■■■**	1 417.–	**A**
	LA100L4	2.2	**2KJ1304 - ■ FL13 - ■■■■**	1 468.–	**A**
	LA100LB4	3.0	**2KJ1304 - ■ FM13 - ■■■■**	1 511.–	**A**
	LA112MB4	4.0	**2KJ1304 - ■ GH13 - ■■■■**	1 636.–	**A**
	LA132SB4	5.5	**2KJ1304 - ■ HF13 - ■■■■**	1 756.–	**A**
	LA132M4	7.5	**2KJ1304 - ■ HH13 - ■■■■**	2 198.–	**A**
	LA132ZMP4	9.2	**2KJ1304 - ■ HT13 - ■■■■**	2 355.–	**A**
	LA160MB4	11.0	**2KJ1304 - ■ JP13 - ■■■■**	2 663.–	**B**
	LA160L4	15.0	**2KJ1304 - ■ JR13 - ■■■■**	3 318.–	**B**
FZ108B	LA100L4	2.2	**2KJ1305 - ■ FL13 - ■■■■**	1 958.–	**B**
	LA100LB4	3.0	**2KJ1305 - ■ FM13 - ■■■■**	2 001.–	**B**
	LA112MB4	4.0	**2KJ1305 - ■ GH13 - ■■■■**	2 126.–	**B**
	LA132SB4	5.5	**2KJ1305 - ■ HF13 - ■■■■**	2 246.–	**B**
	LA132M4	7.5	**2KJ1305 - ■ HH13 - ■■■■**	2 688.–	**B**
	LA132ZMP4	9.2	**2KJ1305 - ■ HT13 - ■■■■**	2 845.–	**B**
	LA160MB4	11.0	**2KJ1305 - ■ JP13 - ■■■■**	3 153.–	**B**
	LA160L4	15.0	**2KJ1305 - ■ JR13 - ■■■■**	3 808.–	**B**
	LG180ZMB4	18.5	**2KJ1305 - ■ KL13 - ■■■■**	4 172.–	**B**
	LG180ZLB4	22.0	**2KJ1305 - ■ KP13 - ■■■■**	4 690.–	**B**
	LG200LB4	30.0	**2KJ1305 - ■ LM13 - ■■■■**	5 584.–	**B**
FZ128B	LA112MB4	4.0	**2KJ1306 - ■ GH13 - ■■■■**	3 169.–	**B**
	LA132SB4	5.5	**2KJ1306 - ■ HF13 - ■■■■**	3 289.–	**B**
	LA132M4	7.5	**2KJ1306 - ■ HH13 - ■■■■**	3 731.–	**B**
	LA132ZMP4	9.2	**2KJ1306 - ■ HT13 - ■■■■**	3 888.–	**B**
	LA160MB4	11.0	**2KJ1306 - ■ JP13 - ■■■■**	4 196.–	**B**
	LA160L4	15.0	**2KJ1306 - ■ JR13 - ■■■■**	4 851.–	**B**

Selection and ordering data

2-stage parallel shaft geared motors FZ (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FZ128B	LG180ZMB4	18.5	**2KJ1306 - ■ KL13 - ■■■■**	5 215.–	**B**
	LG180ZLB4	22.0	**2KJ1306 - ■ KP13 - ■■■■**	5 733.–	**B**
	LG200LB4	30.0	**2KJ1306 - ■ LM13 - ■■■■**	6 627.–	**B**
	K4-LGI225S4	37.0	**2KJ1306 - ■ ME13 - ■■■■**	7 252.–	**C**
	K4-LGI225ZM4	45.0	**2KJ1306 - ■ MU13 - ■■■■**	7 662.–	**C**
FZ148B	LA132SB4	5.5	**2KJ1307 - ■ HF13 - ■■■■**	4 934.–	**B**
	LA132M4	7.5	**2KJ1307 - ■ HH13 - ■■■■**	5 376.–	**B**
	LA132ZMP4	9.2	**2KJ1307 - ■ HT13 - ■■■■**	5 533.–	**B**
	LA160MB4	11.0	**2KJ1307 - ■ JP13 - ■■■■**	5 841.–	**B**
	LA160L4	15.0	**2KJ1307 - ■ JR13 - ■■■■**	6 496.–	**B**
	LG180ZMB4	18.5	**2KJ1307 - ■ KL13 - ■■■■**	6 860.–	**B**
	LG180ZLB4	22.0	**2KJ1307 - ■ KP13 - ■■■■**	7 378.–	**B**
	LG200LB4	30.0	**2KJ1307 - ■ LM13 - ■■■■**	8 272.–	**B**
	LG225S4	37.0	**2KJ1307 - ■ ME13 - ■■■■**	8 897.–	**C**
	LG225ZM4	45.0	**2KJ1307 - ■ MU13 - ■■■■**	9 307.–	**C**
	K4-LGI250ZM4	55.0	**2KJ1307 - ■ NN13 - ■■■■**	11 323.–	**C**
FZ168B	LA132SB4	5.5	**2KJ1308 - ■ HF13 - ■■■■**	6 066.–	**B**
	LA132M4	7.5	**2KJ1308 - ■ HH13 - ■■■■**	6 508.–	**B**
	LA132ZMP4	9.2	**2KJ1308 - ■ HT13 - ■■■■**	6 665.–	**B**
	LA160MB4	11.0	**2KJ1308 - ■ JP13 - ■■■■**	6 973.–	**B**
	LA160L4	15.0	**2KJ1308 - ■ JR13 - ■■■■**	7 628.–	**B**
	LG180ZMB4	18.5	**2KJ1308 - ■ KL13 - ■■■■**	7 992.–	**B**
	LG180ZLB4	22.0	**2KJ1308 - ■ KP13 - ■■■■**	8 510.–	**B**
	LG200LB4	30.0	**2KJ1308 - ■ LM13 - ■■■■**	9 404.–	**B**
	LG225S4	37.0	**2KJ1308 - ■ ME13 - ■■■■**	10 029.–	**C**
	LG225ZM4	45.0	**2KJ1308 - ■ MU13 - ■■■■**	10 439.–	**C**
	LG250ZM4	55.0	**2KJ1308 - ■ NN13 - ■■■■**	12 455.–	**C**
	K4-LGI280S4	75.0	**2KJ1308 - ■ PG13 - ■■■■**	14 614.–	**C**
	K4-LGI280ZM4	90.0	**2KJ1308 - ■ PW13 - ■■■■**	17 578.–	**C**
FZ188B	LA160MB4	11.0	**2KJ1310 - ■ JP13 - ■■■■**	9 052.–	**B**
	LA160L4	15.0	**2KJ1310 - ■ JR13 - ■■■■**	9 707.–	**B**
	LG180ZMB4	18.5	**2KJ1310 - ■ KL13 - ■■■■**	10 071.–	**B**
	LG180ZLB4	22.0	**2KJ1310 - ■ KP13 - ■■■■**	10 589.–	**B**
	LG200LB4	30.0	**2KJ1310 - ■ LM13 - ■■■■**	11 483.–	**B**
	LG225S4	37.0	**2KJ1310 - ■ ME13 - ■■■■**	12 108.–	**C**
	LG225ZM4	45.0	**2KJ1310 - ■ MU13 - ■■■■**	12 518.–	**C**
	LG250ZM4	55.0	**2KJ1310 - ■ NN13 - ■■■■**	14 534.–	**C**
	LG280S4	75.0	**2KJ1310 - ■ PG13 - ■■■■**	16 693.–	**C**
	LG280ZM4	90.0	**2KJ1310 - ■ PW13 - ■■■■**	19 657.–	**C**
	K2-LGI315S4	110.0	**2KJ1310 - ■ QQ13 - ■■■■**	23 766.–	**E**
	K2-LGI315M4	132.0	**2KJ1310 - ■ QS13 - ■■■■**	25 850.–	**E**
	K2-LGI315L4	160.0	**2KJ1310 - ■ QU13 - ■■■■**	27 837.–	**E**
	K2-LGI315LB4	200.0	**2KJ1310 - ■ QV13 - ■■■■**	31 102.–	**E**

3-stage parallel shaft geared motors FD

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FD28	LA71B4	0.12	**2KJ1400 - ■ CB13 - ■■■■**	583.–	**A**
	LA71C4	0.18	**2KJ1400 - ■ CC13 - ■■■■**	585.–	**A**
	LA71S4	0.25	**2KJ1400 - ■ CD13 - ■■■■**	590.–	**A**
	LA71M4	0.37	**2KJ1400 - ■ CE13 - ■■■■**	598.–	**A**
	LA71ZMP4	0.55	**2KJ1400 - ■ CG13 - ■■■■**	606.–	**A**
	LA71ZMD4	0.75	**2KJ1400 - ■ CH13 - ■■■■**	615.–	**A**
	LA90S4	1.1	**2KJ1400 - ■ EL13 - ■■■■**	690.–	**A**
	LA90L4	1.5	**2KJ1400 - ■ EP13 - ■■■■**	739.–	**A**
	LA90ZLB4	2.2	**2KJ1400 - ■ EQ13 - ■■■■**	754.–	**A**
FD38B	LA71B4	0.12	**2KJ1401 - ■ CB13 - ■■■■**	679.–	**A**
	LA71C4	0.18	**2KJ1401 - ■ CC13 - ■■■■**	681.–	**A**
	LA71S4	0.25	**2KJ1401 - ■ CD13 - ■■■■**	686.–	**A**
	LA71M4	0.37	**2KJ1401 - ■ CE13 - ■■■■**	694.–	**A**
	LA71ZMP4	0.55	**2KJ1401 - ■ CG13 - ■■■■**	702.–	**A**
	LA80M4	0.75	**2KJ1401 - ■ DC13 - ■■■■**	724.–	**A**
	LA90S4	1.1	**2KJ1401 - ■ EL13 - ■■■■**	786.–	**A**
	LA90L4	1.5	**2KJ1401 - ■ EP13 - ■■■■**	835.–	**A**
FD48B	LA71B4	0.12	**2KJ1402 - ■ CB13 - ■■■■**	760.–	**A**
	LA71C4	0.18	**2KJ1402 - ■ CC13 - ■■■■**	762.–	**A**
	LA71S4	0.25	**2KJ1402 - ■ CD13 - ■■■■**	767.–	**A**
	LA71M4	0.37	**2KJ1402 - ■ CE13 - ■■■■**	775.–	**A**
	LA71ZMP4	0.55	**2KJ1402 - ■ CG13 - ■■■■**	783.–	**A**
	LA80M4	0.75	**2KJ1402 - ■ DC13 - ■■■■**	805.–	**A**
	LA90S4	1.1	**2KJ1402 - ■ EL13 - ■■■■**	867.–	**A**
	LA90L4	1.5	**2KJ1402 - ■ EP13 - ■■■■**	916.–	**A**
	LA100L4	2.2	**2KJ1402 - ■ FL13 - ■■■■**	967.–	**A**
	LA100LB4	3.0	**2KJ1402 - ■ FM13 - ■■■■**	1 010.–	**A**
FD68B	LA71B4	0.12	**2KJ1403 - ■ CB13 - ■■■■**	1 017.–	**A**
	LA71C4	0.18	**2KJ1403 - ■ CC13 - ■■■■**	1 019.–	**A**
	LA71S4	0.25	**2KJ1403 - ■ CD13 - ■■■■**	1 024.–	**A**
	LA71M4	0.37	**2KJ1403 - ■ CE13 - ■■■■**	1 032.–	**A**
	LA71ZMP4	0.55	**2KJ1403 - ■ CG13 - ■■■■**	1 040.–	**A**
	LA80M4	0.75	**2KJ1403 - ■ DC13 - ■■■■**	1 062.–	**A**
	LA90S4	1.1	**2KJ1403 - ■ EL13 - ■■■■**	1 124.–	**A**
	LA90L4	1.5	**2KJ1403 - ■ EP13 - ■■■■**	1 173.–	**A**
	LA100L4	2.2	**2KJ1403 - ■ FL13 - ■■■■**	1 224.–	**A**
	LA100LB4	3.0	**2KJ1403 - ■ FM13 - ■■■■**	1 267.–	**A**
FD88B	LA71B4	0.12	**2KJ1404 - ■ CB13 - ■■■■**	1 477.–	**A**
	LA71C4	0.18	**2KJ1404 - ■ CC13 - ■■■■**	1 479.–	**A**
	LA71S4	0.25	**2KJ1404 - ■ CD13 - ■■■■**	1 484.–	**A**
	LA71M4	0.37	**2KJ1404 - ■ CE13 - ■■■■**	1 492.–	**A**
	LA71ZMP4	0.55	**2KJ1404 - ■ CG13 - ■■■■**	1 500.–	**A**
	LA80M4	0.75	**2KJ1404 - ■ DC13 - ■■■■**	1 522.–	**A**
	LA90S4	1.1	**2KJ1404 - ■ EL13 - ■■■■**	1 584.–	**A**

Recommended prices

Selection and ordering data

3-stage parallel shaft geared motors FD (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FD88B	LA90L4	1.5	**2KJ1404 - ■ EP13 - ■■■■**	1 633.–	**A**
	LA100L4	2.2	**2KJ1404 - ■ FL13 - ■■■■**	1 684.–	**A**
	LA100LB4	3.0	**2KJ1404 - ■ FM13 - ■■■■**	1 727.–	**A**
	LA112MB4	4.0	**2KJ1404 - ■ GH13 - ■■■■**	1 852.–	**A**
	LA132SB4	5.5	**2KJ1404 - ■ HF13 - ■■■■**	1 972.–	**A**
	LA132M4	7.5	**2KJ1404 - ■ HH13 - ■■■■**	2 414.–	**A**
	LA132ZMP4	9.2	**2KJ1404 - ■ HT13 - ■■■■**	2 571.–	**A**
FD108B	LA80M4	0.75	**2KJ1405 - ■ DC13 - ■■■■**	2 103.–	**B**
	LA90S4	1.1	**2KJ1405 - ■ EL13 - ■■■■**	2 165.–	**B**
	LA90L4	1.5	**2KJ1405 - ■ EP13 - ■■■■**	2 214.–	**B**
	LA100L4	2.2	**2KJ1405 - ■ FL13 - ■■■■**	2 265.–	**B**
	LA100LB4	3.0	**2KJ1405 - ■ FM13 - ■■■■**	2 308.–	**B**
	LA112MB4	4.0	**2KJ1405 - ■ GH13 - ■■■■**	2 433.–	**B**
	LA132SB4	5.5	**2KJ1405 - ■ HF13 - ■■■■**	2 553.–	**B**
	LA132M4	7.5	**2KJ1405 - ■ HH13 - ■■■■**	2 995.–	**B**
	LA132ZMP4	9.2	**2KJ1405 - ■ HT13 - ■■■■**	3 152.–	**B**
	LA160MB4	11.0	**2KJ1405 - ■ JP13 - ■■■■**	3 460.–	**B**
	LA160L4	15.0	**2KJ1405 - ■ JR13 - ■■■■**	4 115.–	**B**
FD128B	LA90S4	1.1	**2KJ1406 - ■ EL13 - ■■■■**	3 360.–	**B**
	LA90L4	1.5	**2KJ1406 - ■ EP13 - ■■■■**	3 409.–	**B**
	LA100L4	2.2	**2KJ1406 - ■ FL13 - ■■■■**	3 460.–	**B**
	LA100LB4	3.0	**2KJ1406 - ■ FM13 - ■■■■**	3 503.–	**B**
	LA112MB4	4.0	**2KJ1406 - ■ GH13 - ■■■■**	3 628.–	**B**
	LA132SB4	5.5	**2KJ1406 - ■ HF13 - ■■■■**	3 748.–	**B**
	LA132M4	7.5	**2KJ1406 - ■ HH13 - ■■■■**	4 190.–	**B**
	LA132ZMP4	9.2	**2KJ1406 - ■ HT13 - ■■■■**	4 347.–	**B**
	LA160MB4	11.0	**2KJ1406 - ■ JP13 - ■■■■**	4 655.–	**B**
	LA160L4	15.0	**2KJ1406 - ■ JR13 - ■■■■**	5 310.–	**B**
	LG180ZMB4	18.5	**2KJ1406 - ■ KL13 - ■■■■**	5 674.–	**B**
	LG180ZLB4	22.0	**2KJ1406 - ■ KP13 - ■■■■**	6 192.–	**B**
	LG200LB4	30.0	**2KJ1406 - ■ LM13 - ■■■■**	7 086.–	**B**
FD148B	LA100L4	2.2	**2KJ1407 - ■ FL13 - ■■■■**	4 871.–	**B**
	LA100LB4	3.0	**2KJ1407 - ■ FM13 - ■■■■**	4 914.–	**B**
	LA112MB4	4.0	**2KJ1407 - ■ GH13 - ■■■■**	5 039.–	**B**
	LA132SB4	5.5	**2KJ1407 - ■ HF13 - ■■■■**	5 159.–	**B**
	LA132M4	7.5	**2KJ1407 - ■ HH13 - ■■■■**	5 601.–	**B**
	LA132ZMP4	9.2	**2KJ1407 - ■ HT13 - ■■■■**	5 758.–	**B**
	LA160MB4	11.0	**2KJ1407 - ■ JP13 - ■■■■**	6 066.–	**B**
	LA160L4	15.0	**2KJ1407 - ■ JR13 - ■■■■**	6 721.–	**B**
	LG180ZMB4	18.5	**2KJ1407 - ■ KL13 - ■■■■**	7 085.–	**B**
	LG180ZLB4	22.0	**2KJ1407 - ■ KP13 - ■■■■**	7 603.–	**B**
	LG200LB4	30.0	**2KJ1407 - ■ LM13 - ■■■■**	8 497.–	**B**
	LG225S4	37.0	**2KJ1407 - ■ ME13 - ■■■■**	9 122.–	**C**
	LG225ZM4	45.0	**2KJ1407 - ■ MU13 - ■■■■**	9 532.–	**C**

3-stage parallel shaft geared motors FD (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FD168B	LA132SB4	5.5	**2KJ1408 - ■ HF13 - ■■■■**	6 398.–	**B**
	LA132M4	7.5	**2KJ1408 - ■ HH13 - ■■■■**	6 840.–	**B**
	LA132ZMP4	9.2	**2KJ1408 - ■ HT13 - ■■■■**	6 997.–	**B**
	LA160MB4	11.0	**2KJ1408 - ■ JP13 - ■■■■**	7 305.–	**B**
	LA160L4	15.0	**2KJ1408 - ■ JR13 - ■■■■**	7 960.–	**B**
	LG180ZMB4	18.5	**2KJ1408 - ■ KL13 - ■■■■**	8 324.–	**B**
	LG180ZLB4	22.0	**2KJ1408 - ■ KP13 - ■■■■**	8 842.–	**B**
	LG200LB4	30.0	**2KJ1408 - ■ LM13 - ■■■■**	9 736.–	**B**
	LG225S4	37.0	**2KJ1408 - ■ ME13 - ■■■■**	10 361.–	**C**
	LG225ZM4	45.0	**2KJ1408 - ■ MU13 - ■■■■**	10 771.–	**C**
	LG250ZM4	55.0	**2KJ1408 - ■ NN13 - ■■■■**	12 787.–	**C**
FD188B	LA132SB4	5.5	**2KJ1410 - ■ HF13 - ■■■■**	9 682.–	**B**
	LA132M4	7.5	**2KJ1410 - ■ HH13 - ■■■■**	10 124.–	**B**
	LA132ZMP4	9.2	**2KJ1410 - ■ HT13 - ■■■■**	10 281.–	**B**
	LA160MB4	11.0	**2KJ1410 - ■ JP13 - ■■■■**	10 589.–	**B**
	LA160L4	15.0	**2KJ1410 - ■ JR13 - ■■■■**	11 244.–	**B**
	LG180ZMB4	18.5	**2KJ1410 - ■ KL13 - ■■■■**	11 608.–	**B**
	LG180ZLB4	22.0	**2KJ1410 - ■ KP13 - ■■■■**	12 126.–	**B**
	LG200LB4	30.0	**2KJ1410 - ■ LM13 - ■■■■**	13 020.–	**B**
	LG225S4	37.0	**2KJ1410 - ■ ME13 - ■■■■**	13 645.–	**C**
	LG225ZM4	45.0	**2KJ1410 - ■ MU13 - ■■■■**	14 055.–	**C**
	LG250ZM4	55.0	**2KJ1410 - ■ NN13 - ■■■■**	16 071.–	**C**
	K4-LGI280S4	75.0	**2KJ1410 - ■ PG13 - ■■■■**	18 230.–	**C**
	K4-LGI280ZM4	90.0	**2KJ1410 - ■ PW13 - ■■■■**	21 194.–	**C**

Selection and ordering data

Parallel shaft tandem geared motors

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FZ38B-Z28	LA71B4	0.12	**2KJ1313 - ■ CB13 - ■■■■**	929.–	**A**
	LA71C4	0.18	**2KJ1313 - ■ CC13 - ■■■■**	931.–	**A**
	LA71S4	0.25	**2KJ1313 - ■ CD13 - ■■■■**	936.–	**A**
	LA71M4	0.37	**2KJ1313 - ■ CE13 - ■■■■**	944.–	**A**
	LA71ZMP4	0.55	**2KJ1313 - ■ CG13 - ■■■■**	952.–	**A**
	LA71ZMD4	0.75	**2KJ1313 - ■ CH13 - ■■■■**	961.–	**A**
	LA90S4	1.1	**2KJ1313 - ■ EL13 - ■■■■**	1 036.–	**A**
	LA90L4	1.5	**2KJ1313 - ■ EP13 - ■■■■**	1 085.–	**A**
	LA90ZLB4	2.2	**2KJ1313 - ■ EQ13 - ■■■■**	1 100.–	**A**
	LA100LB4	3.0	**2KJ1313 - ■ FM13 - ■■■■**	1 179.–	**A**
FZ38B-D28	LA71B4	0.12	**2KJ1314 - ■ CB13 - ■■■■**	956.–	**A**
	LA71C4	0.18	**2KJ1314 - ■ CC13 - ■■■■**	958.–	**A**
	LA71S4	0.25	**2KJ1314 - ■ CD13 - ■■■■**	963.–	**A**
	LA71M4	0.37	**2KJ1314 - ■ CE13 - ■■■■**	971.–	**A**
	LA71ZMP4	0.55	**2KJ1314 - ■ CG13 - ■■■■**	979.–	**A**
	LA71ZMD4	0.75	**2KJ1314 - ■ CH13 - ■■■■**	988.–	**A**
	LA90S4	1.1	**2KJ1314 - ■ EL13 - ■■■■**	1 063.–	**A**
	LA90L4	1.5	**2KJ1314 - ■ EP13 - ■■■■**	1 112.–	**A**
	LA90ZLB4	2.2	**2KJ1314 - ■ EQ13 - ■■■■**	1 127.–	**A**
FD48B-Z28	LA71B4	0.12	**2KJ1414 - ■ CB13 - ■■■■**	1 058.–	**A**
	LA71C4	0.18	**2KJ1414 - ■ CC13 - ■■■■**	1 060.–	**A**
	LA71S4	0.25	**2KJ1414 - ■ CD13 - ■■■■**	1 065.–	**A**
	LA71M4	0.37	**2KJ1414 - ■ CE13 - ■■■■**	1 073.–	**A**
	LA71ZMP4	0.55	**2KJ1414 - ■ CG13 - ■■■■**	1 081.–	**A**
	LA71ZMD4	0.75	**2KJ1414 - ■ CH13 - ■■■■**	1 090.–	**A**
	LA90S4	1.1	**2KJ1414 - ■ EL13 - ■■■■**	1 165.–	**A**
	LA90L4	1.5	**2KJ1414 - ■ EP13 - ■■■■**	1 214.–	**A**
	LA90ZLB4	2.2	**2KJ1414 - ■ EQ13 - ■■■■**	1 229.–	**A**
FD48B-D28	LA71B4	0.12	**2KJ1414 - ■ CB13 - ■■■■**	1 086.–	**A**
	LA71C4	0.18	**2KJ1414 - ■ CC13 - ■■■■**	1 088.–	**A**
	LA71S4	0.25	**2KJ1414 - ■ CD13 - ■■■■**	1 093.–	**A**
	LA71M4	0.37	**2KJ1414 - ■ CE13 - ■■■■**	1 101.–	**A**
	LA71ZMP4	0.55	**2KJ1414 - ■ CG13 - ■■■■**	1 109.–	**A**
	LA71ZMD4	0.75	**2KJ1414 - ■ CH13 - ■■■■**	1 118.–	**A**
	LA90S4	1.1	**2KJ1414 - ■ EL13 - ■■■■**	1 193.–	**A**
	LA90L4	1.5	**2KJ1414 - ■ EP13 - ■■■■**	1 242.–	**A**
	LA90ZLB4	2.2	**2KJ1414 - ■ EQ13 - ■■■■**	1 257.–	**A**

Parallel shaft tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FD68B-Z28	LA71B4	0.12	**2KJ1417 - ■ CB13 - ■■■■**	1 316.–	**A**
	LA71C4	0.18	**2KJ1417 - ■ CC13 - ■■■■**	1 318.–	**A**
	LA71S4	0.25	**2KJ1417 - ■ CD13 - ■■■■**	1 323.–	**A**
	LA71M4	0.37	**2KJ1417 - ■ CE13 - ■■■■**	1 331.–	**A**
	LA71ZMP4	0.55	**2KJ1417 - ■ CG13 - ■■■■**	1 339.–	**A**
	LA71ZMD4	0.75	**2KJ1417 - ■ CH13 - ■■■■**	1 348.–	**A**
	LA90S4	1.1	**2KJ1417 - ■ EL13 - ■■■■**	1 423.–	**A**
	LA90L4	1.5	**2KJ1417 - ■ EP13 - ■■■■**	1 472.–	**A**
	LA90ZLB4	2.2	**2KJ1417 - ■ EQ13 - ■■■■**	1 487.–	**A**
	LA100LB4	3.0	**2KJ1417 - ■ FM13 - ■■■■**	1 566.–	**A**
FD68B-D28	LA71B4	0.12	**2KJ1418 - ■ CB13 - ■■■■**	1 342.–	**A**
	LA71C4	0.18	**2KJ1418 - ■ CC13 - ■■■■**	1 344.–	**A**
	LA71S4	0.25	**2KJ1418 - ■ CD13 - ■■■■**	1 349.–	**A**
	LA71M4	0.37	**2KJ1418 - ■ CE13 - ■■■■**	1 357.–	**A**
	LA71ZMP4	0.55	**2KJ1418 - ■ CG13 - ■■■■**	1 365.–	**A**
	LA71ZMD4	0.75	**2KJ1418 - ■ CH13 - ■■■■**	1 374.–	**A**
	LA90S4	1.1	**2KJ1418 - ■ EL13 - ■■■■**	1 449.–	**A**
	LA90L4	1.5	**2KJ1418 - ■ EP13 - ■■■■**	1 498.–	**A**
	LA90ZLB4	2.2	**2KJ1418 - ■ EQ13 - ■■■■**	1 513.–	**A**
FD88B-Z28	LA71B4	0.12	**2KJ1422 - ■ CB13 - ■■■■**	1 775.–	**C**
	LA71C4	0.18	**2KJ1422 - ■ CC13 - ■■■■**	1 777.–	**C**
	LA71S4	0.25	**2KJ1422 - ■ CD13 - ■■■■**	1 782.–	**C**
	LA71M4	0.37	**2KJ1422 - ■ CE13 - ■■■■**	1 790.–	**C**
	LA71ZMP4	0.55	**2KJ1422 - ■ CG13 - ■■■■**	1 798.–	**C**
	LA71ZMD4	0.75	**2KJ1422 - ■ CH13 - ■■■■**	1 807.–	**C**
	LA90S4	1.1	**2KJ1422 - ■ EL13 - ■■■■**	1 882.–	**C**
	LA90L4	1.5	**2KJ1422 - ■ EP13 - ■■■■**	1 931.–	**C**
	LA90ZLB4	2.2	**2KJ1422 - ■ EQ13 - ■■■■**	1 946.–	**C**
	LA100LB4	3.0	**2KJ1422 - ■ FM13 - ■■■■**	2 025.–	**C**
FD88B-D28	LA71B4	0.12	**2KJ1423 - ■ CB13 - ■■■■**	1 802.–	**C**
	LA71C4	0.18	**2KJ1423 - ■ CC13 - ■■■■**	1 804.–	**C**
	LA71S4	0.25	**2KJ1423 - ■ CD13 - ■■■■**	1 809.–	**C**
	LA71M4	0.37	**2KJ1423 - ■ CE13 - ■■■■**	1 817.–	**C**
	LA71ZMP4	0.55	**2KJ1423 - ■ CG13 - ■■■■**	1 825.–	**C**
	LA71ZMD4	0.75	**2KJ1423 - ■ CH13 - ■■■■**	1 834.–	**C**
	LA90S4	1.1	**2KJ1423 - ■ EL13 - ■■■■**	1 909.–	**C**
	LA90L4	1.5	**2KJ1423 - ■ EP13 - ■■■■**	1 958.–	**C**
	LA90ZLB4	2.2	**2KJ1423 - ■ EQ13 - ■■■■**	1 973.–	**C**

Selection and ordering data

Parallel shaft tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FD108B-Z38	LA71B4	0.12	**2KJ1426 - ■ CB13 - ■■■■**	2 498.–	**C**
	LA71C4	0.18	**2KJ1426 - ■ CC13 - ■■■■**	2 500.–	**C**
	LA71S4	0.25	**2KJ1426 - ■ CD13 - ■■■■**	2 505.–	**C**
	LA71M4	0.37	**2KJ1426 - ■ CE13 - ■■■■**	2 513.–	**C**
	LA71ZMP4	0.55	**2KJ1426 - ■ CG13 - ■■■■**	2 521.–	**C**
	LA80M4	0.75	**2KJ1426 - ■ DC13 - ■■■■**	2 543.–	**C**
	LA90S4	1.1	**2KJ1426 - ■ EL13 - ■■■■**	2 605.–	**C**
	LA90L4	1.5	**2KJ1426 - ■ EP13 - ■■■■**	2 654.–	**C**
	LA100L4	2.2	**2KJ1426 - ■ FL13 - ■■■■**	2 705.–	**C**
	LA100LB4	3.0	**2KJ1426 - ■ FM13 - ■■■■**	2 748.–	**C**
	LA112MB4	4.0	**2KJ1426 - ■ GH13 - ■■■■**	2 873.–	**C**
FD108B-D38	LA71B4	0.12	**2KJ1427 - ■ CB13 - ■■■■**	2 533.–	**C**
	LA71C4	0.18	**2KJ1427 - ■ CC13 - ■■■■**	2 535.–	**C**
	LA71S4	0.25	**2KJ1427 - ■ CD13 - ■■■■**	2 540.–	**C**
	LA71M4	0.37	**2KJ1427 - ■ CE13 - ■■■■**	2 548.–	**C**
	LA71ZMP4	0.55	**2KJ1427 - ■ CG13 - ■■■■**	2 556.–	**C**
	LA80M4	0.75	**2KJ1427 - ■ DC13 - ■■■■**	2 578.–	**C**
	LA90S4	1.1	**2KJ1427 - ■ EL13 - ■■■■**	2 640.–	**C**
	LA90L4	1.5	**2KJ1427 - ■ EP13 - ■■■■**	2 689.–	**C**
FD128B-Z48	LA71B4	0.12	**2KJ1431 - ■ CB13 - ■■■■**	3 582.–	**C**
	LA71C4	0.18	**2KJ1431 - ■ CC13 - ■■■■**	3 584.–	**C**
	LA71S4	0.25	**2KJ1431 - ■ CD13 - ■■■■**	3 589.–	**C**
	LA71M4	0.37	**2KJ1431 - ■ CE13 - ■■■■**	3 597.–	**C**
	LA71ZMP4	0.55	**2KJ1431 - ■ CG13 - ■■■■**	3 605.–	**C**
	LA80M4	0.75	**2KJ1431 - ■ DC13 - ■■■■**	3 627.–	**C**
	LA90S4	1.1	**2KJ1431 - ■ EL13 - ■■■■**	3 689.–	**C**
	LA90L4	1.5	**2KJ1431 - ■ EP13 - ■■■■**	3 738.–	**C**
	LA100L4	2.2	**2KJ1431 - ■ FL13 - ■■■■**	3 789.–	**C**
	LA100LB4	3.0	**2KJ1431 - ■ FM13 - ■■■■**	3 832.–	**C**
	LA112MB4	4.0	**2KJ1431 - ■ GH13 - ■■■■**	3 957.–	**C**
	LA132SB4	5.5	**2KJ1431 - ■ HF13 - ■■■■**	4 077.–	**C**
	LA132M4	7.5	**2KJ1431 - ■ HH13 - ■■■■**	4 519.–	**C**
	LA132ZMP4	9.2	**2KJ1431 - ■ HT13 - ■■■■**	4 676.–	**C**
FD128B-Z38	LA71B4	0.12	**2KJ1428 - ■ CB13 - ■■■■**	3 503.–	**C**
	LA71C4	0.18	**2KJ1428 - ■ CC13 - ■■■■**	3 505.–	**C**
	LA71S4	0.25	**2KJ1428 - ■ CD13 - ■■■■**	3 510.–	**C**
	LA71M4	0.37	**2KJ1428 - ■ CE13 - ■■■■**	3 518.–	**C**
	LA71ZMP4	0.55	**2KJ1428 - ■ CG13 - ■■■■**	3 526.–	**C**
	LA80M4	0.75	**2KJ1428 - ■ DC13 - ■■■■**	3 548.–	**C**
	LA90S4	1.1	**2KJ1428 - ■ EL13 - ■■■■**	3 610.–	**C**
	LA90L4	1.5	**2KJ1428 - ■ EP13 - ■■■■**	3 659.–	**C**
	LA100L4	2.2	**2KJ1428 - ■ FL13 - ■■■■**	3 710.–	**C**
	LA100LB4	3.0	**2KJ1428 - ■ FM13 - ■■■■**	3 753.–	**C**
	LA112MB4	4.0	**2KJ1428 - ■ GH13 - ■■■■**	3 878.–	**C**

Parallel shaft tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FD128B-D38	LA71B4	0.12	**2KJ1430 - ■ CB13 - ■■■■**	3 582.–	**C**
	LA71C4	0.18	**2KJ1430 - ■ CC13 - ■■■■**	3 584.–	**C**
	LA71S4	0.25	**2KJ1430 - ■ CD13 - ■■■■**	3 589.–	**C**
	LA71M4	0.37	**2KJ1430 - ■ CE13 - ■■■■**	3 597.–	**C**
	LA71ZMP4	0.55	**2KJ1430 - ■ CG13 - ■■■■**	3 605.–	**C**
	LA80M4	0.75	**2KJ1430 - ■ DC13 - ■■■■**	3 627.–	**C**
	LA90S4	1.1	**2KJ1430 - ■ EL13 - ■■■■**	3 689.–	**C**
	LA90L4	1.5	**2KJ1430 - ■ EP13 - ■■■■**	3 738.–	**C**
FD148B-Z48	LA71B4	0.12	**2KJ1434 - ■ CB13 - ■■■■**	5 837.–	**C**
	LA71C4	0.18	**2KJ1434 - ■ CC13 - ■■■■**	5 839.–	**C**
	LA71S4	0.25	**2KJ1434 - ■ CD13 - ■■■■**	5 844.–	**C**
	LA71M4	0.37	**2KJ1434 - ■ CE13 - ■■■■**	5 852.–	**C**
	LA71ZMP4	0.55	**2KJ1434 - ■ CG13 - ■■■■**	5 860.–	**C**
	LA80M4	0.75	**2KJ1434 - ■ DC13 - ■■■■**	5 882.–	**C**
	LA90S4	1.1	**2KJ1434 - ■ EL13 - ■■■■**	5 944.–	**C**
	LA90L4	1.5	**2KJ1434 - ■ EP13 - ■■■■**	5 993.–	**C**
	LA100L4	2.2	**2KJ1434 - ■ FL13 - ■■■■**	6 044.–	**C**
	LA100LB4	3.0	**2KJ1434 - ■ FM13 - ■■■■**	6 087.–	**C**
	LA112MB4	4.0	**2KJ1434 - ■ GH13 - ■■■■**	6 212.–	**C**
	LA132SB4	5.5	**2KJ1434 - ■ HF13 - ■■■■**	6 332.–	**C**
	LA132M4	7.5	**2KJ1434 - ■ HH13 - ■■■■**	6 774.–	**C**
	LA132ZMP4	9.2	**2KJ1434 - ■ HT13 - ■■■■**	6 931.–	**C**
	LA71B4	0.12	**2KJ1432 - ■ CB13 - ■■■■**	5 663.–	**C**
	LA71C4	0.18	**2KJ1432 - ■ CC13 - ■■■■**	5 665.–	**C**
	LA71S4	0.25	**2KJ1432 - ■ CD13 - ■■■■**	5 670.–	**C**
	LA71M4	0.37	**2KJ1432 - ■ CE13 - ■■■■**	5 678.–	**C**
	LA71ZMP4	0.55	**2KJ1432 - ■ CG13 - ■■■■**	5 686.–	**C**
	LA80M4	0.75	**2KJ1432 - ■ DC13 - ■■■■**	5 708.–	**C**
	LA90S4	1.1	**2KJ1432 - ■ EL13 - ■■■■**	5 770.–	**C**
	LA90L4	1.5	**2KJ1432 - ■ EP13 - ■■■■**	5 819.–	**C**
	LA100L4	2.2	**2KJ1432 - ■ FL13 - ■■■■**	5 870.–	**C**
	LA100LB4	3.0	**2KJ1432 - ■ FM13 - ■■■■**	5 913.–	**C**
	LA112MB4	4.0	**2KJ1432 - ■ GH13 - ■■■■**	6 038.–	**C**
FD148B-D38	LA71B4	0.12	**2KJ1433 - ■ CB13 - ■■■■**	5 825.–	**C**
	LA71C4	0.18	**2KJ1433 - ■ CC13 - ■■■■**	5 827.–	**C**
	LA71S4	0.25	**2KJ1433 - ■ CD13 - ■■■■**	5 832.–	**C**
	LA71M4	0.37	**2KJ1433 - ■ CE13 - ■■■■**	5 840.–	**C**
	LA71ZMP4	0.55	**2KJ1433 - ■ CG13 - ■■■■**	5 848.–	**C**
	LA80M4	0.75	**2KJ1433 - ■ DC13 - ■■■■**	5 870.–	**C**
	LA90S4	1.1	**2KJ1433 - ■ EL13 - ■■■■**	5 932.–	**C**
	LA90L4	1.5	**2KJ1433 - ■ EP13 - ■■■■**	5 981.–	**C**

Selection and ordering data

Parallel shaft tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FD168B-Z68	LA80M4	0.75	**2KJ1437 - ■ DC13 - ■■■■**	7 390.–	**C**
	LA90S4	1.1	**2KJ1437 - ■ EL13 - ■■■■**	7 452.–	**C**
	LA90L4	1.5	**2KJ1437 - ■ EP13 - ■■■■**	7 501.–	**C**
	LA100L4	2.2	**2KJ1437 - ■ FL13 - ■■■■**	7 552.–	**C**
	LA100LB4	3.0	**2KJ1437 - ■ FM13 - ■■■■**	7 595.–	**C**
	LA112MB4	4.0	**2KJ1437 - ■ GH13 - ■■■■**	7 720.–	**C**
	LA132SB4	5.5	**2KJ1437 - ■ HF13 - ■■■■**	7 840.–	**C**
	LA132M4	7.5	**2KJ1437 - ■ HH13 - ■■■■**	8 282.–	**C**
	LA132ZMP4	9.2	**2KJ1437 - ■ HT13 - ■■■■**	8 439.–	**C**
	LA160MB4	11.0	**2KJ1437 - ■ JP13 - ■■■■**	8 747.–	**C**
	LA160L4	15.0	**2KJ1437 - ■ JR13 - ■■■■**	9 402.–	**C**
FD168B-Z48	LA71B4	0.12	**2KJ1435 - ■ CB13 - ■■■■**	7 252.–	**C**
	LA71C4	0.18	**2KJ1435 - ■ CC13 - ■■■■**	7 254.–	**C**
	LA71S4	0.25	**2KJ1435 - ■ CD13 - ■■■■**	7 259.–	**C**
	LA71M4	0.37	**2KJ1435 - ■ CE13 - ■■■■**	7 267.–	**C**
	LA71ZMP4	0.55	**2KJ1435 - ■ CG13 - ■■■■**	7 275.–	**C**
	LA80M4	0.75	**2KJ1435 - ■ DC13 - ■■■■**	7 297.–	**C**
	LA90S4	1.1	**2KJ1435 - ■ EL13 - ■■■■**	7 359.–	**C**
	LA90L4	1.5	**2KJ1435 - ■ EP13 - ■■■■**	7 408.–	**C**
	LA100L4	2.2	**2KJ1435 - ■ FL13 - ■■■■**	7 459.–	**C**
	LA100LB4	3.0	**2KJ1435 - ■ FM13 - ■■■■**	7 502.–	**C**
	LA112MB4	4.0	**2KJ1435 - ■ GH13 - ■■■■**	7 627.–	**C**
	LA132SB4	5.5	**2KJ1435 - ■ HF13 - ■■■■**	7 747.–	**C**
	LA132M4	7.5	**2KJ1435 - ■ HH13 - ■■■■**	8 189.–	**C**
	LA132ZMP4	9.2	**2KJ1435 - ■ HT13 - ■■■■**	8 346.–	**C**
FD168B-D48	LA71B4	0.12	**2KJ1436 - ■ CB13 - ■■■■**	7 345.–	**C**
	LA71C4	0.18	**2KJ1436 - ■ CC13 - ■■■■**	7 347.–	**C**
	LA71S4	0.25	**2KJ1436 - ■ CD13 - ■■■■**	7 352.–	**C**
	LA71M4	0.37	**2KJ1436 - ■ CE13 - ■■■■**	7 360.–	**C**
	LA71ZMP4	0.55	**2KJ1436 - ■ CG13 - ■■■■**	7 368.–	**C**
	LA80M4	0.75	**2KJ1436 - ■ DC13 - ■■■■**	7 390.–	**C**
	LA90S4	1.1	**2KJ1436 - ■ EL13 - ■■■■**	7 452.–	**C**
	LA90L4	1.5	**2KJ1436 - ■ EP13 - ■■■■**	7 501.–	**C**
	LA100L4	2.2	**2KJ1436 - ■ FL13 - ■■■■**	7 552.–	**C**
	LA100LB4	3.0	**2KJ1436 - ■ FM13 - ■■■■**	7 595.–	**C**
FD188B-Z68	LA80M4	0.75	**2KJ1441 - ■ DC13 - ■■■■**	10 026.–	**C**
	LA90S4	1.1	**2KJ1441 - ■ EL13 - ■■■■**	10 088.–	**C**
	LA90L4	1.5	**2KJ1441 - ■ EP13 - ■■■■**	10 137.–	**C**
	LA100L4	2.2	**2KJ1441 - ■ FL13 - ■■■■**	10 188.–	**C**
	LA100LB4	3.0	**2KJ1441 - ■ FM13 - ■■■■**	10 231.–	**C**
	LA112MB4	4.0	**2KJ1441 - ■ GH13 - ■■■■**	10 356.–	**C**
	LA132SB4	5.5	**2KJ1441 - ■ HF13 - ■■■■**	10 476.–	**C**
	LA132M4	7.5	**2KJ1441 - ■ HH13 - ■■■■**	10 918.–	**C**
	LA132ZMP4	9.2	**2KJ1441 - ■ HT13 - ■■■■**	11 075.–	**C**
	LA160MB4	11.0	**2KJ1441 - ■ JP13 - ■■■■**	11 383.–	**C**
	LA160L4	15.0	**2KJ1441 - ■ JR13 - ■■■■**	12 038.–	**C**

Parallel shaft tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
FD188B-Z48	LA71B4	0.12	**2KJ1438 - ■ CB13 - ■■■■**	9 564.–	**C**
	LA71C4	0.18	**2KJ1438 - ■ CC13 - ■■■■**	9 566.–	**C**
	LA71S4	0.25	**2KJ1438 - ■ CD13 - ■■■■**	9 571.–	**C**
	LA71M4	0.37	**2KJ1438 - ■ CE13 - ■■■■**	9 579.–	**C**
	LA71ZMP4	0.55	**2KJ1438 - ■ CG13 - ■■■■**	9 587.–	**C**
	LA80M4	0.75	**2KJ1438 - ■ DC13 - ■■■■**	9 609.–	**C**
	LA90S4	1.1	**2KJ1438 - ■ EL13 - ■■■■**	9 671.–	**C**
	LA90L4	1.5	**2KJ1438 - ■ EP13 - ■■■■**	9 720.–	**C**
	LA100L4	2.2	**2KJ1438 - ■ FL13 - ■■■■**	9 771.–	**C**
	LA100LB4	3.0	**2KJ1438 - ■ FM13 - ■■■■**	9 814.–	**C**
	LA112MB4	4.0	**2KJ1438 - ■ GH13 - ■■■■**	9 939.–	**C**
	LA132SB4	5.5	**2KJ1438 - ■ HF13 - ■■■■**	10 059.–	**C**
	LA132M4	7.5	**2KJ1438 - ■ HH13 - ■■■■**	10 501.–	**C**
	LA132ZMP4	9.2	**2KJ1438 - ■ HT13 - ■■■■**	10 658.–	**C**
FD188B-D48	LA71B4	0.12	**2KJ1440 - ■ CB13 - ■■■■**	9 772.–	**C**
	LA71C4	0.18	**2KJ1440 - ■ CC13 - ■■■■**	9 774.–	**C**
	LA71S4	0.25	**2KJ1440 - ■ CD13 - ■■■■**	9 779.–	**C**
	LA71M4	0.37	**2KJ1440 - ■ CE13 - ■■■■**	9 787.–	**C**
	LA71ZMP4	0.55	**2KJ1440 - ■ CG13 - ■■■■**	9 795.–	**C**
	LA80M4	0.75	**2KJ1440 - ■ DC13 - ■■■■**	9 817.–	**C**
	LA90S4	1.1	**2KJ1440 - ■ EL13 - ■■■■**	9 879.–	**C**
	LA90L4	1.5	**2KJ1440 - ■ EP13 - ■■■■**	9 928.–	**C**
	LA100L4	2.2	**2KJ1440 - ■ FL13 - ■■■■**	9 979.–	**C**
	LA100LB4	3.0	**2KJ1440 - ■ FM13 - ■■■■**	10 022.–	**C**

Parallel shaft gearboxes FZ and FD

Mounting types

Gearbox size			28	38	48	68	88	108	128	148	168	188	
Mounting type	**Order number 14th position**	**Order code**	**Additional cost in EUR**										**DTC**
Foot-mounted design	**A**	**–**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
Housing flange (C-type)	**H**	**–**	29.–	29.–	34.–	40.–	40.–	45.–	50.–	70.–	93.–	128.–	**A**
Torque arm	**D**	**–**	15.–	15.–	20.–	20.–	34.–	34.–	65.–	65.–	164.–	211.–	**A**
Flange-mounted design (A-type)	**F**	**H01 … H03**	41.–	72.–	75.–	88.–	124.–	155.–	247.–	266.–	338.–	432.–	**A**
Mixer flange	**M**	**–**					816.–	1 038.–	1 461.–	2 245.–	3 022.–		**D**
Extruder flange	**E**	**–**				1 664.–	2 065.–	2 695.–	3 333.–	4 163.–	5 559.–		**D**

Shaft designs

Gearbox size			28	38	48	68	88	108	128	148	168	188	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**										**DTC**
Parallel shaft gearboxes FZ and FD in foot-mounted design													
Hollow shaft with feather key	**5**	**–**	✓	✓	❒	❒	❒	❒	❒	❒	❒	✓	**A**
	6	**–**			✓	✓	✓	✓	✓	✓	✓		**A**
Hollow shaft with shrink disk	**9**	**H3A**	134.–	134.–	146.–	176.–	198.–	263.–	406.–	590.–	860.–	1 250.–	**A**
	9	**H3B**		134.–	146.–	176.–	198.–	263.–	406.–	590.–	860.–		**A**
Hollow shaft with splined shaft	**9**	**H4A**	114.–	114.–	114.–	130.–	172.–	182.–	242.–	289.–	357.–	441.–	**A**
Parallel shaft gearboxes FZ.Z and FD.Z with housing flange													
Solid shaft with feather key	**1**	**–**	21.–	50.–	50.–	50.–	105.–	118.–	118.–	172.–	231.–	298.–	**A**
	3	**–**		50.–	50.–	50.–	105.–	118.–	118.–	172.–	231.–	298.–	**A**
Hollow shaft with feather key	**5**	**–**	✓	✓	❒	❒	❒	❒	❒	❒	❒	✓	**A**
	6	**–**			✓	✓	✓	✓	✓	✓	✓		**A**
Hollow shaft with shrink disk	**9**	**H3A**	134.–	134.–	146.–	176.–	198.–	263.–	406.–	590.–	860.–	1 250.–	**A**
	9	**H3B**		134.–	146.–	176.–	198.–	263.–	406.–	590.–	860.–		**A**
Hollow shaft with splined shaft	**9**	**H4A**	114.–	114.–	114.–	130.–	172.–	182.–	242.–	289.–	357.–	441.–	**A**

Shaft designs (continued)

Gearbox size			28	38	48	68	88	108	128	148	168	188	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**										**DTC**
Parallel shaft gearboxes FZ.F and FD.F in flange-mounted design													
Solid shaft with feather key	**2**	**–**	21.–	50.–	50.–	50.–	105.–	118.–	118.–	172.–	231.–	298.–	**A**
Hollow shaft with feather key	**5**	**–**	✓	✓	❒	❒	❒	❒	❒	❒	❒	✓	**A**
	6	**–**			✓	✓	✓	✓	✓	✓	✓		**A**
Hollow shaft with shrink disk	**9**	**H3A**	134.–	134.–	146.–	176.–	198.–	263.–	406.–	590.–	860.–	1 250.–	**A**
		H3B		134.–	146.–	176.–	198.–	263.–	406.–	590.–	860.–		**A**
Hollow shaft with splined shaft	**9**	**H4A**	114.–	114.–	114.–	130.–	172.–	182.–	242.–	289.–	357.–	441.–	**A**
Parallel shaft gearboxes F..M with mixer flange													
Solid shaft with feather key	**3**	**–**					105.–	118.–	118.–	172.–	231.–		**A**
Hollow shaft	**9**	**H2F**					✓	✓	✓	✓	✓		**A**
Parallel shaft gearboxes F..E with extruder flange													
Hollow shaft	**9**	**H2A**				❒	❒	❒	❒	❒	❒		**A**
		H2B				✓	✓	✓	✓	✓	✓		**A**
		H2C				❒	❒	❒	❒	❒	❒		**A**

Special designs

Lubricants

Gearbox size		28	38	48	68	88	108	128	148	168	188	
Designation acc. to DIN 51502	**Order code**	**Additional cost in EUR**										**DTC**
Standard oils												
CLP ISO VG220	**K06**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
CLP ISO PG VG220	**K07**	8.–	11.–	20.–	39.–	73.–	130.–	232.–	343.–	533.–	691.–	**A**
CLP ISO PG VG460	**K08**	8.–	11.–	20.–	39.–	73.–	130.–	232.–	343.–	533.–	691.–	**A**
Oils for low-temperature application												
CLP ISO PAO VG220	**K12** *)	20.–	26.–	48.–	93.–	177.–	315.–	561.–	830.–	1 288.–	1 671.–	**A**
CLP ISO PAO VG68	**K13** *)	21.–	28.–	51.–	101.–	189.–	337.–	600.–	887.–	1 377.–	1 786.–	**A**
Physiologically safe oils (approved for the food industry) in acc. with USDA H1												
CLP ISO H1 VG460	**K11** *)	22.–	30.–	54.–	107.–	201.–	358.–	638.–	944.–	1 466.–	1 902.–	**A**
Biologically degradable oils												
CLP ISO E VG220	**K10** *)	22.–	30.–	54.–	107.–	201.–	358.–	638.–	944.–	1 466.–	1 902.–	**A**

*) on request

Parallel shaft gearboxes FZ and FD

Special designs (continued)

Additional options

Size		28	38	48	68	88	108	128	148	168	188	
Design	**Order code**	**Additional cost in EUR**										**DTC**
Oil level control												
Oil sight glass	**G34**			19.–	19.–	19.–	19.–	19.–	24.–	24.–	24.–	**A**
Electrical oil level monitoring system												
Capacitive sensor	•			•	•	•	•	•	•	•	•	•
Isolation amplifier 24V	•			•	•	•	•	•	•	•	•	•
Gearbox ventilation												
Vent filter	**G44**			✓	✓	✓	✓	✓	✓	✓	✓	**A**
Pressure breather valve	**G45**			11.–	11.–	16.–	16.–	16.–	28.–	28.–	39.–	**A**
Oil drain												
Oil drain plug magnetic	**G53**			19.–	19.–	19.–	19.–	19.–	24.–	24.–	42.–	**C**
Oil drain valve, straight	**G54**			91.–	91.–	91.–	91.–	91.–	132.–	132.–	132.–	**A**
Oil drain valve, angled	•			•	•	•	•	•	•	•	•	•
Sealing												
Dual sealing MSS1	**G23**	50.–										**C**
Dual radial shaft seal	**G22 + G31**										233.–	**C**
Combination shaft sealing	**G24**		50.–	53.–	56.–	65.–	75.–	130.–	142.–	205.–		**C**
High temperature-resistant seal (Viton)	**G25**	21.–	25.–	34.–	39.–	45.–	50.–	56.–	75.–	122.–	174.–	**B**
Hollow shaft cover (protection cover)												
Steel protection cover	**G60**		61.–	68.–	73.–	85.–	121.–	127.–	162.–	174.–	187.–	**A**
Steel protection cover (ATEX)	**G61**	61.–	61.–	68.–	73.–	85.–	121.–	127.–	162.–	174.–	187.–	**A**
Protection cover	**G62**		61.–	68.–	73.–	85.–	121.–	127.–	162.–	174.–	187.–	**A**
Protection cover (ATEX)	**G63**		61.–	68.–	73.–	85.–	121.–	127.–	162.–	174.–	187.–	**A**
Mixer flange in dry-well design												
Dry-well design with sight glass	**G89**					83.–	83.–	83.–	83.–	83.–		**B**
Dry-well design with sensor	**G90**					409.–	409.–	409.–	409.–	409.–		**B**
Regreasing device	•					•	•	•	•	•	•	•
Additional options												
Radially reinforced output shaft bearings	**G20**				93.–	122.–	152.–	182.–	302.–	480.–	1)	**B**

1) For this size, the standard bearings are already reinforced.

STANDARD DRIVES
Bevel helical geared motors

4

Orientation

Overview

Bevel helical gearboxes are designated as follows:

Gearbox type:

(-) Bevel helical gearbox

B 2-stage
K 3-stage

Transmission stage (-) Unspecified

Type:

Shaft (-) Solid shaft
A Hollow shaft

Mounting (-) Foot-mounted design
F Flange-mounted design (A-type)
Z Housing flange (C-type)
D Torque arm
G Flange (A-type) on opposite side to output shaft
M Agitator/mixer flange
E Extruder flange

Connection (-) Feather key
S Shrink disk
T Hollow shaft with splined shaft

Backstop **X** Backstop in intermediate stage

Type of intermediate gearbox:

(-) Helical gearbox

Transmission stage **Z** 2-stage
D 3-stage

Example:

K F X 108 - Z 38 - K4 (100)

- Gearbox type
- Type of construction
- Backstop
- Size
- Type of intermediate gearbox
- Size
- Input unit
- (for motor size)

2-stage bevel helical geared motors B

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
B28	LA71B4	0.12	**2KJ1500 - ■ CB13 - ■■■■**	600.–	**A**
	LA71C4	0.18	**2KJ1500 - ■ CC13 - ■■■■**	602.–	**A**
	LA71S4	0.25	**2KJ1500 - ■ CD13 - ■■■■**	607.–	**A**
	LA71M4	0.37	**2KJ1500 - ■ CE13 - ■■■■**	615.–	**A**
	LA71ZMP4	0.55	**2KJ1500 - ■ CG13 - ■■■■**	623.–	**A**
	LA71ZMD4	0.75	**2KJ1500 - ■ CH13 - ■■■■**	632.–	**A**
	LA90S4	1.1	**2KJ1500 - ■ EL13 - ■■■■**	707.–	**A**
	LA90L4	1.5	**2KJ1500 - ■ EP13 - ■■■■**	756.–	**A**
	LA90ZLB4	2.2	**2KJ1500 - ■ EQ13 - ■■■■**	771.–	**A**
	LA100LB4	3.0	**2KJ1500 - ■ FM13 - ■■■■**	850.–	**A**
B38	LA71B4	0.12	**2KJ1501 - ■ CB13 - ■■■■**	779.–	**A**
	LA71C4	0.18	**2KJ1501 - ■ CC13 - ■■■■**	781.–	**A**
	LA71S4	0.25	**2KJ1501 - ■ CD13 - ■■■■**	786.–	**A**
	LA71M4	0.37	**2KJ1501 - ■ CE13 - ■■■■**	794.–	**A**
	LA71ZMP4	0.55	**2KJ1501 - ■ CG13 - ■■■■**	802.–	**A**
	LA80M4	0.75	**2KJ1501 - ■ DC13 - ■■■■**	824.–	**A**
	LA90S4	1.1	**2KJ1501 - ■ EL13 - ■■■■**	886.–	**A**
	LA90L4	1.5	**2KJ1501 - ■ EP13 - ■■■■**	935.–	**A**
	LA100L4	2.2	**2KJ1501 - ■ FL13 - ■■■■**	986.–	**A**
	LA100LB4	3.0	**2KJ1501 - ■ FM13 - ■■■■**	1 029.–	**A**

3-stage bevel helical geared motors K

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K38	LA71B4	0.12	**2KJ1502 - ■ CB13 - ■■■■**	955.–	**A**
	LA71C4	0.18	**2KJ1502 - ■ CC13 - ■■■■**	957.–	**A**
	LA71S4	0.25	**2KJ1502 - ■ CD13 - ■■■■**	962.–	**A**
	LA71M4	0.37	**2KJ1502 - ■ CE13 - ■■■■**	970.–	**A**
	LA71ZMP4	0.55	**2KJ1502 - ■ CG13 - ■■■■**	978.–	**A**
	LA80M4	0.75	**2KJ1502 - ■ DC13 - ■■■■**	1 000.–	**A**
	LA90S4	1.1	**2KJ1502 - ■ EL13 - ■■■■**	1 062.–	**A**
	LA90L4	1.5	**2KJ1502 - ■ EP13 - ■■■■**	1 111.–	**A**
	LA100L4	2.2	**2KJ1502 - ■ FL13 - ■■■■**	1 162.–	**A**
	LA100LB4	3.0	**2KJ1502 - ■ FM13 - ■■■■**	1 205.–	**A**
	LA112MB4	4.0	**2KJ1502 - ■ GH13 - ■■■■**	1 330.–	**A**
K48	LA71B4	0.12	**2KJ1503 - ■ CB13 - ■■■■**	1 078.–	**A**
	LA71C4	0.18	**2KJ1503 - ■ CC13 - ■■■■**	1 080.–	**A**
	LA71S4	0.25	**2KJ1503 - ■ CD13 - ■■■■**	1 085.–	**A**
	LA71M4	0.37	**2KJ1503 - ■ CE13 - ■■■■**	1 093.–	**A**
	LA71ZMP4	0.55	**2KJ1503 - ■ CG13 - ■■■■**	1 101.–	**A**
	LA80M4	0.75	**2KJ1503 - ■ DC13 - ■■■■**	1 123.–	**A**
	LA90S4	1.1	**2KJ1503 - ■ EL13 - ■■■■**	1 185.–	**A**
	LA90L4	1.5	**2KJ1503 - ■ EP13 - ■■■■**	1 234.–	**A**
	LA100L4	2.2	**2KJ1503 - ■ FL13 - ■■■■**	1 285.–	**A**
	LA100LB4	3.0	**2KJ1503 - ■ FM13 - ■■■■**	1 328.–	**A**
	LA112MB4	4.0	**2KJ1503 - ■ GH13 - ■■■■**	1 453.–	**A**
K68	LA71B4	0.12	**2KJ1504 - ■ CB13 - ■■■■**	1 355.–	**A**
	LA71C4	0.18	**2KJ1504 - ■ CC13 - ■■■■**	1 357.–	**A**
	LA71S4	0.25	**2KJ1504 - ■ CD13 - ■■■■**	1 362.–	**A**
	LA71M4	0.37	**2KJ1504 - ■ CE13 - ■■■■**	1 370.–	**A**
	LA71ZMP4	0.55	**2KJ1504 - ■ CG13 - ■■■■**	1 378.–	**A**
	LA80M4	0.75	**2KJ1504 - ■ DC13 - ■■■■**	1 400.–	**A**
	LA90S4	1.1	**2KJ1504 - ■ EL13 - ■■■■**	1 462.–	**A**
	LA90L4	1.5	**2KJ1504 - ■ EP13 - ■■■■**	1 511.–	**A**
	LA100L4	2.2	**2KJ1504 - ■ FL13 - ■■■■**	1 562.–	**A**
	LA100LB4	3.0	**2KJ1504 - ■ FM13 - ■■■■**	1 605.–	**A**
	LA112MB4	4.0	**2KJ1504 - ■ GH13 - ■■■■**	1 730.–	**A**
	LA132SB4	5.5	**2KJ1504 - ■ HF13 - ■■■■**	1 850.–	**A**
	LA132M4	7.5	**2KJ1504 - ■ HH13 - ■■■■**	2 292.–	**A**
	LA132ZMP4	9.2	**2KJ1504 - ■ HT13 - ■■■■**	2 449.–	**A**
K88	LA71B4	0.12	**2KJ1505 - ■ CB13 - ■■■■**	1 651.–	**A**
	LA71C4	0.18	**2KJ1505 - ■ CC13 - ■■■■**	1 653.–	**A**
	LA71S4	0.25	**2KJ1505 - ■ CD13 - ■■■■**	1 658.–	**A**
	LA71M4	0.37	**2KJ1505 - ■ CE13 - ■■■■**	1 666.–	**A**
	LA71ZMP4	0.55	**2KJ1505 - ■ CG13 - ■■■■**	1 674.–	**A**
	LA80M4	0.75	**2KJ1505 - ■ DC13 - ■■■■**	1 696.–	**A**
	LA90S4	1.1	**2KJ1505 - ■ EL13 - ■■■■**	1 758.–	**A**
	LA90L4	1.5	**2KJ1505 - ■ EP13 - ■■■■**	1 807.–	**A**

Recommended prices

Selection and ordering data

3-stage bevel helical geared motors K (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K88	LA100L4	2.2	**2KJ1505 - ■ FL13 - ■■■■**	1 858.–	**A**
	LA100LB4	3.0	**2KJ1505 - ■ FM13 - ■■■■**	1 901.–	**A**
	LA112MB4	4.0	**2KJ1505 - ■ GH13 - ■■■■**	2 026.–	**A**
	LA132SB4	5.5	**2KJ1505 - ■ HF13 - ■■■■**	2 146.–	**A**
	LA132M4	7.5	**2KJ1505 - ■ HH13 - ■■■■**	2 588.–	**A**
	LA132ZMP4	9.2	**2KJ1505 - ■ HT13 - ■■■■**	2 745.–	**A**
	LA160MB4	11.0	**2KJ1505 - ■ JP13 - ■■■■**	3 053.–	**B**
	LA160L4	15.0	**2KJ1505 - ■ JR13 - ■■■■**	3 708.–	**B**
K108	LA80M4	0.75	**2KJ1506 - ■ DC13 - ■■■■**	2 184.–	**B**
	LA90S4	1.1	**2KJ1506 - ■ EL13 - ■■■■**	2 246.–	**B**
	LA90L4	1.5	**2KJ1506 - ■ EP13 - ■■■■**	2 295.–	**B**
	LA100L4	2.2	**2KJ1506 - ■ FL13 - ■■■■**	2 346.–	**B**
	LA100LB4	3.0	**2KJ1506 - ■ FM13 - ■■■■**	2 389.–	**B**
	LA112MB4	4.0	**2KJ1506 - ■ GH13 - ■■■■**	2 514.–	**B**
	LA132SM4	5.5	**2KJ1506 - ■ HF13 - ■■■■**	2 634.–	**B**
	LA132M4	7.5	**2KJ1506 - ■ HH13 - ■■■■**	3 076.–	**B**
	LA132ZMP4	9.2	**2KJ1506 - ■ HT13 - ■■■■**	3 233.–	**B**
	LA160MB4	11.0	**2KJ1506 - ■ JP13 - ■■■■**	3 541.–	**B**
	LA160L4	15.0	**2KJ1506 - ■ JR13 - ■■■■**	4 196.–	**B**
	LG180ZMB4	18.5	**2KJ1506 - ■ KL13 - ■■■■**	4 560.–	**B**
	LG180ZLB4	22.0	**2KJ1506 - ■ KP13 - ■■■■**	5 078.–	**B**
K128	LA90S4	1.1	**2KJ1507 - ■ EL13 - ■■■■**	3 575.–	**B**
	LA90L4	1.5	**2KJ1507 - ■ EP13 - ■■■■**	3 624.–	**B**
	LA100L4	2.2	**2KJ1507 - ■ FL13 - ■■■■**	3 675.–	**B**
	LA100LB4	3.0	**2KJ1507 - ■ FM13 - ■■■■**	3 718.–	**B**
	LA112MB4	4.0	**2KJ1507 - ■ GH13 - ■■■■**	3 843.–	**B**
	LA132SM4	5.5	**2KJ1507 - ■ HF13 - ■■■■**	3 963.–	**B**
	LA132M4	7.5	**2KJ1507 - ■ HH13 - ■■■■**	4 405.–	**B**
	LA132ZMP4	9.2	**2KJ1507 - ■ HT13 - ■■■■**	4 562.–	**B**
	LA160MB4	11.0	**2KJ1507 - ■ JP13 - ■■■■**	4 870.–	**B**
	LA160L4	15.0	**2KJ1507 - ■ JR13 - ■■■■**	5 525.–	**B**
	LG180ZMB4	18.5	**2KJ1507 - ■ KL13 - ■■■■**	5 889.–	**B**
	LG180ZLB4	22.0	**2KJ1507 - ■ KP13 - ■■■■**	6 407.–	**B**
	LG200LB4	30.0	**2KJ1507 - ■ LM13 - ■■■■**	7 301.–	**B**
	K4-LGI225S4	37.0	**2KJ1507 - ■ ME13 - ■■■■**	7 926.–	**C**
	K4-LGI225ZM4	45.0	**2KJ1507 - ■ MU13 - ■■■■**	8 336.–	**C**
K148	LA100L4	2.2	**2KJ1508 - ■ FL13 - ■■■■**	4 962.–	**B**
	LA100LB4	3.0	**2KJ1508 - ■ FM13 - ■■■■**	5 005.–	**B**
	LA112MB4	4.0	**2KJ1508 - ■ GH13 - ■■■■**	5 130.–	**B**
	LA132SM4	5.5	**2KJ1508 - ■ HF13 - ■■■■**	5 250.–	**B**
	LA132M4	7.5	**2KJ1508 - ■ HH13 - ■■■■**	5 692.–	**B**
	LA132ZMP4	9.2	**2KJ1508 - ■ HT13 - ■■■■**	5 849.–	**B**
	LA160MB4	11.0	**2KJ1508 - ■ JP13 - ■■■■**	6 157.–	**B**
	LA160L4	15.0	**2KJ1508 - ■ JR13 - ■■■■**	6 812.–	**B**

3-stage bevel helical geared motors K (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K148	LG180ZMB4	18.5	**2KJ1508 - ■ KL13 - ■■■■**	7 176.–	**B**
	LG180ZLB4	22.0	**2KJ1508 - ■ KP13 - ■■■■**	7 694.–	**B**
	LG200LB4	30.0	**2KJ1508 - ■ LM13 - ■■■■**	8 588.–	**B**
	LG225S4	37.0	**2KJ1508 - ■ ME13 - ■■■■**	9 213.–	**C**
	LG225ZM4	45.0	**2KJ1508 - ■ MU13 - ■■■■**	9 623.–	**C**
	K4-LGI250ZM4	55.0	**2KJ1508 - ■ NN13 - ■■■■**	11 639.–	**C**
K168	LA132SB4	5.5	**2KJ1510 - ■ HF13 - ■■■■**	8 516.–	**B**
	LA132M4	7.5	**2KJ1510 - ■ HH13 - ■■■■**	8 958.–	**B**
	LA132ZMP4	9.2	**2KJ1510 - ■ HT13 - ■■■■**	9 115.–	**B**
	LA160MB4	11.0	**2KJ1510 - ■ JP13 - ■■■■**	9 423.–	**B**
	LA160L4	15.0	**2KJ1510 - ■ JR13 - ■■■■**	10 078.–	**B**
	LG180ZMB4	18.5	**2KJ1510 - ■ KL13 - ■■■■**	10 442.–	**B**
	LG180ZLB4	22.0	**2KJ1510 - ■ KP13 - ■■■■**	10 960.–	**B**
	LG200LB4	30.0	**2KJ1510 - ■ LM13 - ■■■■**	11 854.–	**B**
	LG225S4	37.0	**2KJ1510 - ■ ME13 - ■■■■**	12 479.–	**C**
	LG225ZM4	45.0	**2KJ1510 - ■ MU13 - ■■■■**	12 889.–	**C**
	LG250ZM4	55.0	**2KJ1510 - ■ NN13 - ■■■■**	14 905.–	**C**
	LGI280S4	75.0	**2KJ1510 - ■ PG13 - ■■■■**	17 064.–	**C**
	LGI280ZM4	90.0	**2KJ1510 - ■ PW13 - ■■■■**	20 028.–	**C**
K188	LA132SB4	5.5	**2KJ1511 - ■ HF13 - ■■■■**	11 672.–	**B**
	LA132M4	7.5	**2KJ1511 - ■ HH13 - ■■■■**	12 114.–	**B**
	LA132ZMP4	9.2	**2KJ1511 - ■ HT13 - ■■■■**	12 271.–	**B**
	LA160MB4	11.0	**2KJ1511 - ■ JP13 - ■■■■**	12 579.–	**B**
	LA160L4	15.0	**2KJ1511 - ■ JR13 - ■■■■**	13 234.–	**B**
	LG180ZMB4	18.5	**2KJ1511 - ■ KL13 - ■■■■**	13 598.–	**B**
	LG180ZLB4	22.0	**2KJ1511 - ■ KP13 - ■■■■**	14 116.–	**B**
	LG200LB4	30.0	**2KJ1511 - ■ LM13 - ■■■■**	15 010.–	**B**
	LG225S4	37.0	**2KJ1511 - ■ ME13 - ■■■■**	15 635.–	**C**
	LG225ZM4	45.0	**2KJ1511 - ■ MU13 - ■■■■**	16 045.–	**C**
	LG250ZM4	55.0	**2KJ1511 - ■ NN13 - ■■■■**	18 061.–	**C**
	K4-LGI280S4	75.0	**2KJ1511 - ■ PG13 - ■■■■**	20 220.–	**C**
	K4-LGI280ZM4	90.0	**2KJ1511 - ■ PW13 - ■■■■**	23 184.–	**C**
	K2-LGI315S4	110.0	**2KJ1511 - ■ QQ13 - ■■■■**	27 293.–	**E**
	K2-LGI315M4	132.0	**2KJ1511 - ■ QS13 - ■■■■**	29 377.–	**E**
	K2-LGI315L4	160.0	**2KJ1511 - ■ QU13 - ■■■■**	31 364.–	**E**
	K2-LGI315LB4	200.0	**2KJ1511 - ■ QV13 - ■■■■**	34 629.–	**E**

Selection and ordering data

Bevel helical tandem geared motors

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K38 - Z28	LA71B4	0.12	**2KJ1514 - ■ CB13 - ■■■■**	1 254.–	**A**
	LA71C4	0.18	**2KJ1514 - ■ CC13 - ■■■■**	1 256.–	**A**
	LA71S4	0.25	**2KJ1514 - ■ CD13 - ■■■■**	1 261.–	**A**
	LA71M4	0.37	**2KJ1514 - ■ CE13 - ■■■■**	1 269.–	**A**
	LA71ZMP4	0.55	**2KJ1514 - ■ CG13 - ■■■■**	1 277.–	**A**
	LA71ZMD4	0.75	**2KJ1514 - ■ CH13 - ■■■■**	1 286.–	**A**
	LA90S4	1.1	**2KJ1514 - ■ EL13 - ■■■■**	1 361.–	**A**
	LA90L4	1.5	**2KJ1514 - ■ EP13 - ■■■■**	1 410.–	**A**
	LA90ZLB4	2.2	**2KJ1514 - ■ EQ13 - ■■■■**	1 425.–	**A**
	LA100LB4	3.0	**2KJ1514 - ■ FM13 - ■■■■**	1 504.–	**A**
K38 - D28	LA71B4	0.12	**2KJ1515 - ■ CB13 - ■■■■**	1 281.–	**A**
	LA71C4	0.18	**2KJ1515 - ■ CC13 - ■■■■**	1 283.–	**A**
	LA71S4	0.25	**2KJ1515 - ■ CD13 - ■■■■**	1 288.–	**A**
	LA71M4	0.37	**2KJ1515 - ■ CE13 - ■■■■**	1 296.–	**A**
	LA71ZMP4	0.55	**2KJ1515 - ■ CG13 - ■■■■**	1 304.–	**A**
	LA71ZMD4	0.75	**2KJ1515 - ■ CH13 - ■■■■**	1 313.–	**A**
	LA90S4	1.1	**2KJ1515 - ■ EL13 - ■■■■**	1 388.–	**A**
	LA90L4	1.5	**2KJ1515 - ■ EP13 - ■■■■**	1 437.–	**A**
	LA90ZLB4	2.2	**2KJ1515 - ■ EQ13 - ■■■■**	1 452.–	**A**
K48 - Z28	LA71B4	0.12	**2KJ1516 - ■ CB13 - ■■■■**	1 376.–	**A**
	LA71C4	0.18	**2KJ1516 - ■ CC13 - ■■■■**	1 378.–	**A**
	LA71S4	0.25	**2KJ1516 - ■ CD13 - ■■■■**	1 383.–	**A**
	LA71M4	0.37	**2KJ1516 - ■ CE13 - ■■■■**	1 391.–	**A**
	LA71ZMP4	0.55	**2KJ1516 - ■ CG13 - ■■■■**	1 399.–	**A**
	LA71ZMD4	0.75	**2KJ1516 - ■ CH13 - ■■■■**	1 408.–	**A**
	LA90S4	1.1	**2KJ1516 - ■ EL13 - ■■■■**	1 483.–	**A**
	LA90L4	1.5	**2KJ1516 - ■ EP13 - ■■■■**	1 532.–	**A**
	LA90ZLB4	2.2	**2KJ1516 - ■ EQ13 - ■■■■**	1 547.–	**A**
	LA100LB4	3.0	**2KJ1516 - ■ FM13 - ■■■■**	1 626.–	**A**
K48 - D28	LA71B4	0.12	**2KJ1517 - ■ CB13 - ■■■■**	1 404.–	**A**
	LA71C4	0.18	**2KJ1517 - ■ CC13 - ■■■■**	1 406.–	**A**
	LA71S4	0.25	**2KJ1517 - ■ CD13 - ■■■■**	1 411.–	**A**
	LA71M4	0.37	**2KJ1517 - ■ CE13 - ■■■■**	1 419.–	**A**
	LA71ZMP4	0.55	**2KJ1517 - ■ CG13 - ■■■■**	1 427.–	**A**
	LA71ZMD4	0.75	**2KJ1517 - ■ CH13 - ■■■■**	1 436.–	**A**
	LA90S4	1.1	**2KJ1517 - ■ EL13 - ■■■■**	1 511.–	**A**
	LA90L4	1.5	**2KJ1517 - ■ EP13 - ■■■■**	1 560.–	**A**
	LA90ZLB4	2.2	**2KJ1517 - ■ EQ13 - ■■■■**	1 575.–	**A**
K68 - Z28	LA71B4	0.12	**2KJ1518 - ■ CB13 - ■■■■**	1 653.–	**A**
	LA71C4	0.18	**2KJ1518 - ■ CC13 - ■■■■**	1 655.–	**A**
	LA71S4	0.25	**2KJ1518 - ■ CD13 - ■■■■**	1 660.–	**A**
	LA71M4	0.37	**2KJ1518 - ■ CE13 - ■■■■**	1 668.–	**A**
	LA71ZMP4	0.55	**2KJ1518 - ■ CG13 - ■■■■**	1 676.–	**A**
	LA71ZMD4	0.75	**2KJ1518 - ■ CH13 - ■■■■**	1 685.–	**A**

Bevel helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K68 - Z28	LA90S4	1.1	**2KJ1518 - ■ EL13 - ■■■■**	1 760.–	**A**
	LA90L4	1.5	**2KJ1518 - ■ EP13 - ■■■■**	1 809.–	**A**
	LA90ZLB4	2.2	**2KJ1518 - ■ EQ13 - ■■■■**	1 824.–	**A**
	LA100LB4	3.0	**2KJ1518 - ■ FM13 - ■■■■**	1 903.–	**A**
K68 - D28	LA71B4	0.12	**2KJ1520 - ■ CB13 - ■■■■**	1 680.–	**A**
	LA71C4	0.18	**2KJ1520 - ■ CC13 - ■■■■**	1 682.–	**A**
	LA71S4	0.25	**2KJ1520 - ■ CD13 - ■■■■**	1 687.–	**A**
	LA71M4	0.37	**2KJ1520 - ■ CE13 - ■■■■**	1 695.–	**A**
	LA71ZMP4	0.55	**2KJ1520 - ■ CG13 - ■■■■**	1 703.–	**A**
	LA71ZMD4	0.75	**2KJ1520 - ■ CH13 - ■■■■**	1 712.–	**A**
	LA90S4	1.1	**2KJ1520 - ■ EL13 - ■■■■**	1 787.–	**A**
	LA90L4	1.5	**2KJ1520 - ■ EP13 - ■■■■**	1 836.–	**A**
	LA90ZMP4	2.2	**2KJ1520 - ■ EQ13 - ■■■■**	1 851.–	**A**
K88 - Z28	LA71B4	0.12	**2KJ1523 - ■ CB13 - ■■■■**	1 950.–	**C**
	LA71C4	0.18	**2KJ1523 - ■ CC13 - ■■■■**	1 952.–	**C**
	LA71S4	0.25	**2KJ1523 - ■ CD13 - ■■■■**	1 957.–	**C**
	LA71M4	0.37	**2KJ1523 - ■ CE13 - ■■■■**	1 965.–	**C**
	LA71ZMP4	0.55	**2KJ1523 - ■ CG13 - ■■■■**	1 973.–	**C**
	LA71ZMD4	0.75	**2KJ1523 - ■ CH13 - ■■■■**	1 982.–	**C**
	LA90S4	1.1	**2KJ1523 - ■ EL13 - ■■■■**	2 057.–	**C**
	LA90L4	1.5	**2KJ1523 - ■ EP13 - ■■■■**	2 106.–	**C**
	LA90ZMP4	2.2	**2KJ1523 - ■ EQ13 - ■■■■**	2 121.–	**C**
	LA100LB4	3.0	**2KJ1523 - ■ FM13 - ■■■■**	2 200.–	**C**
K88 - D28	LA71B4	0.12	**2KJ1524 - ■ CB13 - ■■■■**	1 977.–	**C**
	LA71C4	0.18	**2KJ1524 - ■ CC13 - ■■■■**	1 979.–	**C**
	LA71S4	0.25	**2KJ1524 - ■ CD13 - ■■■■**	1 984.–	**C**
	LA71M4	0.37	**2KJ1524 - ■ CE13 - ■■■■**	1 992.–	**C**
	LA71ZMP4	0.55	**2KJ1524 - ■ CG13 - ■■■■**	2 000.–	**C**
	LA71ZMD4	0.75	**2KJ1524 - ■ CH13 - ■■■■**	2 009.–	**C**
	LA90S4	1.1	**2KJ1524 - ■ EL13 - ■■■■**	2 084.–	**C**
	LA90L4	1.5	**2KJ1524 - ■ EP13 - ■■■■**	2 133.–	**C**
	LA90ZMP4	2.2	**2KJ1524 - ■ EQ13 - ■■■■**	2 148.–	**C**
K108 - Z48	LA71B4	0.12	**2KJ1530 - ■ CB13 - ■■■■**	2 486.–	**C**
	LA71C4	0.18	**2KJ1530 - ■ CC13 - ■■■■**	2 488.–	**C**
	LA71S4	0.25	**2KJ1530 - ■ CD13 - ■■■■**	2 493.–	**C**
	LA71M4	0.37	**2KJ1530 - ■ CE13 - ■■■■**	2 501.–	**C**
	LA71ZMP4	0.55	**2KJ1530 - ■ CG13 - ■■■■**	2 509.–	**C**
	LA80M4	0.75	**2KJ1530 - ■ DC13 - ■■■■**	2 531.–	**C**
	LA90S4	1.1	**2KJ1530 - ■ EL13 - ■■■■**	2 593.–	**C**
	LA90L4	1.5	**2KJ1530 - ■ EP13 - ■■■■**	2 642.–	**C**
	LA100L4	2.2	**2KJ1530 - ■ FL13 - ■■■■**	2 693.–	**C**
	LA100LB4	3.0	**2KJ1530 - ■ FM13 - ■■■■**	2 736.–	**C**
	LA112MB4	4.0	**2KJ1530 - ■ GH13 - ■■■■**	2 861.–	**C**

Selection and ordering data

Bevel helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K108 - Z48	LA132SM4	5.5	**2KJ1530 - ■ HF13 - ■■■■**	2 981.–	**C**
	LA132M4	7.5	**2KJ1530 - ■ HH13 - ■■■■**	3 423.–	**C**
	LA132ZMP4	9.2	**2KJ1530 - ■ HT13 - ■■■■**	3 580.–	**C**
	LA71B4	0.12	**2KJ1527 - ■ CB13 - ■■■■**	2 486.–	**C**
	LA71C4	0.18	**2KJ1527 - ■ CC13 - ■■■■**	2 488.–	**C**
	LA71S4	0.25	**2KJ1527 - ■ CD13 - ■■■■**	2 493.–	**C**
	LA71M4	0.37	**2KJ1527 - ■ CE13 - ■■■■**	2 501.–	**C**
	LA71ZMP4	0.55	**2KJ1527 - ■ CG13 - ■■■■**	2 509.–	**C**
	LA80M4	0.75	**2KJ1527 - ■ DC13 - ■■■■**	2 531.–	**C**
	LA90S4	1.1	**2KJ1527 - ■ EL13 - ■■■■**	2 593.–	**C**
	LA90L4	1.5	**2KJ1527 - ■ EP13 - ■■■■**	2 642.–	**C**
	LA100L4	2.2	**2KJ1527 - ■ FL13 - ■■■■**	2 693.–	**C**
	LA100LB4	3.0	**2KJ1527 - ■ FM13 - ■■■■**	2 736.–	**C**
	LA112MB4	4.0	**2KJ1527 - ■ GH13 - ■■■■**	2 861.–	**C**
K108 - D38	LA71B4	0.12	**2KJ1528 - ■ CB13 - ■■■■**	2 559.–	**C**
	LA71C4	0.18	**2KJ1528 - ■ CC13 - ■■■■**	2 561.–	**C**
	LA71S4	0.25	**2KJ1528 - ■ CD13 - ■■■■**	2 566.–	**C**
	LA71M4	0.37	**2KJ1528 - ■ CE13 - ■■■■**	2 574.–	**C**
	LA71ZMP4	0.55	**2KJ1528 - ■ CG13 - ■■■■**	2 582.–	**C**
	LA80M4	0.75	**2KJ1528 - ■ DC13 - ■■■■**	2 604.–	**C**
	LA90S4	1.1	**2KJ1528 - ■ EL13 - ■■■■**	2 666.–	**C**
	LA90L4	1.5	**2KJ1528 - ■ EP13 - ■■■■**	2 715.–	**C**
K128 - Z48	LA71B4	0.12	**2KJ1533 - ■ CB13 - ■■■■**	3 680.–	**C**
	LA71C4	0.18	**2KJ1533 - ■ CC13 - ■■■■**	3 682.–	**C**
	LA71S4	0.25	**2KJ1533 - ■ CD13 - ■■■■**	3 687.–	**C**
	LA71M4	0.37	**2KJ1533 - ■ CE13 - ■■■■**	3 695.–	**C**
	LA71ZMP4	0.55	**2KJ1533 - ■ CG13 - ■■■■**	3 703.–	**C**
	LA80M4	0.75	**2KJ1533 - ■ DC13 - ■■■■**	3 725.–	**C**
	LA90S4	1.1	**2KJ1533 - ■ EL13 - ■■■■**	3 787.–	**C**
	LA90L4	1.5	**2KJ1533 - ■ EP13 - ■■■■**	3 836.–	**C**
	LA100L4	2.2	**2KJ1533 - ■ FL13 - ■■■■**	3 887.–	**C**
	LA100LB4	3.0	**2KJ1533 - ■ FM13 - ■■■■**	3 930.–	**C**
	LA112MB4	4.0	**2KJ1533 - ■ GH13 - ■■■■**	4 055.–	**C**
	LA132SM4	5.5	**2KJ1533 - ■ HF13 - ■■■■**	4 175.–	**C**
	LA132M4	7.5	**2KJ1533 - ■ HH13 - ■■■■**	4 617.–	**C**
	LA132ZMP4	9.2	**2KJ1533 - ■ HT13 - ■■■■**	4 774.–	**C**

Bevel helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K128 - Z38	LA71B4	0.12	**2KJ1531 - ■ CB13 - ■■■■**	3 606.–	**C**
	LA71C4	0.18	**2KJ1531 - ■ CC13 - ■■■■**	3 608.–	**C**
	LA71S4	0.25	**2KJ1531 - ■ CD13 - ■■■■**	3 613.–	**C**
	LA71M4	0.37	**2KJ1531 - ■ CE13 - ■■■■**	3 621.–	**C**
	LA71ZMP4	0.55	**2KJ1531 - ■ CG13 - ■■■■**	3 629.–	**C**
	LA80M4	0.75	**2KJ1531 - ■ DC13 - ■■■■**	3 651.–	**C**
	LA90S4	1.1	**2KJ1531 - ■ EL13 - ■■■■**	3 713.–	**C**
	LA90L4	1.5	**2KJ1531 - ■ EP13 - ■■■■**	3 762.–	**C**
	LA100L4	2.2	**2KJ1531 - ■ FL13 - ■■■■**	3 813.–	**C**
	LA100LB4	3.0	**2KJ1531 - ■ FM13 - ■■■■**	3 856.–	**C**
	LA112MB4	4.0	**2KJ1531 - ■ GH13 - ■■■■**	3 981.–	**C**
K128 - D38	LA71B4	0.12	**2KJ1532 - ■ CB13 - ■■■■**	3 680.–	**C**
	LA71C4	0.18	**2KJ1532 - ■ CC13 - ■■■■**	3 682.–	**C**
	LA71S4	0.25	**2KJ1532 - ■ CD13 - ■■■■**	3 687.–	**C**
	LA71M4	0.37	**2KJ1532 - ■ CE13 - ■■■■**	3 695.–	**C**
	LA71ZMP4	0.55	**2KJ1532 - ■ CG13 - ■■■■**	3 703.–	**C**
	LA80M4	0.75	**2KJ1532 - ■ DC13 - ■■■■**	3 725.–	**C**
	LA90S4	1.1	**2KJ1532 - ■ EL13 - ■■■■**	3 787.–	**C**
	LA90L4	1.5	**2KJ1532 - ■ EP13 - ■■■■**	3 836.–	**C**
K148 - Z68	LA71B4	0.12	**2KJ1536 - ■ CB13 - ■■■■**	6 021.–	**C**
	LA71C4	0.18	**2KJ1536 - ■ CC13 - ■■■■**	6 023.–	**C**
	LA71S4	0.25	**2KJ1536 - ■ CD13 - ■■■■**	6 028.–	**C**
	LA71M4	0.37	**2KJ1536 - ■ CE13 - ■■■■**	6 036.–	**C**
	LA71ZMP4	0.55	**2KJ1536 - ■ CG13 - ■■■■**	6 044.–	**C**
	LA80M4	0.75	**2KJ1536 - ■ DC13 - ■■■■**	6 066.–	**C**
	LA90S4	1.1	**2KJ1536 - ■ EL13 - ■■■■**	6 128.–	**C**
	LA90L4	1.5	**2KJ1536 - ■ EP13 - ■■■■**	6 177.–	**C**
	LA100L4	2.2	**2KJ1536 - ■ FL13 - ■■■■**	6 228.–	**C**
	LA100LB4	3.0	**2KJ1536 - ■ FM13 - ■■■■**	6 271.–	**C**
	LA112MB4	4.0	**2KJ1536 - ■ GH13 - ■■■■**	6 396.–	**C**
	LA132SM4	5.5	**2KJ1536 - ■ HF13 - ■■■■**	6 516.–	**C**
	LA132M4	7.5	**2KJ1536 - ■ HH13 - ■■■■**	6 958.–	**C**
	LA132ZMP4	9.2	**2KJ1536 - ■ HT13 - ■■■■**	7 115.–	**C**
	LA160MB4	11.0	**2KJ1536 - ■ JP13 - ■■■■**	7 423.–	**C**
	LA160L4	15.0	**2KJ1536 - ■ JR13 - ■■■■**	8 078.–	**C**
K148 - Z38	LA71B4	0.12	**2KJ1534 - ■ CB13 - ■■■■**	5 857.–	**C**
	LA71C4	0.18	**2KJ1534 - ■ CC13 - ■■■■**	5 859.–	**C**
	LA71S4	0.25	**2KJ1534 - ■ CD13 - ■■■■**	5 864.–	**C**
	LA71M4	0.37	**2KJ1534 - ■ CE13 - ■■■■**	5 872.–	**C**
	LA71ZMP4	0.55	**2KJ1534 - ■ CG13 - ■■■■**	5 880.–	**C**
	LA80M4	0.75	**2KJ1534 - ■ DC13 - ■■■■**	5 902.–	**C**
	LA90S4	1.1	**2KJ1534 - ■ EL13 - ■■■■**	5 964.–	**C**
	LA90L4	1.5	**2KJ1534 - ■ EP13 - ■■■■**	6 013.–	**C**
	LA100L4	2.2	**2KJ1534 - ■ FL13 - ■■■■**	6 064.–	**C**
	LA100LB4	3.0	**2KJ1534 - ■ FM13 - ■■■■**	6 107.–	**C**
	LA112MB4	4.0	**2KJ1534 - ■ GH13 - ■■■■**	6 232.–	**C**

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Recommended prices

Selection and ordering data

Bevel helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K148 - D38	LA71B4	0.12	**2KJ1535 - ■ CB13 - ■■■■**	6 021.–	**C**
	LA71C4	0.18	**2KJ1535 - ■ CC13 - ■■■■**	6 023.–	**C**
	LA71S4	0.25	**2KJ1535 - ■ CD13 - ■■■■**	6 028.–	**C**
	LA71M4	0.37	**2KJ1535 - ■ CE13 - ■■■■**	6 036.–	**C**
	LA71ZMP4	0.55	**2KJ1535 - ■ CG13 - ■■■■**	6 044.–	**C**
	LA80M4	0.75	**2KJ1535 - ■ DC13 - ■■■■**	6 066.–	**C**
	LA90S4	1.1	**2KJ1535 - ■ EL13 - ■■■■**	6 128.–	**C**
	LA90L4	1.5	**2KJ1535 - ■ EP13 - ■■■■**	6 177.–	**C**
K168 - Z68	LA80M4	0.75	**2KJ1540 - ■ DC13 - ■■■■**	8 874.–	**C**
	LA90S4	1.1	**2KJ1540 - ■ EL13 - ■■■■**	8 936.–	**C**
	LA90L4	1.5	**2KJ1540 - ■ EP13 - ■■■■**	8 985.–	**C**
	LA100L4	2.2	**2KJ1540 - ■ FL13 - ■■■■**	9 036.–	**C**
	LA100LB4	3.0	**2KJ1540 - ■ FM13 - ■■■■**	9 079.–	**C**
	LA112MB4	4.0	**2KJ1540 - ■ GH13 - ■■■■**	9 204.–	**C**
	LA132SB4	5.5	**2KJ1540 - ■ HF13 - ■■■■**	9 324.–	**C**
	LA132M4	7.5	**2KJ1540 - ■ HH13 - ■■■■**	9 766.–	**C**
	LA132ZMP4	9.2	**2KJ1540 - ■ HT13 - ■■■■**	9 923.–	**C**
	LA160MB4	11.0	**2KJ1540 - ■ JP13 - ■■■■**	10 231.–	**C**
	LA160L4	15.0	**2KJ1540 - ■ JR13 - ■■■■**	10 886.–	**C**
K168 - Z48	LA71B4	0.12	**2KJ1537 - ■ CB13 - ■■■■**	8 815.–	**C**
	LA71C4	0.18	**2KJ1537 - ■ CC13 - ■■■■**	8 817.–	**C**
	LA71S4	0.25	**2KJ1537 - ■ CD13 - ■■■■**	8 822.–	**C**
	LA71M4	0.37	**2KJ1537 - ■ CE13 - ■■■■**	8 830.–	**C**
	LA71ZMP4	0.55	**2KJ1537 - ■ CG13 - ■■■■**	8 838.–	**C**
	LA80M4	0.75	**2KJ1537 - ■ DC13 - ■■■■**	8 860.–	**C**
	LA90S4	1.1	**2KJ1537 - ■ EL13 - ■■■■**	8 922.–	**C**
	LA90L4	1.5	**2KJ1537 - ■ EP13 - ■■■■**	8 971.–	**C**
	LA100L4	2.2	**2KJ1537 - ■ FL13 - ■■■■**	9 022.–	**C**
	LA100LB4	3.0	**2KJ1537 - ■ FM13 - ■■■■**	9 065.–	**C**
	LA112MB4	4.0	**2KJ1537 - ■ GH13 - ■■■■**	9 190.–	**C**
	LA132SB4	5.5	**2KJ1537 - ■ HF13 - ■■■■**	9 310.–	**C**
	LA132M4	7.5	**2KJ1537 - ■ HH13 - ■■■■**	9 752.–	**C**
	LA132ZMP4	9.2	**2KJ1537 - ■ HT13 - ■■■■**	9 909.–	**C**
K168 - D48	LA71B4	0.12	**2KJ1538 - ■ CB13 - ■■■■**	8 829.–	**C**
	LA71C4	0.18	**2KJ1538 - ■ CC13 - ■■■■**	8 831.–	**C**
	LA71S4	0.25	**2KJ1538 - ■ CD13 - ■■■■**	8 836.–	**C**
	LA71M4	0.37	**2KJ1538 - ■ CE13 - ■■■■**	8 844.–	**C**
	LA71ZMP4	0.55	**2KJ1538 - ■ CG13 - ■■■■**	8 852.–	**C**
	LA80M4	0.75	**2KJ1538 - ■ DC13 - ■■■■**	8 874.–	**C**
	LA90S4	1.1	**2KJ1538 - ■ EL13 - ■■■■**	8 936.–	**C**
	LA90L4	1.5	**2KJ1538 - ■ EP13 - ■■■■**	8 985.–	**C**
	LA100L4	2.2	**2KJ1538 - ■ FL13 - ■■■■**	9 036.–	**C**
	LA100LB4	3.0	**2KJ1538 - ■ FM13 - ■■■■**	9 079.–	**C**

Bevel helical tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
K188 - Z88	LA100L4	2.2	**2KJ1543 - ■ FL13 - ■■■■**	12 636.–	**C**
	LA100LB4	3.0	**2KJ1543 - ■ FM13 - ■■■■**	12 679.–	**C**
	LA112MB4	4.0	**2KJ1543 - ■ GH13 - ■■■■**	12 804.–	**C**
	LA132SB4	5.5	**2KJ1543 - ■ HF13 - ■■■■**	12 924.–	**C**
	LA132M4	7.5	**2KJ1543 - ■ HH13 - ■■■■**	13 366.–	**C**
	LA132ZMP4	9.2	**2KJ1543 - ■ HT13 - ■■■■**	13 523.–	**C**
	LA160MB4	11.0	**2KJ1543 - ■ JP13 - ■■■■**	13 831.–	**C**
	LA160L4	15.0	**2KJ1543 - ■ JR13 - ■■■■**	14 486.–	**C**
	LG180ZMB4	18.5	**2KJ1543 - ■ KL13 - ■■■■**	14 850.–	**C**
	LG180ZLB4	22.0	**2KJ1543 - ■ KP13 - ■■■■**	15 368.–	**C**
	LG200LB4	30.0	**2KJ1543 - ■ LM13 - ■■■■**	16 262.–	**C**
K188 - Z68	LA71B4	0.12	**2KJ1541 - ■ CB13 - ■■■■**	12 042.–	**C**
	LA71C4	0.18	**2KJ1541 - ■ CC13 - ■■■■**	12 044.–	**C**
	LA71S4	0.25	**2KJ1541 - ■ CD13 - ■■■■**	12 049.–	**C**
	LA71M4	0.37	**2KJ1541 - ■ CE13 - ■■■■**	12 057.–	**C**
	LA71ZMP4	0.55	**2KJ1541 - ■ CG13 - ■■■■**	12 065.–	**C**
	LA80M4	0.75	**2KJ1541 - ■ DC13 - ■■■■**	12 087.–	**C**
	LA90S4	1.1	**2KJ1541 - ■ EL13 - ■■■■**	12 149.–	**C**
	LA90L4	1.5	**2KJ1541 - ■ EP13 - ■■■■**	12 198.–	**C**
	LA100L4	2.2	**2KJ1541 - ■ FL13 - ■■■■**	12 249.–	**C**
	LA100LB4	3.0	**2KJ1541 - ■ FM13 - ■■■■**	12 292.–	**C**
	LA112MB4	4.0	**2KJ1541 - ■ GH13 - ■■■■**	12 417.–	**C**
	LA132SB4	5.5	**2KJ1541 - ■ HF13 - ■■■■**	12 537.–	**C**
	LA132M4	7.5	**2KJ1541 - ■ HH13 - ■■■■**	12 979.–	**C**
	LA132ZMP4	9.2	**2KJ1541 - ■ HT13 - ■■■■**	13 136.–	**C**
	LA160MB4	11.0	**2KJ1541 - ■ JP13 - ■■■■**	13 444.–	**C**
	LA160L4	15.0	**2KJ1541 - ■ JR13 - ■■■■**	14 099.–	**C**
K188 - D68	LA71B4	0.12	**2KJ1542 - ■ CB13 - ■■■■**	12 409.–	**C**
	LA71C4	0.18	**2KJ1542 - ■ CC13 - ■■■■**	12 411.–	**C**
	LA71S4	0.25	**2KJ1542 - ■ CD13 - ■■■■**	12 416.–	**C**
	LA71M4	0.37	**2KJ1542 - ■ CE13 - ■■■■**	12 424.–	**C**
	LA71ZMP4	0.55	**2KJ1542 - ■ CG13 - ■■■■**	12 432.–	**C**
	LA80M4	0.75	**2KJ1542 - ■ DC13 - ■■■■**	12 454.–	**C**
	LA90S4	1.1	**2KJ1542 - ■ EL13 - ■■■■**	12 516.–	**C**
	LA90L4	1.5	**2KJ1542 - ■ EP13 - ■■■■**	12 565.–	**C**
	LA100L4	2.2	**2KJ1542 - ■ FL13 - ■■■■**	12 616.–	**C**
	LA100LB4	3.0	**2KJ1542 - ■ FM13 - ■■■■**	12 659.–	**C**

Bevel helical gearboxes B

Mounting types

Gearbox size			28	38	48	68	88	108	128	148	168	188	
Mounting type	**Order number 14th position**	**Order code**	**Additional cost in EUR**										**DTC**
Foot-mounted design	**A**	**–**	✓	✓									**A**
Housing flange (C-type)	**H**	**–**	29.–	29.–									**A**
Torque arm	**D**	**–**	72.–	82.–									**A**
Flange-mounted design (A-type)	**F**	**H02 … H05**	41.–	72.–									**A**

Shaft designs

Gearbox size			28	38	48	68	88	108	128	148	168	188	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**										**DTC**
Bevel helical gearbox B, foot-mounted design													
Solid shaft with feather key	**1**	**–**	✓	✓									**A**
Hollow shaft	**5**	**–**	50.–	50.–									**A**
	6	**–**	50.–	50.–									**A**
Hollow shaft with shrink disk	**9**	**H3A**	174.–	182.–									**A**
		H3B		182.–									**A**
Hollow shaft with splined shaft	**9**	**H4A**		166.–									**A**
Bevel helical gearbox B with housing flange or torque arm													
Solid shaft with feather key	**1**	**–**	❒	❒									**A**
Hollow shaft	**5**	**–**	50.–	50.–									**A**
	6	**–**	50.–	50.–									**A**
Hollow shaft with shrink disk	**9**	**H3A**	174.–	182.–									**A**
		H3B		182.–									**A**
Hollow shaft with splined shaft	**9**	**H4A**		166.–									**A**
Bevel helical gearboxes B, flange-mounted design (A-type)													
Solid shaft with feather key	**2**	**–**	✓	✓									**A**
Solid shaft with feather key, inch design	**9**	**H6B**	❒	❒									**A**
Hollow shaft	**5**	**–**	50.–	50.–									**A**
	6	**–**	50.–	50.–									**A**
Hollow shaft with shrink disk	**9**	**H3A**	174.–	182.–									**A**
		H3B		182.–									**A**
Hollow shaft with splined shaft	**9**	**H4A**		166.–									**A**

Special designs

Lubricants

Gearbox size		28	38	48	68	88	108	128	148	168	188	
Designation acc. to DIN 51502	**Order code**	**Additional cost in EUR**										**DTC**
Standard oils												
CLP ISO PG VG460	**K08**	✓	✓									**A**
Oils for low-temperature application												
CLP ISO PAO VG220	**K12** *)		41.–									**A**
CLP ISO PAO VG68	**K13** *)											**A**
Physiologically safe oils (approved for the food industry) in acc. with USDA H1												
CLP ISO H1 VG460	**K11** *)	13.–	51.–									**A**
Biologically degradable oils												
CLP ISO E VG220	**K10** *)	13.–	51.–									**A**

*) on request

Additional options

Gearbox size		28	38	48	68	88	108	128	148	168	188	
Design	**Order code**	**Additional cost in EUR**										**DTC**
Oil level control												
Oil sight glass	**G34**	–	–									**–**
Electrical oil level monitoring system												
Capacitive sensor	•	•	•									•
Isolation amplifier 24V	•	•	•									•
Gearbox ventilation												
Vent filter	**G44**	–	–									**–**
Pressure breather valve	**G45**	–	–									**–**
Oil drain												
Oil drain plug magnetic	**G53**	–	–									**–**
Oil drain valve, straight	**G54**	–	–									**–**
Oil drain valve, angled	•	•	•									•
Sealing												
Dual sealing MSS1	**G23**	50.–										**C**
Combination shaft sealing	**G24**		50.–									**C**
High temperature-resistant seal (Viton)	**G25**	21.–	25.–									**B**
Hollow shaft cover (protection cover)												
Steel protection cover	**G60**		61.–									**A**
Steel protection cover (ATEX)	**G61**	61.–	61.–									**A**
Protection cover	**G62**		61.–									**A**
Protection cover (ATEX)	**G63**		61.–									**A**
Second output shaft extension												
Second output shaft extension	**G73**	41.–	56.–									**B**

Bevel helical gearboxes K

Mounting types

Gearbox size			38	48	68	88	108	128	148	168	188	
Mounting type	**Order number 14th position**	**Order code**	**Additional cost in EUR**									**DTC**
Foot-mounted design	**A**	**–**	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
Housing flange (C-type)	**H**	**–**	29.–	34.–	39.–	39.–	45.–	50.–	70.–	93.–	128.–	**A**
Torque arm	**D**	**–**	82.–	82.–	93.–	93.–	152.–	213.–	271.–	448.–	624.–	**A**
Flange-mounted design (A-type)	**F**	**H02, H03**	72.–	75.–	88.–	124.–	155.–	247.–	266.–	338.–	432.–	**A**
Mixer flange	**M**	**–**				816.–	1 038.–	1 461.–	2 245.–	3 022.–		**D**
Extruder flange	**E**	**–**			1 664.–	2 065.–	2 695.–	3 333.–	4 163.–	5 559.–		**D**

4

Shaft designs

Gearbox size			38	48	68	88	108	128	148	168	188	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**									**DTC**
Bevel helical gearbox K, foot-mounted design												
Solid shaft with feather key	**1**	**–**	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
	3	**–**	✓		✓	✓	✓	✓	✓	✓	✓	**A**
	4	**–**		✓								**A**
Hollow shaft with feather key	**5**	**–**	50.–	50.–	50.–	105.–	118.–	172.–	172.–	231.–	308.–	**A**
	6	**–**		50.–	50.–	105.–	118.–	172.–	172.–	231.–		**A**
Hollow shaft with shrink disk	**9**	**H3A**	182.–	195.–	225.–	302.–	379.–	578.–	762.–	1 090.–	1 559.–	**B**
		H3B	182.–	195.–	225.–	302.–	379.–	578.–	762.–	1 090.–		**B**
Hollow shaft with splined shaft	**9**	**H4A**	166.–	166.–	172.–	268.–	277.–	419.–	480.–	559.–	651.–	**C**
Bevel helical gearbox K with housing flange or torque arm												
Solid shaft with feather key	**1**	**–**	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
	3	**–**	✓		✓	✓	✓	✓	✓	✓	✓	**A**
	4	**–**		✓								**A**
Hollow shaft with feather key	**5**	**–**	50.–	50.–	50.–	105.–	118.–	172.–	172.–	231.–	308.–	**A**
	6	**–**		50.–	50.–	105.–	118.–	172.–	172.–	231.–		**A**
Hollow shaft with shrink disk	**9**	**H3A**	182.–	195.–	225.–	302.–	379.–	578.–	762.–	1 090.–	1 559.–	**B**
		H3B	182.–	195.–	225.–	302.–	379.–	578.–	762.–	1 090.–		**B**
Hollow shaft with splined shaft	**9**	**H4A**	166.–	166.–	172.–	268.–	277.–	419.–	480.–	559.–	651.–	**C**

Shaft designs (continued)

Gearbox size			38	48	68	88	108	128	148	168	188	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**									**DTC**
Bevel helical gearboxes K, flange-mounted design (A-type)												
Solid shaft with feather key	**2**	**–**	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
Hollow shaft with feather key	**5**	**–**	50.–	50.–	50.–	105.–	118.–	172.–	172.–	231.–	308.–	**A**
	6	**–**		50.–	50.–	105.–	118.–	172.–	172.–	231.–		**A**
Hollow shaft with shrink disk	**9**	**H3A**	182.–	195.–	225.–	302.–	379.–	578.–	762.–	1 090.–	1 559.–	**B**
		H3B	182.–	195.–	225.–	302.–	379.–	578.–	762.–	1 090.–		**B**
Hollow shaft with splined shaft	**9**	**H4A**	166.–	166.–	172.–	268.–	277.–	419.–	480.–	559.–	651.–	**C**
Shaft design for bevel helical gearboxes K.M with mixer flange												
Solid shaft with feather key	**3**	**–**				✓	✓	✓	✓	✓		**A**
Hollow shaft	**9**	**H2F**				105.–	118.–	172.–	172.–	231.–		**A**
Shaft design for bevel helical gearboxes KAE with extruder flange												
Hollow shaft	**9**	**H2A**			50.–	105.–	118.–	172.–	172.–	231.–		**A**
		H2B			50.–	105.–	118.–	172.–	172.–	231.–		**A**
		H2C			50.–	105.–	118.–	172.–	172.–	231.–		**A**

Special designs

Lubricants

Gearbox size		38	48	68	88	108	128	148	168	188	
Designation acc. to DIN 51502	**Order code**	**Additional cost in EUR**									**DTC**
Standard oils											
CLP ISO VG220	**K06**	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
CLP ISO PG VG220	**K07**	12.–	17.–	35.–	64.–	116.–	208.–	330.–	523.–	878.–	**A**
CLP ISO PG VG460	**K08**	12.–	17.–	35.–	64.–	116.–	208.–	330.–	523.–	878.–	**A**
Oils for low-temperature application											
CLP ISO PAO VG220	**K12** *)	30.–	41.–	85.–	154.–	278.–	502.–	796.–	1 261.–	2 121.–	**A**
CLP ISO PAO VG68	**K13** *)	31.–	45.–	90.–	164.–	298.–	537.–	851.–	1 349.–	2 267.–	**A**
Physiologically safe oils (approved for the food industry) in acc. with USDA H1											
CLP ISO H1 VG460	**K11** *)	33.–	48.–	96.–	175.–	317.–	572.–	906.–	1 436.–	2 414.–	**A**
Biologically degradable oils											
CLP ISO E VG220	**K10** *)	33.–	48.–	96.–	175.–	317.–	572.–	906.–	1 436.–	2 414.–	**A**

*) on request

Special designs (continued)

Additional options

Gearbox size		38	48	68	88	108	128	148	168	188	
Design	**Order code**	**Additional cost in EUR**									**DTC**
Oil level control											
Oil sight glass	**G34**		19.–	19.–	19.–	19.–	19.–	24.–	24.–	24.–	**A**
Electrical oil level monitoring system											
Capacitive sensor	•	•	•	•	•	•	•	•	•	•	•
Isolation amplifier 24V	•	•	•	•	•	•	•	•	•	•	•
Gearbox ventilation											
Vent filter	**G44**		✓	✓	✓	✓	✓	✓	✓	✓	**A**
Pressure breather valve	**G45**		11.–	11.–	16.–	16.–	16.–	28.–	28.–	39.–	**A**
Oil expansion unit with vent filter	G47		55.–	55.–	55.–	110.–	110.–	110.–	110.–	110.–	**A**
Oil drain											
Oil drain plug magnetic	**G53**		19.–	19.–	18.–	18.–	18.–	24.–	24.–	42.–	**C**
Oil drain valve, straight	**G54**		91.–	91.–	91.–	91.–	91.–	132.–	132.–	132.–	**A**
Oil drain valve, angled	•	•	•	•	•	•	•	•	•	•	•
Sealing											
Dual radial shaft seal	**G22 + G31**									233.–	**C**
Combination shaft sealing	**G24**	50.–	53.–	56.–	65.–	75.–	130.–	142.–	205.–		**A**
High temperature-resistant seal (Viton)	**G25**	25.–	34.–	39.–	45.–	50.–	56.–	75.–	122.–	194.–	**B**
Hollow shaft cover (protection cover)											
Steel protection cover	**G60**	61.–	68.–	73.–	85.–	121.–	127.–	162.–	174.–	187.–	**A**
Steel protection cover (ATEX)	**G61**	61.–	68.–	73.–	85.–	121.–	127.–	162.–	174.–	187.–	**A**
Protection cover	**G62**	61.–	68.–	73.–	85.–	121.–	127.–	162.–	174.–	187.–	**A**
Protection cover (ATEX)	**G63**	61.–	68.–	73.–	85.–	121.–	127.–	162.–	174.–	187.–	**A**
Second output shaft extension											
Second output shaft extension	**G73**	56.–	65.–	70.–	88.–	100.–	148.–	210.–	297.–	419.–	**B**
Backstop in the intermediate stage											
Backstop in the intermediate stage	**G72**				603.–	775.–	1 024.–	1 467.–	1 807.–		**B**
Mixer flange in dry-well design											
Dry-well design with sight glass	**G89**				83.–	83.–	83.–	83.–	83.–		**B**
Dry-well design with sensor	**G90**				409.–	409.–	409.–	409.–	409.–		**B**
Regreasing device	•				•	•	•	•	•	•	•
Additional options											
Radially reinforced output shaft bearings	**G20**			93.–	122.–	152.–	182.–	302.–	480.–		**B**

STANDARD DRIVES
Helical worm geared motors

5

Orientation

Overview

Helical worm gearboxes are designated as follows:

Gearbox type:

C Helical worm gearbox

Transmission stage (-) Unspecified

Type:

Shaft
(-) Solid shaft
A Hollow shaft

Mounting
(-) Foot-mounted design
F Flange-mounted design (A-type)
Z Housing flange (C-type)
D Torque arm
G Flange (A-type) on opposite side to output shaft

Connection
(-) Feather key
S Shrink disk
T Hollow shaft with splined shaft

Type of intermediate gearbox:

(-) Helical gearbox

Transmission stage
Z 2-stage
D 3-stage

Example:

C F 88 - Z 38 - K4 (100)

- **C** – Gearbox type
- **F** – Type of construction
- **88** – Size
- **Z** – Type of intermediate gearbox
- **38** – Size
- **K4** – Input unit
- **(100)** – (for motor size)

5

1-stage helical worm geared motors C

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
C28	LA71B4	0.12	**2KJ1600 - ■ CB13 - ■■■■**	485.–	**A**
	LA71C4	0.18	**2KJ1600 - ■ CC13 - ■■■■**	487.–	**A**
	LA71S4	0.25	**2KJ1600 - ■ CD13 - ■■■■**	492.–	**A**
	LA71M4	0.37	**2KJ1600 - ■ CE13 - ■■■■**	500.–	**A**
	LA71ZMP4	0.55	**2KJ1600 - ■ CG13 - ■■■■**	508.–	**A**
	LA71ZMD4	0.75	**2KJ1600 - ■ CH13 - ■■■■**	517.–	**A**
C38	LA71B4	0.12	**2KJ1601 - ■ CB13 - ■■■■**	620.–	**A**
	LA71C4	0.18	**2KJ1601 - ■ CC13 - ■■■■**	622.–	**A**
	LA71S4	0.25	**2KJ1601 - ■ CD13 - ■■■■**	627.–	**A**
	LA71M4	0.37	**2KJ1601 - ■ CE13 - ■■■■**	635.–	**A**
	LA71ZMP4	0.55	**2KJ1601 - ■ CG13 - ■■■■**	643.–	**A**
	LA80M4	0.75	**2KJ1601 - ■ DC13 - ■■■■**	665.–	**A**
	LA90S4	1.1	**2KJ1601 - ■ EL13 - ■■■■**	727.–	**A**
	LA90L4	1.5	**2KJ1601 - ■ EP13 - ■■■■**	776.–	**A**
	LA100L4	2.2	**2KJ1601 - ■ CL13 - ■■■■**	827.–	**A**
	LA100LB4	3.0	**2KJ1601 - ■ CM13 - ■■■■**	870.–	**A**
C48	LA71B4	0.12	**2KJ1602 - ■ CB13 - ■■■■**	686.–	**A**
	LA71C4	0.18	**2KJ1602 - ■ CC13 - ■■■■**	688.–	**A**
	LA71S4	0.25	**2KJ1602 - ■ CD13 - ■■■■**	693.–	**A**
	LA71M4	0.37	**2KJ1602 - ■ CE13 - ■■■■**	701.–	**A**
	LA71ZMP4	0.55	**2KJ1602 - ■ CG13 - ■■■■**	709.–	**A**
	LA80M4	0.75	**2KJ1602 - ■ DC13 - ■■■■**	731.–	**A**
	LA90S4	1.1	**2KJ1602 - ■ EL13 - ■■■■**	793.–	**A**

1-stage helical worm geared motors C (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
C48	LA90L4	1.5	**2KJ1602 - ■ EP13 - ■■■■**	842.–	**A**
	LA100L4	2.2	**2KJ1602 - ■ FL13 - ■■■■**	893.–	**A**
	LA100LB4	3.0	**2KJ1602 - ■ FM13 - ■■■■**	936.–	**A**
	LA112MB4	4.0	**2KJ1602 - ■ GH13 - ■■■■**	1 061.–	**A**
C68	LA71B4	0.12	**2KJ1603 - ■ CB13 - ■■■■**	873.–	**A**
	LA71C4	0.18	**2KJ1603 - ■ CC13 - ■■■■**	875.–	**A**
	LA71S4	0.25	**2KJ1603 - ■ CD13 - ■■■■**	880.–	**A**
	LA71M4	0.37	**2KJ1603 - ■ CE13 - ■■■■**	888.–	**A**
	LA71ZMP4	0.55	**2KJ1603 - ■ CG13 - ■■■■**	896.–	**A**
	LA80M4	0.75	**2KJ1603 - ■ DC13 - ■■■■**	918.–	**A**
	LA90S4	1.1	**2KJ1603 - ■ EL13 - ■■■■**	980.–	**A**
	LA90L4	1.5	**2KJ1603 - ■ EP13 - ■■■■**	1 029.–	**A**
	LA100L4	2.2	**2KJ1603 - ■ FL13 - ■■■■**	1 080.–	**A**
	LA100LB4	3.0	**2KJ1603 - ■ FM13 - ■■■■**	1 123.–	**A**
	LA112MB4	4.0	**2KJ1603 - ■ GH13 - ■■■■**	1 248.–	**A**
	LA132SB4	5.5	**2KJ1603 - ■ HF13 - ■■■■**	1 368.–	**A**
	LA132M4	7.5	**2KJ1603 - ■ HH13 - ■■■■**	1 810.–	**A**
	LA132ZMP4	9.2	**2KJ1603 - ■ HT13 - ■■■■**	1 967.–	**A**
C88	LA71B4	0.12	**2KJ1604 - ■ CB13 - ■■■■**	1 237.–	**A**
	LA71C4	0.18	**2KJ1604 - ■ CC13 - ■■■■**	1 239.–	**A**
	LA71S4	0.25	**2KJ1604 - ■ CD13 - ■■■■**	1 244.–	**A**
	LA71M4	0.37	**2KJ1604 - ■ CE13 - ■■■■**	1 252.–	**A**
	LA71ZMP4	0.55	**2KJ1604 - ■ CG13 - ■■■■**	1 260.–	**A**
	LA80M4	0.75	**2KJ1604 - ■ DC13 - ■■■■**	1 282.–	**A**
	LA90S4	1.1	**2KJ1604 - ■ EL13 - ■■■■**	1 344.–	**A**
	LA90L4	1.5	**2KJ1604 - ■ EP13 - ■■■■**	1 393.–	**A**
	LA100L4	2.2	**2KJ1604 - ■ FL13 - ■■■■**	1 444.–	**A**
	LA100LB4	3.0	**2KJ1604 - ■ FM13 - ■■■■**	1 487.–	**A**
	LA112MB4	4.0	**2KJ1604 - ■ GH13 - ■■■■**	1 612.–	**A**
	LA132SB4	5.5	**2KJ1604 - ■ HF13 - ■■■■**	1 732.–	**A**
	LA132M4	7.5	**2KJ1604 - ■ HH13 - ■■■■**	2 174.–	**A**
	LA132ZMP4	9.2	**2KJ1604 - ■ HT13 - ■■■■**	2 331.–	**A**
	LA160MB4	11.0	**2KJ1604 - ■ JP13 - ■■■■**	2 639.–	**A**
	LA160L4	15.0	**2KJ1604 - ■ JR13 - ■■■■**	3 294.–	**A**

Selection and ordering data

Helical worm tandem geared motors

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
C38 - Z28	LA71B4	0.12	**2KJ1605 - ■ CB13 - ■■■■**	919.–	**A**
	LA71C4	0.18	**2KJ1605 - ■ CC13 - ■■■■**	921.–	**A**
	LA71S4	0.25	**2KJ1605 - ■ CD13 - ■■■■**	926.–	**A**
	LA71M4	0.37	**2KJ1605 - ■ CE13 - ■■■■**	934.–	**A**
	LA71ZMP4	0.55	**2KJ1605 - ■ CG13 - ■■■■**	942.–	**A**
	LA71ZMD4	0.75	**2KJ1605 - ■ CH13 - ■■■■**	951.–	**A**
	LA90S4	1.1	**2KJ1605 - ■ EL13 - ■■■■**	1 026.–	**A**
	LA90L4	1.5	**2KJ1605 - ■ EP13 - ■■■■**	1 075.–	**A**
	LA90ZLB4	2.2	**2KJ1605 - ■ EQ13 - ■■■■**	1 090.–	**A**
	LA100LB4	3.0	**2KJ1605 - ■ FM13 - ■■■■**	1 169.–	**A**
C38 - D28	LA71B4	0.12	**2KJ1606 - ■ CB13 - ■■■■**	947.–	**A**
	LA71C4	0.18	**2KJ1606 - ■ CC13 - ■■■■**	949.–	**A**
	LA71S4	0.25	**2KJ1606 - ■ CD13 - ■■■■**	954.–	**A**
	LA71M4	0.37	**2KJ1606 - ■ CE13 - ■■■■**	962.–	**A**
	LA71ZMP4	0.55	**2KJ1606 - ■ CG13 - ■■■■**	970.–	**A**
	LA71ZMD4	0.75	**2KJ1606 - ■ CH13 - ■■■■**	979.–	**A**
	LA90S4	1.1	**2KJ1606 - ■ EL13 - ■■■■**	1 054.–	**A**
	LA90L4	1.5	**2KJ1606 - ■ EP13 - ■■■■**	1 103.–	**A**
	LA90ZLB4	2.2	**2KJ1606 - ■ EQ13 - ■■■■**	1 118.–	**A**
C48 - Z28	LA71B4	0.12	**2KJ1607 - ■ CB13 - ■■■■**	985.–	**A**
	LA71C4	0.18	**2KJ1607 - ■ CC13 - ■■■■**	987.–	**A**
	LA71S4	0.25	**2KJ1607 - ■ CD13 - ■■■■**	992.–	**A**
	LA71M4	0.37	**2KJ1607 - ■ CE13 - ■■■■**	1 000.–	**A**
	LA71ZMP4	0.55	**2KJ1607 - ■ CG13 - ■■■■**	1 008.–	**A**
	LA71ZMD4	0.75	**2KJ1607 - ■ CH13 - ■■■■**	1 017.–	**A**
	LA90S4	1.1	**2KJ1607 - ■ EL13 - ■■■■**	1 092.–	**A**
	LA90L4	1.5	**2KJ1607 - ■ EP13 - ■■■■**	1 141.–	**A**
	LA90ZLB4	2.2	**2KJ1607 - ■ EQ13 - ■■■■**	1 156.–	**A**
	LA100LB4	3.0	**2KJ1607 - ■ FM13 - ■■■■**	1 235.–	**A**
C48 - D28	LA71B4	0.12	**2KJ1608 - ■ CB13 - ■■■■**	1 013.–	**A**
	LA71C4	0.18	**2KJ1608 - ■ CC13 - ■■■■**	1 015.–	**A**
	LA71S4	0.25	**2KJ1608 - ■ CD13 - ■■■■**	1 020.–	**A**
	LA71M4	0.37	**2KJ1608 - ■ CE13 - ■■■■**	1 028.–	**A**
	LA71ZMP4	0.55	**2KJ1608 - ■ CG13 - ■■■■**	1 036.–	**A**
	LA71ZMD4	0.75	**2KJ1608 - ■ CH13 - ■■■■**	1 045.–	**A**
	LA90S4	1.1	**2KJ1608 - ■ EL13 - ■■■■**	1 120.–	**A**
	LA90L4	1.5	**2KJ1608 - ■ EP13 - ■■■■**	1 169.–	**A**
	LA90ZLB4	2.2	**2KJ1608 - ■ EQ13 - ■■■■**	1 184.–	**A**

Helical worm tandem geared motors (continued)

Gearbox type	Integrated motor LA/LG	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
C68 - Z28	LA71B4	0.12	**2KJ1610 - ■ CB13 - ■■■■**	1 172.–	**A**
	LA71C4	0.18	**2KJ1610 - ■ CC13 - ■■■■**	1 174.–	**A**
	LA71S4	0.25	**2KJ1610 - ■ CD13 - ■■■■**	1 179.–	**A**
	LA71M4	0.37	**2KJ1610 - ■ CE13 - ■■■■**	1 187.–	**A**
	LA71ZMP4	0.55	**2KJ1610 - ■ CG13 - ■■■■**	1 195.–	**A**
	LA71ZMD4	0.75	**2KJ1610 - ■ CH13 - ■■■■**	1 204.–	**A**
	LA90S4	1.1	**2KJ1610 - ■ EL13 - ■■■■**	1 279.–	**A**
	LA90L4	1.5	**2KJ1610 - ■ EP13 - ■■■■**	1 328.–	**A**
	LA90ZLB4	2.2	**2KJ1610 - ■ EQ13 - ■■■■**	1 343.–	**A**
	LA100LB4	3.0	**2KJ1610 - ■ FM13 - ■■■■**	1 422.–	**A**
C68 - D28	LA71B4	0.12	**2KJ1611 - ■ CB13 - ■■■■**	1 199.–	**A**
	LA71C4	0.18	**2KJ1611 - ■ CC13 - ■■■■**	1 201.–	**A**
	LA71S4	0.25	**2KJ1611 - ■ CD13 - ■■■■**	1 206.–	**A**
	LA71M4	0.37	**2KJ1611 - ■ CE13 - ■■■■**	1 214.–	**A**
	LA71ZMP4	0.55	**2KJ1611 - ■ CG13 - ■■■■**	1 222.–	**A**
	LA71ZMD4	0.75	**2KJ1611 - ■ CH13 - ■■■■**	1 231.–	**A**
	LA90S4	1.1	**2KJ1611 - ■ EL13 - ■■■■**	1 306.–	**A**
	LA90L4	1.5	**2KJ1611 - ■ EP13 - ■■■■**	1 355.–	**A**
	LA90ZLB4	2.2	**2KJ1611 - ■ EQ13 - ■■■■**	1 370.–	**A**
C88 - Z28	LA71B4	0.12	**2KJ1614 - ■ CB13 - ■■■■**	1 536.–	**A**
	LA71C4	0.18	**2KJ1614 - ■ CC13 - ■■■■**	1 538.–	**A**
	LA71S4	0.25	**2KJ1614 - ■ CD13 - ■■■■**	1 543.–	**A**
	LA71M4	0.37	**2KJ1614 - ■ CE13 - ■■■■**	1 551.–	**A**
	LA71ZMP4	0.55	**2KJ1614 - ■ CG13 - ■■■■**	1 559.–	**A**
	LA71ZMD4	0.75	**2KJ1614 - ■ CH13 - ■■■■**	1 568.–	**A**
	LA90S4	1.1	**2KJ1614 - ■ EL13 - ■■■■**	1 643.–	**A**
	LA90L4	1.5	**2KJ1614 - ■ EP13 - ■■■■**	1 692.–	**A**
	LA90ZLB4	2.2	**2KJ1614 - ■ EQ13 - ■■■■**	1 707.–	**A**
	LA100LB4	3.0	**2KJ1614 - ■ FM13 - ■■■■**	1 786.–	**A**
C88 - D28	LA71B4	0.12	**2KJ1615 - ■ CB13 - ■■■■**	1 563.–	**A**
	LA71C4	0.18	**2KJ1615 - ■ CC13 - ■■■■**	1 565.–	**A**
	LA71S4	0.25	**2KJ1615 - ■ CD13 - ■■■■**	1 570.–	**A**
	LA71M4	0.37	**2KJ1615 - ■ CE13 - ■■■■**	1 578.–	**A**
	LA71ZMP4	0.55	**2KJ1615 - ■ CG13 - ■■■■**	1 586.–	**A**
	LA71ZMD4	0.75	**2KJ1615 - ■ CH13 - ■■■■**	1 595.–	**A**
	LA90S4	1.1	**2KJ1615 - ■ EL13 - ■■■■**	1 670.–	**A**
	LA90L4	1.5	**2KJ1615 - ■ EP13 - ■■■■**	1 719.–	**A**
	LA90ZLB4	2.2	**2KJ1615 - ■ EQ13 - ■■■■**	1 734.–	**A**

Helical worm gearboxes C

Mounting types

Gearbox size			28	38	48	68	88	
Mounting type	**Order number 14th position**	**Order code**	**Additional cost in EUR**					**DTC**
Foot-mounted design	**A**	**–**	✓	✓	✓	✓	✓	**A**
Housing flange (C-type)	**H**	**–**	29.–	29.–	34.–	39.–	39.–	**A**
Torque arm	**D**	**–**	72.–	82.–	82.–	93.–	93.–	**A**
Flange-mounted design (A-type)	**F**	**H01 … H04**	41.–	72.–	75.–	88.–	124.–	**A**

Shaft designs

Gearbox size			28	38	48	68	88	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**					**DTC**
Helical worm gearboxes C, foot-mounted design								
Solid shaft with feather key	**1**	**–**	✓	❒	❒	❒	❒	**A**
	3	**–**		✓	✓	❒	❒	**A**
	4	**–**				✓	✓	**A**
Solid shaft with feather key, inch design	**9**	**H6A**	❒	❒	❒	❒	❒	**C**
	9	**H6C**		❒	❒	❒	❒	**C**
Hollow shaft with feather key	**5**	**–**	50.–	50.–	50.–	50.–	105.–	**A**
	6	**–**	50.–	50.–	50.–	50.–	105.–	**A**
	7	**–**			50.–			**A**
Solid shaft with feather key, inch design	**9**	**H7A**	50.–	50.–	50.–	50.–	105.–	**C**
	9	**H7B**			50.–			**C**
Hollow shaft with shrink disk	**9**	**H3A**	174.–	182.–	195.–	225.–	302.–	**B**
Hollow shaft with splined shaft	**9**	**H4A**		166.–	166.–	172.–	268.–	**C**
Helical worm gearboxes C with housing flange or torque arm								
Hollow shaft with feather key	**5**	**–**	50.–	50.–	50.–	50.–	105.–	**A**
	6	**–**	50.–	50.–	50.–	50.–	105.–	**A**
	7	**–**			50.–			**A**
Solid shaft with feather key, inch design	**9**	**H7A**	50.–	50.–	50.–	50.–	105.–	**C**
	9	**H7B**			50.–			**C**
Hollow shaft with shrink disk	**9**	**H3A**	174.–	182.–	195.–	225.–	302.–	**B**
Hollow shaft with splined shaft	**9**	**H4A**		166.–	166.–	172.–	268.–	**C**

Shaft designs (continued)

Gearbox size			28	38	48	68	88	
Design	**Order number 8th position**	**Order number suffix**	**Additional cost in EUR**					**DTC**
Helical worm gearboxes C, flange-mounted design (A-type)								
Solid shaft with feather key	**2**	**–**	✓	✓	✓	❒	❒	**A**
	7	**–**				✓	✓	**A**
Solid shaft with feather key, inch design	**9**	**H6B**	❒	❒	❒	❒	❒	**C**
Hollow shaft with feather key	**5**	**–**	50.–	50.–	50.–	50.–	105.–	**A**
	6	**–**	50.–	50.–	50.–	50.–	105.–	**A**
	7	**–**			50.–			**A**
Solid shaft with feather key, inch design	**9**	**H7A**	50.–	50.–	50.–	50.–	105.–	**C**
	9	**H7B**			50.–			**C**
Hollow shaft with shrink disk	**9**	**H3A**	174.–	182.–	195.–	225.–	302.–	**B**
Hollow shaft with splined shaft	**9**	**H4A**		166.–	166.–	172.–	268.–	**C**

Special designs

Lubricants

Gearbox size		28	38	48	68	88	
Designation acc. to DIN 51502	**Order code**	**Additional cost in EUR**					**DTC**
Standard oils							
CLP ISO PG VG460	**K08**	✓	✓	✓	✓	✓	**A**
Oils for low-temperature application							
CLP ISO PAO VG220	**K12**		16.–	21.–	43.–	74.–	**A**
Physiologically safe oils (approved for the food industry) in acc. with USDA H1							
CLP ISO H1 VG460	**K11**	8.–	20.–	26.–	53.–	91.–	**A**
Biologically degradable oils							
CLP ISO E VG220	**K10**	8.–	20.–	26.–	53.–	91.–	**A**

Special designs (continued)

Additional options

Gearbox size		28	38	48	68	88	
Design	**Order code**	**Additional cost in EUR**					**DTC**
Oil level control							
Screw plug	**–**		✓	✓	✓	✓	**A**
Oil sight glass	**G34**		19.–	19.–	19.–	19.–	**A**
Electrical oil level monitoring system							
Capacitive sensor	•		•	•	•	•	•
Isolation amplifier 24V	•		•	•	•	•	•
Gearbox ventilation							
Without ventilation	**–**	✓	–	–	–	–	**A**
Vent filter	**G44**		✓	✓	✓	✓	**A**
Pressure breather valve	**G45**		11.–	11.–	11.–	16.–	**A**
Oil expansion unit with vent filter	**G47**		55.–	55.–	55.–	55.–	A
Oil drain							
Oil drain plug	**G52**		✓	✓	✓	✓	**A**
Oil drain plug magnetic	**G53**		19.–	19.–	19.–	19.–	**C**
Oil drain valve, straight	**G54**		91.–	91.–	91.–	91.–	**A**
Oil drain valve, angled	•		•	•	•	•	•
Sealing							
Radial shaft seal	**G22**	✓	✓	✓	✓	✓	**A**
Dual sealing MSS1	**G23**	50.–					**C**
Combination shaft sealing	**G24**		50.–	53.–	56.–	65.–	**C**
High temperature-resistant seal (Viton)	**G25**	21.–	34.–	34.–	39.–	45.–	**B**
Hollow shaft cover (protection cover)							
Sealing cap	**G59**	✓	✓	✓	✓	✓	**A**
Steel protection cover	**G60**	61.–	61.–	68.–	73.–	85.–	**A**
Steel protection cover (ATEX)	**G61**		61.–	68.–	73.–	85.–	**A**
Protection cover	**G62**		61.–	68.–	73.–	85.–	**A**
Protection cover (ATEX)	**G63**		61.–	68.–	73.–	85.–	**A**
Second output shaft extension							
Second output shaft extension	**G73**	41.–	56.–	65.–	70.–	88.–	**A**
Additional options							
Standard bearings	**G19**	✓	✓	✓	✓	✓	**A**
Radially reinforced output shaft bearings	**G20**				93.–	122.–	**B**

STANDARD DRIVES
Worm geared motors

6

Orientation

Overview

Worm gearboxes are designated as follows:

Gearbox type:

SC Worm gearbox

Output-side designs:

1 Shaft designs:

- **A** Hollow shaft
- **E** Plug-in shaft
  - With one shaft extension (position A or B)
  - With two shaft extensions

2 Mounting designs:

- **C** Foot (position 6h, 9h or 12h)
- **D** Torque arm (position A or B) can be mounted in 5 positions
- **F** Flange (A-type), position A or B
  - Short design
  - Long design
- **Z** Housing flange (C-type), on both sides

Input-side designs:

3

- **K4** Adapter unit with plug-in shaft connection according to:
  - Motor size and mounting position or
  - Flange size and shaft diameter (additional data required)

Example:

SC 1 2 50 - 3
(basic gearbox = SCAZ50)

1-stage worm geared motors SC

Gearbox type	IEC motor LAI	Motor power 4-pole (50 Hz) kW	Order number	Price EUR	DTC
SC36	LAI71B4	0.12	**2KJ1700 - ■ CB13 - ■■■■**	387.–	**A**
	LAI71C4	0.18	**2KJ1700 - ■ CC13 - ■■■■**	389.–	**A**
	LAI71S4	0.25	**2KJ1700 - ■ CD13 - ■■■■**	394.–	**A**
	LAI71M4	0.37	**2KJ1700 - ■ CE13 - ■■■■**	402.–	**A**
	LAI80S4	0.55	**2KJ1700 - ■ CG13 - ■■■■**	410.–	**A**
SC50	LAI71B4	0.12	**2KJ1701 - ■ CB13 - ■■■■**	420.–	**A**
	LAI71C4	0.18	**2KJ1701 - ■ CC13 - ■■■■**	422.–	**A**
	LAI71S4	0.25	**2KJ1701 - ■ CD13 - ■■■■**	427.–	**A**
	LAI71M4	0.37	**2KJ1701 - ■ CE13 - ■■■■**	435.–	**A**
	LAI80S4	0.55	**2KJ1701 - ■ CG13 - ■■■■**	443.–	**A**
	LAI80M4	0.75	**2KJ1701 - ■ DC13 - ■■■■**	465.–	**A**
SC63	LAI71B4	0.12	**2KJ1702 - ■ CB13 - ■■■■**	488.–	**A**
	LAI71C4	0.18	**2KJ1702 - ■ CC13 - ■■■■**	490.–	**A**
	LAI71S4	0.25	**2KJ1702 - ■ CD13 - ■■■■**	495.–	**A**
	LAI71M4	0.37	**2KJ1702 - ■ CE13 - ■■■■**	503.–	**A**
	LAI80S4	0.55	**2KJ1702 - ■ CG13 - ■■■■**	511.–	**A**
	LAI80M4	0.75	**2KJ1702 - ■ DC13 - ■■■■**	533.–	**A**
	LAI90S4	1.1	**2KJ1702 - ■ EL13 - ■■■■**	595.–	**A**
	LAI90L4	1.5	**2KJ1702 - ■ EP13 - ■■■■**	644.–	**A**

Mounting types

Gearbox size			36	50	63	
Mounting type	**Order number 14th position**	**Order code**	**Additional cost in EUR**			**DTC**
Housing flange (C-type)	**H**	**–**	✓	✓	✓	**A**
Torque arm	**D**	**–**	7.–	8.–	20.–	**A**
Flange-mounted design (A-type)	**F**	**H01**	12.–	14.–	19.–	**A**
Short flange	**–**	**G06**	✓	✓	✓	**A**
Long flange	**–**	**G07**	❒	❒	❒	**A**
Additional feet on cover	**C**	**H32 … H34**	25.–	25.–	36.–	**A**

Shaft designs

Gearbox size			36	50	63	
Design	**Order number 8th position**	**Order code**	**Additional cost in EUR**			**DTC**
Plug-in shaft	**1**	–	30.–	32.–	34.–	**A**
2nd shaft extension	**1**	**G73**	57.–	60.–	65.–	**B**
Hollow shaft	**5**	–	❒	❒	✓	**A**
	6	–	✓	✓	–	**A**

Special designs

Lubricants

Gearbox size		36	50	63	
Designation acc. to DIN 51502	**Order code**	**Additional cost in EUR**			**DTC**
Standard oils					
CLP ISO PG VG460	**K08**	✓	✓	✓	**A**
Oils for low-temperature application					
CLP ISO PAO VG220	**K12**	•	•	•	•
Physiologically safe oils (approved for the food industry) in acc. with USDA H1					
CLP ISO H1 VG460	**K11**	1.–	2.–	6.–	**A**
Biologically degradable oils					
CLP ISO E VG220	**K10**				**–**

Additional options

Gearbox size		36	50	63	
Design	**Order code**	**Additional cost in EUR**			**DTC**
Gearbox ventilation					
Without ventilation	**–**	✓	✓	✓	**A**
Sealing					
Radial shaft seal	**G22**	✓	✓	✓	**A**
Input unit K4 with flange					
Input unit K4 with flange B5	**N19**	❒	❒	❒	**A**
Input unit K4 with flange B14	**N21**	❒	❒	❒	**A**

Notes

STANDARD DRIVES
Input units

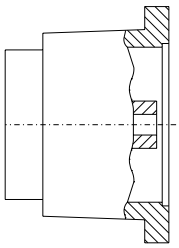
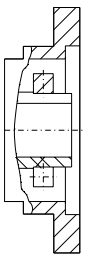
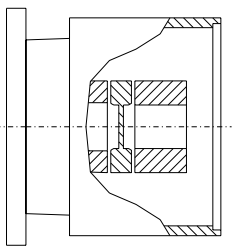
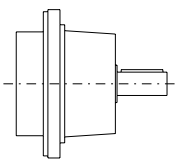
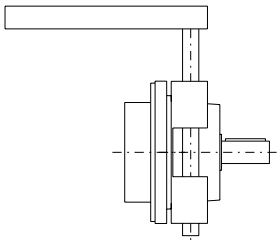
7

Orientation

Overview

For most applications, it is best to mount the motor so that it is integrated on the gearbox. This provides an optimum solution in terms of a short overall length and the least weight.

On request, the gearboxes can also be fitted with an input unit for mounting standard motors.

Input unit		Description
	**K2**	Coupling lantern with flexible coupling for connecting an IEC motor
	**K4**	Short coupling lantern with clamp connection for connecting an IEC motor
	**KQ** **KQS**	Lantern for servomotor with zero-backlash, flexible coupling for connecting a servomotor
	**A**	Input unit with free input shaft
	**P**	Input unit with free input shaft and piggy back for connecting an IEC motor

Overview (continued)

Input unit K2 (coupling lantern)

This input unit for motors in IEC sizes is suitable for general applications with all load types. The input unit contains a torsionally flexible cam coupling which can compensate for axial movement.

Input unit K2 is also available in an ATEX design.

Please refer to the Operating Instructions for information on mounting.

For additional options, see “Special designs”.

Order codes:

Input unit K2 **A03**
Flexible coupling **A16**

Input unit K4 (short lantern)

This input unit is designed for mounting situations that call for an extremely short overall length. The input units are suitable for connecting IEC standard motors within the context of general applications.

The connection between the shafts is rigid and there is no axial compensation. Therefore, we recommend using motors with a fixed bearing on the drive side for optimum service life. It is preferable to use K2 input units in situations involving a high mass inertia and a high number of starting operations in particular. With a class III load classification, you should use input unit K2 or contact us for more information.

Input unit K4 is also available in an ATEX design.

Please refer to the Operating Instructions for information on mounting.

Order code:

Input unit K4 **A04**

Input unit KQ/KQS (servo motor lantern)

This input unit enables servomotors with a square mounting flange to be mounted on the gearbox. This provides the geared motor with a solid and attractive design. The input unit features a zero-backlash, torsionally flexible cam coupling which compensates for axial movement.

Input unit KQ is designed for motor shafts with feather key.

Input unit KQS is designed for motor shafts without feather key.

Order codes:

Input unit KQ **A07**
Input unit KQS **A08**

Size index

The KQ/KQS input units can be selected with different fixing dimensions for connection to various servomotors.

Index		a5	b5	e5	ds x ls
Size	Order code	Dimensions			
71.2	**N61**	82	60	75	ø14 x 30
80.3	**N62**	100	80	100	ø19 x 40
90.4	**N63**	115	110	130	ø24 x 50
112.3	**N62**	140	130	165	ø32 x 60
132.3	**N62**	190	180	215	ø38 x 80

Input unit A with free input shaft

Input unit A has a free solid input shaft and is designed for general solutions where the motor is mounted separately from the gearbox. It is also suitable for solutions that call for manual operation of the input shaft.

Order code:

Input unit A **A00**

Input unit P with free input shaft and piggy back

Input unit P has a free solid input shaft as well as a piggy back. A foot-mounted standard motor can be piggy-backed onto the bracket and connected to the gearbox input shaft by means of a V belt. A belt protection cover (PS design) is available on request.

Pulley and belt are not included in the scope of delivery.

Order codes:

Input unit P **A09**
Input unit PS **A10**

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Selection and ordering data

Input unit K2

Order code: **A03**

IEC input unit size		63	71	80	90	100	112	132	
Gearbox size	**Order number gearbox**	**Order No. 9th position**							**DTC**
		B	**C**	**D**	**E**	**F**	**G**	**H**	
Helical gearboxes E									
E38-K2	**2KJ1001-■■■■■-■■■■**			440.–	440.–	561.–			**A**
E48-K2	**2KJ1002-■■■■■-■■■■**			477.–	477.–	598.–	598.–	787.–	**B**
E68-K2	**2KJ1003-■■■■■-■■■■**			649.–	649.–	770.–	770.–	959.–	**A**
E88-K2	**2KJ1004-■■■■■-■■■■**				760.–	881.–	881.–	1 070.–	**B**
E108-K2	**2KJ1005-■■■■■-■■■■**				1 119.–	1 240.–	1 240.–	1 429.–	**B**
E128-K2	**2KJ1006-■■■■■-■■■■**					1 527.–	1 527.–	1 716.–	**B**
E148-K2	**2KJ1007-■■■■■-■■■■**							2 542.–	**B**
Helical gearboxes Z									
Z38-K2	**2KJ1102-■■■■■-■■■■**			477.–	477.–	598.–			**A**
Z48-K2	**2KJ1103-■■■■■-■■■■**			529.–	529.–	650.–	650.–	839.–	**A**
Z68-K2	**2KJ1104-■■■■■-■■■■**			809.–	809.–	930.–	930.–	1 119.–	**B**
Z88-K2	**2KJ1105-■■■■■-■■■■**				1 116.–	1 237.–	1 237.–	1 426.–	**B**
Z108-K2	**2KJ1106-■■■■■-■■■■**				1 708.–	1 829.–	1 829.–	2 018.–	**A**
Z128-K2	**2KJ1107-■■■■■-■■■■**					2 619.–	2 619.–	2 808.–	**B**
Z148-K2	**2KJ1108-■■■■■-■■■■**							4 429.–	**A**
Z168-K2	**2KJ1110-■■■■■-■■■■**							5 596.–	**B**
Z188-K2	**2KJ1111-■■■■■-■■■■**								**–**
Helical gearboxes D									
D38-K2	**2KJ1202-■■■■■-■■■■**			508.–	508.–				**B**
D48-K2	**2KJ1203-■■■■■-■■■■**			601.–	601.–	722.–			**A**
D68-K2	**2KJ1204-■■■■■-■■■■**			990.–	990.–	1 111.–			**B**
D88-K2	**2KJ1205-■■■■■-■■■■**			1 391.–	1 391.–	1 512.–	1 512.–	1 701.–	**B**
D108-K2	**2KJ1206-■■■■■-■■■■**			1 908.–	1 908.–	2 029.–	2 029.–	2 218.–	**B**
D128-K2	**2KJ1207-■■■■■-■■■■**				2 832.–	2 953.–	2 953.–	3 142.–	**A**
D148-K2	**2KJ1208-■■■■■-■■■■**					4 793.–	4 793.–	4 982.–	**B**
D168-K2	**2KJ1210-■■■■■-■■■■**							6 733.–	**A**
D188-K2	**2KJ1211-■■■■■-■■■■**							9 507.–	**A**
Parallel shaft gearboxes FZ									
FZ38B-K2	**2KJ1301-■■■■■-■■■■**			699.–	699.–	820.–			**B**
FZ48B-K2	**2KJ1302-■■■■■-■■■■**			772.–	772.–	893.–			**B**
FZ68B-K2	**2KJ1303-■■■■■-■■■■**			1 017.–	1 017.–	1 138.–	1 138.–	1 327.–	**B**
FZ88B-K2	**2KJ1304-■■■■■-■■■■**			1 329.–	1 329.–	1 450.–	1 450.–	1 639.–	**B**
FZ108B-K2	**2KJ1305-■■■■■-■■■■**					1 940.–	1 940.–	2 129.–	**A**
FZ128B-K2	**2KJ1306-■■■■■-■■■■**						2 983.–	3 172.–	**A**
FZ148B-K2	**2KJ1307-■■■■■-■■■■**							4 817.–	**A**
FZ168B-K2	**2KJ1308-■■■■■-■■■■**							5 949.–	**B**
FZ188B-K2	**2KJ1310-■■■■■-■■■■**								**–**

Input unit K2 (continued)

IEC input unit size		160	180	200	225	250	280	315	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		J	K	L	M	N	P	Q	
Helical gearboxes E									
E38-K2	**2KJ1001-■■■■■-■■■■**								–
E48-K2	**2KJ1002-■■■■■-■■■■**								–
E68-K2	**2KJ1003-■■■■■-■■■■**								–
E88-K2	**2KJ1004-■■■■■-■■■■**	1 264.–							B
E108-K2	**2KJ1005-■■■■■-■■■■**	1 623.–	1 863.–	2 192.–					B
E128-K2	**2KJ1006-■■■■■-■■■■**	1 910.–	2 150.–	2 479.–	2 862.–				B
E148-K2	**2KJ1007-■■■■■-■■■■**	2 736.–	2 976.–	3 305.–	3 688.–	4 001.–			B
Helical gearboxes Z									
Z38-K2	**2KJ1102-■■■■■-■■■■**								–
Z48-K2	**2KJ1103-■■■■■-■■■■**								–
Z68-K2	**2KJ1104-■■■■■-■■■■**								–
Z88-K2	**2KJ1105-■■■■■-■■■■**	1 620.–							B
Z108-K2	**2KJ1106-■■■■■-■■■■**	2 212.–	2 452.–	2 781.–					A
Z128-K2	**2KJ1107-■■■■■-■■■■**	3 002.–	3 242.–	3 571.–	3 954.–				B
Z148-K2	**2KJ1108-■■■■■-■■■■**	4 623.–	4 863.–	5 192.–	5 575.–	5 888.–			A
Z168-K2	**2KJ1110-■■■■■-■■■■**	5 790.–	6 030.–	6 359.–	6 742.–	7 055.–			B
Z188-K2	**2KJ1111-■■■■■-■■■■**	8 513.–	8 753.–	9 082.–	9 465.–	9 778.–		10 392.–	A
Helical gearboxes D									
D38-K2	**2KJ1202-■■■■■-■■■■**								–
D48-K2	**2KJ1203-■■■■■-■■■■**								–
D68-K2	**2KJ1204-■■■■■-■■■■**								–
D88-K2	**2KJ1205-■■■■■-■■■■**								–
D108-K2	**2KJ1206-■■■■■-■■■■**	2 412.–							B
D128-K2	**2KJ1207-■■■■■-■■■■**	3 336.–	3 576.–	3 905.–					A
D148-K2	**2KJ1208-■■■■■-■■■■**	5 176.–	5 416.–	5 745.–	6 128.–				B
D168-K2	**2KJ1210-■■■■■-■■■■**	6 927.–	7 167.–	7 496.–	7 879.–				A
D188-K2	**2KJ1211-■■■■■-■■■■**	9 701.–	9 941.–	10 270.–	10 653.–	10 966.–			A
Parallel shaft gearboxes FZ									
FZ38B-K2	**2KJ1301-■■■■■-■■■■**								–
FZ48B-K2	**2KJ1302-■■■■■-■■■■**								–
FZ68B-K2	**2KJ1303-■■■■■-■■■■**								–
FZ88B-K2	**2KJ1304-■■■■■-■■■■**								–
FZ108B-K2	**2KJ1305-■■■■■-■■■■**	2 323.–							A
FZ128B-K2	**2KJ1306-■■■■■-■■■■**	3 366.–	3 606.–	3 935.–					A
FZ148B-K2	**2KJ1307-■■■■■-■■■■**	5 011.–	5 251.–	5 580.–	5 963.–				A
FZ168B-K2	**2KJ1308-■■■■■-■■■■**	6 143.–	6 383.–	6 712.–	7 095.–	7 408.–			B
FZ188B-K2	**2KJ1310-■■■■■-■■■■**	8 222.–	8 462.–	8 791.–	9 174.–	9 487.–		10 101.–	A

Selection and ordering data

Input unit K2 (continued)

IEC input unit size		63	71	80	90	100	112	132	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		B	C	D	E	F	G	H	
Parallel shaft gearboxes FD									
FD38B-K2	**2KJ1401-■■■■■-■■■■**			747.–	747.–				**A**
FD48B-K2	**2KJ1402-■■■■■-■■■■**			828.–	828.–	949.–			**B**
FD68B-K2	**2KJ1403-■■■■■-■■■■**			1 085.–	1 085.–	1 206.–			**A**
FD88B-K2	**2KJ1404-■■■■■-■■■■**			1 545.–	1 545.–	1 666.–	1 666.–	1 855.–	**A**
FD108B-K2	**2KJ1405-■■■■■-■■■■**			2 126.–	2 126.–	2 247.–	2 247.–	2 436.–	**B**
FD128B-K2	**2KJ1406-■■■■■-■■■■**				3 321.–	3 442.–	3 442.–	3 631.–	**A**
FD148B-K2	**2KJ1407-■■■■■-■■■■**					4 853.–	4 853.–	5 042.–	**B**
FD168B-K2	**2KJ1408-■■■■■-■■■■**							6 281.–	**A**
FD188B-K2	**2KJ1410-■■■■■-■■■■**							9 565.–	**A**
Bevel helical gearboxes B									
B38-K2	**2KJ1501-■■■■■-■■■■**			847.–	847.–	968.–			**A**
Bevel helical gearboxes K									
K38-K2	**2KJ1502-■■■■■-■■■■**			1 023.–	1 023.–	1 144.–			**B**
K48-K2	**2KJ1503-■■■■■-■■■■**			1 146.–	1 146.–	1 267.–			**B**
K68-K2	**2KJ1504-■■■■■-■■■■**			1 423.–	1 423.–	1 544.–	1 544.–	1 733.–	**B**
K88-K2	**2KJ1505-■■■■■-■■■■**			1 719.–	1 719.–	1 840.–	1 840.–	2 029.–	**B**
K108-K2	**2KJ1506-■■■■■-■■■■**			2 207.–	2 207.–	2 328.–	2 328.–	2 517.–	**B**
K128-K2	**2KJ1507-■■■■■-■■■■**				3 536.–	3 657.–	3 657.–	3 846.–	**B**
K148-K2	**2KJ1508-■■■■■-■■■■**					4 944.–	4 944.–	5 133.–	**B**
K168-K2	**2KJ1510-■■■■■-■■■■**							8 399.–	**B**
K188-K2	**2KJ1511-■■■■■-■■■■**							11 555.–	**B**
Helical worm gearboxes C									
C38-K2	**2KJ1601-■■■■■-■■■■**			688.–	688.–	809.–			**B**
C48-K2	**2KJ1602-■■■■■-■■■■**			754.–	754.–	875.–			**A**
C68-K2	**2KJ1603-■■■■■-■■■■**			941.–	941.–	1 062.–	1 062.–	1 251.–	**B**
C88-K2	**2KJ1604-■■■■■-■■■■**			1 305.–	1 305.–	1 426.–	1 426.–	1 615.–	**A**

Input unit K2 (continued)

IEC input unit size		160	180	200	225	250	280	315	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		J	K	L	M	N	P	Q	
Parallel shaft gearboxes FD									
FD38B-K2	**2KJ1401-■■■■■-■■■■**								**–**
FD48B-K2	**2KJ1402-■■■■■-■■■■**								**–**
FD68B-K2	**2KJ1403-■■■■■-■■■■**								**–**
FD88B-K2	**2KJ1404-■■■■■-■■■■**								**–**
FD108B-K2	**2KJ1405-■■■■■-■■■■**	2 630.–							**B**
FD128B-K2	**2KJ1406-■■■■■-■■■■**	3 825.–	4 065.–	4 394.–					**A**
FD148B-K2	**2KJ1407-■■■■■-■■■■**	5 236.–	5 476.–	5 805.–	6 188.–				**B**
FD168B-K2	**2KJ1408-■■■■■-■■■■**	6 475.–	6 715.–	7 044.–	7 427.–	7 740.–			**A**
FD188B-K2	**2KJ1410-■■■■■-■■■■**	9 759.–	9 999.–	10 328.–	10 711.–	11 024.–			**A**
Bevel helical gearboxes B									
B38-K2	**2KJ1501-■■■■■-■■■■**								**–**
Bevel helical gearboxes K									
K38-K2	**2KJ1502-■■■■■-■■■■**								**–**
K48-K2	**2KJ1503-■■■■■-■■■■**								**–**
K68-K2	**2KJ1504-■■■■■-■■■■**								**–**
K88-K2	**2KJ1505-■■■■■-■■■■**								**–**
K108-K2	**2KJ1506-■■■■■-■■■■**	2 711.–							**B**
K128-K2	**2KJ1507-■■■■■-■■■■**	4 040.–	4 280.–	4 609.–					**B**
K148-K2	**2KJ1508-■■■■■-■■■■**	5 327.–	5 567.–	5 896.–	6 279.–				**B**
K168-K2	**2KJ1510-■■■■■-■■■■**	8 593.–	8 833.–	9 162.–	9 545.–	9 858.–			**B**
K188-K2	**2KJ1511-■■■■■-■■■■**	11 749.–	11 989.–	12 318.–	12 701.–	13 014.–		13 628.–	**B**
Helical worm gearboxes C									
C38-K2	**2KJ1601-■■■■■-■■■■**								**–**
C48-K2	**2KJ1602-■■■■■-■■■■**								**–**
C68-K2	**2KJ1603-■■■■■-■■■■**								**–**
C88-K2	**2KJ1604-■■■■■-■■■■**								**–**

Recommended prices

Selection and ordering data

Input unit K4

Order code: **A04**

IEC input unit size		63	71	80	90	100	112	132	
Gearbox size	**Order number gearbox**	**Order No. 9th position**							**DTC**
		B	**C**	**D**	**E**	**F**	**G**	**H**	
Helical gearboxes E									
E38-K4	**2KJ1001-■■■■■-■■■■**	354.–	354.–	373.–	373.–	418.–	430.–		**B**
E48-K4	**2KJ1002-■■■■■-■■■■**	391.–	391.–	410.–	410.–	455.–	467.–	559.–	**A**
E68-K4	**2KJ1003-■■■■■-■■■■**	563.–	563.–	582.–	582.–	627.–	639.–	731.–	**A**
E88-K4	**2KJ1004-■■■■■-■■■■**				693.–	738.–	750.–	842.–	**C**
E108-K4	**2KJ1005-■■■■■-■■■■**				1 052.–	1 097.–	1 109.–	1 201.–	**C**
E128-K4	**2KJ1006-■■■■■-■■■■**					1 384.–	1 396.–	1 488.–	**C**
E148-K4	**2KJ1007-■■■■■-■■■■**							2 314.–	**C**
Helical gearboxes Z									
Z38-K4	**2KJ1102-■■■■■-■■■■**	391.–	391.–	410.–	410.–	455.–	467.–		**C**
Z48-K4	**2KJ1103-■■■■■-■■■■**	443.–	443.–	462.–	462.–	507.–	519.–	611.–	**C**
Z68-K4	**2KJ1104-■■■■■-■■■■**	723.–	723.–	742.–	742.–	787.–	799.–	891.–	**C**
Z88-K4	**2KJ1105-■■■■■-■■■■**				1 049.–	1 094.–	1 106.–	1 198.–	**C**
Z108-K4	**2KJ1106-■■■■■-■■■■**				1 641.–	1 686.–	1 698.–	1 790.–	**C**
Z128-K4	**2KJ1107-■■■■■-■■■■**					2 476.–	2 488.–	2 580.–	**C**
Z148-K4	**2KJ1108-■■■■■-■■■■**							4 201.–	**C**
Z168-K4	**2KJ1110-■■■■■-■■■■**							5 368.–	**A**
Z188-K4	**2KJ1111-■■■■■-■■■■**								**–**
Helical gearboxes D									
D38-K4	**2KJ1202-■■■■■-■■■■**	422.–	422.–	441.–	441.–				**C**
D48-K4	**2KJ1203-■■■■■-■■■■**	515.–	515.–	534.–	534.–	579.–			**C**
D68-K4	**2KJ1204-■■■■■-■■■■**	904.–	904.–	923.–	923.–	968.–			**B**
D88-K4	**2KJ1205-■■■■■-■■■■**	1 305.–	1 305.–	1 324.–	1 324.–	1 369.–	1 381.–	1 473.–	**C**
D108-K4	**2KJ1206-■■■■■-■■■■**			1 841.–	1 841.–	1 886.–	1 898.–	1 990.–	**B**
D128-K4	**2KJ1207-■■■■■-■■■■**				2 765.–	2 810.–	2 822.–	2 941.–	**B**
D148-K4	**2KJ1208-■■■■■-■■■■**					4 650.–	4 662.–	4 754.–	**B**
D168-K4	**2KJ1210-■■■■■-■■■■**							6 505.–	**C**
D188-K4	**2KJ1211-■■■■■-■■■■**							9 279.–	**B**
Parallel shaft gearboxes FZ									
FZ38B-K4	**2KJ1301-■■■■■-■■■■**	613.–	613.–	632.–	632.–	677.–			**B**
FZ48B-K4	**2KJ1302-■■■■■-■■■■**	686.–	686.–	705.–	705.–	750.–	762.–		**A**
FZ68B-K4	**2KJ1303-■■■■■-■■■■**			950.–	950.–	995.–	1 007.–	1 099.–	**A**
FZ88B-K4	**2KJ1304-■■■■■-■■■■**			1 262.–	1 262.–	1 307.–	1 319.–	1 411.–	**B**
FZ108B-K4	**2KJ1305-■■■■■-■■■■**					1 797.–	1 809.–	1 901.–	**A**
FZ128B-K4	**2KJ1306-■■■■■-■■■■**						2 852.–	2 944.–	**A**
FZ148B-K4	**2KJ1307-■■■■■-■■■■**							4 589.–	**A**
FZ168B-K4	**2KJ1308-■■■■■-■■■■**							5 721.–	**B**
FZ188B-K4	**2KJ1310-■■■■■-■■■■**								**–**

Input unit K4 (continued)

IEC input unit size		160	180	200	225	250	280	315	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		J	K	L	M	N	P	Q	
Helical gearboxes E									
E38-K4	**2KJ1001-■■■■■-■■■■**								**–**
E48-K4	**2KJ1002-■■■■■-■■■■**								**–**
E68-K4	**2KJ1003-■■■■■-■■■■**	863.–							**A**
E88-K4	**2KJ1004-■■■■■-■■■■**	974.–	1 233.–						**C**
E108-K4	**2KJ1005-■■■■■-■■■■**	1 333.–	1 592.–	1 674.–	1 934.–				**C**
E128-K4	**2KJ1006-■■■■■-■■■■**	1 620.–	1 879.–	1 961.–	2 221.–	2 503.–			**C**
E148-K4	**2KJ1007-■■■■■-■■■■**	2 446.–	2 705.–	2 787.–	3 047.–	3 329.–	3 635.–		**C**
Helical gearboxes Z									
Z38-K4	**2KJ1102-■■■■■-■■■■**								**–**
Z48-K4	**2KJ1103-■■■■■-■■■■**								**–**
Z68-K4	**2KJ1104-■■■■■-■■■■**	1 023.–							**C**
Z88-K4	**2KJ1105-■■■■■-■■■■**	1 330.–	1 589.–						**C**
Z108-K4	**2KJ1106-■■■■■-■■■■**	1 922.–	2 181.–	2 263.–	2 523.–				**C**
Z128-K4	**2KJ1107-■■■■■-■■■■**	2 712.–	2 971.–	3 053.–	3 313.–	3 595.–			**C**
Z148-K4	**2KJ1108-■■■■■-■■■■**	4 333.–	4 592.–	4 674.–	4 934.–	5 216.–	5 522.–		**C**
Z168-K4	**2KJ1110-■■■■■-■■■■**	5 500.–	5 759.–	5 841.–	6 101.–	6 383.–	6 689.–		**A**
Z188-K4	**2KJ1111-■■■■■-■■■■**	8 223.–	8 482.–	8 564.–	8 824.–	9 106.–	9 412.–		**C**
Helical gearboxes D									
D38-K4	**2KJ1202-■■■■■-■■■■**								**–**
D48-K4	**2KJ1203-■■■■■-■■■■**								**–**
D68-K4	**2KJ1204-■■■■■-■■■■**								**–**
D88-K4	**2KJ1205-■■■■■-■■■■**								**–**
D108-K4	**2KJ1206-■■■■■-■■■■**	2 122.–							**B**
D128-K4	**2KJ1207-■■■■■-■■■■**	3 046.–	3 305.–	3 387.–					**B**
D148-K4	**2KJ1208-■■■■■-■■■■**	4 886.–	5 145.–	5 227.–	5 487.–				**B**
D168-K4	**2KJ1210-■■■■■-■■■■**	6 637.–	6 896.–	6 978.–	7 238.–				**C**
D188-K4	**2KJ1211-■■■■■-■■■■**	9 411.–	9 670.–	9 752.–	10 012.–	10 294.–	10 600.–		**B**
Parallel shaft gearboxes FZ									
FZ38B-K4	**2KJ1301-■■■■■-■■■■**								**–**
FZ48B-K4	**2KJ1302-■■■■■-■■■■**								**–**
FZ68B-K4	**2KJ1303-■■■■■-■■■■**								**–**
FZ88B-K4	**2KJ1304-■■■■■-■■■■**	1 543.–							**B**
FZ108B-K4	**2KJ1305-■■■■■-■■■■**	2 033.–	2 292.–						**A**
FZ128B-K4	**2KJ1306-■■■■■-■■■■**	3 076.–	3 335.–	3 417.–	3 677.–				**A**
FZ148B-K4	**2KJ1307-■■■■■-■■■■**	4 721.–	4 980.–	5 062.–	5 322.–	5 604.–			**A**
FZ168B-K4	**2KJ1308-■■■■■-■■■■**	5 853.–	6 112.–	6 194.–	6 454.–	6 736.–	7 042.–		**B**
FZ188B-K4	**2KJ1310-■■■■■-■■■■**	7 932.–	8 191.–	8 273.–	8 533.–	8 815.–	9 121.–		**A**

Recommended prices

Selection and ordering data

Input unit K4 (continued)

IEC input unit size		63	71	80	90	100	112	132	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		B	C	D	E	F	G	H	
Parallel shaft gearboxes FD									
FD38B-K4	**2KJ1401-■■■■■-■■■■**	661.–	661.–	680.–	680.–				**B**
FD48B-K4	**2KJ1402-■■■■■-■■■■**	742.–	742.–	761.–	761.–	806.–			**A**
FD68B-K4	**2KJ1403-■■■■■-■■■■**	999.–	999.–	1 018.–	1 018.–	1 063.–			**A**
FD88B-K4	**2KJ1404-■■■■■-■■■■**	1 459.–	1 459.–	1 478.–	1 478.–	1 523.–	1 535.–	1 627.–	**A**
FD108B-K4	**2KJ1405-■■■■■-■■■■**			2 059.–	2 059.–	2 104.–	2 116.–	2 208.–	**B**
FD128B-K4	**2KJ1406-■■■■■-■■■■**				3 254.–	3 299.–	3 311.–	3 403.–	**B**
FD148B-K4	**2KJ1407-■■■■■-■■■■**					4 710.–	4 722.–	4 814.–	**B**
FD168B-K4	**2KJ1408-■■■■■-■■■■**							6 053.–	**B**
FD188B-K4	**2KJ1410-■■■■■-■■■■**							9 337.–	**B**
Bevel helical gearboxes B									
B38-K4	**2KJ1501-■■■■■-■■■■**	761.–	761.–	780.–	780.–	825.–			**A**
Bevel helical gearboxes K									
K38-K4	**2KJ1502-■■■■■-■■■■**	937.–	937.–	956.–	956.–	1 001.–	1 013.–		**A**
K48-K4	**2KJ1503-■■■■■-■■■■**	1 060.–	1 060.–	1 079.–	1 079.–	1 124.–	1 136.–		**A**
K68-K4	**2KJ1504-■■■■■-■■■■**	1 337.–	1 337.–	1 356.–	1 356.–	1 401.–	1 413.–	1 505.–	**A**
K88-K4	**2KJ1505-■■■■■-■■■■**	1 633.–	1 633.–	1 652.–	1 652.–	1 697.–	1 709.–	1 801.–	**A**
K108-K4	**2KJ1506-■■■■■-■■■■**			2 140.–	2 140.–	2 185.–	2 197.–	2 289.–	**A**
K128-K4	**2KJ1507-■■■■■-■■■■**				3 469.–	3 514.–	3 526.–	3 618.–	**A**
K148-K4	**2KJ1508-■■■■■-■■■■**					4 801.–	4 813.–	4 905.–	**A**
K168-K4	**2KJ1510-■■■■■-■■■■**							8 171.–	**A**
K188-K4	**2KJ1511-■■■■■-■■■■**							11 327.–	**B**
Helical worm gearboxes C									
C38-K4	**2KJ1601-■■■■■-■■■■**	602.–	602.–	621.–	621.–	666.–			**C**
C48-K4	**2KJ1602-■■■■■-■■■■**	668.–	668.–	687.–	687.–	732.–	744.–		**C**
C68-K4	**2KJ1603-■■■■■-■■■■**	855.–	855.–	874.–	874.–	919.–	931.–	1 023.–	**A**
C88-K4	**2KJ1604-■■■■■-■■■■**	1 219.–	1 219.–	1 238.–	1 238.–	1 283.–	1 295.–	1 387.–	**B**

Input unit K4 (continued)

IEC input unit size		160	180	200	225	250	280	315	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		J	K	L	M	N	P	Q	
Parallel shaft gearboxes FD									
FD38B-K4	**2KJ1401-■■■■■-■■■■**								**–**
FD48B-K4	**2KJ1402-■■■■■-■■■■**								**–**
FD68B-K4	**2KJ1403-■■■■■-■■■■**								**–**
FD88B-K4	**2KJ1404-■■■■■-■■■■**								**–**
FD108B-K4	**2KJ1405-■■■■■-■■■■**	2 340.–							**B**
FD128B-K4	**2KJ1406-■■■■■-■■■■**	3 535.–	3 794.–	3 876.–					**B**
FD148B-K4	**2KJ1407-■■■■■-■■■■**	4 946.–	5 205.–	5 287.–	5 547.–				**B**
FD168B-K4	**2KJ1408-■■■■■-■■■■**	6 185.–	6 444.–	6 526.–	6 786.–	7 068.–			**B**
FD188B-K4	**2KJ1410-■■■■■-■■■■**	9 469.–	9 728.–	9 810.–	10 070.–	10 352.–	10 658.–		**B**
Bevel helical gearboxes B									
B38-K4	**2KJ1501-■■■■■-■■■■**								**–**
Bevel helical gearboxes K									
K38-K4	**2KJ1502-■■■■■-■■■■**								**–**
K48-K4	**2KJ1503-■■■■■-■■■■**								**–**
K68-K4	**2KJ1504-■■■■■-■■■■**								**–**
K88-K4	**2KJ1505-■■■■■-■■■■**	1 933.–							**A**
K108-K4	**2KJ1506-■■■■■-■■■■**	2 421.–	2 680.–						**A**
K128-K4	**2KJ1507-■■■■■-■■■■**	3 750.–	4 009.–	4 091.–	4 351.–				**A**
K148-K4	**2KJ1508-■■■■■-■■■■**	5 037.–	5 296.–	5 378.–	5 638.–	5 920.–			**A**
K168-K4	**2KJ1510-■■■■■-■■■■**	8 303.–	8 562.–	8 644.–	8 904.–	9 186.–	9 492.–		**A**
K188-K4	**2KJ1511-■■■■■-■■■■**	11 459.–	11 718.–	11 800.–	12 060.–	12 342.–	12 648.–		**B**
Helical worm gearboxes C									
C38-K4	**2KJ1601-■■■■■-■■■■**								**–**
C48-K4	**2KJ1602-■■■■■-■■■■**								**–**
C68-K4	**2KJ1603-■■■■■-■■■■**								**–**
C88-K4	**2KJ1604-■■■■■-■■■■**	1 519.–							**B**

Selection and ordering data

Input unit KQ

Order code: **A07**

Input unit size		71.	80.	90.	112.	132.	
Gearbox size	**Order number gearbox**	**Order No. 9th position**					**DTC**
		C	**D**	**E**	**G**	**H**	
Helical gearboxes E							
E38-KQ	**2KJ1001-■■■■■-■■■■**	412.–	440.–	440.–			**A**
E48-KQ	**2KJ1002-■■■■■-■■■■**	449.–	477.–	477.–	598.–		**A**
E68-KQ	**2KJ1003-■■■■■-■■■■**	621.–	649.–	649.–	770.–	959.–	**A**
E88-KQ	**2KJ1004-■■■■■-■■■■**			760.–	881.–	1 070.–	**A**
E108-KQ	**2KJ1005-■■■■■-■■■■**			1 119.–	1 240.–	1 429.–	**A**
E128-KQ	**2KJ1006-■■■■■-■■■■**				1 527.–	1 716.–	**A**
E148-KQ	**2KJ1007-■■■■■-■■■■**					2 542.–	**A**
Helical gearboxes Z							
Z28-KQ	**2KJ1101-■■■■■-■■■■**	405.–	433.–	433.–			**A**
Z38-KQ	**2KJ1102-■■■■■-■■■■**	449.–	477.–	477.–			**A**
Z48-KQ	**2KJ1103-■■■■■-■■■■**	501.–	529.–	529.–	650.–		**A**
Z68-KQ	**2KJ1104-■■■■■-■■■■**	781.–	809.–	809.–	930.–	1 119.–	**A**
Z88-KQ	**2KJ1105-■■■■■-■■■■**			1 116.–	1 237.–	1 426.–	**A**
Z108-KQ	**2KJ1106-■■■■■-■■■■**			1 708.–	1 829.–	2 018.–	**A**
Z128-KQ	**2KJ1107-■■■■■-■■■■**				2 619.–	2 808.–	**A**
Z148-KQ	**2KJ1108-■■■■■-■■■■**					4 429.–	**A**
Z168-KQ	**2KJ1110-■■■■■-■■■■**					5 596.–	**A**
Helical gearboxes D							
D28-KQ	**2KJ1201-■■■■■-■■■■**	432.–	460.–	460.–			**A**
D38-KQ	**2KJ1202-■■■■■-■■■■**	480.–	508.–	508.–			**A**
D48-KQ	**2KJ1203-■■■■■-■■■■**	573.–	601.–	601.–			**A**
D68-KQ	**2KJ1204-■■■■■-■■■■**	962.–	990.–	990.–			**A**
D88-KQ	**2KJ1205-■■■■■-■■■■**	1 363.–	1 391.–	1 391.–	1 512.–	1 701.–	**A**
D108-KQ	**2KJ1206-■■■■■-■■■■**		1 908.–	1 908.–	2 029.–	2 218.–	**A**
D128-KQ	**2KJ1207-■■■■■-■■■■**			2 832.–	2 953.–	3 142.–	**A**
D148-KQ	**2KJ1208-■■■■■-■■■■**				4 793.–	4 982.–	**A**
D168-KQ	**2KJ1210-■■■■■-■■■■**					6 733.–	**A**
D188-KQ	**2KJ1211-■■■■■-■■■■**					9 507.–	**A**
Parallel shaft gearboxes FZ							
FZ28-KQ	**2KJ1300-■■■■■-■■■■**	581.–	609.–	609.–			**A**
FZ38B-KQ	**2KJ1301-■■■■■-■■■■**	671.–	699.–	699.–			**A**
FZ48B-KQ	**2KJ1302-■■■■■-■■■■**	744.–	772.–	772.–			**A**
FZ68B-KQ	**2KJ1303-■■■■■-■■■■**		1 017.–	1 017.–	1 138.–		**A**
FZ88B-KQ	**2KJ1304-■■■■■-■■■■**		1 329.–	1 329.–	1 450.–	1 639.–	**A**
FZ108B-KQ	**2KJ1305-■■■■■-■■■■**				1 940.–	2 129.–	**A**
FZ128B-KQ	**2KJ1306-■■■■■-■■■■**				2 983.–	3 172.–	**A**
FZ148B-KQ	**2KJ1307-■■■■■-■■■■**					4 817.–	**A**
FZ168B-KQ	**2KJ1308-■■■■■-■■■■**					5 949.–	**A**
FZ188B-KQ	**2KJ1310-■■■■■-■■■■**						**–**

Input unit KQ (continued)

Input unit size		71.	80.	90.	112.	132.	
Gearbox size	**Order number gearbox**	**Order No. 9th position**					**DTC**
		C	**D**	**E**	**G**	**H**	
Parallel shaft gearboxes FD							
FD28-KQ	**2KJ1400-■■■■■-■■■■**	623.–	651.–	651.–			**A**
FD38B-KQ	**2KJ1401-■■■■■-■■■■**	719.–	747.–	747.–			**A**
FD48B-KQ	**2KJ1402-■■■■■-■■■■**	800.–	828.–	828.–			**A**
FD68B-KQ	**2KJ1403-■■■■■-■■■■**	1 057.–	1 085.–	1 085.–	1 206.–		**A**
FD88B-KQ	**2KJ1404-■■■■■-■■■■**	1 517.–	1 545.–	1 545.–	1 666.–	1 855.–	**A**
FD108B-KQ	**2KJ1405-■■■■■-■■■■**		2 126.–	2 126.–	2 247.–	2 436.–	**A**
FD128B-KQ	**2KJ1406-■■■■■-■■■■**			3 321.–	3 442.–	3 631.–	**A**
FD148B-KQ	**2KJ1407-■■■■■-■■■■**				4 854.–	5 042.–	**A**
FD168B-KQ	**2KJ1408-■■■■■-■■■■**					6 281.–	**A**
FD188B-KQ	**2KJ1410-■■■■■-■■■■**					9 565.–	**A**
Bevel helical gearboxes B							
B28-KQ	**2KJ1500-■■■■■-■■■■**	640.–	668.–	668.–			**A**
B38-KQ	**2KJ1501-■■■■■-■■■■**	819.–	847.–	847.–			**A**
Bevel helical gearboxes K							
K38-KQ	**2KJ1502-■■■■■-■■■■**	995.–	1 023.–	1 023.–			**A**
K48-KQ	**2KJ1503-■■■■■-■■■■**	1 118.–	1 146.–	1 146.–			**A**
K68-KQ	**2KJ1504-■■■■■-■■■■**	1 395.–	1 423.–	1 423.–	1 544.–		**A**
K88-KQ	**2KJ1505-■■■■■-■■■■**	1 691.–	1 719.–	1 719.–	1 840.–	2 029.–	**A**
K108-KQ	**2KJ1506-■■■■■-■■■■**		2 207.–	2 207.–	2 328.–	2 517.–	**A**
K128-KQ	**2KJ1507-■■■■■-■■■■**			3 536.–	3 657.–	3 846.–	**A**
K148-KQ	**2KJ1508-■■■■■-■■■■**				4 944.–	5 133.–	**A**
K168-KQ	**2KJ1510-■■■■■-■■■■**					8 399.–	**A**
K188-KQ	**2KJ1511-■■■■■-■■■■**					11 555.–	**A**
Helical worm gearboxes C							
C38-KQ	**2KJ1601-■■■■■-■■■■**	660.–	688.–	688.–			**A**
C48-KQ	**2KJ1602-■■■■■-■■■■**	726.–	754.–	754.–			**A**
C68-KQ	**2KJ1603-■■■■■-■■■■**	913.–	941.–	941.–	1 062.–		**A**
C88-KQ	**2KJ1604-■■■■■-■■■■**	1 277.–	1 305.–	1 305.–	1 426.–	1 615.–	**A**

Selection and ordering data

Input unit KQS

Order code: **A08**

Input unit size		71.	80.	90.	112.	132.	
Gearbox size	**Order number gearbox**	**Order No. 9th position**					**DTC**
		C	**D**	**E**	**G**	**H**	
Helical gearboxes E							
E38-KQS	**2KJ1001-■■■■■-■■■■**	432.–	462.–	462.–			**A**
E48-KQS	**2KJ1002-■■■■■-■■■■**	469.–	499.–	499.–	632.–		**A**
E68-KQS	**2KJ1003-■■■■■-■■■■**	641.–	671.–	671.–	804.–	1 013.–	**A**
E88-KQS	**2KJ1004-■■■■■-■■■■**			782.–	915.–	1 124.–	**A**
E108-KQS	**2KJ1005-■■■■■-■■■■**			1 141.–	1 274.–	1 483.–	**A**
E128-KQS	**2KJ1006-■■■■■-■■■■**				1 561.–	1 770.–	**A**
E148-KQS	**2KJ1007-■■■■■-■■■■**					2 596.–	**A**
Helical gearboxes Z							
Z28-KQS	**2KJ1101-■■■■■-■■■■**	425.–	455.–	455.–			**A**
Z38-KQS	**2KJ1102-■■■■■-■■■■**	469.–	499.–	499.–			**A**
Z48-KQS	**2KJ1103-■■■■■-■■■■**	521.–	551.–	551.–	684.–		**A**
Z68-KQS	**2KJ1104-■■■■■-■■■■**	801.–	831.–	831.–	964.–	1 173.–	**A**
Z88-KQS	**2KJ1105-■■■■■-■■■■**			1 138.–	1 271.–	1 480.–	**A**
Z108-KQS	**2KJ1106-■■■■■-■■■■**			1 730.–	1 863.–	2 072.–	**A**
Z128-KQS	**2KJ1107-■■■■■-■■■■**				2 653.–	2 862.–	**A**
Z148-KQS	**2KJ1108-■■■■■-■■■■**					4 483.–	**A**
Z168-KQS	**2KJ1110-■■■■■-■■■■**					5 650.–	**A**
Helical gearboxes D							
D28-KQS	**2KJ1201-■■■■■-■■■■**	452.–	482.–	482.–			**A**
D38-KQS	**2KJ1202-■■■■■-■■■■**	500.–	530.–	530.–			**A**
D48-KQS	**2KJ1203-■■■■■-■■■■**	593.–	623.–	623.–			**A**
D68-KQS	**2KJ1204-■■■■■-■■■■**	982.–	1 012.–	1 012.–			**A**
D88-KQS	**2KJ1205-■■■■■-■■■■**	1 383.–	1 413.–	1 413.–	1 546.–	1 755.–	**A**
D108-KQS	**2KJ1206-■■■■■-■■■■**		1 930.–	1 930.–	2 063.–	2 272.–	**A**
D128-KQS	**2KJ1207-■■■■■-■■■■**			2 854.–	2 987.–	3 196.–	**A**
D148-KQS	**2KJ1208-■■■■■-■■■■**				4 827.–	5 036.–	**A**
D168-KQS	**2KJ1210-■■■■■-■■■■**					6 787.–	**A**
D188-KQS	**2KJ1211-■■■■■-■■■■**					9 561.–	**A**
Parallel shaft gearboxes FZ							
FZ28-KQS	**2KJ1300-■■■■■-■■■■**	601.–	631.–	631.–			**A**
FZ38B-KQS	**2KJ1301-■■■■■-■■■■**	691.–	721.–	721.–			**A**
FZ48B-KQS	**2KJ1302-■■■■■-■■■■**	764.–	794.–	794.–			**A**
FZ68B-KQS	**2KJ1303-■■■■■-■■■■**		1 039.–	1 039.–	1 172.–		**A**
FZ88B-KQS	**2KJ1304-■■■■■-■■■■**		1 351.–	1 351.–	1 484.–	1 693.–	**A**
FZ108B-KQS	**2KJ1305-■■■■■-■■■■**				1 974.–	2 183.–	**A**
FZ128B-KQS	**2KJ1306-■■■■■-■■■■**				3 017.–	3 226.–	**A**
FZ148B-KQS	**2KJ1307-■■■■■-■■■■**					4 871.–	**A**
FZ168B-KQS	**2KJ1308-■■■■■-■■■■**					6 003.–	**A**
FZ188B-KQS	**2KJ1310-■■■■■-■■■■**						**–**

Input unit KQS (continued)

Input unit size		71.	80.	90.	112.	132.	
Gearbox size	**Order number gearbox**	**Order No. 9th position**					**DTC**
		C	**D**	**E**	**G**	**H**	
Parallel shaft gearboxes FD							
FD28-KQS	**2KJ1400-■■■■■-■■■■**	643.–	673.–	673.–			**A**
FD38B-KQS	**2KJ1401-■■■■■-■■■■**	739.–	769.–	769.–			**A**
FD48B-KQS	**2KJ1402-■■■■■-■■■■**	820.–	850.–	850.–			**A**
FD68B-KQS	**2KJ1403-■■■■■-■■■■**	1 077.–	1 107.–	1 107.–			**A**
FD88B-KQS	**2KJ1404-■■■■■-■■■■**	1 537.–	1 567.–	1 567.–	1 700.–	1 909.–	**A**
FD108B-KQS	**2KJ1405-■■■■■-■■■■**		2 148.–	2 148.–	2 281.–	2 490.–	**A**
FD128B-KQS	**2KJ1406-■■■■■-■■■■**			3 343.–	3 476.–	3 685.–	**A**
FD148B-KQS	**2KJ1407-■■■■■-■■■■**				4 887.–	5 096.–	**A**
FD168B-KQS	**2KJ1408-■■■■■-■■■■**					6 335.–	**A**
FD188B-KQS	**2KJ1410-■■■■■-■■■■**					9 619.–	**A**
Bevel helical gearboxes B							
B28-KQS	**2KJ1500-■■■■■-■■■■**	660.–	690.–	690.–			**A**
B38-KQS	**2KJ1501-■■■■■-■■■■**	839.–	869.–	869.–			**A**
Bevel helical gearboxes K							
K38-KQS	**2KJ1502-■■■■■-■■■■**	1 015.–	1 045.–	1 045.–			**A**
K48-KQS	**2KJ1503-■■■■■-■■■■**	1 138.–	1 168.–	1 168.–			**A**
K68-KQS	**2KJ1504-■■■■■-■■■■**	1 415.–	1 445.–	1 445.–	1 578.–		**A**
K88-KQS	**2KJ1505-■■■■■-■■■■**	1 711.–	1 741.–	1 741.–	1 874.–	2 083.–	**A**
K108-KQS	**2KJ1506-■■■■■-■■■■**		2 229.–	2 229.–	2 362.–	2 571.–	**A**
K128-KQS	**2KJ1507-■■■■■-■■■■**			3 558.–	3 691.–	3 900.–	**A**
K148-KQS	**2KJ1508-■■■■■-■■■■**				4 978.–	5 187.–	**A**
K168-KQS	**2KJ1510-■■■■■-■■■■**					8 453.–	**A**
K188-KQS	**2KJ1511-■■■■■-■■■■**					11 609.–	**A**
Helical worm gearboxes C							
C38-KQS	**2KJ1601-■■■■■-■■■■**	680.–	710.–	710.–			**A**
C48-KQS	**2KJ1602-■■■■■-■■■■**	746.–	776.–	776.–			**A**
C68-KQS	**2KJ1603-■■■■■-■■■■**	933.–	963.–	963.–	1 096.–		**A**
C88-KQS	**2KJ1604-■■■■■-■■■■**	1 297.–	1 327.–	1 327.–	1 460.–	1 669.–	**A**

Selection and ordering data

Input unit A

Order code: **A00**

IEC input unit size		63	71	80	90	100	112	132	
Gearbox size	**Order number gearbox**	**Order No. 9th position**							**DTC**
		B	**C**	**D**	**E**	**F**	**G**	**H**	
Helical gearboxes E									
E38-A	**2KJ1001-■■■■■-■■■■**		355.–	388.–	390.–	413.–			**C**
E48-A	**2KJ1002-■■■■■-■■■■**		392.–	425.–	427.–	450.–	478.–		**C**
E68-A	**2KJ1003-■■■■■-■■■■**		564.–	597.–	599.–	622.–	650.–	762.–	**C**
E88-A	**2KJ1004-■■■■■-■■■■**				710.–	733.–	761.–	873.–	**C**
E108-A	**2KJ1005-■■■■■-■■■■**				1 069.–	1 092.–	1 120.–	1 232.–	**C**
E128-A	**2KJ1006-■■■■■-■■■■**					1 379.–	1 407.–	1 519.–	**C**
E148-A	**2KJ1007-■■■■■-■■■■**							2 345.–	**C**
Helical gearboxes Z									
Z38-A	**2KJ1102-■■■■■-■■■■**		392.–	425.–	427.–	450.–			**C**
Z48-A	**2KJ1103-■■■■■-■■■■**		444.–	477.–	479.–	502.–	530.–		**C**
Z68-A	**2KJ1104-■■■■■-■■■■**		724.–	757.–	759.–	782.–	810.–	922.–	**C**
Z88-A	**2KJ1105-■■■■■-■■■■**				1 066.–	1 089.–	1 117.–	1 229.–	**C**
Z108-A	**2KJ1106-■■■■■-■■■■**				1 658.–	1 681.–	1 709.–	1 821.–	**C**
Z128-A	**2KJ1107-■■■■■-■■■■**					2 471.–	2 499.–	2 611.–	**C**
Z148-A	**2KJ1108-■■■■■-■■■■**							4 232.–	**C**
Z168-A	**2KJ1110-■■■■■-■■■■**							5 399.–	**C**
Helical gearboxes D									
D38-A	**2KJ1202-■■■■■-■■■■**		423.–	456.–	458.–				**C**
D48-A	**2KJ1203-■■■■■-■■■■**		516.–	549.–	551.–	574.–			**C**
D68-A	**2KJ1204-■■■■■-■■■■**		905.–	938.–	940.–	963.–			**C**
D88-A	**2KJ1205-■■■■■-■■■■**		1 306.–	1 339.–	1 341.–	1 364.–	1 392.–	1 504.–	**C**
D108-A	**2KJ1206-■■■■■-■■■■**			1 856.–	1 858.–	1 881.–	1 907.–	2 021.–	**C**
D128-A	**2KJ1207-■■■■■-■■■■**				2 782.–	2 805.–	2 833.–	2 945.–	**C**
D148-A	**2KJ1208-■■■■■-■■■■**					4 645.–	4 673.–	4 785.–	**C**
D168-A	**2KJ1210-■■■■■-■■■■**							6 536.–	**C**
D188-A	**2KJ1211-■■■■■-■■■■**							9 310.–	**C**
Parallel shaft gearboxes FZ									
FZ38B-A	**2KJ1301-■■■■■-■■■■**		614.–	647.–	649.–	672.–			**C**
FZ48B-A	**2KJ1302-■■■■■-■■■■**		687.–	720.–	722.–	745.–			**C**
FZ68B-A	**2KJ1303-■■■■■-■■■■**			965.–	967.–	990.–	1 018.–		**C**
FZ88B-A	**2KJ1304-■■■■■-■■■■**			1 277.–	1 279.–	1 302.–	1 330.–	1 442.–	**C**
FZ108B-A	**2KJ1305-■■■■■-■■■■**					1 792.–	1 820.–	1 932.–	**C**
FZ128B-A	**2KJ1306-■■■■■-■■■■**						2 863.–	2 975.–	**C**
FZ148B-A	**2KJ1307-■■■■■-■■■■**							4 620.–	**C**
FZ168B-A	**2KJ1308-■■■■■-■■■■**							5 752.–	**C**
FZ188B-A	**2KJ1310-■■■■■-■■■■**								**–**

Input unit A (continued)

IEC input unit size		160	180	200	225	250	280	
Gearbox size	Order number gearbox	Order No. 9th position						DTC
		J	K	L	M	N	P	
Helical gearboxes E								
E38-A	**2KJ1001-■■■■■-■■■■**							–
E48-A	**2KJ1002-■■■■■-■■■■**							–
E68-A	**2KJ1003-■■■■■-■■■■**							–
E88-A	**2KJ1004-■■■■■-■■■■**	1 010.–						C
E108-A	**2KJ1005-■■■■■-■■■■**	1 369.–		1 634.–				C
E128-A	**2KJ1006-■■■■■-■■■■**	1 656.–		1 921.–	2 264.–			C
E148-A	**2KJ1007-■■■■■-■■■■**	2 482.–		2 747.–	3 090.–	3 192.–	3 615.–	C
Helical gearboxes Z								
Z38-A	**2KJ1102-■■■■■-■■■■**							–
Z48-A	**2KJ1103-■■■■■-■■■■**							–
Z68-A	**2KJ1104-■■■■■-■■■■**							–
Z88-A	**2KJ1105-■■■■■-■■■■**	1 366.–						C
Z108-A	**2KJ1106-■■■■■-■■■■**	1 958.–		2 223.–				C
Z128-A	**2KJ1107-■■■■■-■■■■**	2 748.–		3 013.–	3 356.–			C
Z148-A	**2KJ1108-■■■■■-■■■■**	4 369.–		4 634.–	4 977.–	5 079.–	5 502.–	C
Z168-A	**2KJ1110-■■■■■-■■■■**	5 536.–		5 801.–	6 144.–	6 246.–	6 669.–	C
Z188-A	**2KJ1111-■■■■■-■■■■**	8 259.–		8 524.–	8 867.–	8 969.–	9 392.–	C
Helical gearboxes D								
D38-A	**2KJ1202-■■■■■-■■■■**							–
D48-A	**2KJ1203-■■■■■-■■■■**							–
D68-A	**2KJ1204-■■■■■-■■■■**							–
D88-A	**2KJ1205-■■■■■-■■■■**							–
D108-A	**2KJ1206-■■■■■-■■■■**	2 158.–						C
D128-A	**2KJ1207-■■■■■-■■■■**	3 082.–		3 347.–				C
D148-A	**2KJ1208-■■■■■-■■■■**	4 922.–		5 187.–	5 530.–			C
D168-A	**2KJ1210-■■■■■-■■■■**	6 673.–		6 938.–	7 281.–			C
D188-A	**2KJ1211-■■■■■-■■■■**	9 447.–		9 712.–	10 055.–	10 157.–	10 580.–	C
Parallel shaft gearboxes FZ								
FZ38B-A	**2KJ1301-■■■■■-■■■■**							–
FZ48B-A	**2KJ1302-■■■■■-■■■■**							–
FZ68B-A	**2KJ1303-■■■■■-■■■■**							–
FZ88B-A	**2KJ1304-■■■■■-■■■■**							–
FZ108B-A	**2KJ1305-■■■■■-■■■■**	2 069.–						C
FZ128B-A	**2KJ1306-■■■■■-■■■■**	3 112.–		3 377.–				C
FZ148B-A	**2KJ1307-■■■■■-■■■■**	4 757.–		5 022.–	5 365.–			C
FZ168B-A	**2KJ1308-■■■■■-■■■■**	5 889.–		6 154.–	6 497.–	6 599.–	7 022.–	C
FZ188B-A	**2KJ1310-■■■■■-■■■■**	7 968.–		8 233.–	8 576.–	8 678.–	9 101.–	C

Selection and ordering data

Input unit A (continued)

IEC input unit size		63	71	80	90	100	112	132	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		B	C	D	E	F	G	H	
Parallel shaft gearboxes FD									
FD38B-A	**2KJ1401-■■■■■-■■■■**		662.–	695.–	697.–				**C**
FD48B-A	**2KJ1402-■■■■■-■■■■**		743.–	776.–	778.–	801.–			**C**
FD68B-A	**2KJ1403-■■■■■-■■■■**		1 000.–	1 033.–	1 035.–	1 058.–			**C**
FD88B-A	**2KJ1404-■■■■■-■■■■**		1 460.–	1 493.–	1 495.–	1 518.–	1 546.–	1 658.–	**C**
FD108B-A	**2KJ1405-■■■■■-■■■■**			2 074.–	2 076.–	2 099.–	2 127.–	2 239.–	**C**
FD128B-A	**2KJ1406-■■■■■-■■■■**				3 271.–	3 294.–	3 322.–	3 434.–	**C**
FD148B-A	**2KJ1407-■■■■■-■■■■**					4 705.–	4 733.–	4 845.–	**C**
FD168B-A	**2KJ1408-■■■■■-■■■■**							6 084.–	**C**
FD188B-A	**2KJ1410-■■■■■-■■■■**							9 368.–	**C**
Bevel helical gearboxes B									
B38-A	**2KJ1501-■■■■■-■■■■**		762.–	795.–	797.–	820.–			**C**
Bevel helical gearboxes K									
K38-A	**2KJ1502-■■■■■-■■■■**		938.–	971.–	973.–	996.–			**C**
K48-A	**2KJ1503-■■■■■-■■■■**		1 061.–	1 094.–	1 096.–	1 119.–			**C**
K68-A	**2KJ1504-■■■■■-■■■■**		1 338.–	1 371.–	1 373.–	1 396.–	1 424.–		**C**
K88-A	**2KJ1505-■■■■■-■■■■**		1 634.–	1 667.–	1 669.–	1 692.–	1 720.–	1 832.–	**C**
K108-A	**2KJ1506-■■■■■-■■■■**			2 155.–	2 157.–	2 180.–	2 208.–	2 320.–	**C**
K128-A	**2KJ1507-■■■■■-■■■■**				3 486.–	3 509.–	3 537.–	3 649.–	**C**
K148-A	**2KJ1508-■■■■■-■■■■**					4 796.–	4 824.–	4 936.–	**C**
K168-A	**2KJ1510-■■■■■-■■■■**							8 202.–	**C**
K188-A	**2KJ1511-■■■■■-■■■■**							11 358.–	**C**
Helical worm gearboxes C									
C38-A	**2KJ1601-■■■■■-■■■■**		603.–	636.–	638.–	661.–			**C**
C48-A	**2KJ1602-■■■■■-■■■■**		669.–	702.–	704.–	727.–			**C**
C68-A	**2KJ1603-■■■■■-■■■■**		856.–	889.–	891.–	914.–	942.–		**C**
C88-A	**2KJ1604-■■■■■-■■■■**		1 220.–	1 253.–	1 255.–	1 278.–	1 306.–	1 418.–	**C**

Input unit A (continued)

IEC input unit size		160	180	200	225	250	280	315	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		J	K	L	M	N	P	Q	
Parallel shaft gearboxes FD									
FD38B-A	**2KJ1401-■■■■■-■■■■**								**–**
FD48B-A	**2KJ1402-■■■■■-■■■■**								**–**
FD68B-A	**2KJ1403-■■■■■-■■■■**								**–**
FD88B-A	**2KJ1404-■■■■■-■■■■**								**–**
FD108B-A	**2KJ1405-■■■■■-■■■■**	2 376.–							**C**
FD128B-A	**2KJ1406-■■■■■-■■■■**	3 571.–		3 836.–					**C**
FD148B-A	**2KJ1407-■■■■■-■■■■**	4 982.–		5 247.–	5 590.–				**C**
FD168B-A	**2KJ1408-■■■■■-■■■■**	6 221.–		6 486.–	6 829.–	6 931.–			**C**
FD188B-A	**2KJ1410-■■■■■-■■■■**	9 505.–		9 770.–	10 113.–	10 215.–	10 638.–		**C**
Bevel helical gearboxes B									
B38-A	**2KJ1501-■■■■■-■■■■**								**–**
Bevel helical gearboxes K									
K38-A	**2KJ1502-■■■■■-■■■■**								**–**
K48-A	**2KJ1503-■■■■■-■■■■**								**–**
K68-A	**2KJ1504-■■■■■-■■■■**								**–**
K88-A	**2KJ1505-■■■■■-■■■■**								**–**
K108-A	**2KJ1506-■■■■■-■■■■**	2 457.–							**C**
K128-A	**2KJ1507-■■■■■-■■■■**	3 786.–		4 051.–					**C**
K148-A	**2KJ1508-■■■■■-■■■■**	5 073.–		5 338.–	5 681.–				**C**
K168-A	**2KJ1510-■■■■■-■■■■**	8 339.–		8 604.–	8 947.–	9 049.–	9 472.–		**C**
K188-A	**2KJ1511-■■■■■-■■■■**	11 495.–		11 760.–	12 103.–	12 205.–	12 628.–		**C**
Helical worm gearboxes C									
C38-A	**2KJ1601-■■■■■-■■■■**								**–**
C48-A	**2KJ1602-■■■■■-■■■■**								**–**
C68-A	**2KJ1603-■■■■■-■■■■**								**–**
C88-A	**2KJ1604-■■■■■-■■■■**								**–**

Selection and ordering data

Input unit P

Order code: **A09**

IEC input unit size		63	71	80	90	100	112	132	
Gearbox size	**Order number gearbox**	**Order No. 9th position**							**DTC**
		B	**C**	**D**	**E**	**F**	**G**	**H**	
Helical gearboxes E									
E38-P	**2KJ1001-■■■■■-■■■■**			597.–	601.–	637.–			**C**
E48-P	**2KJ1002-■■■■■-■■■■**			634.–	638.–	674.–	701.–		**C**
E68-P	**2KJ1003-■■■■■-■■■■**			806.–	810.–	846.–	873.–	1 283.–	**C**
E88-P	**2KJ1004-■■■■■-■■■■**				921.–	957.–	984.–	1 394.–	**C**
E108-P	**2KJ1005-■■■■■-■■■■**				1 280.–	1 316.–	1 343.–	1 753.–	**C**
E128-P	**2KJ1006-■■■■■-■■■■**					1 603.–	1 630.–	2 040.–	**C**
E148-P	**2KJ1007-■■■■■-■■■■**							2 866.–	**C**
Helical gearboxes Z									
Z38-P	**2KJ1102-■■■■■-■■■■**			634.–	638.–	674.–			**C**
Z48-P	**2KJ1103-■■■■■-■■■■**			686.–	690.–	726.–	753.–		**C**
Z68-P	**2KJ1104-■■■■■-■■■■**			966.–	970.–	1 006.–	1 033.–	1 443.–	**C**
Z88-P	**2KJ1105-■■■■■-■■■■**				1 277.–	1 313.–	1 340.–	1 750.–	**C**
Z108-P	**2KJ1106-■■■■■-■■■■**				1 869.–	1 905.–	1 932.–	2 342.–	**C**
Z128-P	**2KJ1107-■■■■■-■■■■**					2 695.–	2 722.–	3 132.–	**C**
Z148-P	**2KJ1108-■■■■■-■■■■**							4 753.–	**C**
Z168-P	**2KJ1110-■■■■■-■■■■**							5 920.–	**C**
Helical gearboxes D									
D38-P	**2KJ1202-■■■■■-■■■■**			665.–	669.–				**C**
D48-P	**2KJ1203-■■■■■-■■■■**			758.–	762.–	798.–			**C**
D68-P	**2KJ1204-■■■■■-■■■■**			1 147.–	1 151.–	1 187.–			**C**
D88-P	**2KJ1205-■■■■■-■■■■**			1 548.–	1 552.–	1 588.–	1 615.–	2 025.–	**C**
D108-P	**2KJ1206-■■■■■-■■■■**			2 065.–	2 069.–	2 105.–	2 132.–	2 542.–	**C**
D128-P	**2KJ1207-■■■■■-■■■■**				2 993.–	3 029.–	3 056.–	3 466.–	**C**
D148-P	**2KJ1208-■■■■■-■■■■**					4 869.–	4 896.–	5 306.–	**C**
D168-P	**2KJ1210-■■■■■-■■■■**							7 057.–	**C**
D188-P	**2KJ1211-■■■■■-■■■■**							9 831.–	**C**
Parallel shaft gearboxes FZ									
FZ38B-P	**2KJ1301-■■■■■-■■■■**			856.–	860.–	896.–			**C**
FZ48B-P	**2KJ1302-■■■■■-■■■■**			929.–	933.–	969.–			**C**
FZ68B-P	**2KJ1303-■■■■■-■■■■**			1 174.–	1 178.–	1 214.–	1 241.–		**C**
FZ88B-P	**2KJ1304-■■■■■-■■■■**			1 486.–	1 490.–	1 526.–	1 553.–	1 963.–	**C**
FZ108B-P	**2KJ1305-■■■■■-■■■■**					2 016.–	2 043.–	2 453.–	**C**
FZ128B-P	**2KJ1306-■■■■■-■■■■**						3 086.–	3 496.–	**C**
FZ148B-P	**2KJ1307-■■■■■-■■■■**							5 141.–	**C**
FZ168B-P	**2KJ1308-■■■■■-■■■■**							6 273.–	**C**
FZ188B-P	**2KJ1310-■■■■■-■■■■**								**–**

Input unit P (continued)

IEC input unit size		160	180	200	225	250	280	315	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		J	K	L	M	N	P	Q	
Helical gearboxes E									
E38-P	**2KJ1001-■■■■■-■■■■**								–
E48-P	**2KJ1002-■■■■■-■■■■**								–
E68-P	**2KJ1003-■■■■■-■■■■**								–
E88-P	**2KJ1004-■■■■■-■■■■**	1 528.–							C
E108-P	**2KJ1005-■■■■■-■■■■**	1 887.–	2 212.–	2 520.–					C
E128-P	**2KJ1006-■■■■■-■■■■**	2 174.–	2 499.–	2 807.–	3 113.–				C
E148-P	**2KJ1007-■■■■■-■■■■**	3 000.–	3 325.–	3 633.–	3 939.–	4 040.–	4 941.–		C
Helical gearboxes Z									
Z38-P	**2KJ1102-■■■■■-■■■■**								–
Z48-P	**2KJ1103-■■■■■-■■■■**								–
Z68-P	**2KJ1104-■■■■■-■■■■**								–
Z88-P	**2KJ1105-■■■■■-■■■■**	1 884.–							C
Z108-P	**2KJ1106-■■■■■-■■■■**	2 476.–	2 801.–	3 109.–					C
Z128-P	**2KJ1107-■■■■■-■■■■**	3 266.–	3 591.–	3 899.–	4 205.–				C
Z148-P	**2KJ1108-■■■■■-■■■■**	4 887.–	5 212.–	5 520.–	5 826.–	5 927.–	6 828.–		C
Z168-P	**2KJ1110-■■■■■-■■■■**	6 054.–	6 379.–	6 687.–	6 993.–	7 094.–	7 995.–		C
Z188-P	**2KJ1111-■■■■■-■■■■**	8 777.–	9 102.–	9 410.–	9 716.–	9 817.–	10 718.–		C
Helical gearboxes D									
D38-P	**2KJ1202-■■■■■-■■■■**								–
D48-P	**2KJ1203-■■■■■-■■■■**								–
D68-P	**2KJ1204-■■■■■-■■■■**								–
D88-P	**2KJ1205-■■■■■-■■■■**								–
D108-P	**2KJ1206-■■■■■-■■■■**	2 676.–							C
D128-P	**2KJ1207-■■■■■-■■■■**	3 600.–	3 925.–	4 233.–					C
D148-P	**2KJ1208-■■■■■-■■■■**	5 440.–	5 765.–	6 073.–	6 379.–				C
D168-P	**2KJ1210-■■■■■-■■■■**	7 191.–	7 516.–	7 824.–	8 130.–				C
D188-P	**2KJ1211-■■■■■-■■■■**	9 965.–	10 290.–	10 598.–	10 904.–	11 005.–	11 906.–		C
Parallel shaft gearboxes FZ									
FZ38B-P	**2KJ1301-■■■■■-■■■■**								–
FZ48B-P	**2KJ1302-■■■■■-■■■■**								–
FZ68B-P	**2KJ1303-■■■■■-■■■■**								–
FZ88B-P	**2KJ1304-■■■■■-■■■■**								–
FZ108B-P	**2KJ1305-■■■■■-■■■■**	2 587.–							C
FZ128B-P	**2KJ1306-■■■■■-■■■■**	3 630.–	3 955.–	4 263.–					C
FZ148B-P	**2KJ1307-■■■■■-■■■■**	5 275.–	5 600.–	5 908.–	6 214.–				C
FZ168B-P	**2KJ1308-■■■■■-■■■■**	6 407.–	6 732.–	7 040.–	7 346.–	7 447.–	8 348.–		C
FZ188B-P	**2KJ1310-■■■■■-■■■■**	8 486.–	8 811.–	9 119.–	9 425.–	9 526.–	10 427.–		C

Selection and ordering data

Input unit P (continued)

IEC input unit size		63	71	80	90	100	112	132	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		B	C	D	E	F	G	H	
Parallel shaft gearboxes FD									
FD38B-P	**2KJ1401-■■■■■-■■■■**			904.–	908.–				**C**
FD48B-P	**2KJ1402-■■■■■-■■■■**			985.–	989.–	1 025.–			**C**
FD68B-P	**2KJ1403-■■■■■-■■■■**			1 242.–	1 246.–	1 282.–			**C**
FD88B-P	**2KJ1404-■■■■■-■■■■**			1 702.–	1 706.–	1 742.–	1 769.–	2 179.–	**C**
FD108B-P	**2KJ1405-■■■■■-■■■■**			2 283.–	2 287.–	2 323.–	2 350.–	2 760.–	**C**
FD128B-P	**2KJ1406-■■■■■-■■■■**				3 482.–	3 518.–	3 545.–	3 955.–	**C**
FD148B-P	**2KJ1407-■■■■■-■■■■**					4 929.–	4 956.–	5 366.–	**C**
FD168B-P	**2KJ1408-■■■■■-■■■■**							6 605.–	**C**
FD188B-P	**2KJ1410-■■■■■-■■■■**							9 889.–	**C**
Bevel helical gearboxes B									
B38-P	**2KJ1501-■■■■■-■■■■**			1 004.–	1 008.–	1 044.–			**C**
Bevel helical gearboxes K									
K38-P	**2KJ1502-■■■■■-■■■■**			1 180.–	1 184.–	1 220.–			**C**
K48-P	**2KJ1503-■■■■■-■■■■**			1 303.–	1 307.–	1 343.–			**C**
K68-P	**2KJ1504-■■■■■-■■■■**			1 580.–	1 584.–	1 620.–	1 647.–		**C**
K88-P	**2KJ1505-■■■■■-■■■■**			1 876.–	1 880.–	1 916.–	1 943.–	2 353.–	**C**
K108-P	**2KJ1506-■■■■■-■■■■**			2 364.–	2 368.–	2 404.–	2 431.–	2 841.–	**C**
K128-P	**2KJ1507-■■■■■-■■■■**				3 697.–	3 733.–	3 760.–	4 170.–	**C**
K148-P	**2KJ1508-■■■■■-■■■■**					5 020.–	5 047.–	5 457.–	**C**
K168-P	**2KJ1510-■■■■■-■■■■**							8 723.–	**C**
K188-P	**2KJ1511-■■■■■-■■■■**							11 879.–	**C**
Helical worm gearboxes C									
C38-P	**2KJ1601-■■■■■-■■■■**			845.–	849.–	885.–			**C**
C48-P	**2KJ1602-■■■■■-■■■■**			911.–	915.–	951.–			**C**
C68-P	**2KJ1603-■■■■■-■■■■**			1 098.–	1 102.–	1 138.–	1 165.–		**C**
C88-P	**2KJ1604-■■■■■-■■■■**			1 462.–	1 466.–	1 502.–	1 529.–	1 939.–	**C**

Input unit P (continued)

IEC input unit size		160	180	200	225	250	280	315	
Gearbox size	Order number gearbox	Order No. 9th position							DTC
		J	K	L	M	N	P	Q	
Parallel shaft gearboxes FD									
FD38B-P	**2KJ1401-■■■■■-■■■■**								**–**
FD48B-P	**2KJ1402-■■■■■-■■■■**								**–**
FD68B-P	**2KJ1403-■■■■■-■■■■**								**–**
FD88B-P	**2KJ1404-■■■■■-■■■■**								**–**
FD108B-P	**2KJ1405-■■■■■-■■■■**	2 894.–							**C**
FD128B-P	**2KJ1406-■■■■■-■■■■**	4 089.–	4 414.–	4 722.–					**C**
FD148B-P	**2KJ1407-■■■■■-■■■■**	5 500.–	5 825.–	6 133.–	6 439.–				**C**
FD168B-P	**2KJ1408-■■■■■-■■■■**	6 739.–	7 064.–	7 372.–	7 678.–	7 779.–			**C**
FD188B-P	**2KJ1410-■■■■■-■■■■**	10 023.–	10 348.–	10 656.–	10 962.–	11 063.–	11 964.–		**C**
Bevel helical gearboxes B									
B38-P	**2KJ1501-■■■■■-■■■■**								**–**
Bevel helical gearboxes K									
K38-P	**2KJ1502-■■■■■-■■■■**								**–**
K48-P	**2KJ1503-■■■■■-■■■■**								**–**
K68-P	**2KJ1504-■■■■■-■■■■**								**–**
K88-P	**2KJ1505-■■■■■-■■■■**								**–**
K108-P	**2KJ1506-■■■■■-■■■■**	2 975.–							**C**
K128-P	**2KJ1507-■■■■■-■■■■**	4 304.–	4 629.–	4 937.–					**C**
K148-P	**2KJ1508-■■■■■-■■■■**	5 591.–	5 916.–	6 224.–	6 530.–				**C**
K168-P	**2KJ1510-■■■■■-■■■■**	8 857.–	9 182.–	9 490.–	9 796.–	9 897.–	10 798.–		**C**
K188-P	**2KJ1511-■■■■■-■■■■**	12 013.–	12 338.–	12 646.–	12 952.–	13 053.–	13 954.–		**C**
Helical worm gearboxes C									
C38-P	**2KJ1601-■■■■■-■■■■**								**–**
C48-P	**2KJ1602-■■■■■-■■■■**								**–**
C68-P	**2KJ1603-■■■■■-■■■■**								**–**
C88-P	**2KJ1604-■■■■■-■■■■**								**–**

Special designs

Input unit K2

Motor size		63	71	80	90	100	112	132	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Flexible coupling	**A16**			✓	✓	✓	✓	✓	**A**
Backstop (K2X)	**A15**			746.–	746.–	912.–	860.–	993.–	**C**
Friction clutch	**A17**			860.–	969.–	1 148.–	1 163.–	1 287.–	**C**
Proximity switch	**A18**			121.–	121.–	121.–	121.–	121.–	**C**
Speed monitor	**A19**			447.–	447.–	447.–	447.–	447.–	**C**
Standard seal	**–**			✓	✓	✓	✓	✓	**A**
Design according to ATEX	**–**			❒	❒	❒	❒	❒	**C**

Motor size		160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Flexible coupling	**A16**	✓	✓	✓	✓	✓		✓	**A**
Backstop (K2X)	**A15**	1 115.–	1 115.–	1 337.–	1 337.–	1 337.–			**C**
Friction clutch	**A17**	1 312.–	1 312.–	2 297.–	2 297.–	2 379.–			**C**
Proximity switch	**A18**	121.–	121.–	121.–	329.–	329.–			**C**
Speed monitor	**A19**	447.–	447.–	447.–	447.–	447.–			**C**
Standard seal	**–**	✓	✓	✓	✓	✓		✓	**A**
Design according to ATEX	**–**	❒	❒	❒	❒	❒		❒	**C**

Input unit K4

IEC motor size		63	71	80	90	100	112	132	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Standard seal	**–**	✓	✓	✓	✓	✓	✓	✓	**A**
Design according to ATEX	**–**	❒	❒	❒	❒	❒	❒	❒	**A**

IEC motor size		160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Standard seal	**–**	✓	✓	✓	✓	✓	✓		**A**
Design according to ATEX	**–**	❒	❒	❒	❒	❒	❒		**A**

Input unit KQ and KQS

Motor size		63	71	80	90	100	112	132	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Standard seal	–		✓	✓	✓		✓	✓	**A**

Input unit A

Motor size		63	71	80	90	100	112	132	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Backstop (AX)	**A15**		466.–	471.–	551.–	636.–	746.–	912.–	**C**
Standard seal	**–**		✓	✓	✓	✓	✓	✓	**A**
Design according to ATEX	**–**		❒	❒	❒	❒	❒	❒	**A**

Motor size		160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Backstop (AX)	**A15**	993.–		1 017.–	1 115.–	1 337.–	1 337.–		**C**
Standard seal	**–**	✓		✓	✓	✓	✓		**A**
Design according to ATEX	**–**	❒		❒	❒	❒	❒		**A**

Input unit P

Motor size		63	71	80	90	100	112	132	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Backstop (PX)	**A15**			471.–	551.–	636.–	746.–	912.–	**C**
Piggy back position 3h, 9h, 12h	**A22, A23, A24**			❒	❒	❒	❒	❒	**A**
Standard seal	**–**			✓	✓	✓	✓	✓	**A**
Protective belt cover (PS)	**–**			❒	❒	❒	❒	❒	**A**

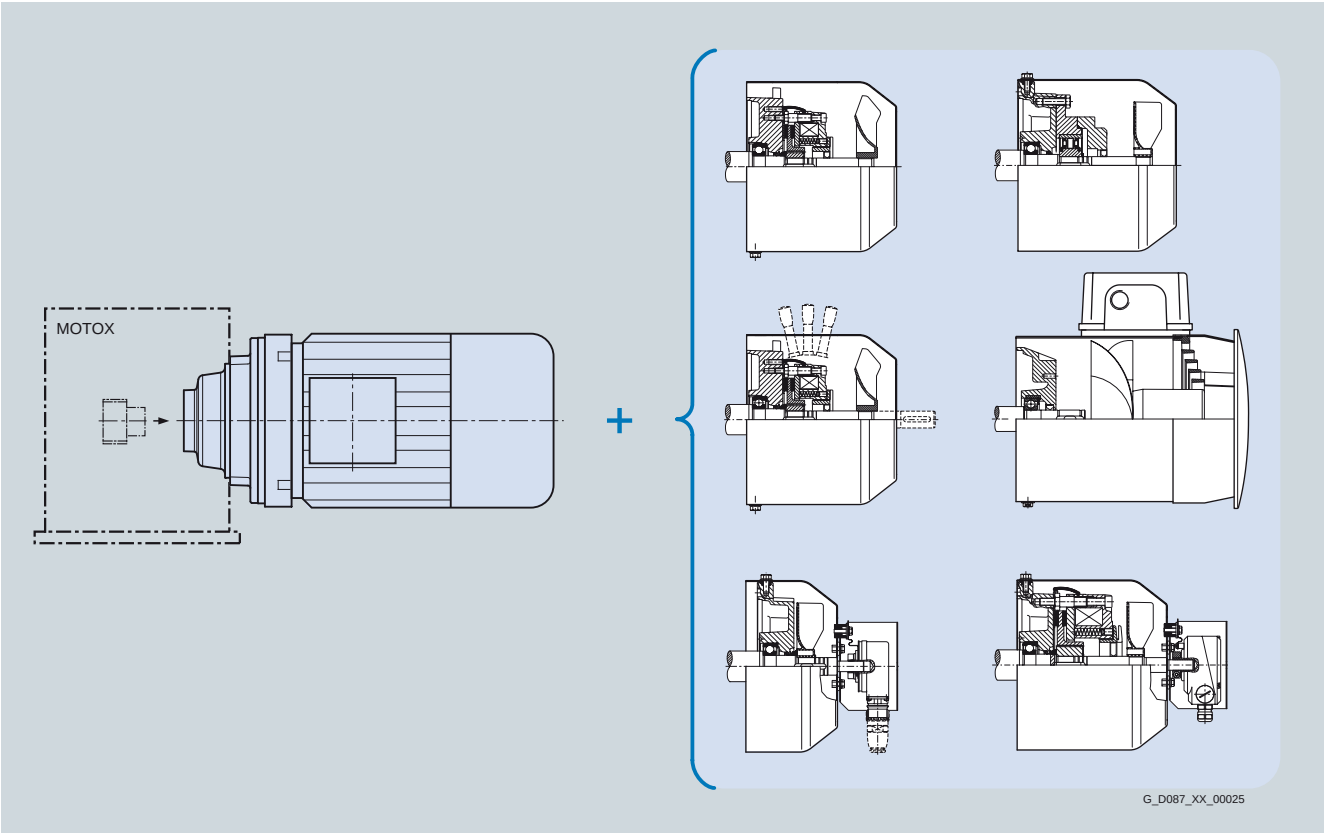
Motor size		160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**							**DTC**
Backstop (PX)	**A15**	993.–	1 017.–	1 017.–	1 115.–	1 337.–	1337.–		**C**
Piggy back position 3h, 9h, 12h	**A22, A23, A24**	❒	❒	❒	❒	❒	❒		**A**
Standard seal	**–**	✓	✓	✓	✓	✓	✓		**A**
Protective belt cover (PS)	**–**	❒	❒	❒	❒	❒	❒		**A**

Notes

Orientation

Overview

The MODULOG modular principle



The MODULOG modular principle has a range of benefits for machine and plant designers.
The name MODULOG stands for a clear and transparent **modu**lar, **log**istically optimized motor system, that enables users to assemble powerful, durable, and extremely easy-to-service motors in line with their own requirements for most applications, from just a few standard components.

At the heart of this modular system is the basic motor, which is designed to comply with international line supply conditions, and a built-on shaft system, which can be individually configured, at the non-drive end.

Functional expansions, such as brakes, backstops, rotary encoders, forced ventilation, canopy, a second motor shaft extension, etc. can be combined almost at will as "additional functional components".

Motor type designation

Motors are designated as follows:

Example: **LA 100L 4/2 F - L16NH**

- Motor type
- Size
- No. of poles
- Special features
- Mounted unit

Motor type

LA, LG Three-phase AC motors, built-in
LAI, LGI Three-phase AC motors, with IEC flange

Special features

F	Forced ventilation
I	High inertia fan
W	Canopy
IN	Incremental encoder
IR	Resolver
IA	Absolute encoder

Mounted unit

L, KFB	Spring-operated single-disk brake, DC excited
16	Size = nominal braking torque
16/..	Adjusted braking torque
N	Standard design
G	Enclosed design
H	Manual release
HA	Manual release with locking mechanism
M	Microswitch

Selection and ordering data

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Degrees of protection															
IP55	**K01**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
IP65	**K03**	34.–	34.–	41.–	41.–	59.–	59.–	67.–	78.–	78.–	78.–	78.–	88.–	114.–	**C**
IP56 [1]	**–**	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Canopy															
Canopy	**N22**	21.–	24.–	35.–	35.–	42.–	49.–	60.–	109.–	118.–	157.–	199.–	199.–	266.–	**A**
Self ventilation															
Standard fan		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
Metal fan	**M21**	37.–	37.–	41.–	41.–	56.–	83.–	118.–	129.–	250.–	•	•	•	•	**F**
High inertia fan	**M22**	45.–	45.–	54.–	54.–	86.–	135.–								**C**
Forced ventilation															
Forced ventilation	**M23**	367.–	367.–	384.–	384.–	414.–	414.–								**A**
								727.–	893.–	1 045.–					**B**
											1 045.–	1 127.–	1 127.–	1 239.–	**E**
Motor plugs															
ECOFAST HAN 10E (single-shackle fastener)	**N04**	58.–	58.–	58.–	71.–	71.–	71.–								**C**
ECOFAST HAN 10E with counterplug (single-shackle fastener)	**N05**	100.–	100.–	100.–	121.–	121.–	121.–								**C**
ECOFAST HAN 10E, EMC design (single-shackle fastener)	**N06**	90.–	90.–	90.–	98.–	98.–	98.–								**C**
ECOFAST HAN 10E with counterplug, EMC design (single-shackle fastener)	**N07**	154.–	154.–	154.–	165.–	165.–	165.–								**C**
HAN 10E motor plug with customized connection assignment	**–**	•	•	•	•	•	•								•

1) Not brake motors

8

Electrical design

Number of poles

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Number of poles	**Order code**	**Additional cost in EUR** [1]													**DTC**
Number of poles, single-speed															
4-pole	–	✓	✓	✓	✓	✓	✓								**A**
								✓	✓	✓					**B**
											✓	✓	✓		**C**
														✓	**E**
2-pole	**P00**	25.–	34.–	39.–	50.–	65.–	82.–	105.–	122.–	152.–					**C**
6-pole	**P01**	34.–	45.–	50.–	65.–	82.–	100.–	134.–	182.–	242.–					**C**
											360.–	480.–	717.–	1 194.–	**W**
8-pole	**P02**	39.–	56.–	82.–	93.–	122.–	170.–	228.–	302.–	360.–					**C**
											538.–	897.–	1 194.–	1 788.–	**W**
Number of poles, multi-speed															
8/4-pole fan power	**P08**					134.–	176.–	324.–	416.–	474.–					**C**
											841.–	1 206.–	1 791.–		**W**

1) Additional cost for 4-pole basic motor with the same letters in order number positions 9 and 10

Motor protection

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
PTC thermistor for disconnection	**M10**	82.–	82.–	82.–	93.–	93.–	93.–	105.–	105.–	105.–	105.–	164.–	164.–	164.–	**A**
PTC thermistor for warning and disconnection	**M11**	87.–	87.–	87.–	99.–	99.–	99.–	110.–	110.–	110.–	110.–	170.–	170.–	170.–	**E**
Winding thermostat for disconnection (WT)	**M12**	82.–	82.–	82.–	93.–	93.–	93.–	105.–	105.–	105.–	105.–	164.–	164.–	164.–	**B**
Winding thermostat for warning and disconnection (WT)	**M13**	87.–	87.–	87.–	99.–	99.–	99.–	110.–	110.–	110.–	•	•	•	•	**E**
Temperature sensor KTY 84-130	**M16**	82.–	82.–	82.–	93.–	93.–	93.–	105.–	105.–	105.–	105.–	164.–	164.–	164.–	**E**

Anti-condensation heating

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Supply voltage 230 V (1 AC)	**M41**	100.–	100.–	114.–	114.–	170.–	170.–	242.–	271.–	297.–	385.–	422.–	480.–	538.–	**E**
Supply voltage 115 V (1 AC)	**M40**	100.–	100.–	114.–	114.–	170.–	170.–	242.–	271.–	297.–	385.–	422.–	480.–	538.–	**E**

Voltages, frequency and output

Possible voltages for motors with one pole number

Voltages	Connection Operation	Frequency	Output	Order number 13th position	Order number suffix	Motor size												
						71	80	90	100	112	132	160	180	200	225	250	280	315
Standard voltages for motors to CE/IEC standards																		
220-240V / 380-420V	Δ / Y	50 Hz	P_{50}	**1**		✓	✓	✓	✓	✓								
380-420V / 660-725V	Δ / Y	50 Hz	P_{50}	**1**							✓	✓	✓	✓				
220-240V / 380-420V	Δ / Y	50 Hz	P_{50}	**2**		✓	✓	✓	✓	✓								
440-480V	Y	60 Hz	1.2 x P_{50}															
380-420V / 660-725V	Δ / Y	50 Hz	P_{50}	**2**							✓	✓	✓	✓	✓	✓	✓	✓
440-480V	Δ	60 Hz	1.2 x P_{50}															
Special voltages for motors to CE/IEC standards																		
220-240V / 380-420V	Δ / Y	50 Hz	P_{50}	**9**	**N1A**						99.–	125.–	160.–	212.–	268.–	314.–	314.–	314.–
380-420V / 660-725V	Δ / Y	50 Hz	P_{50}	**9**	**N1B**	40.–	45.–	54.–	59.–	71.–								
220-240V / 380-420V	Δ / Y	50 Hz	P_{50}	**9**	**N2A**						99.–	125.–	160.–	212.–	268.–	314.–	314.–	314.–
440-480V	Y	60 Hz	1.2 x P_{50}															
380-420V / 660-725V	Δ / Y	50 Hz	P_{50}	**9**	**N2B**	40.–	45.–	54.–	59.–	71.–								
440-480V	Δ	60 Hz	1.2 x P_{50}															
500V	Y	50 Hz	P_{50}	**9**	**N1C**	❒	❒	❒	❒									
500V	Δ	50 Hz	P_{50}	**9**	**N1D**					❒	❒	❒	❒	❒	❒	❒	❒	❒
Voltages for motors to NEMA standards																		
440-480V	Y	60 Hz	1.2 x P_{50}	**9**	**N5C**	❒	❒	❒	❒	❒								
440-480V	Δ	60 Hz	1.2 x P_{50}	**9**	**N5D**						❒	❒	❒	❒	❒	❒	❒	❒
Voltages for motors to UL-R standards																		
230V / 460V	YY / Y	60 Hz	P_{50}		–	•	•	•	•	•	•	•						
460V	Δ	60 Hz	P_{50}		–								•	•	•	•	•	
Voltages for motors to CSA standards																		
575V	Y	60 Hz	P_{50}		–	•	•	•	•	•	•							
575V	Δ	60 Hz	P_{50}		–							•	•	•	•	•	•	
Voltages for motors to CSA/UL-R standards																		
230V / 460V	YY / Y	60 Hz	P_{50}		–	•	•	•	•	•	•	•						
460V	Δ	60 Hz	P_{50}		–								•	•	•	•	•	
575V	Y	60 Hz	P_{50}		–	•	•	•	•	•	•							
575V	Δ	60 Hz	P_{50}		–							•	•	•	•	•	•	
Additional voltages for 60 Hz																		
220-240V / 380-420V	Δ / Y	60 Hz	P_{50}	**9**	**N4A**	❒	❒	❒	❒	❒								
380-420V / 660-725V	Δ / Y	60 Hz	P_{50}	**9**	**N4B**						❒	❒	❒	❒	❒	❒	❒	❒

1) Frequency limit
Other voltages are available on request.

Electrical design

Voltages, frequency and output (continued)

Possible voltages for motors with one pole number

Voltages	Connection Operation	Frequency	Output	Order number 13th position	Order number suffix	Motor size												
						71	80	90	100	112	132	160	180	200	225	250	280	315
Voltages for inverter-fed operation																		
400V	Y	50 Hz [1]	P_{50}	**9**	**N6B**	❒	❒	❒	❒	❒								
400V	Δ	50 Hz [1]	P_{50}	**9**	**N6C**						❒	❒	❒	❒	❒	❒	❒	❒
400V	Δ	87 Hz [1]	P_{87}	**9**	**N6A**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒		
230V	Δ	50 Hz [1]	P_{50}	**9**	**N6A**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒		

1) Frequency limit
Other voltages are available on request.

Possible voltages for motors with two pole numbers

Voltages	Connection Operation	Frequency	Output	Order number 13th position	Order number suffix	Motor size												
						71	80	90	100	112	132	160	180	200	225	250	280	315
Voltages for motors with 2 pole numbers																		
380-420V	Y/YY	50 Hz	P_{50}	**4**						✓	✓	✓	✓	✓	✓	✓	✓	

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Brakes

Motor size		71	80	90	100	112	132	160	180	200	
Brake type	**Order code**	**Additional cost in EUR**									**DTC**
Brakes for motors up to size 200											
L4.	**B00, B01, B02, B03, B57**	182.–	182.–								**A**
L8.	**B04, B05, B06, B07, B08, B09**	190.–	200.–	207.–							**A**
L16.	**B10, B11, B12, B14**		240.–	247.–	260.–						**A**
L16/20	**B13**			247.–	260.–						**A**
L32.	**B15, B16, B17, B66**			349.–	360.–	366.–					**A**
L32/40	**B18**				360.–	366.–					**A**
L60.	**B20, B21, B67**				391.–	403.–					**A**
L60	**B19**					403.–					**A**
L80.	**B22, B23, B24, B25, B26, B27**						422.–				**A**
L150.	**B28, B29, B30, B31, B32**						610.–	656.–			**A**
L260.	**B33, B34, B35, B36, B37, B38**							876.–	939.–	1 022.–	**B**
L260/315	**B58**								939.–	1 022.–	**B**
L400.	**B39, B40, B41, B42**									1 259.–	**B**
L400/600	**B59**									1 259.–	**B**

Motor size		225	250	280	315S	315M	
Brake type	**Order code**	**Additional cost in EUR**					**DTC**
Brakes for motors of size 225 and larger							
L400.	**B39, B40, B41, B42, B59**	2 417.–					**E**
KFB63.	**B48, B49, B50**	5 800.–	5 800.–				**F**
KFB100.	**B52, B60, B61, B62**		6 331.–	9 003.–	9 003.–	9 003.–	**F**
KFB160.	**B54, B55, B56**					11 661.–	**F**

8

Additional components

Brake options

Function rectifier

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
DC-side disconnection															
Current sensing (SEGE) without spark suppressor	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Current sensing, with spark suppressor	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Voltage sensing, with spark suppressor	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•
High-speed rectifier															
High-speed rectifier with spark suppressor	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•
High-speed rectifier + DC-side disconnection															
Current sensing, with spark suppressor	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Voltage sensing, with spark suppressor	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Monitoring the brake

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Microswitch for release monitoring	**C04**			174.–	195.–	225.–	302.–	321.–	335.–	351.–	351.–	✓	✓	✓	**E**
Microswitch for wear monitoring	–			•	•	•	•	•	•	•	•				•

Manual brake release

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Manual release lever	**C02**	34.–	45.–	50.–	56.–	65.–	75.–	100.–	100.–	122.–	122.–				**A**
Manual release lever with locking mechanism	**C03**	65.–	65.–	90.–	100.–	110.–	127.–	147.–	195.–	195.–	195.–	✓	✓	✓	**B**
Manual release lever position															
Position 1	**C26**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
Position 2	**C27**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
Position 3	**C28**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
Position 4	**C29**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**

Anti-corrosion protection for brake

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Standard anti-corrosion protection	–	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
Basic anti-corrosion protection	**C09**	❒	❒	❒	❒	❒	❒	❒	208.–	272.–	272.–				**A**
Increased anti-corrosion protection	**C10**	84.–	95.–	110.–	123.–	162.–	233.–	311.–	311.–	395.–	395.–				**E**

Brake options (continued)

Enclosed brake

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Enclosed brake	**C01**	50.–	50.–	64.–	64.–	75.–	75.–	160.–	271.–	379.–	437.–				**A**
Enclosed brake with condensation drain hole	**C11**	54.–	54.–	70.–	70.–	83.–	83.–	176.–	298.–	418.–	484.–				**A**

Service life of the brake lining / Noise reduction

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Reduced-noise rotor-hub connection and low-wear friction lining	**C06**	46.–	51.–	58.–	63.–	71.–	77.–	91.–	91.–	104.–	104.–				**A**

Encoders

Motor size			71	80	90	100	112	132	160	180	200	225	250	280	315	
Design		**Order code**	**Additional cost in EUR**													**DTC**
Incremental encoder IN																
1XP8012-	10 11 20	**Q53** **Q54** **Q50**	462.–	462.–	476.–	476.–	509.–	509.–	525.–	541.–	556.–	•	•	•	•	**B**
	12 21 22	**Q55** **Q51** **Q52**														**F**
1XP8022-	10 11 20	**Q59** **Q60** **Q56**	462.–	462.–	476.–	476.–	509.–	509.–	525.–	541.–	556.–	•	•	•	•	**B**
	12 21 22	**Q61** **Q57** **Q58**														**F**
Absolute encoder IA																
1XP8014-	10	**Q82**	933.–	933.–	933.–	933.–	933.–	933.–	933.–	933.–	933.–	•	•	•	•	**E**
	20	**Q80**	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	•	•	•	•	**E**
1XP8024-	10	**Q83**	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	1 010.–	•	•	•	•	**E**
	20	**Q81**	1 089.–	1 089.–	1 089.–	1 089.–	1 089.–	1 089.–	1 089.–	1 089.–	1 089.–	•	•	•	•	**E**
Resolver IR																
1XP8013-	10 11	**Q85,Q87**	531.–	531.–	531.–	531.–	531.–	531.–	531.–	531.–	531.–	•	•	•	•	**E**
1XP8023-	10 11	**Q88,Q86**	608.–	608.–	608.–	608.–	608.–	608.–	608.–	608.–	608.–	•	•	•	•	**E**

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Encoder accessories

Designation	Free cable length	Order code	FDU No. (ordering as spare part)	Additional cost in EUR	DTC
Incremental encoder 1XP8012					
Connector		**Q62**	FDU: 55190000565002	42.–	**F**
Cable with wire end ferrules	2 m	**Q69**	FDU: 70000004013446	117.–	**F**
	8 m	**Q70**	FDU: 70000004013447	182.–	**F**
	15 m	**Q71**	FDU: 70000004013448	266.–	**F**
Cable with coupling socket	2 m	**Q72**	FDU: 70000004013449	155.–	**F**
	8 m	**Q73**	FDU: 70000004013450	225.–	**F**
	15 m	**Q74**	FDU: 70000004013451	308.–	**F**
Incremental encoder 1XP8022					
Cable with wire end ferrules	2 m	**Q63**	FDU: 70000004013418	47.–	**F**
	8 m	**Q64**	FDU: 70000004013419	117.–	**F**
	15 m	**Q65**	FDU: 70000004013420	200.–	**F**
Cable with coupling socket	2 m	**Q66**	FDU: 70000004013421	89.–	**F**
	8 m	**Q67**	FDU: 70000004013422	159.–	**F**
	15 m	**Q68**	FDU: 70000004013443	243.–	**F**
Resolvers 1XP8013 and 1XP8023					
Connector		**Q62**	FDU: 55190000565002	42.–	**F**
Cable with wire end ferrules	2 m	**Q69**	FDU: 70000004013576	117.–	**F**
	8 m	**Q70**	FDU: 70000004013577	182.–	**F**
	15 m	**Q71**	FDU: 70000004013578	266.–	**F**
Cable with coupling socket	2 m	**Q72**	FDU: 70000004013579	155.–	**F**
	8 m	**Q73**	FDU: 70000004013580	225.–	**F**
	15 m	**Q74**	FDU: 70000004013581	308.–	**F**
Absolute encoders 1XP8014 and 1XP8024					
Connector		**Q62**	FDU: 55190000565003	42.–	**F**
Cable with wire end ferrules	2 m	**Q69**	FDU: 70000004013454	117.–	**F**
	8 m	**Q70**	FDU: 70000004013455	182.–	**F**
	15 m	**Q71**	FDU: 70000004013456	266.–	**F**
Cable with coupling socket	2 m	**Q72**	FDU: 70000004013457	155.–	**F**
	8 m	**Q73**	FDU: 70000004013458	225.–	**F**
	15 m	**Q74**	FDU: 70000004013459	308.–	**F**

Backstop

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Backstop	**N23**	235.–	235.–	404.–	404.–	438.–	624.–	829.–	829.–	1 055.–					**B**
											1 055.–	1 764.–	2 313.–		**E**
														2 937.–	**F**

2nd shaft extension

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
2nd shaft extension [1]	**N39**	51.–	51.–	65.–	71.–	82.–	95.–	129.–	208.–	252.–	324.–	583.–	583.–	633.–	**C**

1) For integrated motor only

Special designs

Motors for converter-fed operation

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Increased insulation for converter operation up to 690 V	**M09**	42.–	50.–	77.–	171.–	208.–	326.–	532.–	653.–	749.–	1 244.–	1 391.–	•	•	**F**
Power outputs for converter-fed operation	**P71 or P91**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**–**

Design in accordance with standards and specifications

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
IEC/EN	**–**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**–**
NEMA (electrical)	**N65**	37.–	42.–	42.–	57.–	65.–	82.–	116.–	142.–	176.–	197.–	297.–	379.–	466.–	**E**
UL-R	**–**	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CSA	**–**	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CCCs	**N67**	65.–	65.–	65.–											**A**
GOST [2]	**N30**	61.–	61.–	61.–	61.–	61.–	61.–	61.–	61.–	61.–	61.–	61.–	61.–	61.–	**A**

2) Also suitable for gearboxes without motor

Motor options

Terminal box and motor connection

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Location and position of the terminal box	**M55 … M98**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	–
Terminal box material															
Aluminum	**M45**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				–
Cast iron	**M46**											✓	✓	✓	–

Designs for special environmental conditions

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Motor-internal anti-corrosion protection	**N41**	43.–	43.–	43.–	43.–	54.–	54.–	54.–	54.–	54.–	•	•	•	•	**A**
Protection of the winding against humidity and acid	**N42**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**–**

Miscellaneous

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Motor retrofittable on NDE	**N48**	✓	✓	✓	✓	✓	✓	✓	✓	✓					–

4-pole, 1500 rpm at 50 Hz

IEC motor Size	Motor LAI/LGI (IEC MODULOG)	Rated power P_N kW	Order number 9. position	Order number 10. position	Order code Number of poles	Price EUR	DTC Motor/number of poles
71	LAI71B4	0.12	C	B	–	154.–	A
	LAI71C4	0.18	C	C	–	156.–	A
	LAI71S4	0.25	C	D	–	161.–	A
	LAI71M4	0.37	C	E	–	169.–	A
80	LAI80S4	0.55	D	B	–	196.–	A
	LAI80M4	0.75	D	C	–	199.–	A
90	LAI90S4	1.10	E	L	–	261.–	A
	LAI90L4	1.50	E	P	–	310.–	A
100	LAI100L4	2.20	F	L	–	361.–	A
	LAI100LB4	3.00	F	M	–	404.–	A
112	LAI112MB4	4.00	G	H	–	529.–	A
132	LAI132SB4	5.50	H	F	–	649.–	A
	LAI132M4	7.50	H	H	–	1 091.–	A
	LAI132ZMP4	9.20	H	T	–	1 248.–	A
160	LAI160MB4	11.00	J	P	–	1 556.–	B
	LAI160L4	15.00	J	R	–	2 211.–	B
180	LGI180ZMB4E	18.50	K	L	–	2 575.–	B
	LGI180ZLB4E	22.00	K	P	–	3 093.–	B
200	LGI200LB4E	30.00	L	M	–	3 987.–	B
225	LGI225S4E	37.00	M	E	–	4 612.–	C
	LGI225ZM4E	45.00	M	U	–	5 022.–	C
250	LGI250ZM4E	55.00	N	N	–	7 038.–	C
280	LGI280S4E	75.00	P	G	–	9 197.–	C
	LGI280ZM4E	90.00	P	W	–	12 161.–	C
315	LGI315S4	110.00	Q	Q	–	16 270.–	E
	LGI315M4	132.00	Q	S	–	18 354.–	E
	LGI315L4	160.00	Q	U	–	20 341.–	E
	LGI315LB4	200.00	Q	V	–	23 606.–	E

MODULOG IEC motors with flange B5 for mounting on input units K2 and K4

2-pole, 3000 rpm at 50 Hz

IEC motor Size	Motor LAI/LGI (IEC MODULOG)	Rated power P_N kW	Order number 9. position	Order number 10. position	Order code Number of poles	Price EUR	DTC Motor/number of poles
71	LAI71B2	0.18	**C**	**B**	**P00**	179.–	**C**
	LAI71C2	0.25	**C**	**C**	**P00**	171.–	**C**
	LAI71S2	0.37	**C**	**D**	**P00**	186.–	**C**
	LAI71M2	0.55	**C**	**E**	**P00**	194.–	**C**
80	LAI80S2	0.75	**D**	**B**	**P00**	230.–	**C**
	LAI80M2	1.10	**D**	**L**	**P00**	233.–	**C**
90	LAI90S2	1.50	**E**	**L**	**P00**	300.–	**C**
	LAI90L2	2.20	**E**	**P**	**P00**	349.–	**C**
100	LAI100L2	3.00	**F**	**K**	**P00**	393.–	**C**
112	LAI112MB2	4.00	**G**	**H**	**P00**	594.–	**C**
132	LAI132S2	5.50	**H**	**E**	**P00**	698.–	**C**
	LAI132SB2	7.50	**H**	**F**	**P00**	731.–	**C**
160	LAI160M2	11.00	**J**	**N**	**P00**	1 583.–	**C**
	LAI160MB2	15.00	**J**	**P**	**P00**	1 661.–	**C**
	LAI160L2	18.50	**J**	**R**	**P00**	2 316.–	**C**
180	LGI180M2	22.00	**K**	**K**	**P00**	2 568.–	**C**
200	LGI200LA2	30.00	**L**	**K**	**P00**	3 750.–	**C**
	LGI200L2	37.00	**L**	**L**	**P00**	3 938.–	**C**

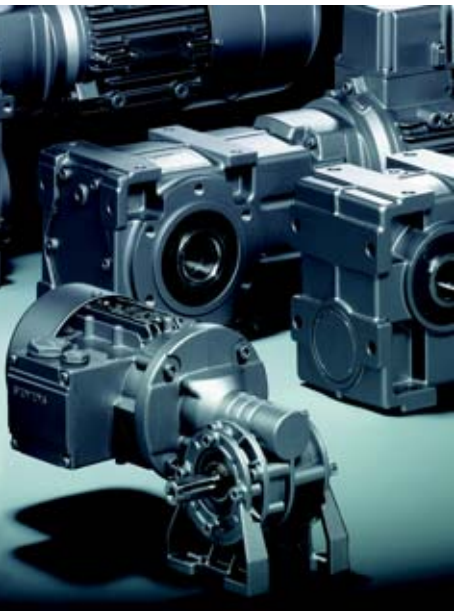
6-pole, 1000 rpm at 50 Hz

IEC motor Size	Motor LAI/LGI (IEC MODULOG)	Rated power P_N kW	Order number 9. position	Order number 10. position	Order code Number of poles	Price EUR	DTC Motor/number of poles
71	LAI71B6	0.09	**C**	**B**	**P01**	188.–	**C**
	LAI71C6	0.12	**C**	**C**	**P01**	190.–	**C**
	LAI71S6	0.18	**C**	**D**	**P01**	195.–	**C**
	LAI71M6	0.25	**C**	**E**	**P01**	203.–	**C**
80	LAI80S6	0.37	**D**	**B**	**P01**	241.–	**C**
	LAI80M6	0.55	**D**	**C**	**P01**	244.–	**C**
90	LAI90S6	0.75	**E**	**C**	**P01**	311.–	**C**
	LAI90L6	1.10	**E**	**P**	**P01**	360.–	**C**
100	LAI100L6	1.50	**F**	**L**	**P01**	426.–	**C**
112	LAI112M6	2.20	**G**	**G**	**P01**	584.–	**C**
132	LAI132S6	3.00	**H**	**E**	**P01**	716.–	**C**
	LAI132MA6	4.00	**H**	**G**	**P01**	781.–	**C**
	LAI132MB6	5.50	**H**	**J**	**P01**	1 245.–	**C**
160	LAI160MB6	7.50	**J**	**F**	**P01**	1 690.–	**C**
	LAI160LB6	11.00	**J**	**S**	**P01**	2 455.–	**C**
180	LGI180LA6	15.00	**K**	**M**	**P01**	2 988.–	**C**
200	LGI200LA6	18.50	**L**	**K**	**P01**	3 840.–	**C**
	LGI200L6	22.00	**L**	**L**	**P01**	4 028.–	**C**
225	LGI225M6	30.00	**M**	**J**	**P01**	5 255.–	**W**
250	LGI250M6	37.00	**N**	**C**	**P01**	7 115.–	**W**
280	LGI280S6 [2)]	45.00	**P**	**G**	**P01**	9 914.–	**W**
	LGI280M6 [2)]	55.00	**P**	**L**	**P01**	11 895.–	**W**
315	LGI315S6 [2)]	75.00	**Q**	**G**	**P01**	17 464.–	**W**
	LGI315M6 [2)]	90.00	**Q**	**R**	**P01**	18 439.–	**W**
	LGI315L6 [2)]	110.00	**Q**	**U**	**P01**	21 535.–	**W**
	LGI315LB6 [2)]	132.00	**Q**	**V**	**P01**	24 800.–	**W**
	LGI315ZLP6 [2)]	160.00	**Q**	**X**	**P01**	27 220.–	**W**

MODULOG IEC motors with flange B5 for mounting on input units K2 and K4

8-pole, 750 rpm at 50 Hz

IEC motor Size	Motor LAI/LGI (IEC MODULOG)	Rated power P_N kW	Order number 9. position	Order number 10. position	Order code Number of poles	Price EUR	DTC Motor/number of poles
71	LAI71M8	0.09	**C**	**E**	**P02**	208.–	**C**
	LAI71MB8	0.12	**C**	**F**	**P02**	215.–	**C**
80	LAI80S8	0.18	**D**	**B**	**P02**	252.–	**C**
	LAI80M8	0.25	**D**	**C**	**P02**	255.–	**C**
90	LAI90SA8	0.37	**E**	**B**	**P02**	330.–	**C**
	LAI90LA8	0.55	**E**	**E**	**P02**	369.–	**C**
100	LAI100LA8	0.75	**F**	**B**	**P02**	436.–	**C**
	LAI100L8	1.10	**F**	**L**	**P02**	454.–	**C**
112	LAI112M8	1.50	**G**	**G**	**P02**	624.–	**C**
132	LAI132S8	2.20	**H**	**E**	**P02**	786.–	**C**
	LAI132MA8	3.00	**H**	**G**	**P02**	851.–	**C**
160	LAI160M8	4.00	**J**	**E**	**P02**	1 706.–	**C**
	LAI160MB8	5.50	**J**	**F**	**P02**	1 784.–	**C**
	LAI160LB8	7.50	**J**	**J**	**P02**	2 549.–	**C**
180	LGI180LA8	11.00	**K**	**M**	**P02**	3 108.–	**C**
200	LGI200L8	15.00	**L**	**L**	**P02**	4 146.–	**C**
225	LGI225S8	18.50	**M**	**E**	**P02**	5 150.–	**W**
	LGI225M8	22.00	**M**	**J**	**P02**	5 433.–	**W**
250	LGI250M8	30.00	**N**	**C**	**P02**	7 532.–	**W**
280	LGI280S8	37.00	**P**	**B**	**P02**	10 391.–	**W**
	LGI280M8	45.00	**P**	**L**	**P02**	12 372.–	**W**
315	LGI315S8	55.00	**Q**	**G**	**P02**	18 058.–	**W**
	LGI315M8	75.00	**Q**	**J**	**P02**	20 142.–	**W**
	LGI315L8	90.00	**Q**	**U**	**P02**	22 129.–	**W**
	LGI315LB8	110.00	**Q**	**V**	**P02**	25 394.–	**W**
	LGI315LP8	132.00	**Q**	**W**	**P02**	26 574.–	**W**



Selection and ordering data

Long-term preservation

Gearbox size		18	28	38	48	68	88	108	128	148	168	188	
Designation	**Order code**	**Additional cost in EUR**											**DTC**
Long-term preservation up to 36 months	**K17**			53.–	53.–	53.–	106.–	159.–	265.–	318.–	•	•	**A**

Paint finish

Gearbox size		18	28	38	48	68	88	108	128	148	168	188	
		36	50	63									
Design	**Order code**	**Additional cost in EUR**											**DTC**
Standard paint finishes													
Acrylic paint	**L02**	21.–	21.–	✓	✓	✓	✓	✓	✓	✓	✓	✓	**A**
2-component polyurethane paint	**L03**	25.–	25.–	25.–	25.–	25.–	25.–	42.–	42.–	42.–	42.–	64.–	**B**
2-component epoxy paint	**L04**	70.–	70.–	70.–	70.–	70.–	70.–	81.–	81.–	81.–	81.–	121.–	**B**
Unpainted	**L00**	✓	✓	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
Primer	**L01**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**

RAL color

Gearbox size		18	28	38	48	68	88	108	128	148	168	188	
Color	**Order code**	**Additional cost in EUR**											**DTC**
RAL 5015 Sky Blue [1]	**L50**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
RAL 7011 Steel Gray	**L51**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
RAL 2004 Orange	**L52**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
RAL 7031 Blue Gray [2]	**L53**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
RAL 7035 Light Gray [3]	**L54**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
Special colors [4]	**Y80**	16.–	16.–	16.–	16.–	16.–	16.–	16.–	16.–	16.–	16.–	16.–	**A**

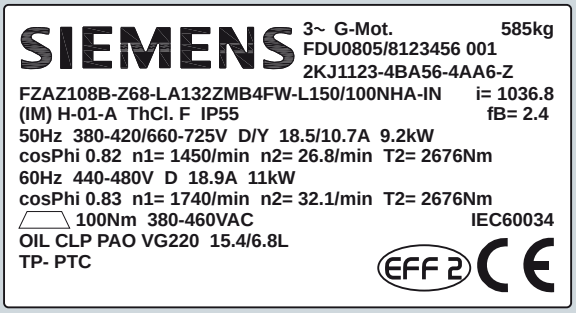
1) Standard for acrylic L02
2) Standard for 2-component polyurethane paint
3) Standard for 2-component epoxy paint
4) Format for the plain text color specification: Y80:*RAL@RAL No.*

The RAL colors and prices listed for gearbox sizes 18 and 28 apply analogously to worm gearboxes.

Rating plates

Motor size		71	80	90	100	112	132	160	180	200	225	250	280	315	
Design	**Order code**	**Additional cost in EUR**													**DTC**
Rating plate on stainless steel bracket	**K26**	29.–	29.–	29.–	29.–	29.–	29.–	29.–	29.–	29.–					**A**
2nd rating plate, loose	**K41**	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	❒	**A**
2nd rating plate mounted	**K68**	13.–	13.–	13.–	13.–	13.–	13.–	13.–	13.–	13.–	•	•	•	•	**A**

Example of a rating plate:



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Notes

STANDARD DRIVES
Documentation

10

Orientation

Overview

The geared motors are supplied with the following documentation as standard:

- Commissioning and Installation Instructions, German/English
- Manual Collection (on CD) with all operating instructions including spare parts documentation and EC Manufacturer's Declaration in Czech, Dutch, English, French, German, Italian, Russian, Spanish, and Swedish.
- You will find the latest releases of all operating instructions for our geared motors at website address:

  http://www.siemens.com/gearedmotors

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

The following documents are optionally available:

- Order-specific lists of spare parts
- Certificate of compliance with the order EN 10204-2.1 and works test certificate EN 10204-2.2 for the geared motor
- Works test certificate EN 10204-2.2 for the material
- Acceptance test certificate EN 10204-3.1 for the gearbox; the following are tested:

  - The input/output shaft diameter
  - The concentricity of the input shaft (for gearboxes without motor only)
  - The torsional backlash
  - The noise (subjective evaluation).

- An acceptance test certificate EN 10204-3.1 for motors can also be produced on request. The following are tested:

  - The no-load current of the 3 phases
  - The power loss during no-load operation
  - The no-load speed

- Acceptance test certificate for paint finishes EN 10204-3.1

Documents can be ordered only in conjunction with a MOTOX product.

Selection and ordering data

Designation	Order number	Order code	Printed document (per copy) EUR	Document as e-mail attachment EUR
Order-related documents				
Certificate of compliance with the order EN 10204-2.1 and works test certificate EN 10204-2.2 for the geared motor GER/ENG	FDU: 70000004006482	–		11.–
Spare parts list and spare parts drawing GER/ENG	FDU: 70000004006429	–		11.–
Motor connection circuit diagram	FDU: 70000004006491	–		5.–
Manufacturer's declaration of compliance with the machinery directive 98/37/EC, GER/ENG	FDU: 70000004006493	–		5.–
ISO 9001 certificate, GER/ENG	FDU: 70000004006497	–		5.–
Works test certificate for material EN 10204-2.2	•	–		•
Position-related documents				
Acceptance test certificate for gearboxes EN 10204-3.1	–	**W11**	48.–	48.–
Acceptance test certificate for motors EN 10204-3.1	–	**W10**	48.–	48.–
Acceptance test certificate for paint finish EN 10204-3.1	–	**W12**	48.–	48.–
Further documents				
Noise measurement report	•	•	•	•
Balance report	•	•	•	•
Operating Instructions	•	•	•	•
Bearing service life calculation	•	•	•	•
Gear teeth calculation	•	•	•	•
Product dimension drawing	•	•	•	•

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Notes

STANDARD DRIVES
Appendix

11

Siemens Contacts worldwide

At

http://www.siemens.com/automation/partner

you can find details of Siemens contact partners worldwide responsible for particular technologies.

You can obtain in most cases a contact partner for

- Technical Support,
- Spare parts/repairs,
- Service,
- Training,
- Sales or
- Consultation/engineering.

You start by selecting a

- Country,
- Product or
- Sector.

By further specifying the remaining criteria you will find exactly the right contact partner with his/her respective expertise.

Siemens Industry Automation and Drive Technologies in the WWW

A detailed knowledge of the range of products and services available is essential when planning and configuring automation systems. It goes without saying that this information must always be fully up-to-date.

Siemens Industry Automation and Drive Technologies has therefore built up a comprehensive range of information in the World Wide Web, which offers quick and easy access to all data required.

Under the address

http://www.siemens.com/automation

you will find everything you need to know about products, systems and services.

Our Services for Every Phase of Your Project

In the face of harsh competition you need optimum conditions to keep ahead all the time:
A strong starting position. A sophisticated strategy and team for the necessary support – in every phase.
Service & Support from Siemens provides this support with a complete range of different services for automation and drives.

In every phase: from planning and startup to maintenance and upgrading.

Our specialists know when and where to act to keep the productivity and cost-effectiveness of your system running in top form.

Online Support

The comprehensive information system available round the clock via Internet ranging from Product Support and Service & Support services to Support Tools in the Shop.

http://www.siemens.com/automation/service&support

Technical Support

Competent consulting in technical questions covering a wide range of customer-oriented services for all our products and systems.

Tel.: +49 (0)180 50 50 222
Fax: +49 (0)180 50 50 223
(€ 0.14 /min. from a German landline network, mobile telephone prices may vary)

http://www.siemens.com/automation/support-request

Technical Consulting

Support in the planning and designing of your project from detailed actual-state analysis, target definition and consulting on product and system questions right to the creation of the automation solution. [1)]

Configuration and Software Engineering

Support in configuring and developing with customer-oriented services from actual configuration to implementation of the automation project. [1)]

Service On Site

With Service On Site we offer services for startup and maintenance, essential for ensuring system availability.

In Germany
0180 50 50 444 [1)]
(€ 0.14 /min. from a German landline network, mobile telephone prices may vary)

Repairs and Spare Parts

In the operating phase of a machine or automation system we provide a comprehensive repair and spare parts service ensuring the highest degree of operating safety and reliability.

In Germany
0180 50 50 446 [1)]
(€ 0.14 /min. from a German landline network, mobile telephone prices may vary)

Optimization and Upgrading

To enhance productivity and save costs in your project we offer high-quality services in optimization and upgrading. [1)]

[1)] For country-specific telephone numbers go to our Internet site at: http://www.siemens.com/automation/service&support

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For software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany" shall apply.

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For software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office outside of Germany" shall apply.

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The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches only apply to devices for export.

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The prices are in € (Euro) ex works, exclusive packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

Surcharges will be added to the prices of products that contain silver, copper, aluminum, lead and/or gold if the respective basic official prices for these metals are exceeded. These surcharges will be determined based on the official price and the metal factor of the respective product.

The surcharge will be calculated on the basis of the official price on the day prior to receipt of the order or prior to the release order.
The metal factor determines the official price as of which the metal surcharges are charged and the calculation method used. The metal factor, provided it is relevant, is included with the price information of the respective products.

An exact explanation of the metal factor and the text of the Comprehensive Terms and Conditions of Sale and Delivery are available free of charge from your local Siemens business office under the following Order Nos.:

- 6ZB5310-0KR30-0BA1
  (for customers based in Germany)
- 6ZB5310-0KS53-0BA1
  (for customers based outside Germany)

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http://www.siemens.com/automation/mall
(Germany: A&D Mall Online-Help System)

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The deciding factors are the AL or ECCN export authorization indicated on order confirmations, delivery notes and invoices.

Errors excepted and subject to change without prior notice.

A&D/VuL_ohne MZ/En 05.09.06

Notes

Catalogs

Industry Automation, Drive Technologies and Electrical Installation Technology

Further information can be obtained from our branch offices listed in the appendix or at www.siemens.com/automation/partner

Automation and Drives	*Catalog*
Interactive catalog on DVD	CA 01

Drive Systems	
Variable-Speed Drives	
SINAMICS G110/SINAMICS G120 Inverter Chassis Units SINAMICS G120D Distributed Frequency Inverters	D 11.1
SINAMICS G130 Drive Converter Chassis Units, SINAMICS G150 Drive Converter Cabinet Units	D 11
SINAMICS GM150/SINAMICS SM150 Medium-Voltage Converters	D 12
SINAMICS S150 Drive Converter Cabinet Units	D 21.3
Asynchronous Motors Standardline	D 86.1
Synchronous Motors with Permanent-Magnet Technology, HT-direct	D 86.2
DC Motors	DA 12
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