

# Bevel helical geared motors

4



	<b>Orientation</b> Overview Modular system
4/2 4/4	<b>General technical data</b> Oil quantities Permissible radial force
4/9	<b>Geared motors up to 200 kW</b> Selection and ordering data
4/62	<b>Transmission ratios and maximum torques</b> Selection and ordering data
4/84	<b>Mounting types</b> Selection and ordering data
4/87	<b>Shaft designs</b> Selection and ordering data
4/89	<b>Flange-mounted designs</b> Selection and ordering data
4/90	<b>Mounting types and mounting positions</b> Selection and ordering data
4/94 4/94 4/95 4/96 4/96 4/97 4/97 4/98 4/98 4/99	<b>Special versions</b> Lubricants Oil level control Gear unit ventilation Oil drain Sealing Non-drive-end cover Reinforced output bearings Second output shaft extension Bevel helical gear unit with backstop in the intermediate stage Mixer flange in dry-well design
4/101 4/105	<b>Dimensions</b> Dimension drawing overview Dimension drawings

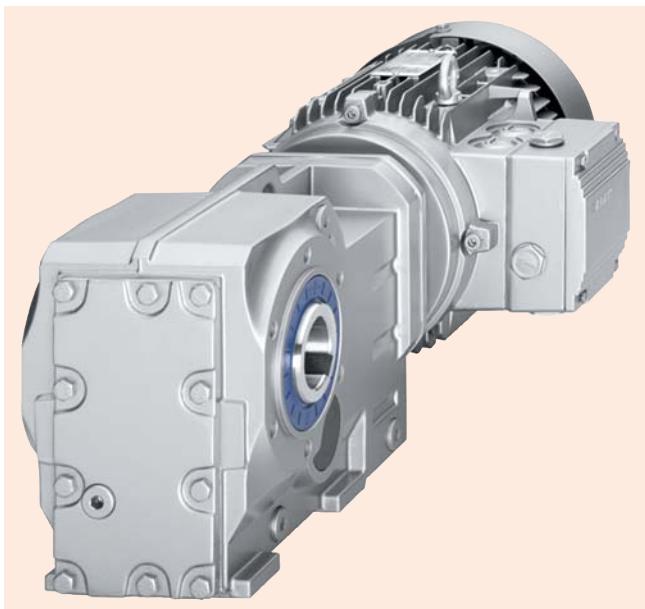


# Geared motors

## Bevel helical geared motors

### Orientation

#### Overview



MOTOX bevel helical gear units are part of the MOTOX modular system. With helical, parallel shaft, helical worm, or variable speed gear units and three-phase, AC motors with or without brakes, this system covers all possible drive combinations, right up to electronic variable speed drives.

MOTOX bevel helical gear units are designed for continuous duty. The gear unit housings made of gray cast iron or aluminium are developed in 3D CAD and have an optimized structure in terms of rigidity and vibration absorption. Radial shaft seals with dust-protection lips prevent oil from leaking out of the housing and dust and water from entering it. The gear wheels of the helical gear stages are milled and their surfaces hardened. The tooth flanks are ground or honed so that they are convex and corrected in terms of the profile. For the standard range, the bevel gear stage is milled, its surface is hardened, and it is lapped in pairs. Optimum running smoothness is also achieved thanks to the helical gears' helical teeth. Positioning the bevel gear stage as the second stage means that less noise is emitted. The output shaft is positioned at a right angle to the input shaft.

## Overview (continued)

Bevel helical gear units are designated as follows:

### Gear unit type:

- B** Bevel helical gear unit, 2-stage
- K** Bevel helical gear unit, 3-stage

Transmission stages (-) 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

Connections (-) Parallel key  
**S** Shrink disk  
**T** Hollow shaft with splined shaft

Backstop **X** Backstop in intermediate stage

### Type of intermediate gear unit

(-) Helical gear unit

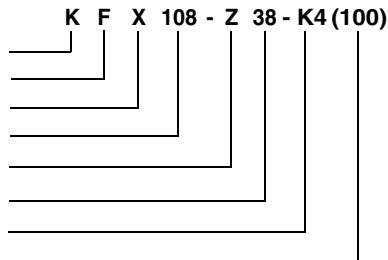
Transmission stages **Z** 2-stage  
**D** 3-stage

### Input unit

- K2** Coupling lantern with flexible coupling for IEC flanged motors
- K2TC** Coupling lantern with flexible coupling for NEMA flanged motors <sup>1)</sup>
- K4** Short lantern for IEC flanged motors
- K5** Short lantern for NEMA flanged motors <sup>1)</sup>
- KQ** Lantern for servomotor with parallel key
- KQS** Lantern for servomotor without parallel key
- A** Input flange with free input shaft
- A5** Input flange with free input shaft (NEMA design)<sup>1)</sup>
- P** Input flange with free input shaft and piggy back
- P5** Input flange with free input shaft and piggy back (NEMA design)<sup>1)</sup>
- PS** Input flange with free input shaft and piggy back with protection cover

Example:

Gear unit type



Type

Backstop

Size

Type interm. gear unit

Size

Input unit  
(for motor size)

The series currently comprises 10 gear unit sizes.

Type K bevel helical gear units are available in a three-stage version, type B in a two-stage version.

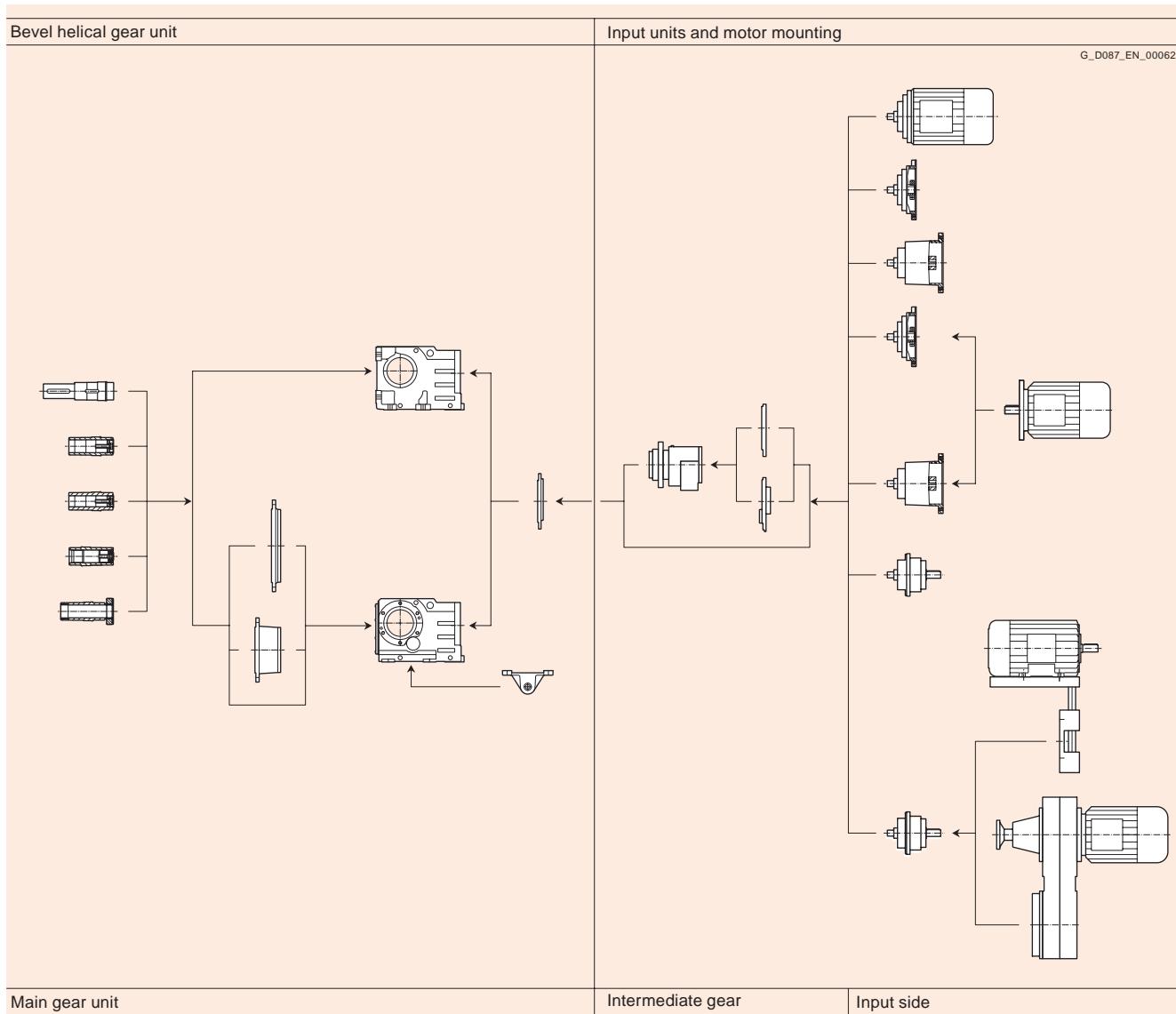
1) These designs can be selected from our MOTOX Configurator electronic catalog.

# Geared motors

## Bevel helical geared motors

### Orientation

#### Modular system



### Use

The MOTOX bevel helical gear unit series can be supplied in foot-mounted or flange-mounted design for mounting in any position.

The gear units are available in a solid-shaft or hollow-shaft design with a parallel key connection, shrink disk connection, or splined shaft.

### Oil quantities

The oil quantities corresponding to the applicable mounting positions are specified in the operating instructions and on the rating plate.

#### Specific oil weights:

Mineral oil (CLP) = 0.9 kg/l

Synthetic oil (PGLP) = 15 kg/l

Gear unit types B, K, KA, KAS, KAT

Gear unit type	Mounting position					
	B3-00 H-01	B8-00 H-02	B7-00 H-03	B6-00 H-04	V5-00 H-05	V6-00 H-06
B.28	0.25	0.6	0.9	0.55	0.50	0.5
B.38	0.70	1.1	1.6	1.00	0.95	0.8
K.38	0.50	1.1	1.4	0.80	1.00	0.9
K.48	0.70	1.6	2.0	1.40	1.50	1.8
K.68	1.60	3.2	3.9	2.70	3.00	3.0
K.88	2.60	5.7	7.4	5.00	4.90	5.2
K.108	5.50	9.5	12.6	8.80	8.70	8.3
K.128	8.30	19.6	24.4	15.80	16.90	16.1
K.148	14.80	30.2	39.5	22.00	25.80	27.0
K.168	21.60	45.6	60.5	34.20	40.20	38.5
K.188	33.80	82.5	104.2	63.40	70.70	69.4

Gear unit types BZ, BF, BAD, BAF, BAZ, BADS, BAES, BAZS, BADT, BAFT, BAZT, KF, KM, KAD, KAF, KAM, KAZ, KADS, KAFS, KAZS, KADT, KAFT, KAZT

Gear unit type	Mounting position					
	B5-01 H-01	B5-03 H-02	B5-02 H-03	B5-00 H-04	V1-00 H-05	V3-00 H-06
B.28	0.25	0.6	0.9	0.55	0.50	0.5
B.38	0.70	1.1	1.6	1.00	0.95	0.8
K.38	0.50	1.1	1.5	0.80	1.00	0.9
K.48	0.70	1.7	2.0	1.40	1.60	1.8
K.68	1.60	3.2	3.9	2.60	2.80	3.0
K.88	2.60	5.8	7.7	5.00	5.10	5.0
K.108	6.20	9.9	13.7	8.90	10.00	8.9
K.128	8.70	19.6	25.0	14.80	17.50	16.6
K.148	14.80	30.1	41.0	25.00	26.00	28.1
K.168	21.70	46.3	62.6	34.80	41.10	39.4
K.188	33.80	82.5	104.2	63.40	70.70	69.4

# Geared motors

## Bevel helical geared motors

### General technical data

#### Oil quantities (continued)

##### Bevel helical dual gear unit

Gear unit types K, KA,KAS,KAT

Gear unit type	Mounting position					
	B3-00 H-01	B8-00 H-02	B7-00 H-03	B6-00 H-04	V5-00 H-05	V6-00 H-06
K.38-D/Z28	0.5+0.25 0.75	1.1+0.25 1.35	1.4+0.6 2.0	0.8+0.7 1.5	1.0+0.25 1.25	0.9+0.25 1.15
	0.7+0.25 0.95	1.6+0.25 1.85	2.0+0.6 2.6	1.2+0.7 1.9	1.5+0.25 1.75	1.8+0.25 2.05
K.68-D/Z28	1.6+0.25 1.85	3.2+0.25 3.45	3.9+0.6 4.5	2.7+0.7 3.4	3.0+0.25 3.25	3.0+0.25 3.25
	2.6+0.25 2.85	5.7+0.25 5.95	7.4+0.6 8.0	5.0+0.7 5.7	4.9+0.25 5.15	5.2+0.25 5.45
K.108-Z38	5.5+0.5 6.0	9.5+0.5 10.0	12.6+0.8 13.4	8.8+1.2 10.0	8.7+0.5 9.2	8.3+0.5 8.8
	5.5+1.0 6.5	9.5+1.0 10.5	12.6+1.8 14.4	8.8+2.4 11.2	8.7+1.0 9.7	8.3+1.0 9.3
K.108-D38	5.5+0.5 6.0	9.5+0.5 10.0	12.6+0.9 13.5	8.8+1.1 9.9	8.7+0.5 9.2	8.3+0.5 8.8
	8.3+0.5 8.8	19.6+0.5 20.1	24.4+0.8 25.2	15.8+1.2 17.0	16.9+0.5 17.4	16.1+0.5 16.6
K.128-Z48	8.3+1.0 9.3	19.6+1.0 20.6	24.4+1.8 26.2	15.8+2.4 18.2	16.9+1.0 17.9	16.1+1.0 17.1
	8.3+0.5 8.8	19.6+0.5 20.1	24.4+0.9 25.3	15.8+1.1 16.9	16.9+0.5 17.4	16.1+0.5 16.6
K.128-D38	8.3+0.5 8.8	30.2+0.5 30.7	39.5+0.8 37.8	22.0+1.2 23.2	25.8+0.5 26.3	27.0+0.5 27.5
	14.8+0.5 15.3	30.2+1.7 31.9	39.5+3.0 40.0	22.0+4.1 26.1	25.8+1.7 27.5	27.0+1.7 28.7
K.148-Z38	14.8+0.5 15.3	30.2+0.5 30.7	39.5+0.9 37.9	22.0+1.1 23.1	25.8+0.5 26.3	27.0+0.5 27.5
	21.6+1.0 22.6	45.6+1.0 46.6	60.5+1.8 62.3	34.2+2.4 36.6	40.2+1.0 41.2	38.5+1.0 39.5
K.168-Z68	21.6+1.7 23.3	45.6+1.7 47.3	60.5+3.0 63.5	34.2+4.1 38.3	40.2+1.7 41.9	38.5+1.7 40.2
	21.6+1.1 22.7	45.6+1.1 46.7	60.5+2.3 62.8	34.2+2.4 36.6	40.2+1.1 41.3	38.5+1.1 39.6
K.188-Z68	33.8+1.7 35.5	82.5+1.7 84.2	104.2+3.0 107.2	63.4+4.1 67.5	70.7+1.7 72.4	69.4+1.7 71.1
	33.8+3.7 37.5	82.5+3.7 86.2	104.2+6.8 111	63.4+8.8 72.2	70.7+3.7 74.4	69.4+3.7 73.1
K.188-D68	33.8+1.6 35.4	82.5+1.6 84.1	104.2+3.9 108.1	63.4+4 67.4	70.7+1.6 72.3	69.4+1.6 71.0

**Oil quantities (continued)**

Bevel helical dual gear unit

Gear unit types KF, KM, KAD, KAF, KAM, KAZ, KADS, KAFS, KAZS, KADT, KAFT, KAZT

Gear unit type	Mounting position					
	B5-01	B5-03	B5-02	B5-00	V1-00	V3-00
	H-01	H-02	H-03	H-04	H-05	H-06
K.38-D/Z28	0.5+0.25	1.1+0.25	1.5+0.6	0.8+0.7	1.0+0.25	0.9+0.25
	0.75	1.35	2.1	1.5	1.25	1.15
K.48-D/Z28	0.7+0.25	1.7+0.25	2.3+0.6	1.2+0.7	1.6+0.25	1.8+0.25
	0.95	1.95	2.9	1.9	1.85	2.05
K.68-D/Z28	1.6+0.25	3.2+0.25	3.9+0.6	2.6+0.7	2.8+0.25	3.0+0.25
	1.85	3.45	4.5	3.3	3.05	3.25
K.88-D/Z28	2.6+0.25	5.8+0.25	7.7+0.6	5.0+0.7	5.1+0.25	5.0+0.25
	2.85	6.05	8.3	5.7	5.35	5.25
K.108-Z38	6.2+0.5	9.9+0.5	13.7+0.7	8.9+1.2	10.0+0.5	8.9+0.5
	6.7	10.4	14.4	10.1	10.5	9.4
K.108-Z48	6.2+1.0	9.9+1.0	13.7+1.8	8.9+2.4	10.0+1.0	8.9+1.0
	7.2	10.9	15.5	11.3	11.0	9.9
K.108-D38	6.2+0.5	9.9+0.5	13.7+0.9	8.9+1.1	10.0+0.5	8.9+0.5
	6.7	10.4	14.6	10.0	10.5	9.4
K.128-Z38	8.7+0.5	19.6+0.5	25.0+0.7	14.8+1.2	17.5+0.5	16.6+0.5
	9.2	20.1	25.7	16.0	18.0	17.1
K.128-Z48	8.7+1.0	19.6+1.0	25.0+1.8	14.8+2.4	17.5+1.0	16.6+1.0
	9.7	20.6	26.8	17.2	18.5	17.6
K.128-D38	8.7+0.5	19.6+0.5	25.0+0.9	14.8+1.1	17.5+0.5	16.6+0.5
	9.2	20.1	25.9	15.9	18.0	17.1
K.148-Z38	14.8+0.5	30.1+0.5	41.0+0.7	25.0+1.2	26.0+0.5	28.1+0.5
	15.3	30.6	41.7	26.2	26.5	28.6
K.148-Z68	14.8+1.7	30.1+1.7	41.0+3.0	25.0+4.1	26.0+1.7	28.1+1.7
	16.5	31.8	44.0	29.1	27.7	29.8
K.148-D38	14.8+0.5	30.1+0.5	41.0+0.9	25.0+1.1	26.0+0.5	28.1+0.5
	15.3	30.6	41.9	26.1	26.5	28.6
K.168-Z48	21.7+1.0	46.3+1.0	62.6+1.8	34.8+2.4	41.1+1.0	39.4+1.0
	22.7	47.3	64.4	37.2	42.1	40.4
K.168-Z68	21.7+1.7	46.3+1.7	62.6+3.0	34.8+4.1	41.1+1.7	39.4+1.7
	23.4	48.0	65.6	38.9	42.8	41.1
K.168-D48	21.7+1.1	46.3+1.1	62.6+2.3	34.8+2.4	41.1+1.1	39.4+1.1
	22.8	47.4	64.9	37.2	42.2	40.5
K.188-Z68	33.8+1.7	82.5+1.7	104.2+3.0	63.4+4.1	70.7+1.7	69.4+1.7
	35.5	84.2	107.2	67.5	72.4	71.1
K.188-Z88	33.8+3.7	82.5+3.7	104.2+6.8	63.4+8.8	70.7+3.7	69.4+3.7
	37.5	86.2	111	72.2	74.4	73.1
K.188-D68	33.8+1.6	82.5+1.6	104.2+3.9	63.4+4	70.7+1.6	69.4+1.6
	35.4	84.1	108.1	67.4	72.3	71.0

# Geared motors

## Bevel helical geared motors

### General technical data

#### Permissible radial force $F_{xperm1}$ and $F_{xperm2}$

Three-stage bevel helical gear unit – standard bearing arrangement

Gear unit type	d mm	l mm	y mm	z mm	a kNm	Direction of rotation when viewing the input shaft	$F_{Rperm}$ in N with $x = l/2$ for input speeds $n_2$ in rpm							
							$\leq 16$	$\leq 25$	$\leq 40$	$\leq 63$	$\leq 100$	$\leq 160$	$\leq 250$	$\leq 320$
BF28	20	40	138	118	63.4	Left	–	3170	3170	3170	3170	3120	2870	2520
						Right	–	3170	3170	3170	3170	3170	3120	2770
BF38	30	60	173	143	193.0	Left	–	6446	6060	4840	3960	3820	3570	3430
						Right	–	6446	6446	5690	4730	4350	3860	3670
KF38	25	50	146	121	153.0	Left	5530	5400	4320	3810	3210	2640	2160	2080
						Right	5820	5700	4610	4060	3420	2820	2330	2250
KF48	30	60	176	146	255.0	Left	8280	7660	6120	4990	3850	3490	3420	–
						Right	8500	8090	6560	5430	4280	3900	3630	–
KF68	40	80	213	173	440.0	Left	9490	7590	6130	4430	3550	2970	3470	–
						Right	10050	8140	6690	4990	4110	3490	3720	–
KF88	50	100	262	212	845.0	Left	13740	10910	9010	6300	5550	4840	5560	5210
						Right	14810	11980	10080	7370	6520	5710	5950	5570
KF108	60	120	298	238	1350.0	Left	16210	12070	8990	6470	5730	5310	5450	–
						Right	18170	14030	10850	8290	7370	6730	6260	–
KF128	70	140	372	302	2247.0	Left	24380	19170	14150	10790	6550	6160	7250	–
						Right	26540	21330	16320	12960	8680	8200	8310	–
KF148	90	170	434	349	2873.0	Left	19620	13920	9150	3620	1240	840	6360	5700
						Right	22310	16620	11840	6310	3800	3080	7370	6630
KF168	110	210	518	413	5891.0	Left	31190	21030	16060	7200	6020	5300	10160	–
						Right	34350	24180	19220	10350	8810	7880	11530	–
KF188	120	210	598	493	8159.0	Left	77700	77700	77700	77700	77240	70580	–	–
						Right	77700	77700	77700	77700	77700	73960	–	–

Three-stage bevel helical gear unit - reinforced bearing arrangement

Gear unit type	d mm	l mm	y mm	z mm	a kNm	Direction of rotation when viewing the input shaft	$F_{Rperm}$ in N with $x = l/2$ for input speeds $n_2$ in rpm							
							$\leq 16$	$\leq 25$	$\leq 40$	$\leq 63$	$\leq 100$	$\leq 160$	$\leq 250$	$\leq 320$
KF68	40	80	213	173	555	Left	13870	13870	13870	13870	13870	12690	11510	–
						Right	13870	13870	13870	13870	13870	13240	11780	–
KF88	50	100	262	212	1182	Left	23630	23630	23630	23630	23000	20590	18910	17880
						Right	23630	23630	23630	23630	23630	21400	19320	18270
KF108	60	120	298	238	1743	Left	29050	29050	29050	29050	28280	25080	23640	–
						Right	29050	29050	29050	29050	29050	26010	24500	–
KF128	70	140	372	302	2893	Left	41330	41330	41330	41330	41330	39430	36540	–
						Right	41330	41330	41330	41330	41330	40660	37680	–
KF148	90	170	434	349	4225	Left	49710	49710	49710	49710	42240	37130	38240	35110
						Right	49710	49710	49710	49710	44970	39520	39320	36100
KF168	110	210	518	413	8059	Left	76750	76750	76750	76750	70560	65140	59690	–
						Right	76750	76750	76750	76750	73550	67890	61160	–
KF188	120	210	598	493	8159	Left	77700	77700	77700	77700	77240	70580	–	–
						Right	77700	77700	77700	77700	77700	73960	–	–

The values in the table apply to the worst-case scenario.  
The output shaft bearing arrangement can be calculated using our MOTOX Configurator electronic catalog.

See Chapter 1 of the configuring guide for more information on calculating the permissible radial force.

### Selection and ordering data

The selection tables show the most common variants and combinations. Other combinations can be selected using our MOTOX Configurator or made available on request.

At an identical power and output speed, priority is given in the selection tables to 4-pole geared motors. At the available transmission ratios, they cover the majority of output speeds.

Due to their prevalence, 4-pole geared motors are easily available, with short delivery times and at a low cost. They also feature a favorable size / power ratio.

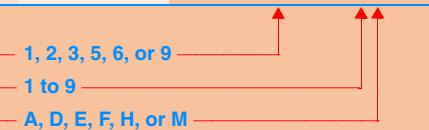
Power $P_{motor}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{tot}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
<b>0.09 (50 Hz) K.48-LA71M8</b>								
0.11 (60 Hz)	<b>3.7</b>	<b>4.4</b>	231	1.9	169.53 ★	<b>2KJ1503 - □CE13 - □□J2-Z</b>	<b>P02</b>	25
<b>K.38-LA71M8</b>								
	<b>3.5</b>	<b>4.2</b>	244	1.0	179.13 ★	<b>2KJ1502 - □CE13 - □□L2-Z</b>	<b>P02</b>	21
	<b>4.0</b>	<b>4.8</b>	217	1.2	159.04	<b>2KJ1502 - □CE13 - □□K2-Z</b>	<b>P02</b>	21
	<b>4.5</b>	<b>5.4</b>	190	1.3	139.43 ★	<b>2KJ1502 - □CE13 - □□J2-Z</b>	<b>P02</b>	21
<b>K.38-LA71B6</b>								
	<b>4.9</b>	<b>5.9</b>	174	1.4	179.13 ★	<b>2KJ1502 - □CB13 - □□L2-Z</b>	<b>P01</b>	21
	<b>5.6</b>	<b>6.7</b>	154	1.6	159.04	<b>2KJ1502 - □CB13 - □□K2-Z</b>	<b>P01</b>	21
	<b>6.3</b>	<b>7.6</b>	135	1.8	139.43 ★	<b>2KJ1502 - □CB13 - □□J2-Z</b>	<b>P01</b>	21
	<b>7.1</b>	<b>8.5</b>	121	2.1	124.78	<b>2KJ1502 - □CB13 - □□H2-Z</b>	<b>P01</b>	21
<b>0.12 (50 Hz) K.188-D68-LA71B4</b>								
0.14 (60 Hz)	<b>0.05</b>	<b>0.06</b>	16116	1.2	27817	<b>2KJ1542 - □CB13 - □□M1</b>		749
	<b>0.06</b>	<b>0.07</b>	12723	1.6	21961	<b>2KJ1542 - □CB13 - □□K1</b>		749
	<b>0.06</b>	<b>0.07</b>	14013	1.4	24187 ★	<b>2KJ1542 - □CB13 - □□L1</b>		749
	<b>0.07</b>	<b>0.08</b>	10659	1.9	18398	<b>2KJ1542 - □CB13 - □□H1</b>		749
	<b>0.07</b>	<b>0.08</b>	11617	1.7	20052 ★	<b>2KJ1542 - □CB13 - □□J1</b>		749
	<b>0.08</b>	<b>0.10</b>	9821	2.0	16951 ★	<b>2KJ1542 - □CB13 - □□G1</b>		749
<b>K.168-D68-LA71B4</b>								
	<b>0.05</b>	<b>0.06</b>	15500	0.87	26754	<b>2KJ1538 - □CB13 - □□G1</b>		487
	<b>0.06</b>	<b>0.07</b>	12343	1.10	21304	<b>2KJ1538 - □CB13 - □□E1</b>		487
	<b>0.06</b>	<b>0.07</b>	13683	0.99	23617 ★	<b>2KJ1538 - □CB13 - □□F1</b>		487
	<b>0.07</b>	<b>0.08</b>	11195	1.20	19323 ★	<b>2KJ1538 - □CB13 - □□D1</b>		487
	<b>0.08</b>	<b>0.10</b>	9329	1.40	16102 ★	<b>2KJ1538 - □CB13 - □□B1</b>		487
	<b>0.08</b>	<b>0.10</b>	10200	1.30	17605	<b>2KJ1538 - □CB13 - □□C1</b>		487
	<b>0.09</b>	<b>0.11</b>	8341	1.60	14397	<b>2KJ1538 - □CB13 - □□A1</b>		487
<b>K.168-Z48-LA71B4</b>								
	<b>0.09</b>	<b>0.11</b>	8744	1.50	14767	<b>2KJ1537 - □CB13 - □□A2</b>		486
	<b>0.10</b>	<b>0.12</b>	7738	1.70	13068 ★	<b>2KJ1537 - □CB13 - □□X1</b>		486
	<b>0.11</b>	<b>0.13</b>	7034	1.90	11880	<b>2KJ1537 - □CB13 - □□W1</b>		486
<b>K.148-D38-LA71B4</b>								
	<b>0.08</b>	<b>0.10</b>	9374	0.85	16180	<b>2KJ1535 - □CB13 - □□C1</b>		296
	<b>0.09</b>	<b>0.11</b>	8529	0.94	14722	<b>2KJ1535 - □CB13 - □□B1</b>		296
	<b>0.10</b>	<b>0.12</b>	7542	1.10	13017	<b>2KJ1535 - □CB13 - □□A1</b>		296
<b>K.148-Z38-LA71B4</b>								
	<b>0.10</b>	<b>0.12</b>	7996	1.0	13505	<b>2KJ1534 - □CB13 - □□W1</b>		296
	<b>0.11</b>	<b>0.13</b>	7111	1.1	12009	<b>2KJ1534 - □CB13 - □□V1</b>		296
	<b>0.13</b>	<b>0.16</b>	6168	1.3	10418	<b>2KJ1534 - □CB13 - □□U1</b>		296
	<b>0.14</b>	<b>0.17</b>	5764	1.4	9734	<b>2KJ1534 - □CB13 - □□T1</b>		296

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84



# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque <i>T</i> <sub>2</sub> Nm	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm						
<b>K.148-Z38-LA71B4</b>								
0.12 (50 Hz)	<b>0.16</b>	<b>0.19</b>	5069	1.6	8561	<b>2KJ1534 - □CB13 - □□S1</b>		296
	<b>0.18</b>	<b>0.22</b>	4440	1.8	7498	<b>2KJ1534 - □CB13 - □□R1</b>		296
	<b>0.20</b>	<b>0.24</b>	3927	2.0	6632	<b>2KJ1534 - □CB13 - □□Q1</b>		296
<b>K.128-Z38-LA71B4</b>								
0.14 (60 Hz)	<b>0.14</b>	<b>0.17</b>	5562	0.84	9394	<b>2KJ1531 - □CB13 - □□T1</b>		201
	<b>0.16</b>	<b>0.19</b>	4892	0.96	8262	★ <b>2KJ1531 - □CB13 - □□S1</b>		201
	<b>0.19</b>	<b>0.23</b>	4284	1.10	7236	<b>2KJ1531 - □CB13 - □□R1</b>		201
	<b>0.21</b>	<b>0.25</b>	3789	1.20	6400	★ <b>2KJ1531 - □CB13 - □□Q1</b>		201
	<b>0.23</b>	<b>0.28</b>	3434	1.40	5800	<b>2KJ1531 - □CB13 - □□P1</b>		201
	<b>0.26</b>	<b>0.31</b>	3032	1.60	5120	★ <b>2KJ1531 - □CB13 - □□N1</b>		201
	<b>0.29</b>	<b>0.35</b>	2735	1.70	4619	<b>2KJ1531 - □CB13 - □□M1</b>		201
	<b>0.32</b>	<b>0.38</b>	2480	1.90	4189	★ <b>2KJ1531 - □CB13 - □□L1</b>		201
<b>K.108-Z38-LA71B4</b>								
0.22 (50 Hz)	<b>0.22</b>	<b>0.26</b>	3572	0.84	6033	<b>2KJ1527 - □CB13 - □□P1</b>		134
	<b>0.25</b>	<b>0.30</b>	3154	0.95	5326	<b>2KJ1527 - □CB13 - □□N1</b>		134
	<b>0.28</b>	<b>0.34</b>	2844	1.10	4804	<b>2KJ1527 - □CB13 - □□M1</b>		134
	<b>0.31</b>	<b>0.37</b>	2580	1.20	4357	<b>2KJ1527 - □CB13 - □□L1</b>		134
	<b>0.34</b>	<b>0.41</b>	2351	1.30	3970	<b>2KJ1527 - □CB13 - □□K1</b>		134
	<b>0.37</b>	<b>0.44</b>	2150	1.40	3631	<b>2KJ1527 - □CB13 - □□J1</b>		134
	<b>0.42</b>	<b>0.50</b>	1923	1.60	3247	<b>2KJ1527 - □CB13 - □□H1</b>		134
	<b>0.45</b>	<b>0.54</b>	1765	1.70	2981	<b>2KJ1527 - □CB13 - □□G1</b>		134
	<b>0.50</b>	<b>0.60</b>	1591	1.90	2687	<b>2KJ1527 - □CB13 - □□F1</b>		134
	<b>K.88-Z28-LA71B4</b>							
0.39 (60 Hz)	<b>0.39</b>	<b>0.47</b>	2063	0.80	3485	★ <b>2KJ1523 - □CB13 - □□X1</b>		76
	<b>0.43</b>	<b>0.52</b>	1846	0.89	3118	<b>2KJ1523 - □CB13 - □□W1</b>		76
	<b>0.49</b>	<b>0.59</b>	1639	1.00	2768	★ <b>2KJ1523 - □CB13 - □□V1</b>		76
	<b>0.56</b>	<b>0.67</b>	1436	1.10	2426	<b>2KJ1523 - □CB13 - □□U1</b>		76
	<b>0.63</b>	<b>0.76</b>	1263	1.30	2133	★ <b>2KJ1523 - □CB13 - □□T1</b>		76
	<b>0.70</b>	<b>0.84</b>	1140	1.40	1926	<b>2KJ1523 - □CB13 - □□S1</b>		76
	<b>0.80</b>	<b>0.96</b>	994	1.70	1679	★ <b>2KJ1523 - □CB13 - □□R1</b>		76
	<b>0.90</b>	<b>1.10</b>	893	1.80	1508	<b>2KJ1523 - □CB13 - □□Q1</b>		76
	<b>0.99</b>	<b>1.20</b>	806	2.00	1361	★ <b>2KJ1523 - □CB13 - □□P1</b>		76
	<b>K.68-Z28-LA71B4</b>							
0.79 (50 Hz)	<b>0.79</b>	<b>0.95</b>	1018	0.81	1720	★ <b>2KJ1518 - □CB13 - □□T1</b>		47
	<b>0.87</b>	<b>1.00</b>	920	0.89	1554	<b>2KJ1518 - □CB13 - □□S1</b>		47
	<b>1.00</b>	<b>1.20</b>	802	1.00	1354	★ <b>2KJ1518 - □CB13 - □□R1</b>		47
	<b>1.10</b>	<b>1.30</b>	720	1.10	1216	<b>2KJ1518 - □CB13 - □□Q1</b>		47
	<b>1.20</b>	<b>1.40</b>	650	1.30	1098	★ <b>2KJ1518 - □CB13 - □□P1</b>		47
	<b>1.40</b>	<b>1.70</b>	590	1.40	996	<b>2KJ1518 - □CB13 - □□N1</b>		47
	<b>1.50</b>	<b>1.80</b>	536	1.50	906	★ <b>2KJ1518 - □CB13 - □□M1</b>		47
	<b>1.70</b>	<b>2.00</b>	474	1.70	801	<b>2KJ1518 - □CB13 - □□L1</b>		47
	<b>1.80</b>	<b>2.20</b>	438	1.90	740	★ <b>2KJ1518 - □CB13 - □□K1</b>		47
	<b>K.68-LA71MB8</b>							
<b>2.60</b>	<b>3.10</b>	433	1.90	243.72	<b>2KJ1504 - □CF13 - □□N2-Z</b>	<b>P02</b>	44	

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque <i>T</i> <sub>2</sub> Nm	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm						
<b>0.12 (50 Hz) K.48-Z28-LA71B4</b>								
0.14 (60 Hz)	<b>1.5</b>	<b>1.8</b>	524	0.86	885.00	★ 2KJ1516 - □ CB13 - □ R1		28
	<b>1.7</b>	<b>2.0</b>	471	0.96	795.00	2KJ1516 - □ CB13 - □ Q1		28
	<b>1.9</b>	<b>2.3</b>	425	1.10	717.00	★ 2KJ1516 - □ CB13 - □ P1		28
	<b>2.1</b>	<b>2.5</b>	385	1.20	651.00	2KJ1516 - □ CB13 - □ N1		28
	<b>2.3</b>	<b>2.8</b>	351	1.30	592.00	★ 2KJ1516 - □ CB13 - □ M1		28
	<b>2.6</b>	<b>3.1</b>	310	1.50	523.00	2KJ1516 - □ CB13 - □ L1		28
	<b>2.8</b>	<b>3.4</b>	286	1.60	483.00	★ 2KJ1516 - □ CB13 - □ K1		28
	<b>3.2</b>	<b>3.8</b>	246	1.80	416.00	2KJ1516 - □ CB13 - □ J1		28
<b>K.48-LA71MB8</b>								
	<b>3.8</b>	<b>4.6</b>	301	1.50	169.53	★ 2KJ1503 - □ CF13 - □ J2-Z	P02	25
	<b>4.3</b>	<b>5.2</b>	268	1.70	150.76	2KJ1503 - □ CF13 - □ H2-Z	P02	25
<b>K.48-LA71C6</b>								
	<b>5.1</b>	<b>6.1</b>	226	2.00	169.53	★ 2KJ1503 - □ CC13 - □ J2-Z	P01	25
<b>K.38-Z28-LA71B4</b>								
	<b>2.6</b>	<b>3.1</b>	310	0.81	523.00	2KJ1514 - □ CB13 - □ L1		24
	<b>2.8</b>	<b>3.4</b>	286	0.87	483.00	★ 2KJ1514 - □ CB13 - □ K1		24
	<b>3.2</b>	<b>3.8</b>	246	1.00	416.00	2KJ1514 - □ CB13 - □ J1		24
<b>K.38-LA71MB8</b>								
	<b>4.1</b>	<b>4.9</b>	283	0.88	159.04	2KJ1502 - □ CF13 - □ K2-Z	P02	21
	<b>4.6</b>	<b>5.5</b>	248	1.00	139.43	★ 2KJ1502 - □ CF13 - □ J2-Z	P02	21
<b>K.38-LA71C6</b>								
	<b>4.8</b>	<b>5.8</b>	239	1.0	179.13	★ 2KJ1502 - □ CC13 - □ L2-Z	P01	21
	<b>5.4</b>	<b>6.5</b>	212	1.2	159.04	2KJ1502 - □ CC13 - □ K2-Z	P01	21
	<b>6.2</b>	<b>7.4</b>	186	1.3	139.43	★ 2KJ1502 - □ CC13 - □ J2-Z	P01	21
	<b>6.9</b>	<b>8.3</b>	166	1.5	124.78	2KJ1502 - □ CC13 - □ H2-Z	P01	21
<b>K.38-LA71B4</b>								
	<b>7.5</b>	<b>9.0</b>	152	1.6	179.13	★ 2KJ1502 - □ CB13 - □ L2		21
	<b>8.5</b>	<b>10.2</b>	135	1.9	159.04	2KJ1502 - □ CB13 - □ K2		21
	<b>9.7</b>	<b>11.6</b>	118	2.1	139.43	★ 2KJ1502 - □ CB13 - □ J2		21
<b>B.38-LA71MB8</b>								
	<b>9.8</b>	<b>11.8</b>	117	2.1	65.69	2KJ1501 - □ CF13 - □ U2-Z	P02	23
<b>B.28-LA71B4</b>								
	<b>24</b>	<b>29</b>	49	2.7	57.53	2KJ1500 - □ CB13 - □ D2		11
	<b>28</b>	<b>34</b>	41	3.2	48.51	2KJ1500 - □ CB13 - □ C2		11
	<b>31</b>	<b>37</b>	37	3.6	43.07	2KJ1500 - □ CB13 - □ B2		11
	<b>36</b>	<b>43</b>	32	4.1	37.76	2KJ1500 - □ CB13 - □ A2		11
	<b>40</b>	<b>48</b>	29	4.5	33.79	2KJ1500 - □ CB13 - □ X1		11
	<b>45</b>	<b>54</b>	26	5.1	29.99	2KJ1500 - □ CB13 - □ W1		11
	<b>51</b>	<b>61</b>	22	5.8	26.28	2KJ1500 - □ CB13 - □ V1		11
	<b>58</b>	<b>70</b>	20	6.6	23.11	2KJ1500 - □ CB13 - □ U1		11
	<b>65</b>	<b>78</b>	18	7.3	20.87	2KJ1500 - □ CB13 - □ T1		11
	<b>74</b>	<b>89</b>	15	8.4	18.19	2KJ1500 - □ CB13 - □ S1		11
	<b>83</b>	<b>100</b>	14	9.4	16.34	2KJ1500 - □ CB13 - □ R1		11

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>0.12 (50 Hz)</b>	<b>B.28-LA71B4</b>							
0.14 (60 Hz)	<b>92</b>	<b>110</b>	12.0	10.4	14.75	<b>2KJ1500 - CC13 - Q1</b>		11
	<b>101</b>	<b>121</b>	11.0	11.4	13.38	<b>2KJ1500 - CC13 - P1</b>		11
	<b>111</b>	<b>133</b>	10.0	12.6	12.17	<b>2KJ1500 - CC13 - N1</b>		11
	<b>125</b>	<b>150</b>	9.1	14.2	10.76	<b>2KJ1500 - CC13 - M1</b>		11
	<b>180</b>	<b>216</b>	6.4	14.2	7.49	<b>2KJ1500 - CC13 - H1</b>		11
<b>0.18 (50 Hz)</b>	<b>K.188-D68-LA71C4</b>							
0.22 (60 Hz)	<b>0.06</b>	<b>0.07</b>	21206	0.94	21961	<b>2KJ1542 - CC13 - K1</b>		749
	<b>0.06</b>	<b>0.07</b>	23355	0.86	24187	★ <b>2KJ1542 - CC13 - L1</b>		749
	<b>0.07</b>	<b>0.08</b>	17765	1.10	18398	<b>2KJ1542 - CC13 - H1</b>		749
	<b>0.07</b>	<b>0.08</b>	19362	1.00	20052	★ <b>2KJ1542 - CC13 - J1</b>		749
	<b>0.08</b>	<b>0.10</b>	16368	1.20	16951	★ <b>2KJ1542 - CC13 - G1</b>		749
	<b>0.09</b>	<b>0.11</b>	14865	1.30	15394	<b>2KJ1542 - CC13 - F1</b>		749
	<b>0.10</b>	<b>0.12</b>	12405	1.60	12847	<b>2KJ1542 - CC13 - D1</b>		749
	<b>0.10</b>	<b>0.12</b>	13542	1.50	14024	★ <b>2KJ1542 - CC13 - E1</b>		749
	<b>0.12</b>	<b>0.14</b>	11069	1.80	11463	★ <b>2KJ1542 - CC13 - C1</b>		749
<b>K.168-D48-LA71C4</b>								
	<b>0.08</b>	<b>0.10</b>	15548	0.87	16102	★ <b>2KJ1538 - CC13 - B1</b>		487
	<b>0.09</b>	<b>0.11</b>	13902	0.97	14397	<b>2KJ1538 - CC13 - A1</b>		487
<b>K.168-Z48-LA71C4</b>								
	<b>0.09</b>	<b>0.11</b>	14573	0.93	14767	<b>2KJ1537 - CC13 - A2</b>		486
	<b>0.10</b>	<b>0.12</b>	12896	1.00	13068	★ <b>2KJ1537 - CC13 - X1</b>		486
	<b>0.11</b>	<b>0.13</b>	11724	1.20	11880	<b>2KJ1537 - CC13 - W1</b>		486
	<b>0.13</b>	<b>0.16</b>	10532	1.30	10673	★ <b>2KJ1537 - CC13 - V1</b>		486
	<b>0.15</b>	<b>0.18</b>	9028	1.50	9148	<b>2KJ1537 - CC13 - U1</b>		486
	<b>0.16</b>	<b>0.19</b>	8168	1.70	8277	★ <b>2KJ1537 - CC13 - T1</b>		486
	<b>0.18</b>	<b>0.22</b>	7539	1.80	7640	<b>2KJ1537 - CC13 - S1</b>		486
<b>K.148-Z38-LA71C4</b>								
	<b>0.14</b>	<b>0.17</b>	9606	0.83	9734	<b>2KJ1534 - CC13 - T1</b>		296
	<b>0.16</b>	<b>0.19</b>	8448	0.95	8561	<b>2KJ1534 - CC13 - S1</b>		296
	<b>0.18</b>	<b>0.22</b>	7399	1.10	7498	<b>2KJ1534 - CC13 - R1</b>		296
	<b>0.20</b>	<b>0.24</b>	6545	1.20	6632	<b>2KJ1534 - CC13 - Q1</b>		296
	<b>0.23</b>	<b>0.28</b>	5931	1.30	6010	<b>2KJ1534 - CC13 - P1</b>		296
	<b>0.25</b>	<b>0.30</b>	5235	1.50	5305	<b>2KJ1534 - CC13 - N1</b>		296
	<b>0.28</b>	<b>0.34</b>	4723	1.70	4786	<b>2KJ1534 - CC13 - M1</b>		296
	<b>0.31</b>	<b>0.37</b>	4284	1.90	4341	<b>2KJ1534 - CC13 - L1</b>		296
	<b>0.34</b>	<b>0.41</b>	3903	2.00	3955	<b>2KJ1534 - CC13 - K1</b>		296
<b>K.128-Z38-LA71C4</b>								
	<b>0.23</b>	<b>0.28</b>	5724	0.82	5800	<b>2KJ1531 - CC13 - P1</b>		201
	<b>0.26</b>	<b>0.31</b>	5053	0.93	5120	★ <b>2KJ1531 - CC13 - N1</b>		201
	<b>0.29</b>	<b>0.35</b>	4558	1.00	4619	<b>2KJ1531 - CC13 - M1</b>		201
	<b>0.32</b>	<b>0.38</b>	4134	1.10	4189	★ <b>2KJ1531 - CC13 - L1</b>		201
	<b>0.35</b>	<b>0.42</b>	3767	1.20	3817	<b>2KJ1531 - CC13 - K1</b>		201
	<b>0.39</b>	<b>0.47</b>	3445	1.40	3491	★ <b>2KJ1531 - CC13 - J1</b>		201

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

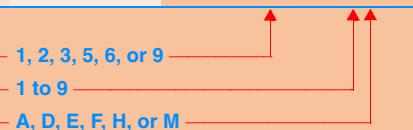
Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque <i>T<sub>2</sub></i> Nm	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm						
<b>0.18 (50 Hz)</b>	<b>K.128-Z38-LA71C4</b>							
0.22 (60 Hz)	0.43	0.52	3080	1.5	3121	2KJ1531 - CC13 - H1		201
	0.47	0.56	2828	1.7	2866	★ 2KJ1531 - CC13 - G1		201
	0.52	0.62	2549	1.8	2583	2KJ1531 - CC13 - F1		201
<b>K.108-Z38-LA71C4</b>								
	0.37	0.44	3583	0.84	3631	2KJ1527 - CC13 - J1		134
	0.42	0.50	3204	0.94	3247	2KJ1527 - CC13 - H1		134
	0.45	0.54	2942	1.00	2981	2KJ1527 - CC13 - G1		134
	0.50	0.60	2652	1.10	2687	2KJ1527 - CC13 - F1		134
	0.58	0.70	2281	1.30	2311	2KJ1527 - CC13 - E1		134
	0.66	0.79	2033	1.50	2060	2KJ1527 - CC13 - D1		134
	0.71	0.85	1867	1.60	1892	2KJ1527 - CC13 - C1		134
	0.79	0.95	1683	1.80	1705	2KJ1527 - CC13 - B1		134
<b>K.88-Z28-LA71C4</b>								
	0.70	0.84	1901	0.87	1926	2KJ1523 - CC13 - S1		76
	0.80	0.96	1657	1.00	1679	★ 2KJ1523 - CC13 - R1		76
	0.90	1.10	1488	1.10	1508	2KJ1523 - CC13 - Q1		76
	0.99	1.20	1343	1.20	1361	★ 2KJ1523 - CC13 - P1		76
	1.10	1.30	1218	1.40	1234	2KJ1523 - CC13 - N1		76
	1.20	1.40	1108	1.50	1123	★ 2KJ1523 - CC13 - M1		76
	1.40	1.70	980	1.70	993	2KJ1523 - CC13 - L1		76
	1.50	1.80	905	1.80	917	★ 2KJ1523 - CC13 - K1		76
<b>K.88-LA80S8</b>								
	2.2	2.6	771	2.00	302.68	★ 2KJ1505 - DB13 - M2-Z	P02	78
<b>K.68-Z28-LA71C4</b>								
	1.4	1.7	983	0.83	996	2KJ1518 - CC13 - N1		47
	1.5	1.8	894	0.92	906	★ 2KJ1518 - CC13 - M1		47
	1.7	2.0	790	1.00	801	2KJ1518 - CC13 - L1		47
	1.8	2.2	730	1.10	740	★ 2KJ1518 - CC13 - K1		47
	2.1	2.5	629	1.30	637	2KJ1518 - CC13 - J1		47
	2.3	2.8	571	1.40	579	★ 2KJ1518 - CC13 - H1		47
<b>K.68-LA80S8</b>								
	2.8	3.4	621	1.3	243.72	2KJ1504 - DB13 - N2-Z	P02	48
	3.1	3.7	549	1.5	215.68	★ 2KJ1504 - DB13 - M2-Z	P02	48
<b>K.68-LA71S6</b>								
	3.4	4.1	502	1.6	243.72	2KJ1504 - CD13 - N2-Z	P01	44
	3.9	4.7	444	1.8	215.68	★ 2KJ1504 - CD13 - M2-Z	P01	44
	4.3	5.2	404	2.0	196.07	2KJ1504 - CD13 - L2-Z	P01	44
<b>K.48-Z28-LA71C4</b>								
	2.6	3.1	516	0.87	523	2KJ1516 - CC13 - L1		28
	2.8	3.4	477	0.94	483	★ 2KJ1516 - CC13 - K1		28
	3.2	3.8	411	1.10	416	2KJ1516 - CC13 - J1		28
<b>K.48-LA80S8</b>								
	4.0	4.8	432	1.0	169.53	★ 2KJ1503 - DB13 - J2-Z	P02	29
	4.5	5.4	384	1.2	150.76	2KJ1503 - DB13 - H2-Z	P02	29

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84



# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque <i>T<sub>2</sub></i> Nm	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm						
<b>0.18 (50 Hz) K.48-LA71S6</b>								
0.22 (60 Hz)	<b>4.9</b>	<b>5.9</b>	349	1.3	169.53	★ 2KJ1503 - CC13 - J2-Z	P01	25
	<b>5.5</b>	<b>6.6</b>	310	1.4	150.76	2KJ1503 - CC13 - H2-Z	P01	25
	<b>6.4</b>	<b>7.7</b>	269	1.7	130.78	★ 2KJ1503 - CC13 - G2-Z	P01	25
	<b>6.8</b>	<b>8.2</b>	252	1.8	122.19	2KJ1503 - CC13 - F2-Z	P01	25
<b>K.48-LA71C4</b>								
	<b>8.0</b>	<b>9.6</b>	216	2.1	169.53	★ 2KJ1503 - CC13 - J2		25
<b>K.38-LA71S6</b>								
	<b>6.0</b>	<b>7.2</b>	287	0.87	139.43	★ 2KJ1502 - CC13 - J2-Z	P01	21
	<b>6.7</b>	<b>8.0</b>	257	0.97	124.78	2KJ1502 - CC13 - H2-Z	P01	21
<b>K.38-LA71C4</b>								
	<b>7.5</b>	<b>9.0</b>	228	1.1	179.13	★ 2KJ1502 - CC13 - L2		21
	<b>8.5</b>	<b>10.2</b>	203	1.2	159.04	2KJ1502 - CC13 - K2		21
	<b>9.7</b>	<b>11.6</b>	178	1.4	139.43	★ 2KJ1502 - CC13 - J2		21
	<b>10.8</b>	<b>13.0</b>	159	1.6	124.78	2KJ1502 - CC13 - H2		21
	<b>12.2</b>	<b>14.6</b>	141	1.8	110.75	★ 2KJ1502 - CC13 - G2		21
	<b>13.9</b>	<b>16.7</b>	124	2.0	97.05	2KJ1502 - CC13 - F2		21
	<b>15.8</b>	<b>19.0</b>	109	2.3	85.33	★ 2KJ1502 - CC13 - E2		21
<b>B.38-LA80S8</b>								
	<b>11.8</b>	<b>14.2</b>	145	1.7	57.04	2KJ1501 - DB13 - T2-Z	P02	27
<b>B.38-LA71S6</b>								
	<b>12.7</b>	<b>15.2</b>	135	1.8	65.69	2KJ1501 - CC13 - U2-Z	P01	23
	<b>14.6</b>	<b>17.5</b>	117	2.1	57.04	2KJ1501 - CC13 - T2-Z	P01	23
<b>B.28-LA71C4</b>								
	<b>24</b>	<b>29</b>	73.0	1.8	57.53	2KJ1500 - CC13 - D2		11
	<b>28</b>	<b>34</b>	62.0	2.1	48.51	2KJ1500 - CC13 - C2		11
	<b>31</b>	<b>37</b>	55.0	2.4	43.07	2KJ1500 - CC13 - B2		11
	<b>36</b>	<b>43</b>	48.0	2.7	37.76	2KJ1500 - CC13 - A2		11
	<b>40</b>	<b>48</b>	43.0	3.0	33.79	2KJ1500 - CC13 - X1		11
	<b>45</b>	<b>54</b>	38.0	3.4	29.99	2KJ1500 - CC13 - W1		11
	<b>51</b>	<b>61</b>	34.0	3.9	26.28	2KJ1500 - CC13 - V1		11
	<b>58</b>	<b>70</b>	29.0	4.4	23.11	2KJ1500 - CC13 - U1		11
	<b>65</b>	<b>78</b>	27.0	4.9	20.87	2KJ1500 - CC13 - T1		11
	<b>74</b>	<b>89</b>	23.0	5.6	18.19	2KJ1500 - CC13 - S1		11
	<b>83</b>	<b>100</b>	21.0	6.2	16.34	2KJ1500 - CC13 - R1		11
	<b>92</b>	<b>110</b>	19.0	6.9	14.75	2KJ1500 - CC13 - Q1		11
	<b>101</b>	<b>121</b>	17.0	7.6	13.38	2KJ1500 - CC13 - P1		11
	<b>111</b>	<b>133</b>	16.0	8.4	12.17	2KJ1500 - CC13 - N1		11
	<b>125</b>	<b>150</b>	14.0	9.5	10.76	2KJ1500 - CC13 - M1		11
	<b>136</b>	<b>163</b>	13.0	10.1	9.94	2KJ1500 - CC13 - L1		11
	<b>158</b>	<b>190</b>	11.0	11.1	8.56	2KJ1500 - CC13 - K1		11
	<b>174</b>	<b>209</b>	9.9	11.8	7.78	2KJ1500 - CC13 - J1		11
	<b>180</b>	<b>216</b>	9.5	9.4	7.49	2KJ1500 - CC13 - H1		11
	<b>200</b>	<b>240</b>	8.6	10.5	6.76	2KJ1500 - CC13 - G1		11
	<b>220</b>	<b>264</b>	7.8	11.5	6.13	2KJ1500 - CC13 - F1		11

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque <i>T<sub>2</sub></i> Nm	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm						
<b>0.18 (50 Hz)</b>	<b>B.28-LA71C4</b>							
0.22 (60 Hz)	<b>242</b>	<b>290</b>	7.1	12.7	5.58	<b>2KJ1500 - CC13 - E1</b>		11
	<b>273</b>	<b>328</b>	6.3	14.3	4.94	<b>2KJ1500 - CC13 - D1</b>		11
	<b>296</b>	<b>355</b>	5.8	15.0	4.56	<b>2KJ1500 - CC13 - C1</b>		11
<b>0.25 (50 Hz)</b>	<b>K.188-D68-LA71S4</b>							
0.30 (60 Hz)	<b>0.08</b>	<b>0.1</b>	24007	0.83	16951	★ <b>2KJ1542 - CD13 - G1</b>		749
<b>K.188-D68-LA71S4</b>								
	<b>0.09</b>	<b>0.11</b>	21801	0.92	15394	<b>2KJ1542 - CD13 - F1</b>		749
	<b>0.10</b>	<b>0.12</b>	18194	1.10	12847	<b>2KJ1542 - CD13 - D1</b>		749
	<b>0.10</b>	<b>0.12</b>	19861	1.00	14024	★ <b>2KJ1542 - CD13 - E1</b>		749
	<b>0.12</b>	<b>0.14</b>	16234	1.20	11463	★ <b>2KJ1542 - CD13 - C1</b>		749
<b>K.188-Z68-LA71S4</b>								
	<b>0.15</b>	<b>0.18</b>	13317	1.5	9201	★ <b>2KJ1541 - CD13 - X1</b>		747
	<b>0.17</b>	<b>0.20</b>	11647	1.7	8047	<b>2KJ1541 - CD13 - W1</b>		747
	<b>0.19</b>	<b>0.23</b>	10456	1.9	7224	★ <b>2KJ1541 - CD13 - V1</b>		747
<b>K.168-Z48-LA71S4</b>								
	<b>0.13</b>	<b>0.16</b>	15448	0.87	10673	★ <b>2KJ1537 - CD13 - V1</b>		486
	<b>0.15</b>	<b>0.18</b>	13240	1.00	9148	<b>2KJ1537 - CD13 - U1</b>		486
	<b>0.16</b>	<b>0.19</b>	11980	1.10	8277	★ <b>2KJ1537 - CD13 - T1</b>		486
	<b>0.18</b>	<b>0.22</b>	11058	1.20	7640	<b>2KJ1537 - CD13 - S1</b>		486
	<b>0.20</b>	<b>0.24</b>	9615	1.40	6643	★ <b>2KJ1537 - CD13 - R1</b>		486
	<b>0.22</b>	<b>0.26</b>	8730	1.50	6032	<b>2KJ1537 - CD13 - Q1</b>		486
	<b>0.24</b>	<b>0.29</b>	7971	1.70	5507	★ <b>2KJ1537 - CD13 - P1</b>		486
	<b>0.27</b>	<b>0.32</b>	7313	1.80	5053	<b>2KJ1537 - CD13 - N1</b>		486
	<b>0.29</b>	<b>0.35</b>	6739	2.00	4656	★ <b>2KJ1537 - CD13 - M1</b>		486
<b>K.148-Z38-LA71S4</b>								
	<b>0.20</b>	<b>0.24</b>	9599	0.83	6632	<b>2KJ1534 - CD13 - Q1</b>		296
	<b>0.23</b>	<b>0.28</b>	8699	0.92	6010	<b>2KJ1534 - CD13 - P1</b>		296
	<b>0.25</b>	<b>0.30</b>	7678	1.00	5305	<b>2KJ1534 - CD13 - N1</b>		296
	<b>0.28</b>	<b>0.34</b>	6927	1.20	4786	<b>2KJ1534 - CD13 - M1</b>		296
	<b>0.31</b>	<b>0.37</b>	6283	1.30	4341	<b>2KJ1534 - CD13 - L1</b>		296
	<b>0.34</b>	<b>0.41</b>	5724	1.40	3955	<b>2KJ1534 - CD13 - K1</b>		296
	<b>0.37</b>	<b>0.44</b>	5235	1.50	3617	<b>2KJ1534 - CD13 - J1</b>		296
	<b>0.42</b>	<b>0.50</b>	4681	1.70	3234	<b>2KJ1534 - CD13 - H1</b>		296
	<b>0.46</b>	<b>0.55</b>	4299	1.90	2970	<b>2KJ1534 - CD13 - G1</b>		296
<b>K.128-Z38-LA71S4</b>								
	<b>0.35</b>	<b>0.42</b>	5525	0.85	3817	<b>2KJ1531 - CD13 - K1</b>		201
	<b>0.39</b>	<b>0.47</b>	5053	0.93	3491	★ <b>2KJ1531 - CD13 - J1</b>		201
	<b>0.43</b>	<b>0.52</b>	4517	1.00	3121	<b>2KJ1531 - CD13 - H1</b>		201
	<b>0.47</b>	<b>0.56</b>	4148	1.10	2866	★ <b>2KJ1531 - CD13 - G1</b>		201
	<b>0.52</b>	<b>0.62</b>	3739	1.30	2583	<b>2KJ1531 - CD13 - F1</b>		201
	<b>0.61</b>	<b>0.73</b>	3215	1.50	2221	★ <b>2KJ1531 - CD13 - E1</b>		201
	<b>0.68</b>	<b>0.82</b>	2867	1.60	1981	<b>2KJ1531 - CD13 - D1</b>		201
	<b>0.74</b>	<b>0.89</b>	2633	1.80	1819	★ <b>2KJ1531 - CD13 - C1</b>		201

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque <i>T</i> <sub>2</sub> Nm	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm						
<b>0.25 (50 Hz)</b>	<b>K.128-Z38-LA71S4</b>							
0.30 (60 Hz)	<b>0.82</b>	<b>0.98</b>	2372	2.0	1639	<b>2KJ1531 - CD13 - B1</b>		201
	<b>K.108-Z38-LA71S4</b>							
	<b>0.58</b>	<b>0.70</b>	3345	0.9	2311	<b>2KJ1527 - CD13 - E1</b>		134
	<b>0.66</b>	<b>0.79</b>	2982	1.0	2060	<b>2KJ1527 - CD13 - D1</b>		134
	<b>0.71</b>	<b>0.85</b>	2738	1.1	1892	<b>2KJ1527 - CD13 - C1</b>		134
	<b>0.79</b>	<b>0.95</b>	2468	1.2	1705	<b>2KJ1527 - CD13 - B1</b>		134
	<b>0.92</b>	<b>1.10</b>	2122	1.4	1466	<b>2KJ1527 - CD13 - A1</b>		134
	<b>K.108-Z48-LA71S4</b>							
	<b>1.0</b>	<b>1.2</b>	1944	1.5	1343	★ <b>2KJ1530 - CD13 - P1</b>		143
	<b>1.1</b>	<b>1.3</b>	1785	1.7	1233	<b>2KJ1530 - CD13 - N1</b>		143
	<b>1.2</b>	<b>1.4</b>	1644	1.8	1136	★ <b>2KJ1530 - CD13 - M1</b>		143
	<b>1.3</b>	<b>1.6</b>	1492	2.0	1031	<b>2KJ1530 - CD13 - L1</b>		143
	<b>K.88-Z28-LA71S4</b>							
	<b>0.99</b>	<b>1.2</b>	1970	0.84	1361	★ <b>2KJ1523 - CD13 - P1</b>		76
	<b>1.10</b>	<b>1.3</b>	1786	0.92	1234	<b>2KJ1523 - CD13 - N1</b>		76
	<b>1.20</b>	<b>1.4</b>	1625	1.00	1123	★ <b>2KJ1523 - CD13 - M1</b>		76
	<b>1.40</b>	<b>1.7</b>	1437	1.10	993	<b>2KJ1523 - CD13 - L1</b>		76
	<b>1.50</b>	<b>1.8</b>	1327	1.20	917	★ <b>2KJ1523 - CD13 - K1</b>		76
	<b>1.70</b>	<b>2.0</b>	1142	1.40	789	<b>2KJ1523 - CD13 - J1</b>		76
	<b>1.90</b>	<b>2.3</b>	1039	1.60	718	★ <b>2KJ1523 - CD13 - H1</b>		76
	<b>2.10</b>	<b>2.5</b>	944	1.70	652	★ <b>2KJ1523 - CD13 - G1</b>		76
	<b>K.88-LA80M8</b>							
	<b>2.3</b>	<b>2.8</b>	1055	1.5	302.68	★ <b>2KJ1505 - DC13 - M2-Z</b>	P02	78
	<b>2.5</b>	<b>3.0</b>	951	1.7	272.95	<b>2KJ1505 - DC13 - L2-Z</b>	P02	78
	<b>K.88-LA71M6</b>							
	<b>2.7</b>	<b>3.2</b>	871	1.8	302.68	★ <b>2KJ1505 - CE13 - M2-Z</b>	P01	74
	<b>K.68-Z28-LA71S4</b>							
	<b>2.1</b>	<b>2.5</b>	922	0.89	637	<b>2KJ1518 - CD13 - J1</b>		47
	<b>2.3</b>	<b>2.8</b>	838	0.98	579	★ <b>2KJ1518 - CD13 - H1</b>		47
	<b>K.68-LA80M8</b>							
	<b>2.8</b>	<b>3.4</b>	849	0.97	243.72	<b>2KJ1504 - DC13 - N2-Z</b>	P02	48
	<b>3.2</b>	<b>3.8</b>	752	1.1	215.68	★ <b>2KJ1504 - DC13 - M2-Z</b>	P02	48
	<b>K.68-LA71M6</b>							
	<b>3.4</b>	<b>4.1</b>	701	1.2	243.72	<b>2KJ1504 - CE13 - N2-Z</b>	P01	44
	<b>3.8</b>	<b>4.6</b>	620	1.3	215.68	★ <b>2KJ1504 - CE13 - M2-Z</b>	P01	44
	<b>4.2</b>	<b>5.0</b>	564	1.5	196.07	<b>2KJ1504 - CE13 - L2-Z</b>	P01	44
	<b>4.7</b>	<b>5.6</b>	507	1.6	176.14	★ <b>2KJ1504 - CE13 - K2-Z</b>	P01	44
	<b>K.68-LA71S4</b>							
	<b>5.5</b>	<b>6.6</b>	431	1.9	243.72	<b>2KJ1504 - CD13 - N2</b>		44
	<b>6.3</b>	<b>7.6</b>	381	2.1	215.68	★ <b>2KJ1504 - CD13 - M2</b>		44
	<b>K.48-LA80M8</b>							
	<b>4.5</b>	<b>5.4</b>	525	0.86	150.76	<b>2KJ1503 - DC13 - H2-Z</b>	P02	29
	<b>K.48-LA71M6</b>							
	<b>4.9</b>	<b>5.9</b>	488	0.92	169.53	★ <b>2KJ1503 - CE13 - J2-Z</b>	P01	25

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
<b>0.25 (50 Hz) K.48-LA71M6</b>								
0.30 (60 Hz)	5.5	6.6	434	1.0	150.76	2KJ1503 - ■ CE13 - ■■ H2-Z	P01	25
	6.3	7.6	376	1.2	130.78 ★	2KJ1503 - ■ CE13 - ■■ G2-Z	P01	25
	6.8	8.2	351	1.3	122.19	2KJ1503 - ■ CE13 - ■■ F2-Z	P01	25
	7.7	9.2	309	1.5	107.47 ★	2KJ1503 - ■ CE13 - ■■ E2-Z	P01	25
<b>K.48-LA71S4</b>								
	8.0	9.6	300	1.5	169.53 ★	2KJ1503 - ■ CD13 - ■■ J2		25
	9.0	10.8	267	1.7	150.76	2KJ1503 - ■ CD13 - ■■ H2		25
	10.3	12.4	231	1.9	130.78 ★	2KJ1503 - ■ CD13 - ■■ G2		25
	11.0	13.2	216	2.1	122.19	2KJ1503 - ■ CD13 - ■■ F2		25
<b>K.38-LA71S4</b>								
	8.5	10.2	281	0.89	159.04	2KJ1502 - ■ CD13 - ■■ K2		21
	9.7	11.6	247	1.00	139.43 ★	2KJ1502 - ■ CD13 - ■■ J2		21
	10.8	13.0	221	1.10	124.78	2KJ1502 - ■ CD13 - ■■ H2		21
	12.2	14.6	196	1.30	110.75 ★	2KJ1502 - ■ CD13 - ■■ G2		21
	13.9	16.7	172	1.50	97.05	2KJ1502 - ■ CD13 - ■■ F2		21
	15.8	19.0	151	1.70	85.33 ★	2KJ1502 - ■ CD13 - ■■ E2		21
	17.5	21.0	136	1.80	77.09	2KJ1502 - ■ CD13 - ■■ D2		21
	20.0	24.0	119	2.10	67.18 ★	2KJ1502 - ■ CD13 - ■■ C2		21
	22.0	26.0	107	2.30	60.33	2KJ1502 - ■ CD13 - ■■ B2		21
<b>B.38-LA80M8</b>								
	12.0	14.4	199	1.3	57.04	2KJ1501 - ■ DC13 - ■■ T2-Z	P02	27
<b>B.38-LA71M6</b>								
	12.6	15.1	189	1.3	65.69	2KJ1501 - ■ CE13 - ■■ U2-Z	P01	23
	14.6	17.5	164	1.5	57.04	2KJ1501 - ■ CE13 - ■■ T2-Z	P01	23
	16.4	19.7	146	1.7	50.72	2KJ1501 - ■ CE13 - ■■ S2-Z	P01	23
	18.9	23.0	127	2.0	44.00	2KJ1501 - ■ CE13 - ■■ R2-Z	P01	23
	20.0	24.0	118	2.1	41.11	2KJ1501 - ■ CE13 - ■■ Q2-Z	P01	23
<b>B.38-LA71S4</b>								
	21	25	116	2.2	65.69	2KJ1501 - ■ CD13 - ■■ U2		23
<b>B.28-LA71S4</b>								
	24	29	102	1.3	57.53	2KJ1500 - ■ CD13 - ■■ D2		11
	28	34	86	1.5	48.51	2KJ1500 - ■ CD13 - ■■ C2		11
	31	37	76	1.7	43.07	2KJ1500 - ■ CD13 - ■■ B2		11
	36	43	67	1.9	37.76	2KJ1500 - ■ CD13 - ■■ A2		11
	40	48	60	2.2	33.79	2KJ1500 - ■ CD13 - ■■ X1		11
	45	54	53	2.5	29.99	2KJ1500 - ■ CD13 - ■■ W1		11
	51	61	46	2.8	26.28	2KJ1500 - ■ CD13 - ■■ V1		11
	58	70	41	3.2	23.11	2KJ1500 - ■ CD13 - ■■ U1		11
	65	78	37	3.5	20.87	2KJ1500 - ■ CD13 - ■■ T1		11
	74	89	32	4.0	18.19	2KJ1500 - ■ CD13 - ■■ S1		11
	83	100	29	4.5	16.34	2KJ1500 - ■ CD13 - ■■ R1		11
	92	110	26	5.0	14.75	2KJ1500 - ■ CD13 - ■■ Q1		11
	101	121	24	5.5	13.38	2KJ1500 - ■ CD13 - ■■ P1		11
	111	133	22	6.0	12.17	2KJ1500 - ■ CD13 - ■■ N1		11

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>0.25 (50 Hz)</b>	<b>B.28-LA71S4</b>							
0.30 (60 Hz)	<b>125</b>	<b>150</b>	19.0	6.8	10.76	<b>2KJ1500 - CD13 - M1</b>		11
	<b>136</b>	<b>163</b>	18.0	7.3	9.94	<b>2KJ1500 - CD13 - L1</b>		11
	<b>158</b>	<b>190</b>	15.0	8.0	8.56	<b>2KJ1500 - CD13 - K1</b>		11
	<b>174</b>	<b>209</b>	14.0	8.5	7.78	<b>2KJ1500 - CD13 - J1</b>		11
	<b>180</b>	<b>216</b>	13.0	6.8	7.49	<b>2KJ1500 - CD13 - H1</b>		11
	<b>200</b>	<b>240</b>	12.0	7.5	6.76	<b>2KJ1500 - CD13 - G1</b>		11
	<b>220</b>	<b>264</b>	11.0	8.3	6.13	<b>2KJ1500 - CD13 - F1</b>		11
	<b>242</b>	<b>290</b>	9.9	9.1	5.58	<b>2KJ1500 - CD13 - E1</b>		11
	<b>273</b>	<b>328</b>	8.7	10.3	4.94	<b>2KJ1500 - CD13 - D1</b>		11
	<b>296</b>	<b>355</b>	8.1	10.8	4.56	<b>2KJ1500 - CD13 - C1</b>		11
	<b>344</b>	<b>413</b>	6.9	11.8	3.92	<b>2KJ1500 - CD13 - B1</b>		11
	<b>378</b>	<b>454</b>	6.3	12.5	3.57	<b>2KJ1500 - CD13 - A1</b>		11
<b>0.37 (50 Hz)</b>	<b>K.188-D68-LA71M4</b>							
0.44 (60 Hz)	<b>0.12</b>	<b>0.14</b>	24723	0.81	11463	★ <b>2KJ1542 - CE13 - C1</b>		749
<b>K.188-Z68-LA71M4</b>								
	<b>0.15</b>	<b>0.18</b>	20281	0.99	9201	★ <b>2KJ1541 - CE13 - X1</b>		747
	<b>0.17</b>	<b>0.20</b>	17737	1.10	8047	<b>2KJ1541 - CE13 - W1</b>		747
	<b>0.19</b>	<b>0.23</b>	15923	1.30	7224	★ <b>2KJ1541 - CE13 - V1</b>		747
	<b>0.21</b>	<b>0.25</b>	14543	1.40	6598	<b>2KJ1541 - CE13 - U1</b>		747
	<b>0.23</b>	<b>0.28</b>	12905	1.50	5855	★ <b>2KJ1541 - CE13 - T1</b>		747
	<b>0.25</b>	<b>0.30</b>	11914	1.70	5405	<b>2KJ1541 - CE13 - S1</b>		747
	<b>0.28</b>	<b>0.34</b>	10776	1.90	4889	★ <b>2KJ1541 - CE13 - R1</b>		747
	<b>0.30</b>	<b>0.36</b>	9923	2.00	4502	<b>2KJ1541 - CE13 - Q1</b>		747
<b>K.168-Z48-LA71M4</b>								
	<b>0.18</b>	<b>0.22</b>	16840	0.80	7640	<b>2KJ1537 - CE13 - S1</b>		486
	<b>0.21</b>	<b>0.25</b>	14642	0.92	6643	★ <b>2KJ1537 - CE13 - R1</b>		486
	<b>0.23</b>	<b>0.28</b>	13296	1.00	6032	<b>2KJ1537 - CE13 - Q1</b>		486
	<b>0.25</b>	<b>0.30</b>	12138	1.10	5507	★ <b>2KJ1537 - CE13 - P1</b>		486
	<b>0.27</b>	<b>0.32</b>	11138	1.20	5053	<b>2KJ1537 - CE13 - N1</b>		486
	<b>0.29</b>	<b>0.35</b>	10263	1.30	4656	★ <b>2KJ1537 - CE13 - M1</b>		486
	<b>0.32</b>	<b>0.38</b>	9319	1.40	4228	<b>2KJ1537 - CE13 - L1</b>		486
	<b>0.36</b>	<b>0.43</b>	8490	1.60	3852	★ <b>2KJ1537 - CE13 - K1</b>		486
	<b>0.39</b>	<b>0.47</b>	7776	1.70	3528	<b>2KJ1537 - CE13 - J1</b>		486
	<b>0.43</b>	<b>0.52</b>	6939	1.90	3148	★ <b>2KJ1537 - CE13 - H1</b>		486
<b>K.148-Z38-LA71M4</b>								
	<b>0.32</b>	<b>0.38</b>	9568	0.84	4341	<b>2KJ1534 - CE13 - L1</b>		296
	<b>0.35</b>	<b>0.42</b>	8717	0.92	3955	<b>2KJ1534 - CE13 - K1</b>		296
	<b>0.38</b>	<b>0.46</b>	7972	1.00	3617	<b>2KJ1534 - CE13 - J1</b>		296
	<b>0.42</b>	<b>0.50</b>	7128	1.10	3234	<b>2KJ1534 - CE13 - H1</b>		296
	<b>0.46</b>	<b>0.55</b>	6546	1.20	2970	<b>2KJ1534 - CE13 - G1</b>		296
	<b>0.51</b>	<b>0.61</b>	5901	1.40	2677	<b>2KJ1534 - CE13 - F1</b>		296
	<b>0.59</b>	<b>0.71</b>	5074	1.60	2302	<b>2KJ1534 - CE13 - E1</b>		296

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

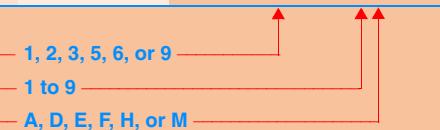
Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque <i>T<sub>2</sub></i> Nm	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm						
<b>0.37 (50 Hz)</b>	<b>K.148-Z38-LA71M4</b>							
0.44 (60 Hz)	<b>0.67</b>	<b>0.80</b>	4525	1.8	2053	<b>2KJ1534 - CE13 - D1</b>		296
	<b>0.73</b>	<b>0.88</b>	4155	1.9	1885	<b>2KJ1534 - CE13 - C1</b>		296
<b>K.128-Z38-LA71M4</b>								
	<b>0.53</b>	<b>0.64</b>	5693	0.83	2583	<b>2KJ1531 - CE13 - F1</b>		201
	<b>0.62</b>	<b>0.74</b>	4895	0.96	2221	★ <b>2KJ1531 - CE13 - E1</b>		201
	<b>0.69</b>	<b>0.83</b>	4366	1.10	1981	<b>2KJ1531 - CE13 - D1</b>		201
	<b>0.75</b>	<b>0.90</b>	4009	1.20	1819	★ <b>2KJ1531 - CE13 - C1</b>		201
	<b>0.84</b>	<b>1.00</b>	3613	1.30	1639	<b>2KJ1531 - CE13 - B1</b>		201
	<b>0.97</b>	<b>1.20</b>	3108	1.50	1410	★ <b>2KJ1531 - CE13 - A1</b>		201
<b>K.128-Z48-LA71M4</b>								
	<b>0.98</b>	<b>1.2</b>	3086	1.5	1400	<b>2KJ1533 - CE13 - P1</b>		210
	<b>1.10</b>	<b>1.3</b>	2830	1.7	1284	<b>2KJ1533 - CE13 - N1</b>		210
	<b>1.20</b>	<b>1.4</b>	2608	1.8	1183	<b>2KJ1533 - CE13 - M1</b>		210
	<b>1.30</b>	<b>1.6</b>	2367	2.0	1074	<b>2KJ1533 - CE13 - L1</b>		210
<b>K.108-Z38-LA71M4</b>								
	<b>0.80</b>	<b>0.96</b>	3758	0.80	1705	<b>2KJ1527 - CE13 - B1</b>		134
	<b>0.94</b>	<b>1.10</b>	3231	0.93	1466	<b>2KJ1527 - CE13 - A1</b>		134
<b>K.108-Z48-LA71M4</b>								
	<b>1.0</b>	<b>1.2</b>	2960	1.0	1343	★ <b>2KJ1530 - CE13 - P1</b>		143
	<b>1.1</b>	<b>1.3</b>	2718	1.1	1233	<b>2KJ1530 - CE13 - N1</b>		143
	<b>1.2</b>	<b>1.4</b>	2504	1.2	1136	★ <b>2KJ1530 - CE13 - M1</b>		143
	<b>1.3</b>	<b>1.6</b>	2272	1.3	1031	<b>2KJ1530 - CE13 - L1</b>		143
	<b>1.5</b>	<b>1.8</b>	2072	1.4	940	★ <b>2KJ1530 - CE13 - K1</b>		143
	<b>1.6</b>	<b>1.9</b>	1898	1.6	861	<b>2KJ1530 - CE13 - J1</b>		143
	<b>1.8</b>	<b>2.2</b>	1693	1.8	768	★ <b>2KJ1530 - CE13 - H1</b>		143
<b>K.108-LA90SA8</b>								
	<b>2.2</b>	<b>2.6</b>	1608	1.8	307.24	<b>2KJ1506 - EB13 - K2-Z</b>	<b>P02</b>	135
	<b>2.4</b>	<b>2.9</b>	1456	1.9	278.10	★ <b>2KJ1506 - EB13 - J2-Z</b>	<b>P02</b>	135
<b>K.88-Z28-LA71M4</b>								
	<b>1.5</b>	<b>1.8</b>	2021	0.82	917	★ <b>2KJ1523 - CE13 - K1</b>		76
	<b>1.7</b>	<b>2.0</b>	1739	0.95	789	<b>2KJ1523 - CE13 - J1</b>		76
	<b>1.9</b>	<b>2.3</b>	1583	1.00	718	★ <b>2KJ1523 - CE13 - H1</b>		76
	<b>2.1</b>	<b>2.5</b>	1437	1.10	652	★ <b>2KJ1523 - CE13 - G1</b>		76
<b>K.88-LA90SA8</b>								
	<b>2.2</b>	<b>2.6</b>	1584	0.97	302.68	★ <b>2KJ1505 - EB13 - M2-Z</b>	<b>P02</b>	81
	<b>2.5</b>	<b>3.0</b>	1429	1.20	272.95	<b>2KJ1505 - EB13 - L2-Z</b>	<b>P02</b>	81
<b>K.88-LA80S6</b>								
	<b>3.0</b>	<b>3.6</b>	1163	1.3	302.68	★ <b>2KJ1505 - DB13 - M2-Z</b>	<b>P01</b>	78
	<b>3.4</b>	<b>4.1</b>	1048	1.6	272.95	<b>2KJ1505 - DB13 - L2-Z</b>	<b>P01</b>	78
	<b>3.7</b>	<b>4.4</b>	945	1.7	246.13	★ <b>2KJ1505 - DB13 - K2-Z</b>	<b>P01</b>	78
	<b>4.3</b>	<b>5.2</b>	827	2.0	215.25	<b>2KJ1505 - DB13 - J2-Z</b>	<b>P01</b>	78
<b>K.88-LA71M4</b>								
	<b>4.5</b>	<b>5.4</b>	781	2.0	302.68	★ <b>2KJ1505 - CE13 - M2</b>		74

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84



# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>0.37 (50 Hz) K.68-LA80S6</b>								
0.44 (60 Hz)	<b>3.8</b>	<b>4.6</b>	936	0.88	243.72	<b>2KJ1504 - □DB13 - □□N2-Z</b>	<b>P01</b>	48
	<b>4.3</b>	<b>5.2</b>	828	0.99	215.68 ★	<b>2KJ1504 - □DB13 - □□M2-Z</b>	<b>P01</b>	48
	<b>4.7</b>	<b>5.6</b>	753	1.10	196.07	<b>2KJ1504 - □DB13 - □□L2-Z</b>	<b>P01</b>	48
	<b>5.2</b>	<b>6.2</b>	677	1.20	176.14 ★	<b>2KJ1504 - □DB13 - □□K2-Z</b>	<b>P01</b>	48
<b>K.68-LA71M4</b>								
	<b>5.6</b>	<b>6.7</b>	629	1.3	243.72	<b>2KJ1504 - □CE13 - □□N2</b>		44
	<b>6.4</b>	<b>7.7</b>	556	1.5	215.68 ★	<b>2KJ1504 - □CE13 - □□M2</b>		44
	<b>7.0</b>	<b>8.4</b>	506	1.6	196.07	<b>2KJ1504 - □CE13 - □□L2</b>		44
	<b>7.8</b>	<b>9.4</b>	454	1.8	176.14 ★	<b>2KJ1504 - □CE13 - □□K2</b>		44
	<b>9.1</b>	<b>10.9</b>	389	2.1	150.98	<b>2KJ1504 - □CE13 - □□J2</b>		44
<b>K.48-LA80S6</b>								
	<b>7.0</b>	<b>8.4</b>	502	0.90	130.78 ★	<b>2KJ1503 - □DB13 - □□G2-Z</b>	<b>P01</b>	29
	<b>7.5</b>	<b>9.0</b>	469	0.96	122.19	<b>2KJ1503 - □DB13 - □□F2-Z</b>	<b>P01</b>	29
<b>K.48-LA71M4</b>								
	<b>8.1</b>	<b>9.7</b>	437	1.0	169.53 ★	<b>2KJ1503 - □CE13 - □□J2</b>		25
	<b>9.1</b>	<b>10.9</b>	389	1.2	150.76	<b>2KJ1503 - □CE13 - □□H2</b>		25
	<b>10.5</b>	<b>12.6</b>	337	1.3	130.78 ★	<b>2KJ1503 - □CE13 - □□G2</b>		25
	<b>11.2</b>	<b>13.4</b>	315	1.4	122.19	<b>2KJ1503 - □CE13 - □□F2</b>		25
	<b>12.7</b>	<b>15.2</b>	277	1.6	107.47 ★	<b>2KJ1503 - □CE13 - □□E2</b>		25
	<b>14.6</b>	<b>17.5</b>	243	1.9	94.12	<b>2KJ1503 - □CE13 - □□D2</b>		25
	<b>16.5</b>	<b>19.8</b>	215	2.1	83.25 ★	<b>2KJ1503 - □CE13 - □□C2</b>		25
	<b>18.2</b>	<b>22.0</b>	195	2.3	75.45	<b>2KJ1503 - □CE13 - □□B2</b>		25
<b>K.38-LA71M4</b>								
	<b>12.4</b>	<b>14.9</b>	286	0.88	110.75 ★	<b>2KJ1502 - □CE13 - □□G2</b>		21
	<b>14.1</b>	<b>16.9</b>	250	1.00	97.05	<b>2KJ1502 - □CE13 - □□F2</b>		21
	<b>16.1</b>	<b>19.3</b>	220	1.10	85.33 ★	<b>2KJ1502 - □CE13 - □□E2</b>		21
	<b>17.8</b>	<b>21.0</b>	199	1.30	77.09	<b>2KJ1502 - □CE13 - □□D2</b>		21
	<b>20.0</b>	<b>24.0</b>	173	1.40	67.18 ★	<b>2KJ1502 - □CE13 - □□C2</b>		21
	<b>23.0</b>	<b>28.0</b>	156	1.60	60.33	<b>2KJ1502 - □CE13 - □□B2</b>		21
	<b>25.0</b>	<b>30.0</b>	140	1.80	54.47 ★	<b>2KJ1502 - □CE13 - □□A2</b>		21
	<b>28.0</b>	<b>34.0</b>	127	2.00	49.38	<b>2KJ1502 - □CE13 - □□X1</b>		21
	<b>30.0</b>	<b>36.0</b>	116	2.20	44.94 ★	<b>2KJ1502 - □CE13 - □□W1</b>		21
	<b>34.0</b>	<b>41.0</b>	102	2.40	39.73	<b>2KJ1502 - □CE13 - □□V1</b>		21
	<b>37.0</b>	<b>44.0</b>	95	2.60	36.69 ★	<b>2KJ1502 - □CE13 - □□U1</b>		21
<b>B.38-LA80S6</b>								
	<b>16.1</b>	<b>19.3</b>	219	1.1	57.04	<b>2KJ1501 - □DB13 - □□T2-Z</b>	<b>P01</b>	27
	<b>18.1</b>	<b>22.0</b>	195	1.3	50.72	<b>2KJ1501 - □DB13 - □□S2-Z</b>	<b>P01</b>	27
<b>B.38-LA71M4</b>								
	<b>21</b>	<b>25</b>	169	1.5	65.69	<b>2KJ1501 - □CE13 - □□U2</b>		23
	<b>24</b>	<b>29</b>	147	1.7	57.04	<b>2KJ1501 - □CE13 - □□T2</b>		23
	<b>27</b>	<b>32</b>	131	1.9	50.72	<b>2KJ1501 - □CE13 - □□S2</b>		23
	<b>31</b>	<b>37</b>	113	2.2	44.00	<b>2KJ1501 - □CE13 - □□R2</b>		23
	<b>33</b>	<b>40</b>	106	2.4	41.11	<b>2KJ1501 - □CE13 - □□Q2</b>		23

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
<b>0.37 (50 Hz)</b>	<b>B.28-LA71M4</b>							
0.44 (60 Hz)	<b>24</b>	<b>29</b>	148	0.88	57.53	<b>2KJ1500 - □CE13 - □□D2</b>		11
	<b>28</b>	<b>34</b>	125	1.00	48.51	<b>2KJ1500 - □CE13 - □□C2</b>		11
	<b>32</b>	<b>38</b>	111	1.20	43.07	<b>2KJ1500 - □CE13 - □□B2</b>		11
	<b>36</b>	<b>43</b>	97	1.30	37.76	<b>2KJ1500 - □CE13 - □□A2</b>		11
	<b>40</b>	<b>48</b>	87	1.50	33.79	<b>2KJ1500 - □CE13 - □□X1</b>		11
	<b>46</b>	<b>55</b>	77	1.70	29.99	<b>2KJ1500 - □CE13 - □□W1</b>		11
	<b>52</b>	<b>62</b>	68	1.90	26.28	<b>2KJ1500 - □CE13 - □□V1</b>		11
	<b>59</b>	<b>71</b>	60	2.20	23.11	<b>2KJ1500 - □CE13 - □□U1</b>		11
	<b>66</b>	<b>79</b>	54	2.40	20.87	<b>2KJ1500 - □CE13 - □□T1</b>		11
	<b>75</b>	<b>90</b>	47	2.80	18.19	<b>2KJ1500 - □CE13 - □□S1</b>		11
	<b>84</b>	<b>101</b>	42	3.10	16.34	<b>2KJ1500 - □CE13 - □□R1</b>		11
	<b>93</b>	<b>112</b>	38	3.40	14.75	<b>2KJ1500 - □CE13 - □□Q1</b>		11
<b>0.55 (50 Hz)</b>	<b>K.188-Z68-LA71ZMP4</b>							
0.66 (60 Hz)	<b>0.19</b>	<b>0.23</b>	24264	0.82	7224	★ <b>2KJ1541 - □CG13 - □□V1</b>		747
	<b>0.21</b>	<b>0.25</b>	22162	0.90	6598	<b>2KJ1541 - □CG13 - □□U1</b>		747
	<b>0.23</b>	<b>0.28</b>	19666	1.00	5855	★ <b>2KJ1541 - □CG13 - □□T1</b>		747
	<b>0.25</b>	<b>0.30</b>	18154	1.10	5405	<b>2KJ1541 - □CG13 - □□S1</b>		747
	<b>0.28</b>	<b>0.34</b>	16421	1.20	4889	★ <b>2KJ1541 - □CG13 - □□R1</b>		747
	<b>0.30</b>	<b>0.36</b>	15121	1.30	4502	<b>2KJ1541 - □CG13 - □□Q1</b>		747
	<b>0.33</b>	<b>0.40</b>	13983	1.40	4163	★ <b>2KJ1541 - □CG13 - □□P1</b>		747
	<b>0.36</b>	<b>0.43</b>	12982	1.50	3865	<b>2KJ1541 - □CG13 - □□N1</b>		747
	<b>0.40</b>	<b>0.48</b>	11454	1.70	3410	★ <b>2KJ1541 - □CG13 - □□M1</b>		747
	<b>0.44</b>	<b>0.53</b>	10574	1.90	3148	<b>2KJ1541 - □CG13 - □□L1</b>		747
<b>K.168-Z48-LA71ZMP4</b>								
	<b>0.27</b>	<b>0.32</b>	16972	0.80	5053	<b>2KJ1537 - □CG13 - □□N1</b>		486
	<b>0.29</b>	<b>0.35</b>	15639	0.86	4656	★ <b>2KJ1537 - □CG13 - □□M1</b>		486
	<b>0.33</b>	<b>0.40</b>	14201	0.95	4228	<b>2KJ1537 - □CG13 - □□L1</b>		486
	<b>0.36</b>	<b>0.43</b>	12938	1.00	3852	★ <b>2KJ1537 - □CG13 - □□K1</b>		486
	<b>0.39</b>	<b>0.47</b>	11850	1.10	3528	<b>2KJ1537 - □CG13 - □□J1</b>		486
	<b>0.44</b>	<b>0.53</b>	10574	1.30	3148	★ <b>2KJ1537 - □CG13 - □□H1</b>		486
<b>K.148-Z38-LA71ZMP4</b>								
	<b>0.46</b>	<b>0.55</b>	9976	0.80	2970	<b>2KJ1534 - □CG13 - □□G1</b>		296
	<b>0.51</b>	<b>0.61</b>	8992	0.89	2677	<b>2KJ1534 - □CG13 - □□F1</b>		296
	<b>0.60</b>	<b>0.72</b>	7732	1.00	2302	<b>2KJ1534 - □CG13 - □□E1</b>		296
	<b>0.67</b>	<b>0.80</b>	6896	1.20	2053	<b>2KJ1534 - □CG13 - □□D1</b>		296
	<b>0.73</b>	<b>0.88</b>	6331	1.30	1885	<b>2KJ1534 - □CG13 - □□C1</b>		296
	<b>0.81</b>	<b>0.97</b>	5707	1.40	1699	<b>2KJ1534 - □CG13 - □□B1</b>		296
	<b>0.94</b>	<b>1.10</b>	4907	1.60	1461	<b>2KJ1534 - □CG13 - □□A1</b>		296
<b>K.148-Z68-LA71ZMP4</b>								
	<b>0.99</b>	<b>1.2</b>	4675	1.7	1392	<b>2KJ1536 - □CG13 - □□L1</b>		322
	<b>1.10</b>	<b>1.3</b>	4188	1.9	1247	★ <b>2KJ1536 - □CG13 - □□K1</b>		322
<b>K.128-Z38-LA71ZMP4</b>								
	<b>0.84</b>	<b>1.0</b>	5505	0.85	1639	<b>2KJ1531 - □CG13 - □□B1</b>		201

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9  
1 to 9  
A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>0.55 (50 Hz) K.128-Z38-LA71ZMP4</b>								
0.66 (60 Hz)	<b>0.97</b>	<b>1.2</b>	4736	0.99	1410	★ 2KJ1531 - ■ CG13 - ■■■ A1		201
	<b>0.98</b>	<b>1.2</b>	4702	1.00	1400	2KJ1533 - ■ CG13 - ■■■ P1		210
	<b>1.10</b>	<b>1.3</b>	4313	1.10	1284	2KJ1533 - ■ CG13 - ■■■ N1		210
	<b>1.20</b>	<b>1.4</b>	3973	1.20	1183	2KJ1533 - ■ CG13 - ■■■ M1		210
	<b>1.30</b>	<b>1.6</b>	3607	1.30	1074	2KJ1533 - ■ CG13 - ■■■ L1		210
	<b>1.40</b>	<b>1.7</b>	3288	1.40	979	2KJ1533 - ■ CG13 - ■■■ K1		210
	<b>1.50</b>	<b>1.8</b>	3013	1.60	897	2KJ1533 - ■ CG13 - ■■■ J1		210
	<b>1.70</b>	<b>2.0</b>	2687	1.70	800	2KJ1533 - ■ CG13 - ■■■ H1		210
<b>K.128-LA90LA8</b>								
	<b>2.3</b>	<b>2.8</b>	2298	2.00	295.38	★ 2KJ1507 - ■ EE13 - ■■■ L2-Z	P02	209
<b>K.108-Z48-LA71ZMP4</b>								
	<b>1.3</b>	<b>1.6</b>	3463	0.87	1031	2KJ1530 - ■ CG13 - ■■■ L1		143
	<b>1.5</b>	<b>1.8</b>	3157	0.95	940	★ 2KJ1530 - ■ CG13 - ■■■ K1		143
	<b>1.6</b>	<b>1.9</b>	2892	1.00	861	2KJ1530 - ■ CG13 - ■■■ J1		143
	<b>1.8</b>	<b>2.2</b>	2580	1.20	768	★ 2KJ1530 - ■ CG13 - ■■■ H1		143
<b>K.108-LA90LA8</b>								
	<b>2.2</b>	<b>2.6</b>	2391	1.2	307.24	2KJ1506 - ■ EE13 - ■■■ K2-Z	P02	138
	<b>2.4</b>	<b>2.9</b>	2164	1.3	278.10	★ 2KJ1506 - ■ EE13 - ■■■ J2-Z	P02	138
	<b>2.8</b>	<b>3.4</b>	1895	1.6	243.47	2KJ1506 - ■ EE13 - ■■■ H2-Z	P02	138
<b>K.108-LA80M6</b>								
	<b>3.0</b>	<b>3.6</b>	1773	1.6	307.24	2KJ1506 - ■ DC13 - ■■■ K2-Z	P01	132
	<b>3.3</b>	<b>4.0</b>	1605	1.8	278.10	★ 2KJ1506 - ■ DC13 - ■■■ J2-Z	P01	132
<b>K.88-LA80M6</b>								
	<b>3.0</b>	<b>3.6</b>	1747	0.88	302.68	★ 2KJ1505 - ■ DC13 - ■■■ M2-Z	P01	78
	<b>3.3</b>	<b>4.0</b>	1575	1.00	272.95	2KJ1505 - ■ DC13 - ■■■ L2-Z	P01	78
	<b>3.7</b>	<b>4.4</b>	1421	1.20	246.13	★ 2KJ1505 - ■ DC13 - ■■■ K2-Z	P01	78
	<b>4.2</b>	<b>5.0</b>	1242	1.30	215.25	2KJ1505 - ■ DC13 - ■■■ J2-Z	P01	78
<b>K.88-LA71ZMP4</b>								
	<b>4.5</b>	<b>5.4</b>	1156	1.3	302.68	★ 2KJ1505 - ■ CG13 - ■■■ M2		74
	<b>5.0</b>	<b>6.0</b>	1043	1.6	272.95	2KJ1505 - ■ CG13 - ■■■ L2		74
	<b>5.6</b>	<b>6.7</b>	940	1.8	246.13	★ 2KJ1505 - ■ CG13 - ■■■ K2		74
	<b>6.4</b>	<b>7.7</b>	822	2.0	215.25	2KJ1505 - ■ CG13 - ■■■ J2		74
<b>K.68-LA80M6</b>								
	<b>5.2</b>	<b>6.2</b>	1017	0.81	176.14	★ 2KJ1504 - ■ DC13 - ■■■ K2-Z	P01	48
<b>K.68-LA71ZMP4</b>								
	<b>5.6</b>	<b>6.7</b>	931	0.88	243.72	2KJ1504 - ■ CG13 - ■■■ N2		44
	<b>6.4</b>	<b>7.7</b>	824	1.00	215.68	★ 2KJ1504 - ■ CG13 - ■■■ M2		44
	<b>7.0</b>	<b>8.4</b>	749	1.10	196.07	2KJ1504 - ■ CG13 - ■■■ L2		44
	<b>7.8</b>	<b>9.4</b>	673	1.20	176.14	★ 2KJ1504 - ■ CG13 - ■■■ K2		44
	<b>9.1</b>	<b>10.9</b>	577	1.40	150.98	2KJ1504 - ■ CG13 - ■■■ J2		44
	<b>10.1</b>	<b>12.1</b>	522	1.60	136.60	★ 2KJ1504 - ■ CG13 - ■■■ H2		44
	<b>10.9</b>	<b>13.1</b>	482	1.70	126.09	2KJ1504 - ■ CG13 - ■■■ G2		44
	<b>12.5</b>	<b>15.0</b>	419	2.00	109.64	★ 2KJ1504 - ■ CG13 - ■■■ F2		44
	<b>13.8</b>	<b>16.6</b>	380	2.20	99.55	2KJ1504 - ■ CG13 - ■■■ E2		44

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque <i>T<sub>2</sub></i> Nm	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm						
<b>0.55 (50 Hz) K.48-LA71ZMP4</b>								
0.66 (60 Hz)	10.5	12.6	500	0.90	130.78	★ 2KJ1503 - ■ CG13 - ■■■ G2		25
	11.3	13.6	467	0.96	122.19	2KJ1503 - ■ CG13 - ■■■ F2		25
	12.8	15.4	411	1.10	107.47	★ 2KJ1503 - ■ CG13 - ■■■ E2		25
	14.6	17.5	360	1.30	94.12	2KJ1503 - ■ CG13 - ■■■ D2		25
	16.5	19.8	318	1.40	83.25	★ 2KJ1503 - ■ CG13 - ■■■ C2		25
	18.2	22.0	288	1.60	75.45	2KJ1503 - ■ CG13 - ■■■ B2		25
	21.0	25.0	254	1.80	66.60	★ 2KJ1503 - ■ CG13 - ■■■ A2		25
	23.0	28.0	230	2.00	60.08	2KJ1503 - ■ CG13 - ■■■ X1		25
	25.0	30.0	208	2.20	54.49	★ 2KJ1503 - ■ CG13 - ■■■ W1		25
	28.0	34.0	190	2.40	49.65	2KJ1503 - ■ CG13 - ■■■ V1		25
<b>K.38-LA71ZMP4</b>								
0.66 (60 Hz)	17.8	21	294	0.85	77.09	2KJ1502 - ■ CG13 - ■■■ D2		21
	20.0	24	257	0.97	67.18	★ 2KJ1502 - ■ CG13 - ■■■ C2		21
	23.0	28	230	1.10	60.33	2KJ1502 - ■ CG13 - ■■■ B2		21
	25.0	30	208	1.20	54.47	★ 2KJ1502 - ■ CG13 - ■■■ A2		21
	28.0	34	189	1.30	49.38	2KJ1502 - ■ CG13 - ■■■ X1		21
	31.0	37	172	1.50	44.94	★ 2KJ1502 - ■ CG13 - ■■■ W1		21
	35.0	42	152	1.60	39.73	2KJ1502 - ■ CG13 - ■■■ V1		21
	38.0	46	140	1.80	36.69	★ 2KJ1502 - ■ CG13 - ■■■ U1		21
	44.0	53	121	2.10	31.59	2KJ1502 - ■ CG13 - ■■■ T1		21
	48.0	58	110	2.30	28.72	★ 2KJ1502 - ■ CG13 - ■■■ S1		21
	51.0	61	103	2.10	26.90	★ 2KJ1502 - ■ CG13 - ■■■ R1		21
	57.0	68	92	2.30	24.16	2KJ1502 - ■ CG13 - ■■■ Q1		21
	63.0	76	83	2.40	21.81	★ 2KJ1502 - ■ CG13 - ■■■ P1		21
	70.0	84	76	2.60	19.78	2KJ1502 - ■ CG13 - ■■■ N1		21
	76.0	91	69	2.80	17.99	★ 2KJ1502 - ■ CG13 - ■■■ M1		21
	86.0	103	61	3.00	15.91	2KJ1502 - ■ CG13 - ■■■ L1		21
	94.0	113	56	3.20	14.69	★ 2KJ1502 - ■ CG13 - ■■■ K1		21
	109.0	131	48	3.60	12.65	2KJ1502 - ■ CG13 - ■■■ J1		21
<b>B.38-LA80M6</b>								
0.66 (60 Hz)	17.9	21	293	0.85	50.72	2KJ1501 - ■ DC13 - ■■■ S2-Z	P01	27
	<b>B.38-LA71ZMP4</b>							
0.66 (60 Hz)	21	25	251	1.0	65.69	2KJ1501 - ■ CG13 - ■■■ U2		23
	24	29	218	1.1	57.04	2KJ1501 - ■ CG13 - ■■■ T2		23
	27	32	194	1.3	50.72	2KJ1501 - ■ CG13 - ■■■ S2		23
	31	37	168	1.5	44.00	2KJ1501 - ■ CG13 - ■■■ R2		23
	33	40	157	1.6	41.11	2KJ1501 - ■ CG13 - ■■■ Q2		23
	38	46	138	1.8	36.16	2KJ1501 - ■ CG13 - ■■■ P2		23
	43	52	121	2.1	31.67	2KJ1501 - ■ CG13 - ■■■ N2		23
	49	59	107	2.3	28.01	2KJ1501 - ■ CG13 - ■■■ M2		23
	54	65	97	2.6	25.38	2KJ1501 - ■ CG13 - ■■■ L2		23
	61	73	86	2.8	22.41	2KJ1501 - ■ CG13 - ■■■ K2		23
	68	82	77	3.0	20.22	2KJ1501 - ■ CG13 - ■■■ J2		23
	75	90	70	3.2	18.33	2KJ1501 - ■ CG13 - ■■■ H2		23

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>0.55 (50 Hz) B.28-LA71ZMP4</b>								
0.66 (60 Hz)	36	43	144	0.9	37.76	2KJ1500 - ■■CG13 - ■■■A2		11
	41	49	129	1.0	33.79	2KJ1500 - ■■CG13 - ■■■X1		11
	46	55	115	1.1	29.99	2KJ1500 - ■■CG13 - ■■■W1		11
	52	62	100	1.3	26.28	2KJ1500 - ■■CG13 - ■■■V1		11
	60	72	88	1.5	23.11	2KJ1500 - ■■CG13 - ■■■U1		11
	66	79	80	1.6	20.87	2KJ1500 - ■■CG13 - ■■■T1		11
	76	91	70	1.9	18.19	2KJ1500 - ■■CG13 - ■■■S1		11
	84	101	62	2.1	16.34	2KJ1500 - ■■CG13 - ■■■R1		11
	93	112	56	2.3	14.75	2KJ1500 - ■■CG13 - ■■■Q1		11
	103	124	51	2.5	13.38	2KJ1500 - ■■CG13 - ■■■P1		11
	113	136	46	2.8	12.17	2KJ1500 - ■■CG13 - ■■■N1		11
	128	154	41	3.2	10.76	2KJ1500 - ■■CG13 - ■■■M1		11
	138	166	38	3.4	9.94	2KJ1500 - ■■CG13 - ■■■L1		11
	161	193	33	3.7	8.56	2KJ1500 - ■■CG13 - ■■■K1		11
	177	212	30	3.9	7.78	2KJ1500 - ■■CG13 - ■■■J1		11
	184	221	29	3.1	7.49	2KJ1500 - ■■CG13 - ■■■H1		11
	203	244	26	3.5	6.76	2KJ1500 - ■■CG13 - ■■■G1		11
	224	269	23	3.8	6.13	2KJ1500 - ■■CG13 - ■■■F1		11
	246	295	21	4.2	5.58	2KJ1500 - ■■CG13 - ■■■E1		11
	278	334	19	4.8	4.94	2KJ1500 - ■■CG13 - ■■■D1		11
	302	362	17	5.0	4.56	2KJ1500 - ■■CG13 - ■■■C1		11
<b>0.75 (50 Hz) K.188-Z68-LA80M4</b>								
0.90 (60 Hz)	0.26	0.31	24777	0.81	5405	2KJ1541 - ■■DC13 - ■■■S1		751
	0.28	0.34	22411	0.89	4889	★ 2KJ1541 - ■■DC13 - ■■■R1		751
	0.31	0.37	20637	0.97	4502	2KJ1541 - ■■DC13 - ■■■Q1		751
	0.34	0.41	19083	1.00	4163	★ 2KJ1541 - ■■DC13 - ■■■P1		751
	0.36	0.43	17717	1.10	3865	2KJ1541 - ■■DC13 - ■■■N1		751
	0.41	0.49	15631	1.30	3410	★ 2KJ1541 - ■■DC13 - ■■■M1		751
	0.44	0.53	14430	1.40	3148	2KJ1541 - ■■DC13 - ■■■L1		751
	0.49	0.59	12931	1.50	2821	★ 2KJ1541 - ■■DC13 - ■■■K1		751
	0.54	0.65	11923	1.70	2601	2KJ1541 - ■■DC13 - ■■■J1		751
	0.64	0.77	10002	2.00	2182	2KJ1541 - ■■DC13 - ■■■H1		751
<b>K.168-Z48-LA80M4</b>								
	0.40	0.48	16172	0.83	3528	2KJ1537 - ■■DC13 - ■■■J1		490
	0.44	0.53	14430	0.94	3148	★ 2KJ1537 - ■■DC13 - ■■■H1		490
	0.50	0.60	12881	1.00	2810	2KJ1537 - ■■DC13 - ■■■G1		490
	0.58	0.70	10937	1.20	2386	2KJ1537 - ■■DC13 - ■■■F1		490
	0.70	0.84	9104	1.50	1986	★ 2KJ1537 - ■■DC13 - ■■■E1		490
	0.71	0.85	8962	1.50	1955	★ 2KJ1537 - ■■DC13 - ■■■D1		490
	0.80	0.96	7999	1.70	1745	2KJ1537 - ■■DC13 - ■■■C1		490
	0.94	1.10	6793	2.00	1482	2KJ1537 - ■■DC13 - ■■■B1		490

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque <i>T<sub>2</sub></i> Nm	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm						
<b>0.75 (50 Hz)</b>	<b>K.148-Z38-LA80M4</b>							
0.90 (60 Hz)	<b>0.68</b>	<b>0.82</b>	9411	0.85	2053	<b>2KJ1534 - ■ DC13 - ■■■ D1</b>		300
	<b>0.74</b>	<b>0.89</b>	8641	0.93	1885	<b>2KJ1534 - ■ DC13 - ■■■ C1</b>		300
	<b>0.82</b>	<b>0.98</b>	7788	1.00	1699	<b>2KJ1534 - ■ DC13 - ■■■ B1</b>		300
	<b>0.95</b>	<b>1.10</b>	6697	1.20	1461	<b>2KJ1534 - ■ DC13 - ■■■ A1</b>		300
<b>K.148-Z68-LA80M4</b>								
	<b>1.0</b>	<b>1.2</b>	6381	1.3	1392	<b>2KJ1536 - ■ DC13 - ■■■ L1</b>		326
	<b>1.1</b>	<b>1.3</b>	5716	1.4	1247	★ <b>2KJ1536 - ■ DC13 - ■■■ K1</b>		326
	<b>1.2</b>	<b>1.4</b>	5272	1.5	1150	<b>2KJ1536 - ■ DC13 - ■■■ J1</b>		326
	<b>1.4</b>	<b>1.7</b>	4424	1.8	965	<b>2KJ1536 - ■ DC13 - ■■■ H1</b>		326
<b>K.128-Z48-LA80M4</b>								
	<b>1.1</b>	<b>1.3</b>	5886	0.80	1284	<b>2KJ1533 - ■ DC13 - ■■■ N1</b>		214
	<b>1.2</b>	<b>1.4</b>	5423	0.87	1183	<b>2KJ1533 - ■ DC13 - ■■■ M1</b>		214
	<b>1.3</b>	<b>1.6</b>	4923	0.95	1074	<b>2KJ1533 - ■ DC13 - ■■■ L1</b>		214
	<b>1.4</b>	<b>1.7</b>	4488	1.00	979	<b>2KJ1533 - ■ DC13 - ■■■ K1</b>		214
	<b>1.6</b>	<b>1.9</b>	4112	1.10	897	<b>2KJ1533 - ■ DC13 - ■■■ J1</b>		214
	<b>1.7</b>	<b>2.0</b>	3667	1.30	800	<b>2KJ1533 - ■ DC13 - ■■■ H1</b>		214
	<b>2.0</b>	<b>2.4</b>	3273	1.40	714	<b>2KJ1533 - ■ DC13 - ■■■ G1</b>		214
<b>K.128-LA100LA8</b>								
	<b>2.3</b>	<b>2.8</b>	3111	1.5	295.38	★ <b>2KJ1507 - ■ FB13 - ■■■ L2-Z</b>	<b>P02</b>	217
	<b>2.5</b>	<b>3.0</b>	2853	1.6	270.90	<b>2KJ1507 - ■ FB13 - ■■■ K2-Z</b>	<b>P02</b>	217
	<b>2.8</b>	<b>3.4</b>	2549	1.8	242.02	★ <b>2KJ1507 - ■ FB13 - ■■■ J2-Z</b>	<b>P02</b>	217
<b>K.128-LA90S6</b>								
	<b>3.1</b>	<b>3.7</b>	2312	2.0	295.38	★ <b>2KJ1507 - ■ EC13 - ■■■ L2-Z</b>	<b>P01</b>	206
<b>K.108-Z48-LA80M4</b>								
	<b>1.8</b>	<b>2.2</b>	3521	0.85	768.00	★ <b>2KJ1530 - ■ DC13 - ■■■ H1</b>		147
	<b>2.0</b>	<b>2.4</b>	3140	0.96	685.00	<b>2KJ1530 - ■ DC13 - ■■■ G1</b>		147
<b>K.108-LA100LA8</b>								
	<b>2.8</b>	<b>3.4</b>	2564	1.2	243.47	<b>2KJ1506 - ■ FB13 - ■■■ H2-Z</b>	<b>P02</b>	146
<b>K.108-LA90S6</b>								
	<b>3.0</b>	<b>3.6</b>	2405	1.2	307.24	<b>2KJ1506 - ■ EC13 - ■■■ K2-Z</b>	<b>P01</b>	135
	<b>3.3</b>	<b>4.0</b>	2177	1.3	278.10	★ <b>2KJ1506 - ■ EC13 - ■■■ J2-Z</b>	<b>P01</b>	135
	<b>3.8</b>	<b>4.6</b>	1906	1.6	243.47	<b>2KJ1506 - ■ EC13 - ■■■ H2-Z</b>	<b>P01</b>	135
	<b>4.2</b>	<b>5.0</b>	1719	1.7	219.64	★ <b>2KJ1506 - ■ EC13 - ■■■ G2-Z</b>	<b>P01</b>	135
<b>K.108-LA80M4</b>								
	<b>4.5</b>	<b>5.4</b>	1577	1.8	307.24	<b>2KJ1506 - ■ DC13 - ■■■ K2</b>		132
	<b>5.0</b>	<b>6.0</b>	1428	2.0	278.10	★ <b>2KJ1506 - ■ DC13 - ■■■ J2</b>		132
<b>K.88-LA90S6</b>								
	<b>3.7</b>	<b>4.4</b>	1927	0.86	246.13	★ <b>2KJ1505 - ■ EC13 - ■■■ K2-Z</b>	<b>P01</b>	81
	<b>4.3</b>	<b>5.2</b>	1685	0.98	215.25	<b>2KJ1505 - ■ EC13 - ■■■ J2-Z</b>	<b>P01</b>	81
<b>K.88-LA80M4</b>								
	<b>4.6</b>	<b>5.5</b>	1554	0.99	302.68	★ <b>2KJ1505 - ■ DC13 - ■■■ M2</b>		78
	<b>5.1</b>	<b>6.1</b>	1401	1.20	272.95	<b>2KJ1505 - ■ DC13 - ■■■ L2</b>		78
	<b>5.7</b>	<b>6.8</b>	1264	1.30	246.13	★ <b>2KJ1505 - ■ DC13 - ■■■ K2</b>		78
	<b>6.5</b>	<b>7.8</b>	1105	1.50	215.25	<b>2KJ1505 - ■ DC13 - ■■■ J2</b>		78

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9  
1 to 9  
A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>0.75 (50 Hz) K.88-LA80M4</b>								
0.90 (60 Hz)	<b>7.2</b>	<b>8.6</b>	992	1.7	193.24 ★	<b>2KJ1505 - DC13 - H2</b>		78
	<b>7.9</b>	<b>9.5</b>	906	1.8	176.50	<b>2KJ1505 - DC13 - G2</b>		78
	<b>8.9</b>	<b>10.7</b>	804	2.1	156.63 ★	<b>2KJ1505 - DC13 - F2</b>		78
<b>K.68-LA80M4</b>								
	<b>7.1</b>	<b>8.5</b>	1007	0.81	196.07	<b>2KJ1504 - DC13 - L2</b>		48
	<b>7.9</b>	<b>9.5</b>	904	0.91	176.14 ★	<b>2KJ1504 - DC13 - K2</b>		48
	<b>9.2</b>	<b>11.0</b>	775	1.10	150.98	<b>2KJ1504 - DC13 - J2</b>		48
	<b>10.2</b>	<b>12.2</b>	701	1.20	136.60 ★	<b>2KJ1504 - DC13 - H2</b>		48
	<b>11.1</b>	<b>13.3</b>	647	1.30	126.09	<b>2KJ1504 - DC13 - G2</b>		48
	<b>12.7</b>	<b>15.2</b>	563	1.50	109.64 ★	<b>2KJ1504 - DC13 - F2</b>		48
	<b>14.0</b>	<b>16.8</b>	511	1.60	99.55	<b>2KJ1504 - DC13 - E2</b>		48
	<b>15.3</b>	<b>18.4</b>	467	1.80	90.89 ★	<b>2KJ1504 - DC13 - D2</b>		48
	<b>16.7</b>	<b>20.0</b>	428	1.90	83.40	<b>2KJ1504 - DC13 - C2</b>		48
	<b>18.2</b>	<b>22.0</b>	395	2.10	76.84 ★	<b>2KJ1504 - DC13 - B2</b>		48
	<b>20.0</b>	<b>24.0</b>	358	2.30	69.78	<b>2KJ1504 - DC13 - A2</b>		48
<b>K.48-LA80M4</b>								
	<b>13.0</b>	<b>15.6</b>	552	0.82	107.47 ★	<b>2KJ1503 - DC13 - E2</b>		29
	<b>14.8</b>	<b>17.8</b>	483	0.93	94.12	<b>2KJ1503 - DC13 - D2</b>		29
	<b>16.8</b>	<b>20.0</b>	427	1.10	83.25 ★	<b>2KJ1503 - DC13 - C2</b>		29
	<b>18.5</b>	<b>22.0</b>	387	1.20	75.45	<b>2KJ1503 - DC13 - B2</b>		29
	<b>21.0</b>	<b>25.0</b>	342	1.30	66.60 ★	<b>2KJ1503 - DC13 - A2</b>		29
	<b>23.0</b>	<b>28.0</b>	308	1.50	60.08	<b>2KJ1503 - DC13 - X1</b>		29
	<b>26.0</b>	<b>31.0</b>	280	1.60	54.49 ★	<b>2KJ1503 - DC13 - W1</b>		29
	<b>28.0</b>	<b>34.0</b>	255	1.80	49.65	<b>2KJ1503 - DC13 - V1</b>		29
	<b>31.0</b>	<b>37.0</b>	233	1.90	45.41 ★	<b>2KJ1503 - DC13 - U1</b>		29
	<b>34.0</b>	<b>41.0</b>	208	2.20	40.60	<b>2KJ1503 - DC13 - T1</b>		29
	<b>37.0</b>	<b>44.0</b>	191	2.40	37.28 ★	<b>2KJ1503 - DC13 - S1</b>		29
	<b>42.0</b>	<b>50.0</b>	173	2.60	33.60	<b>2KJ1503 - DC13 - R1</b>		29
<b>K.38-LA80M4</b>								
	<b>23</b>	<b>28</b>	310	0.81	60.33	<b>2KJ1502 - DC13 - B2</b>		25
	<b>26</b>	<b>31</b>	280	0.89	54.47 ★	<b>2KJ1502 - DC13 - A2</b>		25
	<b>28</b>	<b>34</b>	254	0.99	49.38	<b>2KJ1502 - DC13 - X1</b>		25
	<b>31</b>	<b>37</b>	231	1.10	44.94 ★	<b>2KJ1502 - DC13 - W1</b>		25
	<b>35</b>	<b>42</b>	204	1.20	39.73	<b>2KJ1502 - DC13 - V1</b>		25
	<b>38</b>	<b>46</b>	188	1.30	36.69 ★	<b>2KJ1502 - DC13 - U1</b>		25
	<b>44</b>	<b>53</b>	162	1.50	31.59	<b>2KJ1502 - DC13 - T1</b>		25
	<b>49</b>	<b>59</b>	147	1.70	28.72 ★	<b>2KJ1502 - DC13 - S1</b>		25
	<b>52</b>	<b>62</b>	138	1.60	26.90 ★	<b>2KJ1502 - DC13 - R1</b>		25
	<b>58</b>	<b>70</b>	124	1.70	24.16	<b>2KJ1502 - DC13 - Q1</b>		25
	<b>64</b>	<b>77</b>	112	1.80	21.81 ★	<b>2KJ1502 - DC13 - P1</b>		25
	<b>70</b>	<b>84</b>	102	1.90	19.78	<b>2KJ1502 - DC13 - N1</b>		25
	<b>78</b>	<b>94</b>	92	2.10	17.99 ★	<b>2KJ1502 - DC13 - M1</b>		25
	<b>88</b>	<b>106</b>	82	2.30	15.91	<b>2KJ1502 - DC13 - L1</b>		25
	<b>95</b>	<b>114</b>	75	2.40	14.69 ★	<b>2KJ1502 - DC13 - K1</b>		25

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque <i>T</i> <sub>2</sub> Nm	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm						
<b>0.75 (50 Hz) K.38-LA80M4</b>								
0.90 (60 Hz)	110	132	65	2.6	12.65	2KJ1502 - ■ DC13 - ■■■ J1		25
	121	145	59	2.8	11.50 ★	2KJ1502 - ■ DC13 - ■■■ H1		25
	130	156	55	2.9	10.72 ★	2KJ1502 - ■ DC13 - ■■■ G1		25
	144	173	50	3.2	9.72	2KJ1502 - ■ DC13 - ■■■ F1		25
	158	190	45	3.5	8.85 ★	2KJ1502 - ■ DC13 - ■■■ E1		25
	178	214	40	4.0	7.82	2KJ1502 - ■ DC13 - ■■■ D1		25
	193	232	37	4.3	7.22 ★	2KJ1502 - ■ DC13 - ■■■ C1		25
<b>B.38-LA80M4</b>								
	24	29	293	0.85	57.04	2KJ1501 - ■ DC13 - ■■■ T2		27
	28	34	260	0.96	50.72	2KJ1501 - ■ DC13 - ■■■ S2		27
	32	38	226	1.10	44.00	2KJ1501 - ■ DC13 - ■■■ R2		27
	34	41	211	1.20	41.11	2KJ1501 - ■ DC13 - ■■■ Q2		27
	39	47	186	1.30	36.16	2KJ1501 - ■ DC13 - ■■■ P2		27
	44	53	163	1.50	31.67	2KJ1501 - ■ DC13 - ■■■ N2		27
	50	60	144	1.70	28.01	2KJ1501 - ■ DC13 - ■■■ M2		27
	55	66	130	1.90	25.38	2KJ1501 - ■ DC13 - ■■■ L2		27
	62	74	115	2.10	22.41	2KJ1501 - ■ DC13 - ■■■ K2		27
	69	83	104	2.20	20.22	2KJ1501 - ■ DC13 - ■■■ J2		27
	76	91	94	2.40	18.33	2KJ1501 - ■ DC13 - ■■■ H2		27
	84	101	86	2.60	16.70	2KJ1501 - ■ DC13 - ■■■ G2		27
	91	109	78	2.70	15.28	2KJ1501 - ■ DC13 - ■■■ F2		27
	102	122	70	3.00	13.66	2KJ1501 - ■ DC13 - ■■■ E2		27
	112	134	64	3.40	12.50	2KJ1501 - ■ DC13 - ■■■ C2		27
<b>B.28-LA71ZMD4</b>								
	46	55	156	0.83	29.99	2KJ1500 - ■ CH13 - ■■■ W1		11
	52	62	137	0.95	26.28	2KJ1500 - ■ CH13 - ■■■ V1		11
	60	72	120	1.10	23.11	2KJ1500 - ■ CH13 - ■■■ U1		11
	66	79	109	1.20	20.87	2KJ1500 - ■ CH13 - ■■■ T1		11
	76	91	95	1.40	18.19	2KJ1500 - ■ CH13 - ■■■ S1		11
	84	101	85	1.50	16.34	2KJ1500 - ■ CH13 - ■■■ R1		11
	93	112	77	1.70	14.75	2KJ1500 - ■ CH13 - ■■■ Q1		11
	103	124	70	1.90	13.38	2KJ1500 - ■ CH13 - ■■■ P1		11
	113	136	63	2.10	12.17	2KJ1500 - ■ CH13 - ■■■ N1		11
	128	154	56	2.30	10.76	2KJ1500 - ■ CH13 - ■■■ M1		11
	138	166	52	2.50	9.94	2KJ1500 - ■ CH13 - ■■■ L1		11
	161	193	45	2.70	8.56	2KJ1500 - ■ CH13 - ■■■ K1		11
	177	212	40	2.90	7.78	2KJ1500 - ■ CH13 - ■■■ J1		11
	184	221	39	2.30	7.49	2KJ1500 - ■ CH13 - ■■■ H1		11
	203	244	35	2.60	6.76	2KJ1500 - ■ CH13 - ■■■ G1		11
	224	269	32	2.80	6.13	2KJ1500 - ■ CH13 - ■■■ F1		11
	246	295	29	3.10	5.58	2KJ1500 - ■ CH13 - ■■■ E1		11
	278	334	26	3.50	4.94	2KJ1500 - ■ CH13 - ■■■ D1		11
	302	362	24	3.70	4.56	2KJ1500 - ■ CH13 - ■■■ C1		11

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>0.75 (50 Hz)</b>	<b>B.28-LA71ZMD4</b>							
0.90 (60 Hz)	<b>351</b>	<b>421</b>	20	4.0	3.92	<b>2KJ1500 - CH13 - B1</b>		11
	<b>385</b>	<b>462</b>	19	4.2	3.57	<b>2KJ1500 - CH13 - A1</b>		11
<b>1.1 (50 Hz)</b>	<b>K.188-Z68-LA90S4</b>							
1.3 (60 Hz)	<b>0.41</b>	<b>0.49</b>	22902	0.87	3410	★ <b>2KJ1541 - EL13 - M1</b>		754
	<b>0.45</b>	<b>0.54</b>	21142	0.95	3148	<b>2KJ1541 - EL13 - L1</b>		754
	<b>0.50</b>	<b>0.60</b>	18946	1.10	2821	★ <b>2KJ1541 - EL13 - K1</b>		754
	<b>0.54</b>	<b>0.65</b>	17468	1.10	2601	<b>2KJ1541 - EL13 - J1</b>		754
	<b>0.65</b>	<b>0.78</b>	14654	1.40	2182	<b>2KJ1541 - EL13 - H1</b>		754
	<b>0.76</b>	<b>0.91</b>	12505	1.60	1862	★ <b>2KJ1541 - EL13 - G1</b>		754
<b>K.168-Z68-LA90S4</b>								
	<b>1.4</b>	<b>1.7</b>	6938	1.9	1033	<b>2KJ1540 - EL13 - H1</b>		510
<b>K.168-Z48-LA90S4</b>								
	<b>0.59</b>	<b>0.71</b>	16024	0.84	2386	<b>2KJ1537 - EL13 - F1</b>		493
	<b>0.71</b>	<b>0.85</b>	13338	1.00	1986	★ <b>2KJ1537 - EL13 - E1</b>		493
	<b>0.72</b>	<b>0.86</b>	13130	1.00	1955	★ <b>2KJ1537 - EL13 - D1</b>		493
	<b>0.81</b>	<b>0.97</b>	11720	1.20	1745	<b>2KJ1537 - EL13 - C1</b>		493
	<b>0.95</b>	<b>1.10</b>	9953	1.40	1482	<b>2KJ1537 - EL13 - B1</b>		493
	<b>1.10</b>	<b>1.30</b>	8281	1.60	1233	★ <b>2KJ1537 - EL13 - A1</b>		493
<b>K.148-Z68-LA90S4</b>								
	<b>1.0</b>	<b>1.2</b>	9349	0.86	1392	<b>2KJ1536 - EL13 - L1</b>		329
	<b>1.1</b>	<b>1.3</b>	8375	0.96	1247	★ <b>2KJ1536 - EL13 - K1</b>		329
	<b>1.2</b>	<b>1.4</b>	7723	1.00	1150	<b>2KJ1536 - EL13 - J1</b>		329
	<b>1.5</b>	<b>1.8</b>	6481	1.20	965	<b>2KJ1536 - EL13 - H1</b>		329
	<b>1.7</b>	<b>2.0</b>	5527	1.40	823	★ <b>2KJ1536 - EL13 - G1</b>		329
<b>K.148-Z38-LA90S4</b>								
	<b>0.97</b>	<b>1.2</b>	9812	0.82	1461	<b>2KJ1534 - EL13 - A1</b>		303
<b>K.148-LA100L8</b>								
	<b>2.2</b>	<b>2.6</b>	4728	1.7	306.08	<b>2KJ1508 - FL13 - N2-Z</b>	<b>P02</b>	317
	<b>2.5</b>	<b>3.0</b>	4239	1.9	274.42	★ <b>2KJ1508 - FL13 - M2-Z</b>	<b>P02</b>	317
<b>K.128-Z48-LA90S4</b>								
	<b>1.8</b>	<b>2.2</b>	5373	0.87	800	<b>2KJ1533 - EL13 - H1</b>		217
	<b>2.0</b>	<b>2.4</b>	4795	0.98	714	<b>2KJ1533 - EL13 - G1</b>		217
<b>K.128-LA100L8</b>								
	<b>2.3</b>	<b>2.8</b>	4563	1.0	295.38	★ <b>2KJ1507 - FL13 - L2-Z</b>	<b>P02</b>	217
	<b>2.5</b>	<b>3.0</b>	4185	1.1	270.90	<b>2KJ1507 - FL13 - K2-Z</b>	<b>P02</b>	217
	<b>2.8</b>	<b>3.4</b>	3739	1.3	242.02	★ <b>2KJ1507 - FL13 - J2-Z</b>	<b>P02</b>	217
<b>K.128-LA90L6</b>								
	<b>3.1</b>	<b>3.7</b>	3391	1.4	295.38	★ <b>2KJ1507 - EP13 - L2-Z</b>	<b>P01</b>	209
	<b>3.4</b>	<b>4.1</b>	3110	1.5	270.90	<b>2KJ1507 - EP13 - K2-Z</b>	<b>P01</b>	209
	<b>3.8</b>	<b>4.6</b>	2779	1.7	242.02	★ <b>2KJ1507 - EP13 - J2-Z</b>	<b>P01</b>	209
	<b>4.1</b>	<b>4.9</b>	2545	1.8	221.64	<b>2KJ1507 - EP13 - H2-Z</b>	<b>P01</b>	209
	<b>4.5</b>	<b>5.4</b>	2344	2.0	204.18	★ <b>2KJ1507 - EP13 - G2-Z</b>	<b>P01</b>	209

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque $T_2$ Nm	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm						
1.1 (50 Hz)	<b>K.108-LA100L8</b>							
1.3 (60 Hz)	2.8	3.4	3761	0.8	243.47	2KJ1506 - FL13 - H2-Z	P02	146
	<b>K.108-LA90L6</b>							
	3.0	3.6	3527	0.82	307.24	2KJ1506 - EP13 - K2-Z	P01	138
	3.3	4.0	3193	0.89	278.10	★ 2KJ1506 - EP13 - J2-Z	P01	138
	3.8	4.6	2795	1.10	243.47	2KJ1506 - EP13 - H2-Z	P01	138
	4.2	5.0	2522	1.20	219.64	★ 2KJ1506 - EP13 - G2-Z	P01	138
	<b>K.108-LA90S4</b>							
	4.6	5.5	2281	1.3	307.24	2KJ1506 - EL13 - K2		135
	5.1	6.1	2065	1.4	278.10	★ 2KJ1506 - EL13 - J2		135
	5.8	7.0	1808	1.7	243.47	2KJ1506 - EL13 - H2		135
	6.4	7.7	1631	1.8	219.64	★ 2KJ1506 - EL13 - G2		135
	7.0	8.4	1493	2.0	201.11	2KJ1506 - EL13 - F2		135
	<b>K.88-LA90S4</b>							
	5.2	6.2	2026	0.81	272.95	2KJ1505 - EL13 - L2		81
	5.7	6.8	1827	0.90	246.13	★ 2KJ1505 - EL13 - K2		81
	6.6	7.9	1598	1.00	215.25	2KJ1505 - EL13 - J2		81
	7.3	8.8	1435	1.20	193.24	★ 2KJ1505 - EL13 - H2		81
	8.0	9.6	1310	1.30	176.50	2KJ1505 - EL13 - G2		81
	9.0	10.8	1163	1.40	156.63	★ 2KJ1505 - EL13 - F2		81
	9.8	11.8	1073	1.50	144.58	2KJ1505 - EL13 - E2		81
	10.8	13.0	971	1.70	130.77	★ 2KJ1505 - EL13 - D2		81
	<b>K.88-LA90S4</b>							
	11.8	14.2	894	1.8	120.42	2KJ1505 - EL13 - C2		81
	12.7	15.2	827	2.0	111.37	★ 2KJ1505 - EL13 - B2		81
	13.7	16.4	767	2.1	103.38	2KJ1505 - EL13 - A2		81
	<b>K.68-LA90S4</b>							
	10.4	12.5	1014	0.81	136.60	★ 2KJ1504 - EL13 - H2		51
	11.2	13.4	936	0.88	126.09	2KJ1504 - EL13 - G2		51
	12.9	15.5	814	1.00	109.64	★ 2KJ1504 - EL13 - F2		51
	14.2	17.0	739	1.10	99.55	2KJ1504 - EL13 - E2		51
	15.6	18.7	675	1.20	90.89	★ 2KJ1504 - EL13 - D2		51
	17.0	20.0	619	1.30	83.40	2KJ1504 - EL13 - C2		51
	18.4	22.0	570	1.40	76.84	★ 2KJ1504 - EL13 - B2		51
	20.0	24.0	518	1.60	69.78	2KJ1504 - EL13 - A2		51
	22.0	26.0	472	1.70	63.57	★ 2KJ1504 - EL13 - X1		51
	24.0	29.0	432	1.90	58.23	2KJ1504 - EL13 - W1		51
	27.0	32.0	386	2.10	51.96	★ 2KJ1504 - EL13 - V1		51
	30.0	36.0	344	2.40	46.37	2KJ1504 - EL13 - U1		51
	<b>K.48-LA90S4</b>							
	18.8	23	560	0.80	75.45	2KJ1503 - EL13 - B2		32
	21.0	25	494	0.91	66.60	★ 2KJ1503 - EL13 - A2		32
	24.0	29	446	1.00	60.08	2KJ1503 - EL13 - X1		32
	26.0	31	405	1.10	54.49	★ 2KJ1503 - EL13 - W1		32
	28.0	34	369	1.20	49.65	2KJ1503 - EL13 - V1		32

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>1.1 (50 Hz)</b>	<b>K.48-LA90S4</b>							
1.3 (60 Hz)	31	37	337	1.3	45.41 ★	2KJ1503 - □ EL13 - □□ U1		32
	35	42	301	1.5	40.60	2KJ1503 - □ EL13 - □□ T1		32
	38	46	277	1.6	37.28 ★	2KJ1503 - □ EL13 - □□ S1		32
	42	50	249	1.8	33.60	2KJ1503 - □ EL13 - □□ R1		32
	49	59	215	2.1	28.90 ★	2KJ1503 - □ EL13 - □□ Q1		32
	51	61	205	2.2	27.55 ★	2KJ1503 - □ EL13 - □□ P1		32
	57	68	184	2.4	24.85	2KJ1503 - □ EL13 - □□ N1		32
	63	76	167	2.7	22.54 ★	2KJ1503 - □ EL13 - □□ M1		32
	69	83	152	3.0	20.54	2KJ1503 - □ EL13 - □□ L1		32
	75	90	139	3.2	18.78 ★	2KJ1503 - □ EL13 - □□ K1		32
	125	150	84	3.5	11.35 ★	2KJ1503 - □ EL13 - □□ E1		32
	139	167	75	3.8	10.15	2KJ1503 - □ EL13 - □□ D1		32
	152	182	69	4.0	9.32 ★	2KJ1503 - □ EL13 - □□ C1		32
	<b>K.38-LA90S4</b>							
	36	43	295	0.85	39.73	2KJ1502 - □ EL13 - □□ V1		28
	39	47	272	0.92	36.69 ★	2KJ1502 - □ EL13 - □□ U1		28
	45	54	235	1.10	31.59	2KJ1502 - □ EL13 - □□ T1		28
	49	59	213	1.20	28.72 ★	2KJ1502 - □ EL13 - □□ S1		28
	53	64	200	1.10	26.90 ★	2KJ1502 - □ EL13 - □□ R1		28
	59	71	179	1.20	24.16	2KJ1502 - □ EL13 - □□ Q1		28
	65	78	162	1.30	21.81 ★	2KJ1502 - □ EL13 - □□ P1		28
	72	86	147	1.30	19.78	2KJ1502 - □ EL13 - □□ N1		28
	79	95	134	1.40	17.99 ★	2KJ1502 - □ EL13 - □□ M1		28
	89	107	118	1.60	15.91	2KJ1502 - □ EL13 - □□ L1		28
	96	115	109	1.70	14.69 ★	2KJ1502 - □ EL13 - □□ K1		28
	112	134	94	1.80	12.65	2KJ1502 - □ EL13 - □□ J1		28
	123	148	85	2.00	11.50 ★	2KJ1502 - □ EL13 - □□ H1		28
	132	158	80	2.00	10.72 ★	2KJ1502 - □ EL13 - □□ G1		28
	146	175	72	2.20	9.72	2KJ1502 - □ EL13 - □□ F1		28
	160	192	66	2.40	8.85 ★	2KJ1502 - □ EL13 - □□ E1		28
	181	217	58	2.70	7.82	2KJ1502 - □ EL13 - □□ D1		28
	196	235	54	3.00	7.22 ★	2KJ1502 - □ EL13 - □□ C1		28
	227	272	46	3.30	6.22	2KJ1502 - □ EL13 - □□ B1		28
	250	300	42	3.50	5.65 ★	2KJ1502 - □ EL13 - □□ A1		28
	<b>B.38-LA90S4</b>							
	34	41	305	0.82	41.11	2KJ1501 - □ EL13 - □□ Q2		30
	39	47	268	0.93	36.16	2KJ1501 - □ EL13 - □□ P2		30
	45	54	235	1.10	31.67	2KJ1501 - □ EL13 - □□ N2		30
	50	60	208	1.20	28.01	2KJ1501 - □ EL13 - □□ M2		30
	56	67	188	1.30	25.38	2KJ1501 - □ EL13 - □□ L2		30
	63	76	166	1.40	22.41	2KJ1501 - □ EL13 - □□ K2		30
	70	84	150	1.50	20.22	2KJ1501 - □ EL13 - □□ J2		30
	77	92	136	1.70	18.33	2KJ1501 - □ EL13 - □□ H2		30
	85	102	124	1.80	16.70	2KJ1501 - □ EL13 - □□ G2		30

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
<b>1.1 (50 Hz)</b>	<b>B.38-LA90S4</b>							
1.3 (60 Hz)	93	112	113	1.9	15.28	2KJ1501 - □ EL13 - □ F2		30
	104	125	101	2.1	13.66	2KJ1501 - □ EL13 - □ E2		30
	113	136	93	2.4	12.50	2KJ1501 - □ EL13 - □ C2		30
	128	154	82	2.7	11.05	2KJ1501 - □ EL13 - □ A2		30
	141	169	74	3.0	10.02	2KJ1501 - □ EL13 - □ X1		30
	160	192	66	3.6	8.84	2KJ1501 - □ EL13 - □ U1		30
	177	212	59	4.0	7.98	2KJ1501 - □ EL13 - □ S1		30
	195	234	54	4.4	7.24	2KJ1501 - □ EL13 - □ R1		30
	<b>B.28-LA90S4</b>							
	68	82	155	0.84	20.87	2KJ1500 - □ EL13 - □ T1		18
	78	94	135	0.96	18.19	2KJ1500 - □ EL13 - □ S1		18
	87	104	121	1.10	16.34	2KJ1500 - □ EL13 - □ R1		18
	96	115	110	1.20	14.75	2KJ1500 - □ EL13 - □ Q1		18
	106	127	99	1.30	13.38	2KJ1500 - □ EL13 - □ P1		18
	116	139	90	1.40	12.17	2KJ1500 - □ EL13 - □ N1		18
	132	158	80	1.60	10.76	2KJ1500 - □ EL13 - □ M1		18
	142	170	74	1.70	9.94	2KJ1500 - □ EL13 - □ L1		18
	165	198	64	1.90	8.56	2KJ1500 - □ EL13 - □ K1		18
	182	218	58	2.00	7.78	2KJ1500 - □ EL13 - □ J1		18
	189	227	56	1.60	7.49	2KJ1500 - □ EL13 - □ H1		18
	209	251	50	1.80	6.76	2KJ1500 - □ EL13 - □ G1		18
	231	277	46	2.00	6.13	2KJ1500 - □ EL13 - □ F1		18
	254	305	41	2.20	5.58	2KJ1500 - □ EL13 - □ E1		18
	286	343	37	2.50	4.94	2KJ1500 - □ EL13 - □ D1		18
	310	372	34	2.60	4.56	2KJ1500 - □ EL13 - □ C1		18
	361	433	29	2.80	3.92	2KJ1500 - □ EL13 - □ B1		18
	396	475	26	3.00	3.57	2KJ1500 - □ EL13 - □ A1		18
<b>1.5 (50 Hz)</b>	<b>K.188-Z68-LA90L4</b>							
1.8 (60 Hz)	0.55	0.66	23914	0.84	2601	2KJ1541 - □ EP13 - □ J1		757
	0.65	0.78	20062	1.00	2182	2KJ1541 - □ EP13 - □ H1		757
	0.76	0.91	17120	1.20	1862	★ 2KJ1541 - □ EP13 - □ G1		757
	1.30	1.60	10435	1.90	1135	2KJ1541 - □ EP13 - □ D1		757
	<b>K.168-Z68-LA90L4</b>							
	1.4	1.7	9498	1.4	1033	2KJ1540 - □ EP13 - □ H1		513
	1.6	1.9	8100	1.7	881	2KJ1540 - □ EP13 - □ G1		513
	<b>K.168-Z48-LA90L4</b>							
	0.81	0.97	16044	0.84	1745	2KJ1537 - □ EP13 - □ C1		496
	0.96	1.20	13626	0.99	1482	2KJ1537 - □ EP13 - □ B1		496
	1.20	1.40	11336	1.20	1233	★ 2KJ1537 - □ EP13 - □ A1		496
	<b>K.148-Z68-LA90L4</b>							
	1.5	1.8	8872	0.9	965	2KJ1536 - □ EP13 - □ H1		332
	1.7	2.0	7567	1.1	823	★ 2KJ1536 - □ EP13 - □ G1		332

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm	<i>T</i> <sub>2</sub> Nm					
1.5 (50 Hz)	<b>K.148-LA112M8</b>							
1.8 (60 Hz)	2.3	2.8	6219	1.3	306.08	2KJ1508 - ■ GG13 - ■■■ N2-Z	P02	324
	2.6	3.1	5576	1.4	274.42 ★	2KJ1508 - ■ GG13 - ■■■ M2-Z	P02	324
	2.8	3.4	5111	1.6	251.55	2KJ1508 - ■ GG13 - ■■■ L2-Z	P02	324
	<b>K.148-LA100L6</b>							
	3.0	3.6	4740	1.7	306.08	2KJ1508 - ■ FL13 - ■■■ N2-Z	P01	317
	3.4	4.1	4250	1.9	274.42 ★	2KJ1508 - ■ FL13 - ■■■ M2-Z	P01	317
	<b>K.128-LA112M8</b>							
	2.6	3.1	5504	0.85	270.90	2KJ1507 - ■ GG13 - ■■■ K2-Z	P02	224
	2.9	3.5	4918	0.96	242.02 ★	2KJ1507 - ■ GG13 - ■■■ J2-Z	P02	224
	<b>K.128-LA100L6</b>							
	3.1	3.7	4574	1.0	295.38 ★	2KJ1507 - ■ FL13 - ■■■ L2-Z	P01	217
	3.4	4.1	4195	1.1	270.90	2KJ1507 - ■ FL13 - ■■■ K2-Z	P01	217
	3.8	4.6	3748	1.3	242.02 ★	2KJ1507 - ■ FL13 - ■■■ J2-Z	P01	217
	4.2	5.0	3432	1.4	221.64	2KJ1507 - ■ FL13 - ■■■ H2-Z	P01	217
	4.5	5.4	3162	1.5	204.18 ★	2KJ1507 - ■ FL13 - ■■■ G2-Z	P01	217
	<b>K.128-LA90L4</b>							
	4.8	5.8	2980	1.6	295.38 ★	2KJ1507 - ■ EP13 - ■■■ L2		209
	5.2	6.2	2733	1.7	270.90	2KJ1507 - ■ EP13 - ■■■ K2		209
	5.9	7.1	2442	1.9	242.02 ★	2KJ1507 - ■ EP13 - ■■■ J2		209
	6.4	7.7	2236	2.1	221.64	2KJ1507 - ■ EP13 - ■■■ H2		209
	<b>K.108-LA100L6</b>							
	3.8	4.6	3770	0.80	243.47	2KJ1506 - ■ FL13 - ■■■ H2-Z	P01	146
	4.2	5.0	3401	0.88	219.64 ★	2KJ1506 - ■ FL13 - ■■■ G2-Z	P01	146
	<b>K.108-LA90L4</b>							
	4.6	5.5	3099	0.94	307.24	2KJ1506 - ■ EP13 - ■■■ K2		138
	5.1	6.1	2805	1.00	278.10 ★	2KJ1506 - ■ EP13 - ■■■ J2		138
	5.8	7.0	2456	1.20	243.47	2KJ1506 - ■ EP13 - ■■■ H2		138
	6.5	7.8	2216	1.40	219.64 ★	2KJ1506 - ■ EP13 - ■■■ G2		138
	7.1	8.5	2029	1.50	201.11	2KJ1506 - ■ EP13 - ■■■ F2		138
	7.9	9.5	1805	1.70	178.90 ★	2KJ1506 - ■ EP13 - ■■■ E2		138
	8.7	10.4	1649	1.80	163.51	2KJ1506 - ■ EP13 - ■■■ D2		138
	9.4	11.3	1516	2.00	150.31 ★	2KJ1506 - ■ EP13 - ■■■ C2		138
	10.2	12.2	1401	2.10	138.87	2KJ1506 - ■ EP13 - ■■■ B2		138
	<b>K.88-LA90L4</b>							
	7.3	8.8	1949	0.85	193.24 ★	2KJ1505 - ■ EP13 - ■■■ H2		84
	8.0	9.6	1781	0.93	176.50	2KJ1505 - ■ EP13 - ■■■ G2		84
	9.1	10.9	1580	1.00	156.63 ★	2KJ1505 - ■ EP13 - ■■■ F2		84
	9.8	11.8	1459	1.10	144.58	2KJ1505 - ■ EP13 - ■■■ E2		84
	10.9	13.1	1319	1.30	130.77 ★	2KJ1505 - ■ EP13 - ■■■ D2		84
	11.8	14.2	1215	1.40	120.42	2KJ1505 - ■ EP13 - ■■■ C2		84
	12.8	15.4	1124	1.50	111.37 ★	2KJ1505 - ■ EP13 - ■■■ B2		84
	13.7	16.4	1043	1.60	103.38	2KJ1505 - ■ EP13 - ■■■ A2		84
	15.6	18.7	920	1.80	91.22 ★	2KJ1505 - ■ EP13 - ■■■ X1		84
	16.9	20.0	850	1.90	84.21	2KJ1505 - ■ EP13 - ■■■ W1		84

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque <i>T</i> <sub>2</sub> Nm	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm						
1.5 (50 Hz)	<b>K.88-LA90L4</b>							
1.8 (60 Hz)	18.8	23	761	2.2	75.45 ★	2KJ1505 - □EP13 - □□V1		84
	<b>K.68-LA90L4</b>							
	14.3	17.2	1004	0.82	99.55	2KJ1504 - □EP13 - □□E2		54
	15.6	18.7	917	0.89	90.89 ★	2KJ1504 - □EP13 - □□D2		54
	17.0	20.0	841	0.97	83.40	2KJ1504 - □EP13 - □□C2		54
	18.5	22.0	775	1.10	76.84 ★	2KJ1504 - □EP13 - □□B2		54
	20.0	24.0	704	1.20	69.78	2KJ1504 - □EP13 - □□A2		54
	22.0	26.0	641	1.30	63.57 ★	2KJ1504 - □EP13 - □□X1		54
	24.0	29.0	587	1.40	58.23	2KJ1504 - □EP13 - □□W1		54
	27.0	32.0	524	1.60	51.96 ★	2KJ1504 - □EP13 - □□V1		54
	31.0	37.0	468	1.80	46.37	2KJ1504 - □EP13 - □□U1		54
	36.0	43.0	397	2.10	39.39	2KJ1504 - □EP13 - □□T1		54
	43.0	52.0	331	2.50	32.78 ★	2KJ1504 - □EP13 - □□S1		54
	47.0	56.0	306	2.70	30.38	2KJ1504 - □EP13 - □□R1		54
	<b>K.48-LA90L4</b>							
	26	31	550	0.82	54.49 ★	2KJ1503 - □EP13 - □□W1		35
	29	35	501	0.90	49.65	2KJ1503 - □EP13 - □□V1		35
	31	37	458	0.98	45.41 ★	2KJ1503 - □EP13 - □□U1		35
	35	42	410	1.10	40.60	2KJ1503 - □EP13 - □□T1		35
	38	46	376	1.20	37.28 ★	2KJ1503 - □EP13 - □□S1		35
	42	50	339	1.30	33.60	2KJ1503 - □EP13 - □□R1		35
	49	59	292	1.50	28.90 ★	2KJ1503 - □EP13 - □□Q1		35
	52	62	278	1.60	27.55 ★	2KJ1503 - □EP13 - □□P1		35
	57	68	251	1.80	24.85	2KJ1503 - □EP13 - □□N1		35
	63	76	227	2.00	22.54 ★	2KJ1503 - □EP13 - □□M1		35
	69	83	207	2.20	20.54	2KJ1503 - □EP13 - □□L1		35
	76	91	189	2.40	18.78 ★	2KJ1503 - □EP13 - □□K1		35
	85	102	169	2.70	16.79	2KJ1503 - □EP13 - □□J1		35
	92	110	156	2.90	15.42 ★	2KJ1503 - □EP13 - □□H1		35
	102	122	140	3.10	13.90	2KJ1503 - □EP13 - □□G1		35
	119	143	121	3.50	11.95 ★	2KJ1503 - □EP13 - □□F1		35
	125	150	114	2.50	11.35 ★	2KJ1503 - □EP13 - □□E1		35
	140	168	102	2.80	10.15	2KJ1503 - □EP13 - □□D1		35
	152	182	94	2.90	9.32 ★	2KJ1503 - □EP13 - □□C1		35
	169	203	85	3.20	8.40	2KJ1503 - □EP13 - □□B1		35
	197	236	73	3.50	7.22 ★	2KJ1503 - □EP13 - □□A1		35
	<b>K.38-LA90L4</b>							
	49	59	290	0.86	28.72 ★	2KJ1502 - □EP13 - □□S1		31
	53	64	271	0.80	26.90 ★	2KJ1502 - □EP13 - □□R1		31
	59	71	244	0.86	24.16	2KJ1502 - □EP13 - □□Q1		31
	65	78	220	0.92	21.81 ★	2KJ1502 - □EP13 - □□P1		31
	72	86	200	0.99	19.78	2KJ1502 - □EP13 - □□N1		31
	79	95	181	1.10	17.99 ★	2KJ1502 - □EP13 - □□M1		31
	89	107	161	1.10	15.91	2KJ1502 - □EP13 - □□L1		31

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm	<i>T</i> <sub>2</sub> Nm					
<b>1.5 (50 Hz) K.38-LA90L4</b>								
1.8 (60 Hz)	97	116	148	1.2	14.69 ★	2KJ1502 - □EP13 - □□K1		31
	112	134	128	1.3	12.65	2KJ1502 - □EP13 - □□J1		31
	123	148	116	1.4	11.50 ★	2KJ1502 - □EP13 - □□H1		31
	132	158	108	1.5	10.72 ★	2KJ1502 - □EP13 - □□G1		31
	146	175	98	1.6	9.72	2KJ1502 - □EP13 - □□F1		31
	160	192	89	1.8	8.85 ★	2KJ1502 - □EP13 - □□E1		31
	182	218	79	2.0	7.82	2KJ1502 - □EP13 - □□D1		31
	197	236	73	2.2	7.22 ★	2KJ1502 - □EP13 - □□C1		31
	228	274	63	2.4	6.22	2KJ1502 - □EP13 - □□B1		31
	251	301	57	2.6	5.65 ★	2KJ1502 - □EP13 - □□A1		31
<b>B.38-LA90L4</b>								
	51	61	283	0.88	28.01	2KJ1501 - □EP13 - □□M2		33
	56	67	256	0.98	25.38	2KJ1501 - □EP13 - □□L2		33
	63	76	226	1.10	22.41	2KJ1501 - □EP13 - □□K2		33
	70	84	204	1.10	20.22	2KJ1501 - □EP13 - □□J2		33
	78	94	185	1.20	18.33	2KJ1501 - □EP13 - □□H2		33
	85	102	168	1.30	16.70	2KJ1501 - □EP13 - □□G2		33
	93	112	154	1.40	15.28	2KJ1501 - □EP13 - □□F2		33
	104	125	138	1.50	13.66	2KJ1501 - □EP13 - □□E2		33
	114	137	126	1.70	12.50	2KJ1501 - □EP13 - □□C2		33
	129	155	111	2.00	11.05	2KJ1501 - □EP13 - □□A2		33
	142	170	101	2.20	10.02	2KJ1501 - □EP13 - □□X1		33
	161	193	89	2.60	8.84	2KJ1501 - □EP13 - □□U1		33
	178	214	80	2.90	7.98	2KJ1501 - □EP13 - □□S1		33
	196	235	73	3.20	7.24	2KJ1501 - □EP13 - □□R1		33
	215	258	66	3.50	6.59	2KJ1501 - □EP13 - □□P1		33
	235	282	61	3.90	6.03	2KJ1501 - □EP13 - □□M1		33
	263	316	54	3.90	5.39	2KJ1501 - □EP13 - □□K1		33
	287	344	50	4.40	4.95	2KJ1501 - □EP13 - □□H1		33
	318	382	45	4.70	4.46	2KJ1501 - □EP13 - □□F1		33
	370	444	39	5.20	3.84	2KJ1501 - □EP13 - □□C1		33
<b>B.28-LA90L4</b>								
	96	115	149	0.87	14.75	2KJ1500 - □EP13 - □□Q1		21
	106	127	135	0.96	13.38	2KJ1500 - □EP13 - □□P1		21
	117	140	123	1.10	12.17	2KJ1500 - □EP13 - □□N1		21
	132	158	109	1.20	10.76	2KJ1500 - □EP13 - □□M1		21
	143	172	100	1.30	9.94	2KJ1500 - □EP13 - □□L1		21
	166	199	86	1.40	8.56	2KJ1500 - □EP13 - □□K1		21
	183	220	78	1.50	7.78	2KJ1500 - □EP13 - □□J1		21
	190	228	76	1.20	7.49	2KJ1500 - □EP13 - □□H1		21
	210	252	68	1.30	6.76	2KJ1500 - □EP13 - □□G1		21
	232	278	62	1.50	6.13	2KJ1500 - □EP13 - □□F1		21
	254	305	56	1.60	5.58	2KJ1500 - □EP13 - □□E1		21
	287	344	50	1.80	4.94	2KJ1500 - □EP13 - □□D1		21

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
1.5 (50 Hz)	<b>B.28-LA90L4</b>							
1.8 (60 Hz)	311	373	46	1.9	4.56	2KJ1500 - ■ EP13 - ■■■ C1		21
	362	434	40	2.1	3.92	2KJ1500 - ■ EP13 - ■■■ B1		21
	398	478	36	2.2	3.57	2KJ1500 - ■ EP13 - ■■■ A1		21
2.2 (50 Hz)	<b>K.188-Z68-LA100L4</b>							
2.6 (60 Hz)	0.92	1.1	21051	0.95	1551	2KJ1541 - ■ FL13 - ■■■ F1		765
	1.10	1.3	17454	1.10	1286	★ 2KJ1541 - ■ FL13 - ■■■ E1		765
	1.30	1.6	15405	1.30	1135	2KJ1541 - ■ FL13 - ■■■ D1		765
	1.50	1.8	13138	1.50	968	★ 2KJ1541 - ■ FL13 - ■■■ C1		765
	1.80	2.2	10953	1.80	807	2KJ1541 - ■ FL13 - ■■■ B1		765
<b>K.168-Z68-LA100L4</b>								
	1.4	1.7	14020	0.96	1033	2KJ1540 - ■ FL13 - ■■■ H1		521
	1.6	1.9	11957	1.10	881	2KJ1540 - ■ FL13 - ■■■ G1		521
	1.9	2.3	9976	1.40	735	2KJ1540 - ■ FL13 - ■■■ F1		521
	2.3	2.8	8266	1.60	609	2KJ1540 - ■ FL13 - ■■■ E1		521
<b>K.168-Z48-LA100L4</b>								
	1.2	1.4	16735	0.81	1233	★ 2KJ1537 - ■ FL13 - ■■■ A1		504
<b>K.168-LA132S8</b>								
	2.4	2.9	8643	1.6	287.95	★ 2KJ1510 - ■ HE13 - ■■■ H2-Z	P02	519
	2.6	3.1	7929	1.7	264.18	2KJ1510 - ■ HE13 - ■■■ G2-Z	P02	519
	2.9	3.5	7317	1.8	243.80	★ 2KJ1510 - ■ HE13 - ■■■ F2-Z	P02	519
	3.1	3.7	6788	2.0	226.15	2KJ1510 - ■ HE13 - ■■■ E2-Z	P02	519
<b>K.148-Z68-LA100L4</b>								
	2.1	2.5	9311	0.86	686.00	2KJ1536 - ■ FL13 - ■■■ F1		340
<b>K.148-LA132S8</b>								
	2.6	3.1	8237	0.97	274.42	★ 2KJ1508 - ■ HE13 - ■■■ M2-Z	P02	334
	2.8	3.4	7550	1.10	251.55	2KJ1508 - ■ HE13 - ■■■ L2-Z	P02	334
<b>K.148-LA112M6</b>								
	3.1	3.7	6841	1.2	306.08	2KJ1508 - ■ GG13 - ■■■ N2-Z	P01	324
	3.4	4.1	6134	1.3	274.42	★ 2KJ1508 - ■ GG13 - ■■■ M2-Z	P01	324
	3.7	4.4	5622	1.4	251.55	2KJ1508 - ■ GG13 - ■■■ L2-Z	P01	324
	4.1	4.9	5184	1.5	231.95	★ 2KJ1508 - ■ GG13 - ■■■ K2-Z	P01	324
	4.4	5.3	4805	1.7	214.96	2KJ1508 - ■ GG13 - ■■■ J2-Z	P01	324
<b>K.148-LA100L4</b>								
	4.6	5.5	4529	1.8	306.08	2KJ1508 - ■ FL13 - ■■■ N2		317
	5.2	6.2	4060	2.0	274.42	★ 2KJ1508 - ■ FL13 - ■■■ M2		317
	5.6	6.7	3722	2.1	251.55	2KJ1508 - ■ FL13 - ■■■ L2		317
<b>K.128-LA112M6</b>								
	3.9	4.7	5409	0.87	242.02	★ 2KJ1507 - ■ GG13 - ■■■ J2-Z	P01	224
	4.2	5.0	4954	0.95	221.64	2KJ1507 - ■ GG13 - ■■■ H2-Z	P01	224
	4.6	5.5	4564	1.00	204.18	★ 2KJ1507 - ■ GG13 - ■■■ G2-Z	P01	224
<b>K.128-LA100L4</b>								
	4.8	5.8	4370	1.1	295.38	★ 2KJ1507 - ■ FL13 - ■■■ L2		217
	5.2	6.2	4008	1.2	270.90	2KJ1507 - ■ FL13 - ■■■ K2		217

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
<b>2.2 (50 Hz)</b> <b>K.128-LA100L4</b>								
2.6 (60 Hz)	5.9	7.1	3581	1.3	242.02	★ 2KJ1507 - FL13 - J2		217
	6.4	7.7	3279	1.4	221.64	2KJ1507 - FL13 - H2		217
	7.0	8.4	3021	1.6	204.18	★ 2KJ1507 - FL13 - G2		217
	7.5	9.0	2797	1.7	189.04	2KJ1507 - FL13 - F2		217
	8.1	9.7	2601	1.8	175.80	★ 2KJ1507 - FL13 - E2		217
	8.7	10.4	2428	1.9	164.11	2KJ1507 - FL13 - D2		217
<b>K.108-LA100L4</b>								
	5.8	7.0	3602	0.83	243.47	2KJ1506 - FL13 - H2		146
	6.5	7.8	3250	0.92	219.64	★ 2KJ1506 - FL13 - G2		146
	7.1	8.5	2976	1.00	201.11	2KJ1506 - FL13 - F2		146
	7.9	9.5	2647	1.10	178.90	★ 2KJ1506 - FL13 - E2		146
	8.7	10.4	2419	1.20	163.51	2KJ1506 - FL13 - D2		146
	9.4	11.3	2224	1.30	150.31	★ 2KJ1506 - FL13 - C2		146
	10.2	12.2	2055	1.50	138.87	2KJ1506 - FL13 - B2		146
	11.0	13.2	1907	1.60	128.86	★ 2KJ1506 - FL13 - A2		146
	11.8	14.2	1776	1.70	120.03	2KJ1506 - FL13 - X1		146
	13.1	15.7	1606	1.90	108.52	★ 2KJ1506 - FL13 - W1		146
	14.2	17.0	1478	2.00	99.90	2KJ1506 - FL13 - V1		146
	15.8	19.0	1329	2.30	89.85	★ 2KJ1506 - FL13 - U1		146
<b>K.88-LA100L4</b>								
	10.9	13.1	1935	0.85	130.77	★ 2KJ1505 - FL13 - D2		92
	11.8	14.2	1782	0.93	120.42	2KJ1505 - FL13 - C2		92
	12.8	15.4	1648	1.00	111.37	★ 2KJ1505 - FL13 - B2		92
	13.7	16.4	1530	1.10	103.38	2KJ1505 - FL13 - A2		92
	15.6	18.7	1350	1.20	91.22	★ 2KJ1505 - FL13 - X1		92
	16.9	20.0	1246	1.30	84.21	2KJ1505 - FL13 - W1		92
	18.8	23.0	1116	1.50	75.45	★ 2KJ1505 - FL13 - V1		92
	20.0	24.0	1029	1.60	69.57	2KJ1505 - FL13 - U1		92
	24.0	29.0	864	1.90	58.37	2KJ1505 - FL13 - T1		92
	28.0	34.0	737	2.20	49.80	★ 2KJ1505 - FL13 - S1		92
<b>K.68-LA100L4</b>								
	22	26	941	0.87	63.57	★ 2KJ1504 - FL13 - X1		62
	24	29	862	0.95	58.23	2KJ1504 - FL13 - W1		62
	27	32	769	1.10	51.96	★ 2KJ1504 - FL13 - V1		62
	31	37	686	1.20	46.37	2KJ1504 - FL13 - U1		62
	36	43	583	1.40	39.39	2KJ1504 - FL13 - T1		62
	43	52	485	1.70	32.78	★ 2KJ1504 - FL13 - S1		62
	47	56	449	1.80	30.38	2KJ1504 - FL13 - R1		62
	51	61	414	2.00	27.99	★ 2KJ1504 - FL13 - Q1		62
	56	67	376	2.20	25.42	2KJ1504 - FL13 - P1		62
	61	73	343	2.40	23.16	★ 2KJ1504 - FL13 - N1		62
	67	80	314	2.60	21.22	2KJ1504 - FL13 - M1		62
	75	90	280	2.90	18.93	★ 2KJ1504 - FL13 - L1		62
	84	101	250	3.30	16.89	2KJ1504 - FL13 - K1		62

★ Preferred transmission ratio

Shaft designs, see page 4/87

1, 2, 3, 5, 6, or 9

Frequency and voltage, see page 8/15

1 to 9

Gear unit housing mounting position, see page 4/84

A, D, E, F, H, or M

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
<b>2.2 (50 Hz)</b>	<b>K.68-LA100L4</b>							
2.6 (60 Hz)	124	149	169	2.6	11.41	2KJ1504 - FL13 - G1		62
	137	164	154	2.7	10.40	★ 2KJ1504 - FL13 - F1		62
	149	179	141	2.9	9.52	2KJ1504 - FL13 - E1		62
	167	200	126	3.2	8.50	★ 2KJ1504 - FL13 - D1		62
	187	224	112	3.4	7.58	2KJ1504 - FL13 - C1		62
	220	264	95	3.8	6.44	2KJ1504 - FL13 - B1		62
	265	318	79	4.4	5.36	★ 2KJ1504 - FL13 - A1		62
	<b>K.48-LA100L4</b>							
	38	46	552	0.82	37.28	★ 2KJ1503 - FL13 - S1		43
	42	50	497	0.91	33.60	2KJ1503 - FL13 - R1		43
	49	59	428	1.10	28.9	★ 2KJ1503 - FL13 - Q1		43
	52	62	408	1.10	27.55	★ 2KJ1503 - FL13 - P1		43
	57	68	368	1.20	24.85	2KJ1503 - FL13 - N1		43
	63	76	333	1.30	22.54	★ 2KJ1503 - FL13 - M1		43
	69	83	304	1.50	20.54	2KJ1503 - FL13 - L1		43
	76	91	278	1.60	18.78	★ 2KJ1503 - FL13 - K1		43
	85	102	248	1.80	16.79	2KJ1503 - FL13 - J1		43
	92	110	228	2.00	15.42	★ 2KJ1503 - FL13 - H1		43
	102	122	206	2.10	13.90	2KJ1503 - FL13 - G1		43
	119	143	177	2.40	11.95	★ 2KJ1503 - FL13 - F1		43
	125	150	168	1.70	11.35	★ 2KJ1503 - FL13 - E1		43
	140	168	150	1.90	10.15	2KJ1503 - FL13 - D1		43
	152	182	138	2.00	9.32	★ 2KJ1503 - FL13 - C1		43
	169	203	124	2.20	8.40	2KJ1503 - FL13 - B1		43
	197	236	107	2.40	7.22	★ 2KJ1503 - FL13 - A1		43
	<b>K.38-LA100L4</b>							
	97	116	217	0.83	14.69	★ 2KJ1502 - FL13 - K1		39
	112	134	187	0.92	12.65	2KJ1502 - FL13 - J1		39
	123	148	170	0.98	11.50	★ 2KJ1502 - FL13 - H1		39
	132	158	159	1.00	10.72	★ 2KJ1502 - FL13 - G1		39
	146	175	144	1.10	9.72	2KJ1502 - FL13 - F1		39
	160	192	131	1.20	8.85	★ 2KJ1502 - FL13 - E1		39
	182	218	116	1.40	7.82	2KJ1502 - FL13 - D1		39
	197	236	107	1.50	7.22	★ 2KJ1502 - FL13 - C1		39
	228	274	92	1.70	6.22	2KJ1502 - FL13 - B1		39
	251	301	84	1.80	5.65	★ 2KJ1502 - FL13 - A1		39
	<b>B.38-LA100L4</b>							
	78	94	271	0.83	18.33	2KJ1501 - FL13 - H2		41
	85	102	247	0.89	16.70	2KJ1501 - FL13 - G2		41
	93	112	226	0.95	15.28	2KJ1501 - FL13 - F2		41
	104	125	202	1.00	13.66	2KJ1501 - FL13 - E2		41
	114	137	185	1.20	12.50	2KJ1501 - FL13 - C2		41
	129	155	163	1.40	11.05	2KJ1501 - FL13 - A2		41
	142	170	148	1.50	10.02	2KJ1501 - FL13 - X1		41

★ Preferred transmission ratio

Shaft designs, see page 4/87

1, 2, 3, 5, 6, or 9

Frequency and voltage, see page 8/15

1 to 9

Gear unit housing mounting position, see page 4/84

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>2.2 (50 Hz) B.38-LA100L4</b>								
2.6 (60 Hz)	161	193	131	1.8	8.84	2KJ1501 - FL13 - U1		41
	178	214	118	2.0	7.98	2KJ1501 - FL13 - S1		41
	196	235	107	2.2	7.24	2KJ1501 - FL13 - R1		41
	215	258	98	2.4	6.59	2KJ1501 - FL13 - P1		41
	235	282	89	2.6	6.03	2KJ1501 - FL13 - M1		41
	263	316	80	2.6	5.39	2KJ1501 - FL13 - K1		41
	287	344	73	3.0	4.95	2KJ1501 - FL13 - H1		41
	318	382	66	3.2	4.46	2KJ1501 - FL13 - F1		41
	370	444	57	3.6	3.84	2KJ1501 - FL13 - C1		41
<b>B.28-LA90ZLB4</b>								
	129	155	163	0.80	10.76	2KJ1500 - EQ13 - M1		21
	140	168	150	0.85	9.94	2KJ1500 - EQ13 - L1		21
	162	194	129	0.94	8.56	2KJ1500 - EQ13 - K1		21
	179	215	118	0.99	7.78	2KJ1500 - EQ13 - J1		21
	206	247	102	0.88	6.76	2KJ1500 - EQ13 - G1		21
	227	272	93	0.97	6.13	2KJ1500 - EQ13 - F1		21
	249	299	84	1.10	5.58	2KJ1500 - EQ13 - E1		21
	281	337	75	1.20	4.94	2KJ1500 - EQ13 - D1		21
	305	366	69	1.30	4.56	2KJ1500 - EQ13 - C1		21
	355	426	59	1.40	3.92	2KJ1500 - EQ13 - B1		21
	389	467	54	1.50	3.57	2KJ1500 - EQ13 - A1		21
<b>3.0 (50 Hz) K.188-Z68-LA100LB4</b>								
3.6 (60 Hz)	1.1	1.3	23889	0.84	1286	★ 2KJ1541 - FM13 - E1		765
	1.3	1.6	21084	0.95	1135	2KJ1541 - FM13 - D1		765
	1.5	1.8	17982	1.10	968	★ 2KJ1541 - FM13 - C1		765
	1.8	2.2	14991	1.30	807	2KJ1541 - FM13 - B1		765
	2.1	2.5	12427	1.60	669	★ 2KJ1541 - FM13 - A1		765
<b>K.188-Z88-LA100LB4</b>								
	2.1	2.5	12427	1.6	669	★ 2KJ1543 - FM13 - H1		798
	2.6	3.1	10180	2.0	548	★ 2KJ1543 - FM13 - G1		798
<b>K.168-Z68-LA100LB4</b>								
	1.6	1.9	16366	0.82	881	2KJ1540 - FM13 - G1		521
	1.9	2.3	13653	0.99	735	2KJ1540 - FM13 - F1		521
	2.3	2.8	11313	1.20	609	2KJ1540 - FM13 - E1		521
<b>K.168-LA132MA8</b>								
	2.4	2.9	11785	1.1	287.95	★ 2KJ1510 - HG13 - H2-Z	P02	527
	2.6	3.1	10813	1.2	264.18	2KJ1510 - HG13 - G2-Z	P02	527
	2.9	3.5	9978	1.4	243.80	★ 2KJ1510 - HG13 - F2-Z	P02	527
	3.1	3.7	9256	1.5	226.15	2KJ1510 - HG13 - E2-Z	P02	527
<b>K.168-LA132S6</b>								
	3.3	4.0	8684	1.6	287.95	★ 2KJ1510 - HE13 - H2-Z	P01	519
	3.6	4.3	7967	1.7	264.18	2KJ1510 - HE13 - G2-Z	P01	519
	3.9	4.7	7352	1.8	243.80	★ 2KJ1510 - HE13 - F2-Z	P01	519

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque $T_2$ Nm	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm						
<b>3.0 (50 Hz)</b>	<b>K.168-LA132S6</b>							
3.6 (60 Hz)	<b>4.2</b>	<b>5.0</b>	6820	2.0	226.15	<b>2KJ1510 - ■HE13 - ■■E2-Z</b>	<b>P01</b>	519
	<b>K.148-LA132S6</b>							
	<b>3.5</b>	<b>4.2</b>	8276	0.97	274.42	★ <b>2KJ1508 - ■HE13 - ■■M2-Z</b>	<b>P01</b>	334
	<b>3.8</b>	<b>4.6</b>	7586	1.10	251.55	<b>2KJ1508 - ■HE13 - ■■L2-Z</b>	<b>P01</b>	334
	<b>4.1</b>	<b>4.9</b>	6995	1.10	231.95	★ <b>2KJ1508 - ■HE13 - ■■K2-Z</b>	<b>P01</b>	334
	<b>4.4</b>	<b>5.3</b>	6483	1.20	214.96	<b>2KJ1508 - ■HE13 - ■■J2-Z</b>	<b>P01</b>	334
	<b>K.148-LA100LB4</b>							
	<b>4.6</b>	<b>5.5</b>	6175	1.3	306.08	<b>2KJ1508 - ■FM13 - ■■N2</b>		317
	<b>5.2</b>	<b>6.2</b>	5537	1.4	274.42	★ <b>2KJ1508 - ■FM13 - ■■M2</b>		317
	<b>5.6</b>	<b>6.7</b>	5075	1.6	251.55	<b>2KJ1508 - ■FM13 - ■■L2</b>		317
	<b>6.1</b>	<b>7.3</b>	4680	1.7	231.95	★ <b>2KJ1508 - ■FM13 - ■■K2</b>		317
	<b>6.6</b>	<b>7.9</b>	4337	1.8	214.96	<b>2KJ1508 - ■FM13 - ■■J2</b>		317
	<b>6.9</b>	<b>8.3</b>	4124	1.9	204.38	★ <b>2KJ1508 - ■FM13 - ■■H2</b>		317
	<b>7.4</b>	<b>8.9</b>	3854	2.1	191.02	<b>2KJ1508 - ■FM13 - ■■G2</b>		317
	<b>K.128-LA100LB4</b>							
	<b>5.2</b>	<b>6.2</b>	5466	0.86	270.90	<b>2KJ1507 - ■FM13 - ■■K2</b>		217
	<b>5.9</b>	<b>7.1</b>	4883	0.96	242.02	★ <b>2KJ1507 - ■FM13 - ■■J2</b>		217
	<b>6.4</b>	<b>7.7</b>	4472	1.10	221.64	<b>2KJ1507 - ■FM13 - ■■H2</b>		217
	<b>7.0</b>	<b>8.4</b>	4120	1.10	204.18	★ <b>2KJ1507 - ■FM13 - ■■G2</b>		217
	<b>7.5</b>	<b>9.0</b>	3814	1.20	189.04	<b>2KJ1507 - ■FM13 - ■■F2</b>		217
	<b>8.1</b>	<b>9.7</b>	3547	1.30	175.80	★ <b>2KJ1507 - ■FM13 - ■■E2</b>		217
	<b>8.7</b>	<b>10.4</b>	3311	1.40	164.11	<b>2KJ1507 - ■FM13 - ■■D2</b>		217
	<b>9.7</b>	<b>11.6</b>	2963	1.60	146.84	★ <b>2KJ1507 - ■FM13 - ■■C2</b>		217
	<b>10.4</b>	<b>12.5</b>	2745	1.70	136.06	<b>2KJ1507 - ■FM13 - ■■B2</b>		217
	<b>11.4</b>	<b>13.7</b>	2517	1.90	124.73	★ <b>2KJ1507 - ■FM13 - ■■A2</b>		217
	<b>12.4</b>	<b>14.9</b>	2307	2.00	114.34	<b>2KJ1507 - ■FM13 - ■■X1</b>		217
	<b>K.108-LA100LB4</b>							
	<b>7.9</b>	<b>9.5</b>	3609	0.83	178.90	★ <b>2KJ1506 - ■FM13 - ■■E2</b>		146
	<b>8.7</b>	<b>10.4</b>	3299	0.91	163.51	<b>2KJ1506 - ■FM13 - ■■D2</b>		146
	<b>9.4</b>	<b>11.3</b>	3033	0.99	150.31	★ <b>2KJ1506 - ■FM13 - ■■C2</b>		146
	<b>10.2</b>	<b>12.2</b>	2802	1.10	138.87	<b>2KJ1506 - ■FM13 - ■■B2</b>		146
	<b>11.0</b>	<b>13.2</b>	2600	1.20	128.86	★ <b>2KJ1506 - ■FM13 - ■■A2</b>		146
	<b>11.8</b>	<b>14.2</b>	2422	1.20	120.03	<b>2KJ1506 - ■FM13 - ■■X1</b>		146
	<b>13.1</b>	<b>15.7</b>	2190	1.40	108.52	★ <b>2KJ1506 - ■FM13 - ■■W1</b>		146
	<b>14.2</b>	<b>17.0</b>	2016	1.50	99.90	<b>2KJ1506 - ■FM13 - ■■V1</b>		146
	<b>15.8</b>	<b>19.0</b>	1813	1.70	89.85	★ <b>2KJ1506 - ■FM13 - ■■U1</b>		146
	<b>17.1</b>	<b>21.0</b>	1673	1.80	82.90	<b>2KJ1506 - ■FM13 - ■■T1</b>		146
	<b>20.0</b>	<b>24.0</b>	1417	2.10	70.24	<b>2KJ1506 - ■FM13 - ■■S1</b>		146
	<b>23.0</b>	<b>28.0</b>	1235	2.40	61.22	★ <b>2KJ1506 - ■FM13 - ■■R1</b>		146
	<b>K.88-LA100LB4</b>							
	<b>15.6</b>	<b>18.7</b>	1840	0.90	91.22	★ <b>2KJ1505 - ■FM13 - ■■X1</b>		92
	<b>16.9</b>	<b>20.0</b>	1699	0.97	84.21	<b>2KJ1505 - ■FM13 - ■■W1</b>		92
	<b>18.8</b>	<b>23.0</b>	1522	1.10	75.45	★ <b>2KJ1505 - ■FM13 - ■■V1</b>		92

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>3.0 (50 Hz)</b>	<b>K.88-LA100LB4</b>							
3.6 (60 Hz)	20	24	1404	1.2	69.57	2KJ1505 - □FM13 - □□U1		92
	24	29	1178	1.4	58.37	2KJ1505 - □FM13 - □□T1		92
	28	34	1005	1.6	49.80 ★	2KJ1505 - □FM13 - □□S1		92
	34	41	837	2.0	41.50	2KJ1505 - □FM13 - □□Q1		92
	41	49	694	2.4	34.40 ★	2KJ1505 - □FM13 - □□P1		92
	46	55	623	2.6	30.87 ★	2KJ1505 - □FM13 - □□N1		92
	127	152	226	3.6	11.21	2KJ1505 - □FM13 - □□E1		92
	151	181	190	4.0	9.41	2KJ1505 - □FM13 - □□D1		92
	<b>K.68-LA100LB4</b>							
	31	37	936	0.88	46.37	2KJ1504 - □FM13 - □□U1		62
	36	43	795	1.00	39.39	2KJ1504 - □FM13 - □□T1		62
	43	52	661	1.20	32.78 ★	2KJ1504 - □FM13 - □□S1		62
	47	56	613	1.30	30.38	2KJ1504 - □FM13 - □□R1		62
	51	61	565	1.50	27.99 ★	2KJ1504 - □FM13 - □□Q1		62
	56	67	513	1.60	25.42	2KJ1504 - □FM13 - □□P1		62
	61	73	467	1.80	23.16 ★	2KJ1504 - □FM13 - □□N1		62
	67	80	428	1.90	21.22	2KJ1504 - □FM13 - □□M1		62
	75	90	382	2.10	18.93 ★	2KJ1504 - □FM13 - □□L1		62
	84	101	341	2.40	16.89	2KJ1504 - □FM13 - □□K1		62
	99	119	290	2.80	14.35	2KJ1504 - □FM13 - □□J1		62
	119	143	241	3.20	11.94 ★	2KJ1504 - □FM13 - □□H1		62
	124	149	230	1.90	11.41	2KJ1504 - □FM13 - □□G1		62
	137	164	210	2.00	10.40 ★	2KJ1504 - □FM13 - □□F1		62
	149	179	192	2.10	9.52	2KJ1504 - □FM13 - □□E1		62
	167	200	171	2.30	8.50 ★	2KJ1504 - □FM13 - □□D1		62
	187	224	153	2.50	7.58	2KJ1504 - □FM13 - □□C1		62
	220	264	130	2.80	6.44	2KJ1504 - □FM13 - □□B1		62
	265	318	108	3.20	5.36 ★	2KJ1504 - □FM13 - □□A1		62
	<b>K.48-LA100LB4</b>							
	52	62	556	0.81	27.55 ★	2KJ1503 - □FM13 - □□P1		43
	57	68	501	0.90	24.85	2KJ1503 - □FM13 - □□N1		43
	63	76	455	0.99	22.54 ★	2KJ1503 - □FM13 - □□M1		43
	69	83	414	1.10	20.54	2KJ1503 - □FM13 - □□L1		43
	76	91	379	1.20	18.78 ★	2KJ1503 - □FM13 - □□K1		43
	85	102	339	1.30	16.79	2KJ1503 - □FM13 - □□J1		43
	92	110	311	1.40	15.42 ★	2KJ1503 - □FM13 - □□H1		43
	102	122	280	1.60	13.90	2KJ1503 - □FM13 - □□G1		43
	119	143	241	1.70	11.95 ★	2KJ1503 - □FM13 - □□F1		43
	125	150	229	1.30	11.35 ★	2KJ1503 - □FM13 - □□E1		43
	140	168	205	1.40	10.15	2KJ1503 - □FM13 - □□D1		43
	152	182	188	1.50	9.32 ★	2KJ1503 - □FM13 - □□C1		43
	169	203	169	1.60	8.40	2KJ1503 - □FM13 - □□B1		43
	197	236	146	1.80	7.22 ★	2KJ1503 - □FM13 - □□A1		43

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
<b>3.0 (50 Hz)</b>	<b>K.38-LA100LB4</b>							
3.6 (60 Hz)	146	175	196	0.81	9.72	2KJ1502 - □FM13 - □□F1		39
	160	192	179	0.89	8.85 ★	2KJ1502 - □FM13 - □□E1		39
	182	218	158	1.00	7.82	2KJ1502 - □FM13 - □□D1		39
	197	236	146	1.10	7.22 ★	2KJ1502 - □FM13 - □□C1		39
	228	274	125	1.20	6.22	2KJ1502 - □FM13 - □□B1		39
	251	301	114	1.30	5.65 ★	2KJ1502 - □FM13 - □□A1		39
	<b>B.38-LA100LB4</b>							
	114	137	252	0.87	12.50	2KJ1501 - □FM13 - □□C2		41
	129	155	223	1.00	11.05	2KJ1501 - □FM13 - □□A2		41
	142	170	202	1.10	10.02	2KJ1501 - □FM13 - □□X1		41
	161	193	178	1.30	8.84	2KJ1501 - □FM13 - □□U1		41
	178	214	161	1.50	7.98	2KJ1501 - □FM13 - □□S1		41
	196	235	146	1.60	7.24	2KJ1501 - □FM13 - □□R1		41
	215	258	133	1.80	6.59	2KJ1501 - □FM13 - □□P1		41
	235	282	122	1.90	6.03	2KJ1501 - □FM13 - □□M1		41
	263	316	109	1.90	5.39	2KJ1501 - □FM13 - □□K1		41
	287	344	100	2.20	4.95	2KJ1501 - □FM13 - □□H1		41
	318	382	90	2.40	4.46	2KJ1501 - □FM13 - □□F1		41
	370	444	78	2.60	3.84	2KJ1501 - □FM13 - □□C1		41
	<b>B.28-LA100LB4</b>							
	254	305	113	0.80	5.58	2KJ1500 - □FM13 - □□E1		29
	287	344	100	0.90	4.94	2KJ1500 - □FM13 - □□D1		29
	311	373	92	0.95	4.56	2KJ1500 - □FM13 - □□C1		29
	362	434	79	1.00	3.92	2KJ1500 - □FM13 - □□B1		29
	398	478	72	1.10	3.57	2KJ1500 - □FM13 - □□A1		29
<b>4.0 (50 Hz)</b>	<b>K.188-Z68-LA112MB4</b>							
4.8 (60 Hz)	1.5	1.8	23702	0.84	968 ★	2KJ1541 - □GH13 - □□C1		772
	1.8	2.2	19760	1.00	807	2KJ1541 - □GH13 - □□B1		772
	2.2	2.6	16381	1.20	669 ★	2KJ1541 - □GH13 - □□A1		772
	<b>K.188-Z88-LA112MB4</b>							
	2.2	2.6	16381	1.2	669 ★	2KJ1543 - □GH13 - □□H1		805
	2.6	3.1	13418	1.5	548 ★	2KJ1543 - □GH13 - □□G1		805
	2.9	3.5	12316	1.6	503	2KJ1543 - □GH13 - □□F1		805
	3.4	4.1	10504	1.9	429 ★	2KJ1543 - □GH13 - □□E1		805
	<b>K.188-LA160M8</b>							
	3.7	4.4	10223	2.0	191.34	2KJ1511 - □JE13 - □□U1-Z	P02	800
	<b>K.168-LA132MA6</b>							
	3.3	4.0	11579	1.2	287.95 ★	2KJ1510 - □HG13 - □□H2-Z	P01	527
	3.6	4.3	10623	1.3	264.18	2KJ1510 - □HG13 - □□G2-Z	P01	527
	3.9	4.7	9803	1.4	243.80 ★	2KJ1510 - □HG13 - □□F2-Z	P01	527
	4.2	5.0	9094	1.5	226.15	2KJ1510 - □HG13 - □□E2-Z	P01	527
	4.5	5.4	8578	1.6	213.33 ★	2KJ1510 - □HG13 - □□D2-Z	P01	527
	4.8	5.8	8024	1.7	199.54	2KJ1510 - □HG13 - □□C2-Z	P01	527

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
4.0 (50 Hz)	<b>K.148-LA132MA6</b>							
4.8 (60 Hz)	4.1	4.9	9327	0.86	231.95 ★	2KJ1508 - □ HG13 - □ K2-Z	P01	342
	4.4	5.3	8644	0.93	214.96	2KJ1508 - □ HG13 - □ J2-Z	P01	342
	<b>K.148-LA112MB4</b>							
	4.7	5.6	8120	0.99	306.08	2KJ1508 - □ GH13 - □ N2		324
	5.2	6.2	7280	1.10	274.42 ★	2KJ1508 - □ GH13 - □ M2		324
	5.7	6.8	6673	1.20	251.55	2KJ1508 - □ GH13 - □ L2		324
	6.2	7.4	6153	1.30	231.95 ★	2KJ1508 - □ GH13 - □ K2		324
	6.7	8.0	5702	1.40	214.96	2KJ1508 - □ GH13 - □ J2		324
	7.0	8.4	5422	1.50	204.38 ★	2KJ1508 - □ GH13 - □ H2		324
	7.5	9.0	5067	1.60	191.02	2KJ1508 - □ GH13 - □ G2		324
	8.5	10.2	4470	1.80	168.50 ★	2KJ1508 - □ GH13 - □ F2		324
	9.1	10.9	4216	1.90	158.93	2KJ1508 - □ GH13 - □ E2		324
	10.1	12.1	3778	2.10	142.41 ★	2KJ1508 - □ GH13 - □ D2		324
	<b>K.128-LA112MB4</b>							
	6.5	7.8	5880	0.80	221.64	2KJ1507 - □ GH13 - □ H2		224
	7.1	8.5	5416	0.87	204.18 ★	2KJ1507 - □ GH13 - □ G2		224
	7.6	9.1	5015	0.94	189.04	2KJ1507 - □ GH13 - □ F2		224
	8.2	9.8	4664	1.00	175.80 ★	2KJ1507 - □ GH13 - □ E2		224
	8.8	10.6	4353	1.10	164.11	2KJ1507 - □ GH13 - □ D2		224
	9.8	11.8	3895	1.20	146.84 ★	2KJ1507 - □ GH13 - □ C2		224
	10.6	12.7	3609	1.30	136.06	2KJ1507 - □ GH13 - □ B2		224
	11.5	13.8	3309	1.40	124.73 ★	2KJ1507 - □ GH13 - □ A2		224
	12.6	15.1	3033	1.50	114.34	2KJ1507 - □ GH13 - □ X1		224
	14.8	17.8	2585	1.80	97.44	2KJ1507 - □ GH13 - □ W1		224
	16.7	20.0	2281	2.10	85.98 ★	2KJ1507 - □ GH13 - □ V1		224
	<b>K.108-LA112MB4</b>							
	10.4	12.5	3684	0.81	138.87	2KJ1506 - □ GH13 - □ B2		153
	11.2	13.4	3418	0.88	128.86 ★	2KJ1506 - □ GH13 - □ A2		153
	12.0	14.4	3184	0.94	120.03	2KJ1506 - □ GH13 - □ X1		153
	13.3	16.0	2879	1.00	108.52 ★	2KJ1506 - □ GH13 - □ W1		153
	14.4	17.3	2650	1.10	99.90	2KJ1506 - □ GH13 - □ V1		153
	16.0	19.2	2384	1.30	89.85 ★	2KJ1506 - □ GH13 - □ U1		153
	17.4	21.0	2199	1.40	82.90	2KJ1506 - □ GH13 - □ T1		153
	20.0	24.0	1863	1.60	70.24	2KJ1506 - □ GH13 - □ S1		153
	24.0	29.0	1624	1.80	61.22 ★	2KJ1506 - □ GH13 - □ R1		153
	28.0	34.0	1382	2.20	52.08	2KJ1506 - □ GH13 - □ Q1		153
	<b>K.108-LA112MB4</b>							
	32	38	1179	2.50	44.44 ★	2KJ1506 - □ GH13 - □ P1		153
	<b>K.88-LA112MB4</b>							
	19.1	23	2002	0.82	75.45 ★	2KJ1505 - □ GH13 - □ V1		99
	21.0	25	1846	0.89	69.57	2KJ1505 - □ GH13 - □ U1		99
	25.0	30	1548	1.10	58.37	2KJ1505 - □ GH13 - □ T1		99
	29.0	35	1321	1.20	49.80 ★	2KJ1505 - □ GH13 - □ S1		99
	35.0	42	1101	1.50	41.50	2KJ1505 - □ GH13 - □ Q1		99

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque $T_2$ Nm	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm						
<b>4.0 (50 Hz) K.88-LA112MB4</b>								
4.8 (60 Hz)	42	50	913	1.8	34.40	★ 2KJ1505 - □ GH13 - □□ P1		99
	47	56	819	2.0	30.87	★ 2KJ1505 - □ GH13 - □□ N1		99
	50	60	756	2.2	28.50	2KJ1505 - □ GH13 - □□ M1		99
	56	67	677	2.4	25.53	★ 2KJ1505 - □ GH13 - □□ L1		99
	61	73	624	2.6	23.54	2KJ1505 - □ GH13 - □□ K1		99
	73	88	524	3.0	19.75	2KJ1505 - □ GH13 - □□ J1		99
	128	154	297	2.7	11.21	2KJ1505 - □ GH13 - □□ E1		99
	153	184	250	3.1	9.41	2KJ1505 - □ GH13 - □□ D1		99
	179	215	213	3.4	8.03	★ 2KJ1505 - □ GH13 - □□ C1		99
	215	258	177	3.9	6.69	2KJ1505 - □ GH13 - □□ B1		99
	260	312	147	4.4	5.54	★ 2KJ1505 - □ GH13 - □□ A1		99
<b>K.68-LA112MB4</b>								
	44	53	870	0.94	32.78	★ 2KJ1504 - □ GH13 - □□ S1		69
	47	56	806	1.00	30.38	2KJ1504 - □ GH13 - □□ R1		69
	51	61	743	1.10	27.99	★ 2KJ1504 - □ GH13 - □□ Q1		69
	57	68	674	1.20	25.42	2KJ1504 - □ GH13 - □□ P1		69
	62	74	614	1.30	23.16	★ 2KJ1504 - □ GH13 - □□ N1		69
	68	82	563	1.50	21.22	2KJ1504 - □ GH13 - □□ M1		69
	76	91	502	1.60	18.93	★ 2KJ1504 - □ GH13 - □□ L1		69
	85	102	448	1.80	16.89	2KJ1504 - □ GH13 - □□ K1		69
	100	120	381	2.10	14.35	2KJ1504 - □ GH13 - □□ J1		69
	121	145	317	2.40	11.94	★ 2KJ1504 - □ GH13 - □□ H1		69
	126	151	303	1.40	11.41	2KJ1504 - □ GH13 - □□ G1		69
	138	166	276	1.50	10.40	★ 2KJ1504 - □ GH13 - □□ F1		69
	151	181	253	1.60	9.52	2KJ1504 - □ GH13 - □□ E1		69
	169	203	225	1.80	8.50	★ 2KJ1504 - □ GH13 - □□ D1		69
	190	228	201	1.90	7.58	2KJ1504 - □ GH13 - □□ C1		69
	224	269	171	2.10	6.44	2KJ1504 - □ GH13 - □□ B1		69
	269	323	142	2.40	5.36	★ 2KJ1504 - □ GH13 - □□ A1		69
<b>K.48-LA112MB4</b>								
	70	84	545	0.83	20.54	2KJ1503 - □ GH13 - □□ L1		50
	77	92	498	0.90	18.78	★ 2KJ1503 - □ GH13 - □□ K1		50
	86	103	445	1.00	16.79	2KJ1503 - □ GH13 - □□ J1		50
	93	112	409	1.10	15.42	★ 2KJ1503 - □ GH13 - □□ H1		50
	104	125	369	1.20	13.90	2KJ1503 - □ GH13 - □□ G1		50
	121	145	317	1.30	11.95	★ 2KJ1503 - □ GH13 - □□ F1		50
	127	152	301	0.97	11.35	★ 2KJ1503 - □ GH13 - □□ E1		50
	142	170	269	1.10	10.15	2KJ1503 - □ GH13 - □□ D1		50
	155	186	247	1.10	9.32	★ 2KJ1503 - □ GH13 - □□ C1		50
	171	205	223	1.20	8.40	2KJ1503 - □ GH13 - □□ B1		50
	199	239	192	1.30	7.22	★ 2KJ1503 - □ GH13 - □□ A1		50
<b>K.38-LA112MB4</b>								
	199	239	192	0.83	7.22	★ 2KJ1502 - □ GH13 - □□ C1		46
	232	278	165	0.92	6.22	2KJ1502 - □ GH13 - □□ B1		46

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
4.0 (50 Hz)	<b>K.38-LA112MB4</b>							
4.8 (60 Hz)	255	306	150	0.99	5.65 ★	2KJ1502 - □HF13 - □□A1		46
5.5 (50 Hz)	<b>K.188-Z68-LA132SB4</b>							
6.6 (60 Hz)	2.2	2.6	22338	0.9	669 ★	2KJ1541 - □HF13 - □□A1		782
	<b>K.188-Z88-LA132SB4</b>							
	2.2	2.6	22338	0.9	669 ★	2KJ1543 - □HF13 - □□H1		815
	2.7	3.2	18297	1.1	548 ★	2KJ1543 - □HF13 - □□G1		815
	2.9	3.5	16795	1.2	503	2KJ1543 - □HF13 - □□F1		815
	3.4	4.1	14324	1.4	429 ★	2KJ1543 - □HF13 - □□E1		815
	<b>K.188-LA160MB8</b>							
	3.7	4.4	14155	1.4	191.34	2KJ1511 - □JF13 - □□U1-Z	P02	800
	4.1	4.9	12782	1.6	172.78	2KJ1511 - □JF13 - □□T1-Z	P02	800
	4.4	5.3	11979	1.7	161.92	2KJ1511 - □JF13 - □□S1-Z	P02	800
	<b>K.188-LA132MB6</b>							
	5.0	6.0	10579	1.9	191.34	2KJ1511 - □HJ13 - □□U1-Z	P01	776
	5.5	6.6	9553	2.1	172.78	2KJ1511 - □HJ13 - □□T1-Z	P01	776
	<b>K.168-LA132MB6</b>							
	3.3	4.0	15921	0.85	287.95 ★	2KJ1510 - □HJ13 - □□H2-Z	P01	527
	3.6	4.3	14606	0.92	264.18	2KJ1510 - □HJ13 - □□G2-Z	P01	527
	3.9	4.7	13480	1.00	243.80 ★	2KJ1510 - □HJ13 - □□F2-Z	P01	527
	4.2	5.0	12504	1.10	226.15	2KJ1510 - □HJ13 - □□E2-Z	P01	527
	4.5	5.4	11795	1.10	213.33 ★	2KJ1510 - □HJ13 - □□D2-Z	P01	527
	4.8	5.8	11032	1.20	199.54	2KJ1510 - □HJ13 - □□C2-Z	P01	527
	<b>K.168-LA132SB4</b>							
	5.1	6.1	10395	1.3	287.95 ★	2KJ1510 - □HF13 - □□H2		519
	5.5	6.6	9537	1.4	264.18	2KJ1510 - □HF13 - □□G2		519
	6.0	7.2	8801	1.5	243.80 ★	2KJ1510 - □HF13 - □□F2		519
	6.4	7.7	8164	1.7	226.15	2KJ1510 - □HF13 - □□E2		519
	6.8	8.2	7701	1.8	213.33 ★	2KJ1510 - □HF13 - □□D2		519
	7.3	8.8	7203	1.9	199.54	2KJ1510 - □HF13 - □□C2		519
	8.2	9.8	6405	2.1	177.43 ★	2KJ1510 - □HF13 - □□B2		519
	<b>K.148-LA132SB4</b>							
	5.3	6.4	9906	0.81	274.42 ★	2KJ1508 - □HF13 - □□M2		334
	5.8	7.0	9081	0.88	251.55	2KJ1508 - □HF13 - □□L2		334
	6.3	7.6	8373	0.96	231.95 ★	2KJ1508 - □HF13 - □□K2		334
	6.8	8.2	7760	1.00	214.96	2KJ1508 - □HF13 - □□J2		334
	7.1	8.5	7378	1.10	204.38 ★	2KJ1508 - □HF13 - □□H2		334
	7.6	9.1	6896	1.20	191.02	2KJ1508 - □HF13 - □□G2		334
	8.6	10.3	6083	1.30	168.50 ★	2KJ1508 - □HF13 - □□F2		334
	9.2	11.0	5737	1.40	158.93	2KJ1508 - □HF13 - □□E2		334
	10.2	12.2	5141	1.60	142.41 ★	2KJ1508 - □HF13 - □□D2		334
	11.1	13.3	4747	1.70	131.49	2KJ1508 - □HF13 - □□C2		334
	13.0	15.6	4056	2.00	112.35	2KJ1508 - □HF13 - □□B2		334
	14.3	17.2	3665	2.20	101.53 ★	2KJ1508 - □HF13 - □□A2		334

★ Preferred transmission ratio

Shaft designs, see page 4/87

1, 2, 3, 5, 6, or 9

Frequency and voltage, see page 8/15

1 to 9

Gear unit housing mounting position, see page 4/84

A, D, E, F, H, or M

Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque <i>T</i> <sub>2</sub> Nm	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm						
<b>K.128-LA132SB4</b>								
5.5 (50 Hz)	9.9	11.9	5301	0.89	146.84	★ 2KJ1507 - □HF13 - □□C2		234
6.6 (60 Hz)	10.7	12.8	4912	0.96	136.06	2KJ1507 - □HF13 - □□B2		234
	11.7	14.0	4503	1.00	124.73	★ 2KJ1507 - □HF13 - □□A2		234
	12.7	15.2	4128	1.10	114.34	2KJ1507 - □HF13 - □□X1		234
	14.9	17.9	3518	1.30	97.44	2KJ1507 - □HF13 - □□W1		234
	16.9	20.0	3104	1.50	85.98	★ 2KJ1507 - □HF13 - □□V1		234
	19.9	24.0	2642	1.80	73.18	2KJ1507 - □HF13 - □□U1		234
	23.0	28.0	2289	2.10	63.41	★ 2KJ1507 - □HF13 - □□T1		234
	27.0	32.0	1926	2.40	53.36	★ 2KJ1507 - □HF13 - □□S1		234
<b>K.108-LA132SB4</b>								
	14.6	17.5	3606	0.83	99.90	2KJ1506 - □HF13 - □□V1		163
	16.2	19.4	3244	0.92	89.85	★ 2KJ1506 - □HF13 - □□U1		163
	17.6	21.0	2993	1.00	82.90	2KJ1506 - □HF13 - □□T1		163
	21.0	25.0	2536	1.20	70.24	2KJ1506 - □HF13 - □□S1		163
	24.0	29.0	2210	1.40	61.22	★ 2KJ1506 - □HF13 - □□R1		163
	28.0	34.0	1880	1.60	52.08	2KJ1506 - □HF13 - □□Q1		163
	33.0	40.0	1604	1.90	44.44	★ 2KJ1506 - □HF13 - □□P1		163
	40.0	48.0	1315	2.20	36.44	★ 2KJ1506 - □HF13 - □□N1		163
	43.0	52.0	1223	2.50	33.87	★ 2KJ1506 - □HF13 - □□M1		163
	47.0	56.0	1128	2.70	31.25	2KJ1506 - □HF13 - □□L1		163
<b>K.88-LA132SB4</b>								
	29	35	1798	0.92	49.80	★ 2KJ1505 - □HF13 - □□S1		109
	35	42	1498	1.10	41.50	2KJ1505 - □HF13 - □□Q1		109
	42	50	1242	1.30	34.40	★ 2KJ1505 - □HF13 - □□P1		109
	47	56	1114	1.50	30.87	★ 2KJ1505 - □HF13 - □□N1		109
	51	61	1029	1.60	28.50	2KJ1505 - □HF13 - □□M1		109
	57	68	922	1.80	25.53	★ 2KJ1505 - □HF13 - □□L1		109
	62	74	850	1.90	23.54	2KJ1505 - □HF13 - □□K1		109
	74	89	713	2.20	19.75	2KJ1505 - □HF13 - □□J1		109
	86	103	608	2.50	16.85	★ 2KJ1505 - □HF13 - □□H1		109
	104	125	507	2.80	14.04	2KJ1505 - □HF13 - □□G1		109
	125	150	420	3.20	11.64	★ 2KJ1505 - □HF13 - □□F1		109
	130	156	405	2.00	11.21	2KJ1505 - □HF13 - □□E1		109
	155	186	340	2.20	9.41	2KJ1505 - □HF13 - □□D1		109
	181	217	290	2.50	8.03	★ 2KJ1505 - □HF13 - □□C1		109
	217	260	242	2.90	6.69	2KJ1505 - □HF13 - □□B1		109
	263	316	200	3.30	5.54	★ 2KJ1505 - □HF13 - □□A1		109
<b>K.68-LA132SB4</b>								
	52	62	1010	0.81	27.99	★ 2KJ1504 - □HF13 - □□Q1		79
	57	68	918	0.89	25.42	2KJ1504 - □HF13 - □□P1		79
	63	76	836	0.98	23.16	★ 2KJ1504 - □HF13 - □□N1		79
	69	83	766	1.10	21.22	2KJ1504 - □HF13 - □□M1		79
	77	92	683	1.20	18.93	★ 2KJ1504 - □HF13 - □□L1		79
	86	103	610	1.30	16.89	2KJ1504 - □HF13 - □□K1		79

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
5.5 (50 Hz)	<b>K.68-LA132SB4</b>							
6.6 (60 Hz)	101	121	518	1.6	14.35	2KJ1504 - □HF13 - □□J1		79
	122	146	431	1.8	11.94 ★	2KJ1504 - □HF13 - □□H1		79
	128	154	412	1.1	11.41	2KJ1504 - □HF13 - □□G1		79
	140	168	375	1.1	10.40 ★	2KJ1504 - □HF13 - □□F1		79
	153	184	344	1.2	9.52	2KJ1504 - □HF13 - □□E1		79
	171	205	307	1.3	8.50 ★	2KJ1504 - □HF13 - □□D1		79
	192	230	274	1.4	7.58	2KJ1504 - □HF13 - □□C1		79
	226	271	232	1.6	6.44	2KJ1504 - □HF13 - □□B1		79
	271	325	193	1.8	5.36 ★	2KJ1504 - □HF13 - □□A1		79
7.5 (50 Hz)	<b>K.188-Z88-LA132M4</b>							
9.0 (60 Hz)	2.7	3.2	24988	0.80	548 ★	2KJ1543 - □HH13 - □□G1		823
	2.9	3.5	22936	0.87	503	2KJ1543 - □HH13 - □□F1		823
	3.4	4.1	19561	1.00	429 ★	2KJ1543 - □HH13 - □□E1		823
<b>K.188-LA160MB6</b>								
	5.0	6.0	14276	1.4	191.34	2KJ1511 - □JF13 - □□U1-Z	P01	800
	5.6	6.7	12891	1.6	172.78	2KJ1511 - □JF13 - □□T1-Z	P01	800
	5.9	7.1	12081	1.7	161.92	2KJ1511 - □JF13 - □□S1-Z	P01	800
	6.9	8.3	10377	1.9	139.08 ★	2KJ1511 - □JF13 - □□R1-Z	P01	800
<b>K.188-LA132M4</b>								
	7.6	9.1	9419	2.1	191.34	2KJ1511 - □HH13 - □□U1		776
<b>K.168-LA160MB6</b>								
	4.5	5.4	15916	0.85	213.33 ★	2KJ1510 - □JF13 - □□D2-Z	P01	551
	4.8	5.8	14888	0.91	199.54	2KJ1510 - □JF13 - □□C2-Z	P01	551
<b>K.168-LA132M4</b>								
	5.1	6.1	14175	0.95	287.95 ★	2KJ1510 - □HH13 - □□H2		527
	5.5	6.6	13005	1.00	264.18	2KJ1510 - □HH13 - □□G2		527
	6.0	7.2	12001	1.10	243.80 ★	2KJ1510 - □HH13 - □□F2		527
	6.4	7.7	11133	1.20	226.15	2KJ1510 - □HH13 - □□E2		527
	6.8	8.2	10502	1.30	213.33 ★	2KJ1510 - □HH13 - □□D2		527
	7.3	8.8	9823	1.40	199.54	2KJ1510 - □HH13 - □□C2		527
	8.2	9.8	8734	1.50	177.43 ★	2KJ1510 - □HH13 - □□B2		527
	8.7	10.4	8245	1.60	167.50	2KJ1510 - □HH13 - □□A2		527
	9.7	11.6	7402	1.80	150.36 ★	2KJ1510 - □HH13 - □□X1		527
	10.5	12.6	6793	2.00	138.00	2KJ1510 - □HH13 - □□W1		527
<b>K.148-LA132M4</b>								
	7.1	8.5	10061	0.80	204.38 ★	2KJ1508 - □HH13 - □□H2		342
	7.6	9.1	9403	0.85	191.02	2KJ1508 - □HH13 - □□G2		342
	8.6	10.3	8295	0.96	168.50 ★	2KJ1508 - □HH13 - □□F2		342
	9.2	11.0	7824	1.00	158.93	2KJ1508 - □HH13 - □□E2		342
	10.2	12.2	7010	1.10	142.41 ★	2KJ1508 - □HH13 - □□D2		342
	11.1	13.3	6473	1.20	131.49	2KJ1508 - □HH13 - □□C2		342
	13.0	15.6	5531	1.40	112.35	2KJ1508 - □HH13 - □□B2		342
	14.3	17.2	4998	1.60	101.53 ★	2KJ1508 - □HH13 - □□A2		342

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
7.5 (50 Hz)	<b>K.148-LA132M4</b>							
9.0 (60 Hz)	14.9	17.9	4815	1.7	97.82	2KJ1508 - □ HH13 - □□ X1		342
	17.2	21.0	4165	1.9	84.61	2KJ1508 - □ HH13 - □□ W1		342
	19.7	24.0	3633	2.2	73.80 ★	2KJ1508 - □ HH13 - □□ V1		342
	<b>K.128-LA132M4</b>							
	12.7	15.2	5629	0.84	114.34	2KJ1507 - □ HH13 - □□ X1		242
	14.9	17.9	4797	0.98	97.44	2KJ1507 - □ HH13 - □□ W1		242
	16.9	20.0	4233	1.10	85.98 ★	2KJ1507 - □ HH13 - □□ V1		242
	19.9	24.0	3602	1.30	73.18	2KJ1507 - □ HH13 - □□ U1		242
	23.0	28.0	3121	1.50	63.41 ★	2KJ1507 - □ HH13 - □□ T1		242
	27.0	32.0	2627	1.80	53.36 ★	2KJ1507 - □ HH13 - □□ S1		242
	30.0	36.0	2370	2.00	48.14	2KJ1507 - □ HH13 - □□ R1		242
	35.0	42.0	2037	2.30	41.38 ★	2KJ1507 - □ HH13 - □□ Q1		242
	37.0	44.0	1929	2.40	39.19 ★	2KJ1507 - □ HH13 - □□ P1		242
	40.0	48.0	1768	2.70	35.92	2KJ1507 - □ HH13 - □□ N1		242
	<b>K.108-LA132M4</b>							
	21	25	3458	0.87	70.24	2KJ1506 - □ HH13 - □□ S1		171
	24	29	3014	1.00	61.22 ★	2KJ1506 - □ HH13 - □□ R1		171
	28	34	2564	1.20	52.08	2KJ1506 - □ HH13 - □□ Q1		171
	33	40	2188	1.40	44.44 ★	2KJ1506 - □ HH13 - □□ P1		171
	40	48	1794	1.60	36.44 ★	2KJ1506 - □ HH13 - □□ N1		171
	43	52	1667	1.80	33.87 ★	2KJ1506 - □ HH13 - □□ M1		171
	47	56	1538	2.00	31.25	2KJ1506 - □ HH13 - □□ L1		171
	55	66	1304	2.20	26.48	2KJ1506 - □ HH13 - □□ K1		171
	63	76	1136	2.40	23.08 ★	2KJ1506 - □ HH13 - □□ J1		171
	74	89	966	2.70	19.63	2KJ1506 - □ HH13 - □□ G1		171
	87	104	825	3.00	16.75 ★	2KJ1506 - □ HH13 - □□ F1		171
	106	127	676	3.50	13.74 ★	2KJ1506 - □ HH13 - □□ E1		171
	113	136	635	3.10	12.90 ★	2KJ1506 - □ HH13 - □□ D1		171
	133	160	540	3.40	10.97	2KJ1506 - □ HH13 - □□ C1		171
	155	186	461	3.80	9.36 ★	2KJ1506 - □ HH13 - □□ B1		171
	<b>K.88-LA132M4</b>							
	35	42	2043	0.81	41.50	2KJ1505 - □ HH13 - □□ Q1		117
	42	50	1693	0.97	34.40 ★	2KJ1505 - □ HH13 - □□ P1		117
	47	56	1520	1.10	30.87 ★	2KJ1505 - □ HH13 - □□ N1		117
	51	61	1403	1.20	28.50	2KJ1505 - □ HH13 - □□ M1		117
	57	68	1257	1.30	25.53 ★	2KJ1505 - □ HH13 - □□ L1		117
	62	74	1159	1.40	23.54	2KJ1505 - □ HH13 - □□ K1		117
	74	89	972	1.60	19.75	2KJ1505 - □ HH13 - □□ J1		117
	86	103	829	1.80	16.85 ★	2KJ1505 - □ HH13 - □□ H1		117
	104	125	691	2.10	14.04	2KJ1505 - □ HH13 - □□ G1		117
	125	150	573	2.30	11.64 ★	2KJ1505 - □ HH13 - □□ F1		117
	130	156	552	1.50	11.21	2KJ1505 - □ HH13 - □□ E1		117
	155	186	463	1.60	9.41	2KJ1505 - □ HH13 - □□ D1		117
	181	217	395	1.80	8.03 ★	2KJ1505 - □ HH13 - □□ C1		117

★ Preferred transmission ratio

Shaft designs, see page 4/87

1, 2, 3, 5, 6, or 9

Frequency and voltage, see page 8/15

1 to 9

Gear unit housing mounting position, see page 4/84

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque <i>T</i> <sub>2</sub> Nm	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm						
7.5 (50 Hz)	<b>K.88-LA132M4</b>							
9.0 (60 Hz)	<b>217</b>	<b>260</b>	329	2.1	6.69	<b>2KJ1505 - HH13 - B1</b>		117
	<b>263</b>	<b>316</b>	273	2.4	5.54 ★	<b>2KJ1505 - HH13 - A1</b>		117
	<b>K.68-LA132M4</b>							
	<b>77</b>	<b>92</b>	932	0.88	18.93 ★	<b>2KJ1504 - HH13 - L1</b>		87
	<b>86</b>	<b>103</b>	831	0.99	16.89	<b>2KJ1504 - HH13 - K1</b>		87
	<b>101</b>	<b>121</b>	706	1.10	14.35	<b>2KJ1504 - HH13 - J1</b>		87
	<b>122</b>	<b>146</b>	588	1.30	11.94 ★	<b>2KJ1504 - HH13 - H1</b>		87
	<b>140</b>	<b>168</b>	512	0.82	10.40 ★	<b>2KJ1504 - HH13 - F1</b>		87
	<b>153</b>	<b>184</b>	469	0.88	9.52	<b>2KJ1504 - HH13 - E1</b>		87
	<b>171</b>	<b>205</b>	418	0.95	8.50 ★	<b>2KJ1504 - HH13 - D1</b>		87
	<b>192</b>	<b>230</b>	373	1.00	7.58	<b>2KJ1504 - HH13 - C1</b>		87
	<b>226</b>	<b>271</b>	317	1.20	6.44	<b>2KJ1504 - HH13 - B1</b>		87
	<b>271</b>	<b>325</b>	264	1.30	5.36 ★	<b>2KJ1504 - HH13 - A1</b>		87
9.2 (50 Hz)	<b>K.188-Z88-LA132ZMP4</b>							
11.0 (60 Hz)	<b>3.4</b>	<b>4.1</b>	24013	0.83	429.00 ★	<b>2KJ1543 - HT13 - E1</b>		823
	<b>K.188-LA132ZMP4</b>							
	<b>7.6</b>	<b>9.1</b>	11554	1.7	191.34	<b>2KJ1511 - HT13 - U1</b>		776
	<b>8.4</b>	<b>10.1</b>	10433	1.9	172.78	<b>2KJ1511 - HT13 - T1</b>		776
	<b>9.0</b>	<b>10.8</b>	9778	2.0	161.92	<b>2KJ1511 - HT13 - S1</b>		776
	<b>K.168-LA132ZMP4</b>							
	<b>5.5</b>	<b>6.6</b>	15952	0.85	264.18	<b>2KJ1510 - HT13 - G2</b>		527
	<b>6.0</b>	<b>7.2</b>	14722	0.92	243.80 ★	<b>2KJ1510 - HT13 - F2</b>		527
	<b>6.4</b>	<b>7.7</b>	13656	0.99	226.15	<b>2KJ1510 - HT13 - E2</b>		527
	<b>6.8</b>	<b>8.2</b>	12882	1.00	213.33 ★	<b>2KJ1510 - HT13 - D2</b>		527
	<b>7.3</b>	<b>8.8</b>	12049	1.10	199.54	<b>2KJ1510 - HT13 - C2</b>		527
	<b>8.2</b>	<b>9.8</b>	10714	1.30	177.43 ★	<b>2KJ1510 - HT13 - B2</b>		527
	<b>8.7</b>	<b>10.4</b>	10114	1.30	167.50	<b>2KJ1510 - HT13 - A2</b>		527
	<b>9.7</b>	<b>11.6</b>	9079	1.50	150.36 ★	<b>2KJ1510 - HT13 - X1</b>		527
	<b>10.5</b>	<b>12.6</b>	8333	1.60	138.00	<b>2KJ1510 - HT13 - W1</b>		527
	<b>12.2</b>	<b>14.6</b>	7191	1.90	119.09	<b>2KJ1510 - HT13 - V1</b>		527
	<b>14.0</b>	<b>16.8</b>	6291	2.10	104.18	<b>2KJ1510 - HT13 - U1</b>		527
	<b>K.148-LA132ZMP4</b>							
	<b>9.2</b>	<b>11.0</b>	9597	0.83	158.93	<b>2KJ1508 - HT13 - E2</b>		342
	<b>10.2</b>	<b>12.2</b>	8599	0.93	142.41 ★	<b>2KJ1508 - HT13 - D2</b>		342
	<b>11.1</b>	<b>13.3</b>	7940	1.00	131.49	<b>2KJ1508 - HT13 - C2</b>		342
	<b>13.0</b>	<b>15.6</b>	6784	1.20	112.35	<b>2KJ1508 - HT13 - B2</b>		342
	<b>14.3</b>	<b>17.2</b>	6131	1.30	101.53 ★	<b>2KJ1508 - HT13 - A2</b>		342
	<b>14.9</b>	<b>17.9</b>	5907	1.40	97.82	<b>2KJ1508 - HT13 - X1</b>		342
	<b>17.2</b>	<b>21.0</b>	5109	1.60	84.61	<b>2KJ1508 - HT13 - W1</b>		342
	<b>19.7</b>	<b>24.0</b>	4456	1.80	73.80 ★	<b>2KJ1508 - HT13 - V1</b>		342
	<b>23.0</b>	<b>28.0</b>	3814	2.10	63.16 ★	<b>2KJ1508 - HT13 - U1</b>		342
	<b>26.0</b>	<b>31.0</b>	3416	2.30	56.57	<b>2KJ1508 - HT13 - T1</b>		342

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque <i>T<sub>2</sub></i> Nm	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm						
<b>K.128-LA132ZMP4</b>								
9.2 (50 Hz) 11.0 (60 Hz)	14.9	17.9	5884	0.80	97.44	2KJ1507 - HT13 - W1		242
	16.9	20.0	5192	0.91	85.98 ★	2KJ1507 - HT13 - V1		242
	19.9	24.0	4419	1.10	73.18	2KJ1507 - HT13 - U1		242
	23.0	28.0	3829	1.20	63.41 ★	2KJ1507 - HT13 - T1		242
	27.0	32.0	3222	1.50	53.36 ★	2KJ1507 - HT13 - S1		242
	30.0	36.0	2907	1.60	48.14	2KJ1507 - HT13 - R1		242
	35.0	42.0	2499	1.90	41.38 ★	2KJ1507 - HT13 - Q1		242
	37.0	44.0	2366	2.00	39.19 ★	2KJ1507 - HT13 - P1		242
	40.0	48.0	2169	2.20	35.92	2KJ1507 - HT13 - N1		242
	48.0	58.0	1848	2.50	30.61	2KJ1507 - HT13 - M1		242
	54.0	65.0	1632	2.90	27.02 ★	2KJ1507 - HT13 - L1		242
<b>K.108-LA132ZMP4</b>								
	24	29	3697	0.81	61.22 ★	2KJ1506 - HT13 - R1		171
	28	34	3145	0.95	52.08	2KJ1506 - HT13 - Q1		171
	33	40	2684	1.10	44.44 ★	2KJ1506 - HT13 - P1		171
	40	48	2200	1.30	36.44 ★	2KJ1506 - HT13 - N1		171
	43	52	2045	1.50	33.87 ★	2KJ1506 - HT13 - M1		171
	47	56	1887	1.60	31.25	2KJ1506 - HT13 - L1		171
	55	66	1599	1.80	26.48	2KJ1506 - HT13 - K1		171
	63	76	1394	2.00	23.08 ★	2KJ1506 - HT13 - J1		171
	74	89	1185	2.20	19.63	2KJ1506 - HT13 - G1		171
	87	104	1011	2.50	16.75 ★	2KJ1506 - HT13 - F1		171
	106	127	830	2.80	13.74 ★	2KJ1506 - HT13 - E1		171
	113	136	779	2.50	12.90 ★	2KJ1506 - HT13 - D1		171
	133	160	662	2.80	10.97	2KJ1506 - HT13 - C1		171
	155	186	565	3.10	9.36 ★	2KJ1506 - HT13 - B1		171
	189	227	464	3.60	7.68 ★	2KJ1506 - HT13 - A1		171
<b>K.88-LA132ZMP4</b>								
	47	56	1864	0.89	30.87 ★	2KJ1505 - HT13 - N1		117
	51	61	1721	0.96	28.50	2KJ1505 - HT13 - M1		117
	57	68	1542	1.10	25.53 ★	2KJ1505 - HT13 - L1		117
	62	74	1421	1.20	23.54	2KJ1505 - HT13 - K1		117
	74	89	1193	1.30	19.75	2KJ1505 - HT13 - J1		117
	86	103	1017	1.50	16.85 ★	2KJ1505 - HT13 - H1		117
	104	125	848	1.70	14.04	2KJ1505 - HT13 - G1		117
	125	150	703	1.90	11.64 ★	2KJ1505 - HT13 - F1		117
	130	156	677	1.20	11.21	2KJ1505 - HT13 - E1		117
	155	186	568	1.30	9.41	2KJ1505 - HT13 - D1		117
	181	217	485	1.50	8.03 ★	2KJ1505 - HT13 - C1		117
	217	260	404	1.70	6.69	2KJ1505 - HT13 - B1		117
	263	316	335	1.90	5.54 ★	2KJ1505 - HT13 - A1		117
<b>K.68-LA132ZMP4</b>								
	86	103	1020	0.80	16.89	2KJ1504 - HT13 - K1		87
	101	121	867	0.94	14.35	2KJ1504 - HT13 - J1		87

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
9.2 (50 Hz)	K.68-LA132ZMP4							
11.0 (60 Hz)	122	146	721	1.10	11.94	★ 2KJ1504 - □ HT13 - □ H1		87
	192	230	458	0.84	7.58	2KJ1504 - □ HT13 - □ C1		87
	226	271	389	0.94	6.44	2KJ1504 - □ HT13 - □ B1		87
	271	325	324	1.10	5.36	★ 2KJ1504 - □ HT13 - □ A1		87
11.0 (50 Hz)	K.188-LG180LA8							
13.2 (60 Hz)	4.2	5.0	25035	0.80	172.78	2KJ1511 - □ KM13 - □ T1-Z	P02	882
	4.5	5.4	23462	0.85	161.92	2KJ1511 - □ KM13 - □ S1-Z	P02	882
K.188-LA160LB6								
	5.0	6.0	20938	0.96	191.34	2KJ1511 - □ JS13 - □ U1-Z	P01	812
	5.6	6.7	18907	1.10	172.78	2KJ1511 - □ JS13 - □ T1-Z	P01	812
	5.9	7.1	17718	1.10	161.92	2KJ1511 - □ JS13 - □ S1-Z	P01	812
	6.9	8.3	15219	1.30	139.08	★ 2KJ1511 - □ JS13 - □ R1-Z	P01	812
K.188-LA160MB4								
	7.6	9.1	13767	1.5	191.34	2KJ1511 - □ JP13 - □ U1		800
	8.5	10.2	12432	1.6	172.78	2KJ1511 - □ JP13 - □ T1		800
	9.0	10.8	11650	1.7	161.92	2KJ1511 - □ JP13 - □ S1		800
	10.5	12.6	10007	2.0	139.08	★ 2KJ1511 - □ JP13 - □ R1		800
K.168-LA160MB4								
	6.8	8.2	15350	0.88	213.33	★ 2KJ1510 - □ JP13 - □ D2		551
	7.3	8.8	14357	0.94	199.54	2KJ1510 - □ JP13 - □ C2		551
	8.2	9.8	12766	1.10	177.43	★ 2KJ1510 - □ JP13 - □ B2		551
	8.7	10.4	12052	1.10	167.50	2KJ1510 - □ JP13 - □ A2		551
	9.7	11.6	10819	1.20	150.36	★ 2KJ1510 - □ JP13 - □ X1		551
	10.6	12.7	9929	1.40	138.00	2KJ1510 - □ JP13 - □ W1		551
	12.3	14.8	8569	1.60	119.09	2KJ1510 - □ JP13 - □ V1		551
	14.0	16.8	7496	1.80	104.18	2KJ1510 - □ JP13 - □ U1		551
	16.1	19.3	6519	2.10	90.60	2KJ1510 - □ JP13 - □ T1		551
K.148-LA160MB4								
	11.1	13.3	9461	0.85	131.49	2KJ1508 - □ JP13 - □ C2		366
	13.0	15.6	8084	0.99	112.35	2KJ1508 - □ JP13 - □ B2		366
	14.4	17.3	7305	1.10	101.53	★ 2KJ1508 - □ JP13 - □ A2		366
	14.9	17.9	7038	1.10	97.82	2KJ1508 - □ JP13 - □ X1		366
	17.3	21.0	6088	1.30	84.61	2KJ1508 - □ JP13 - □ W1		366
	19.8	24.0	5310	1.50	73.80	★ 2KJ1508 - □ JP13 - □ V1		366
	23.0	28.0	4544	1.80	63.16	★ 2KJ1508 - □ JP13 - □ U1		366
	26.0	31.0	4070	2.00	56.57	2KJ1508 - □ JP13 - □ T1		366
	30.0	36.0	3447	2.30	47.91	★ 2KJ1508 - □ JP13 - □ R1		366
K.128-LA160MB4								
	20	24	5265	0.89	73.18	2KJ1507 - □ JP13 - □ U1		266
	23	28	4562	1.00	63.41	★ 2KJ1507 - □ JP13 - □ T1		266
	27	32	3839	1.20	53.36	★ 2KJ1507 - □ JP13 - □ S1		266
	30	36	3464	1.40	48.14	2KJ1507 - □ JP13 - □ R1		266

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
11.0 (50 Hz)	<b>K.128-LA160MB4</b>							
13.2 (60 Hz)	35	42	2977	1.6	41.38 ★	2KJ1507 - □JP13 - □Q1		266
	37	44	2820	1.7	39.19 ★	2KJ1507 - □JP13 - □P1		266
	41	49	2585	1.8	35.92	2KJ1507 - □JP13 - □N1		266
	48	58	2202	2.1	30.61	2KJ1507 - □JP13 - □M1		266
	54	65	1944	2.4	27.02 ★	2KJ1507 - □JP13 - □L1		266
	64	77	1654	2.8	22.99	2KJ1507 - □JP13 - □K1		266
	116	139	904	3.6	12.56	2KJ1507 - □JP13 - □E1		266
	<b>K.108-LA160MB4</b>							
	28	34	3747	0.80	52.08	2KJ1506 - □JP13 - □Q1		195
	33	40	3198	0.94	44.44 ★	2KJ1506 - □JP13 - □P1		195
	40	48	2622	1.10	36.44 ★	2KJ1506 - □JP13 - □N1		195
	43	52	2437	1.20	33.87 ★	2KJ1506 - □JP13 - □M1		195
	47	56	2249	1.30	31.25	2KJ1506 - □JP13 - □L1		195
	55	66	1905	1.50	26.48	2KJ1506 - □JP13 - □K1		195
	63	76	1661	1.70	23.08 ★	2KJ1506 - □JP13 - □J1		195
	74	89	1412	1.90	19.63	2KJ1506 - □JP13 - □G1		195
	87	104	1205	2.10	16.75 ★	2KJ1506 - □JP13 - □F1		195
	106	127	989	2.40	13.74 ★	2KJ1506 - □JP13 - □E1		195
	113	136	928	2.10	12.90 ★	2KJ1506 - □JP13 - □D1		195
	133	160	789	2.30	10.97	2KJ1506 - □JP13 - □C1		195
	156	187	673	2.60	9.36 ★	2KJ1506 - □JP13 - □B1		195
	190	228	553	3.00	7.68 ★	2KJ1506 - □JP13 - □A1		195
	<b>K.88-LA160MB4</b>							
	51	61	2051	0.80	28.50	2KJ1505 - □JP13 - □M1		141
	57	68	1837	0.90	25.53 ★	2KJ1505 - □JP13 - □L1		141
	62	74	1694	0.97	23.54	2KJ1505 - □JP13 - □K1		141
	74	89	1421	1.10	19.75	2KJ1505 - □JP13 - □J1		141
	87	104	1212	1.20	16.85 ★	2KJ1505 - □JP13 - □H1		141
	104	125	1010	1.40	14.04	2KJ1505 - □JP13 - □G1		141
	125	150	838	1.60	11.64 ★	2KJ1505 - □JP13 - □F1		141
	130	156	807	1.00	11.21	2KJ1505 - □JP13 - □E1		141
	155	186	677	1.10	9.41	2KJ1505 - □JP13 - □D1		141
	182	218	578	1.30	8.03 ★	2KJ1505 - □JP13 - □C1		141
	218	262	481	1.40	6.69	2KJ1505 - □JP13 - □B1		141
	264	317	399	1.60	5.54 ★	2KJ1505 - □JP13 - □A1		141
15 (50 Hz)	<b>K.188-LG180LA6</b>							
18 (60 Hz)	6.0	7.2	24036	0.83	161.92	2KJ1511 - □KM13 - □S1-Z	P01	882
	6.9	8.3	20646	0.97	139.08 ★	2KJ1511 - □KM13 - □R1-Z	P01	882
	<b>K.188-LA160L4</b>							
	7.6	9.1	18774	1.1	191.34	2KJ1511 - □JR13 - □U1		812
	8.5	10.2	16953	1.2	172.78	2KJ1511 - □JR13 - □T1		812
	9.0	10.8	15887	1.3	161.92	2KJ1511 - □JR13 - □S1		812
	10.5	12.6	13646	1.5	139.08 ★	2KJ1511 - □JR13 - □R1		812

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque <i>T</i> <sub>2</sub> Nm	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm						
15 (50 Hz)	<b>K.188-LA160L4</b>							
18 (60 Hz)	12.2	14.6	11790	1.7	120.16	<b>2KJ1511 - JR13 - Q1</b>		812
	13.8	16.6	10407	1.9	106.07	<b>2KJ1511 - JR13 - P1</b>		812
	15.3	18.4	9368	2.1	95.48 ★	<b>2KJ1511 - JR13 - N1</b>		812
	<b>K.168-LA160L4</b>							
	8.7	10.4	16435	0.82	167.50	<b>2KJ1510 - JR13 - A2</b>		563
	9.7	11.6	14753	0.92	150.36 ★	<b>2KJ1510 - JR13 - X1</b>		563
	10.6	12.7	13540	1.00	138.00	<b>2KJ1510 - JR13 - W1</b>		563
	12.3	14.8	11685	1.20	119.09	<b>2KJ1510 - JR13 - V1</b>		563
	14.0	16.8	10222	1.30	104.18	<b>2KJ1510 - JR13 - U1</b>		563
	16.1	19.3	8889	1.50	90.60	<b>2KJ1510 - JR13 - T1</b>		563
	18.4	22.0	7799	1.70	79.49 ★	<b>2KJ1510 - JR13 - S1</b>		563
	22.0	26.0	6595	2.00	67.22 ★	<b>2KJ1510 - JR13 - R1</b>		563
	24.0	29.0	5984	2.30	60.99	<b>2KJ1510 - JR13 - Q1</b>		563
	<b>K.148-LA160L4</b>							
	14.4	17.3	9962	0.80	101.53 ★	<b>2KJ1508 - JR13 - A2</b>		378
	14.9	17.9	9598	0.83	97.82	<b>2KJ1508 - JR13 - X1</b>		378
	17.3	21.0	8302	0.96	84.61	<b>2KJ1508 - JR13 - W1</b>		378
	19.8	24.0	7241	1.10	73.80 ★	<b>2KJ1508 - JR13 - V1</b>		378
	23.0	28.0	6197	1.30	63.16 ★	<b>2KJ1508 - JR13 - U1</b>		378
	26.0	31.0	5550	1.40	56.57	<b>2KJ1508 - JR13 - T1</b>		378
	30.0	36.0	4701	1.70	47.91 ★	<b>2KJ1508 - JR13 - R1</b>		378
	35.0	42.0	4060	2.00	41.38	<b>2KJ1508 - JR13 - Q1</b>		378
	47.0	56.0	3051	2.60	31.10 ★	<b>2KJ1508 - JR13 - N1</b>		378
	48.0	58.0	3016	2.70	30.74	<b>2KJ1508 - JR13 - M1</b>		378
	<b>K.128-LA160L4</b>							
	27	32	5235	0.9	53.36 ★	<b>2KJ1507 - JR13 - S1</b>		278
	30	36	4723	1.0	48.14	<b>2KJ1507 - JR13 - R1</b>		278
	35	42	4060	1.2	41.38 ★	<b>2KJ1507 - JR13 - Q1</b>		278
	37	44	3845	1.2	39.19 ★	<b>2KJ1507 - JR13 - P1</b>		278
	41	49	3524	1.3	35.92	<b>2KJ1507 - JR13 - N1</b>		278
	48	58	3003	1.6	30.61	<b>2KJ1507 - JR13 - M1</b>		278
	54	65	2651	1.8	27.02 ★	<b>2KJ1507 - JR13 - L1</b>		278
	64	77	2256	2.1	22.99	<b>2KJ1507 - JR13 - K1</b>		278
	73	88	1954	2.4	19.92 ★	<b>2KJ1507 - JR13 - J1</b>		278
	87	104	1644	2.9	16.76 ★	<b>2KJ1507 - JR13 - H1</b>		278
	96	115	1485	3.1	15.13	<b>2KJ1507 - JR13 - G1</b>		278
	112	134	1276	3.5	13.00 ★	<b>2KJ1507 - JR13 - F1</b>		278
	116	139	1232	2.6	12.56	<b>2KJ1507 - JR13 - E1</b>		278
	134	161	1068	2.9	10.88 ★	<b>2KJ1507 - JR13 - D1</b>		278
	159	191	899	3.3	9.16 ★	<b>2KJ1507 - JR13 - C1</b>		278
	177	212	810	3.5	8.26	<b>2KJ1507 - JR13 - B1</b>		278
	206	247	697	3.9	7.10 ★	<b>2KJ1507 - JR13 - A1</b>		278
	<b>K.108-LA160L4</b>							
	43	52	3323	0.9	33.87 ★	<b>2KJ1506 - JR13 - M1</b>		207

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
<b>15 (50 Hz) K.108-LA160L4</b>								
18 (60 Hz)	47	56	3066	0.98	31.25	2KJ1506 - JR13 - L1		207
	55	66	2598	1.10	26.48	2KJ1506 - JR13 - K1		207
	63	76	2265	1.20	23.08 ★	2KJ1506 - JR13 - J1		207
	74	89	1926	1.40	19.63	2KJ1506 - JR13 - G1		207
	87	104	1643	1.50	16.75 ★	2KJ1506 - JR13 - F1		207
	106	127	1348	1.80	13.74 ★	2KJ1506 - JR13 - E1		207
	113	136	1266	1.50	12.90 ★	2KJ1506 - JR13 - D1		207
	133	160	1076	1.70	10.97	2KJ1506 - JR13 - C1		207
	156	187	918	1.90	9.36 ★	2KJ1506 - JR13 - B1		207
	190	228	754	2.20	7.68 ★	2KJ1506 - JR13 - A1		207
<b>K.88-LA160L4</b>								
	74	89	1938	0.81	19.75	2KJ1505 - JR13 - J1		153
	87	104	1653	0.91	16.85 ★	2KJ1505 - JR13 - H1		153
	104	125	1378	1.00	14.04	2KJ1505 - JR13 - G1		153
	125	150	1142	1.20	11.64 ★	2KJ1505 - JR13 - F1		153
	155	186	923	0.83	9.41	2KJ1505 - JR13 - D1		153
	182	218	788	0.92	8.03 ★	2KJ1505 - JR13 - C1		153
	218	262	656	1.00	6.69	2KJ1505 - JR13 - B1		153
	264	317	544	1.20	5.54 ★	2KJ1505 - JR13 - A1		153
<b>18.5 (50 Hz) K.188-LG180MB4</b>								
22.0 (60 Hz)	7.7	9.2	22997	0.87	191.34	2KJ1511 - KL13 - U1		867
	8.5	10.2	20766	0.96	172.78	2KJ1511 - KL13 - T1		867
	9.1	10.9	19461	1.00	161.92	2KJ1511 - KL13 - S1		867
	10.6	12.7	16716	1.20	139.08 ★	2KJ1511 - KL13 - R1		867
	12.2	14.6	14442	1.40	120.16	2KJ1511 - KL13 - Q1		867
	13.9	16.7	12748	1.60	106.07	2KJ1511 - KL13 - P1		867
	15.4	18.5	11475	1.70	95.48 ★	2KJ1511 - KL13 - N1		867
	18.6	22.0	9522	2.10	79.23 ★	2KJ1511 - KL13 - M1		867
	20.0	24.0	8682	2.30	72.24	2KJ1511 - KL13 - L1		867
<b>K.168-LG180MB4</b>								
	10.7	12.8	16586	0.81	138.00	2KJ1510 - KL13 - W1		618
	12.3	14.8	14313	0.94	119.09	2KJ1510 - KL13 - V1		618
	14.1	16.9	12521	1.10	104.18	2KJ1510 - KL13 - U1		618
	16.2	19.4	10889	1.20	90.60	2KJ1510 - KL13 - T1		618
	18.5	22.0	9554	1.40	79.49 ★	2KJ1510 - KL13 - S1		618
	22.0	26.0	8079	1.70	67.22 ★	2KJ1510 - KL13 - R1		618
	24.0	29.0	7330	1.80	60.99	2KJ1510 - KL13 - Q1		618
	28.0	34.0	6392	2.10	53.18 ★	2KJ1510 - KL13 - P1		618
	33.0	40.0	5426	2.50	45.15	2KJ1510 - KL13 - N1		618
<b>K.148-LG180MB4</b>								
	19.9	24	8870	0.9	73.80 ★	2KJ1508 - KL13 - V1		433
	23.0	28	7591	1.1	63.16 ★	2KJ1508 - KL13 - U1		433
	26.0	31	6799	1.2	56.57	2KJ1508 - KL13 - T1		433

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
	<i>n</i> <sub>2</sub> (50 Hz) rpm	<i>n</i> <sub>2</sub> (60 Hz) rpm	<i>T</i> <sub>2</sub> Nm					
<b>18.5 (50 Hz) K.148-LG180MB4</b>								
22.0 (60 Hz)	<b>31</b>	<b>37</b>	5758	1.4	47.91 ★	<b>2KJ1508 - ■■KL13 - ■■R1</b>		433
	<b>36</b>	<b>43</b>	4973	1.6	41.38	<b>2KJ1508 - ■■KL13 - ■■Q1</b>		433
	<b>47</b>	<b>56</b>	3738	2.1	31.10 ★	<b>2KJ1508 - ■■KL13 - ■■N1</b>		433
	<b>48</b>	<b>58</b>	3695	2.2	30.74	<b>2KJ1508 - ■■KL13 - ■■M1</b>		433
	<b>55</b>	<b>66</b>	3195	2.5	26.58	<b>2KJ1508 - ■■KL13 - ■■L1</b>		433
	<b>63</b>	<b>76</b>	2787	2.9	23.19 ★	<b>2KJ1508 - ■■KL13 - ■■K1</b>		433
	<b>167</b>	<b>200</b>	1056	3.8	8.79	<b>2KJ1508 - ■■KL13 - ■■D1</b>		433
	<b>198</b>	<b>238</b>	894	4.2	7.44 ★	<b>2KJ1508 - ■■KL13 - ■■C1</b>		433
<b>K.128-LG180MB4</b>								
22.0 (60 Hz)	<b>30</b>	<b>36</b>	5786	0.81	48.14	<b>2KJ1507 - ■■KL13 - ■■R1</b>		333
	<b>36</b>	<b>43</b>	4973	0.95	41.38 ★	<b>2KJ1507 - ■■KL13 - ■■Q1</b>		333
	<b>38</b>	<b>46</b>	4710	1.00	39.19 ★	<b>2KJ1507 - ■■KL13 - ■■P1</b>		333
	<b>41</b>	<b>49</b>	4317	1.10	35.92	<b>2KJ1507 - ■■KL13 - ■■N1</b>		333
	<b>48</b>	<b>58</b>	3679	1.30	30.61	<b>2KJ1507 - ■■KL13 - ■■M1</b>		333
	<b>54</b>	<b>65</b>	3247	1.40	27.02 ★	<b>2KJ1507 - ■■KL13 - ■■L1</b>		333
	<b>64</b>	<b>77</b>	2763	1.70	22.99	<b>2KJ1507 - ■■KL13 - ■■K1</b>		333
	<b>74</b>	<b>89</b>	2394	2.00	19.92 ★	<b>2KJ1507 - ■■KL13 - ■■J1</b>		333
	<b>88</b>	<b>106</b>	2014	2.30	16.76 ★	<b>2KJ1507 - ■■KL13 - ■■H1</b>		333
	<b>97</b>	<b>116</b>	1818	2.50	15.13	<b>2KJ1507 - ■■KL13 - ■■G1</b>		333
	<b>113</b>	<b>136</b>	1562	2.80	13.00 ★	<b>2KJ1507 - ■■KL13 - ■■F1</b>		333
	<b>117</b>	<b>140</b>	1510	2.10	12.56	<b>2KJ1507 - ■■KL13 - ■■E1</b>		333
	<b>135</b>	<b>162</b>	1308	2.40	10.88 ★	<b>2KJ1507 - ■■KL13 - ■■D1</b>		333
	<b>160</b>	<b>192</b>	1101	2.70	9.16 ★	<b>2KJ1507 - ■■KL13 - ■■C1</b>		333
	<b>178</b>	<b>214</b>	993	2.90	8.26	<b>2KJ1507 - ■■KL13 - ■■B1</b>		333
	<b>207</b>	<b>248</b>	853	3.20	7.10 ★	<b>2KJ1507 - ■■KL13 - ■■A1</b>		333
<b>K.108-LG180MB4</b>								
22.0 (60 Hz)	<b>47</b>	<b>56</b>	3756	0.80	31.25	<b>2KJ1506 - ■■KL13 - ■■L1</b>		262
	<b>56</b>	<b>67</b>	3183	0.91	26.48	<b>2KJ1506 - ■■KL13 - ■■K1</b>		262
	<b>64</b>	<b>77</b>	2774	1.00	23.08 ★	<b>2KJ1506 - ■■KL13 - ■■J1</b>		262
	<b>75</b>	<b>90</b>	2359	1.10	19.63	<b>2KJ1506 - ■■KL13 - ■■G1</b>		262
	<b>88</b>	<b>106</b>	2013	1.20	16.75 ★	<b>2KJ1506 - ■■KL13 - ■■F1</b>		262
	<b>107</b>	<b>128</b>	1651	1.40	13.74 ★	<b>2KJ1506 - ■■KL13 - ■■E1</b>		262
	<b>114</b>	<b>137</b>	1550	1.20	12.90 ★	<b>2KJ1506 - ■■KL13 - ■■D1</b>		262
	<b>134</b>	<b>161</b>	1318	1.40	10.97	<b>2KJ1506 - ■■KL13 - ■■C1</b>		262
	<b>157</b>	<b>188</b>	1125	1.60	9.36 ★	<b>2KJ1506 - ■■KL13 - ■■B1</b>		262
	<b>191</b>	<b>229</b>	923	1.80	7.68 ★	<b>2KJ1506 - ■■KL13 - ■■A1</b>		262
<b>22 (50 Hz) K.188-LG180LB4</b>								
26 (60 Hz)	<b>8.5</b>	<b>10.2</b>	24695	0.81	172.78	<b>2KJ1511 - ■■KM13 - ■■T1</b>		882
	<b>9.1</b>	<b>10.9</b>	23142	0.86	161.92	<b>2KJ1511 - ■■KM13 - ■■S1</b>		882
	<b>10.6</b>	<b>12.7</b>	19878	1.00	139.08 ★	<b>2KJ1511 - ■■KM13 - ■■R1</b>		882
	<b>12.2</b>	<b>14.6</b>	17174	1.20	120.16	<b>2KJ1511 - ■■KM13 - ■■Q1</b>		882
	<b>13.9</b>	<b>16.7</b>	15160	1.30	106.07	<b>2KJ1511 - ■■KM13 - ■■P1</b>		882
	<b>15.4</b>	<b>18.5</b>	13646	1.50	95.48 ★	<b>2KJ1511 - ■■KM13 - ■■N1</b>		882

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque <i>T<sub>2</sub></i> Nm	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm						
<b>K.188-LG180LB4</b>								
22 (50 Hz) 26 (60 Hz)	<b>18.6</b>	<b>22</b>	11324	1.8	79.23 ★	<b>2KJ1511 - KM13 - M1</b>		882
	<b>20.0</b>	<b>24</b>	10325	1.9	72.24	<b>2KJ1511 - KM13 - L1</b>		882
	<b>23.0</b>	<b>28</b>	9059	2.2	63.38 ★	<b>2KJ1511 - KM13 - K1</b>		882
<b>K.168-LG180LB4</b>								
	<b>14.1</b>	<b>16.9</b>	14890	0.91	104.18	<b>2KJ1510 - KM13 - U1</b>		633
	<b>16.2</b>	<b>19.4</b>	12949	1.00	90.60	<b>2KJ1510 - KM13 - T1</b>		633
	<b>18.5</b>	<b>22.0</b>	11361	1.20	79.49 ★	<b>2KJ1510 - KM13 - S1</b>		633
	<b>22.0</b>	<b>26.0</b>	9607	1.40	67.22 ★	<b>2KJ1510 - KM13 - R1</b>		633
	<b>24.0</b>	<b>29.0</b>	8717	1.50	60.99	<b>2KJ1510 - KM13 - Q1</b>		633
	<b>28.0</b>	<b>34.0</b>	7601	1.80	53.18 ★	<b>2KJ1510 - KM13 - P1</b>		633
	<b>33.0</b>	<b>40.0</b>	6453	2.10	45.15	<b>2KJ1510 - KM13 - N1</b>		633
	<b>42.0</b>	<b>50.0</b>	4938	2.70	34.55 ★	<b>2KJ1510 - KM13 - M1</b>		633
	<b>K.148-LG180LB4</b>							
	<b>23</b>	<b>28</b>	9027	0.89	63.16 ★	<b>2KJ1508 - KM13 - U1</b>		448
	<b>26</b>	<b>31</b>	8085	0.99	56.57	<b>2KJ1508 - KM13 - T1</b>		448
	<b>31</b>	<b>37</b>	6848	1.20	47.91 ★	<b>2KJ1508 - KM13 - R1</b>		448
	<b>36</b>	<b>43</b>	5914	1.40	41.38	<b>2KJ1508 - KM13 - Q1</b>		448
	<b>47</b>	<b>56</b>	4445	1.80	31.10 ★	<b>2KJ1508 - KM13 - N1</b>		448
	<b>48</b>	<b>58</b>	4394	1.80	30.74	<b>2KJ1508 - KM13 - M1</b>		448
	<b>55</b>	<b>66</b>	3799	2.10	26.58	<b>2KJ1508 - KM13 - L1</b>		448
	<b>63</b>	<b>76</b>	3314	2.40	23.19 ★	<b>2KJ1508 - KM13 - K1</b>		448
	<b>74</b>	<b>89</b>	2836	2.80	19.84 ★	<b>2KJ1508 - KM13 - J1</b>		448
	<b>83</b>	<b>100</b>	2540	3.10	17.77	<b>2KJ1508 - KM13 - H1</b>		448
	<b>98</b>	<b>118</b>	2151	3.50	15.05 ★	<b>2KJ1508 - KM13 - G1</b>		448
	<b>167</b>	<b>200</b>	1256	3.20	8.79	<b>2KJ1508 - KM13 - D1</b>		448
	<b>198</b>	<b>238</b>	1063	3.60	7.44 ★	<b>2KJ1508 - KM13 - C1</b>		448
	<b>229</b>	<b>275</b>	919	3.90	6.43	<b>2KJ1508 - KM13 - B1</b>		448
	<b>304</b>	<b>365</b>	690	4.80	4.83 ★	<b>2KJ1508 - KM13 - A1</b>		448
	<b>K.128-LG180LB4</b>							
	<b>38</b>	<b>46</b>	5601	0.84	39.19 ★	<b>2KJ1507 - KM13 - P1</b>		348
	<b>41</b>	<b>49</b>	5134	0.92	35.92	<b>2KJ1507 - KM13 - N1</b>		348
	<b>48</b>	<b>58</b>	4375	1.10	30.61	<b>2KJ1507 - KM13 - M1</b>		348
	<b>54</b>	<b>65</b>	3862	1.20	27.02 ★	<b>2KJ1507 - KM13 - L1</b>		348
	<b>64</b>	<b>77</b>	3286	1.40	22.99	<b>2KJ1507 - KM13 - K1</b>		348
	<b>74</b>	<b>89</b>	2847	1.70	19.92 ★	<b>2KJ1507 - KM13 - J1</b>		348
	<b>88</b>	<b>106</b>	2395	2.00	16.76 ★	<b>2KJ1507 - KM13 - H1</b>		348
	<b>97</b>	<b>116</b>	2162	2.10	15.13	<b>2KJ1507 - KM13 - G1</b>		348
	<b>113</b>	<b>136</b>	1858	2.40	13.00 ★	<b>2KJ1507 - KM13 - F1</b>		348
	<b>117</b>	<b>140</b>	1795	1.80	12.56	<b>2KJ1507 - KM13 - E1</b>		348
	<b>135</b>	<b>162</b>	1555	2.00	10.88 ★	<b>2KJ1507 - KM13 - D1</b>		348
	<b>160</b>	<b>192</b>	1309	2.20	9.16 ★	<b>2KJ1507 - KM13 - C1</b>		348
	<b>178</b>	<b>214</b>	1181	2.40	8.26	<b>2KJ1507 - KM13 - B1</b>		348
	<b>207</b>	<b>248</b>	1015	2.70	7.10 ★	<b>2KJ1507 - KM13 - A1</b>		348

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P</i> <sub>motor</sub> kW	Output speed		Output torque	Service factor <i>f</i> <sub>B</sub>	Gear ratio <i>i</i> <sub>tot</sub>	Order number	Order code (No. of poles)	Weight kg
<b>22 (50 Hz)</b>								
26 (60 Hz)	<b>K.108-LG180LB4</b>							
	<b>64</b>	<b>77</b>	3299	0.84	23.08 ★	<b>2KJ1506 - ■ KM13 - ■■ J1</b>		277
	<b>75</b>	<b>90</b>	2806	0.94	19.63	<b>2KJ1506 - ■ KM13 - ■■ G1</b>		277
	<b>88</b>	<b>106</b>	2394	1.00	16.75 ★	<b>2KJ1506 - ■ KM13 - ■■ F1</b>		277
	<b>107</b>	<b>128</b>	1964	1.20	13.74 ★	<b>2KJ1506 - ■ KM13 - ■■ E1</b>		277
	<b>114</b>	<b>137</b>	1844	1.10	12.90 ★	<b>2KJ1506 - ■ KM13 - ■■ D1</b>		277
	<b>134</b>	<b>161</b>	1568	1.20	10.97	<b>2KJ1506 - ■ KM13 - ■■ C1</b>		277
	<b>157</b>	<b>188</b>	1338	1.30	9.36 ★	<b>2KJ1506 - ■ KM13 - ■■ B1</b>		277
	<b>191</b>	<b>229</b>	1098	1.50	7.68 ★	<b>2KJ1506 - ■ KM13 - ■■ A1</b>		277
<b>30 (50 Hz)</b>								
36 (60 Hz)	<b>K.188-LG200LB4</b>							
	<b>12.2</b>	<b>14.6</b>	23419	0.85	120.16	<b>2KJ1511 - ■ LK13 - ■■ Q1</b>		932
	<b>13.9</b>	<b>16.7</b>	20673	0.97	106.07	<b>2KJ1511 - ■ LK13 - ■■ P1</b>		932
	<b>15.4</b>	<b>18.5</b>	18609	1.10	95.48 ★	<b>2KJ1511 - ■ LK13 - ■■ N1</b>		932
	<b>18.6</b>	<b>22.0</b>	15442	1.30	79.23 ★	<b>2KJ1511 - ■ LK13 - ■■ M1</b>		932
	<b>20.0</b>	<b>24.0</b>	14079	1.40	72.24	<b>2KJ1511 - ■ LK13 - ■■ L1</b>		932
	<b>23.0</b>	<b>28.0</b>	12353	1.60	63.38 ★	<b>2KJ1511 - ■ LK13 - ■■ K1</b>		932
	<b>27.0</b>	<b>32.0</b>	10616	1.90	54.47	<b>2KJ1511 - ■ LK13 - ■■ J1</b>		932
	<b>35.0</b>	<b>42.0</b>	8270	2.40	42.43 ★	<b>2KJ1511 - ■ LK13 - ■■ H1</b>		932
	<b>K.168-LG200LB4</b>							
	<b>18.5</b>	<b>22</b>	15492	0.87	79.49 ★	<b>2KJ1510 - ■ LK13 - ■■ S1</b>		683
	<b>22.0</b>	<b>26</b>	13101	1.00	67.22 ★	<b>2KJ1510 - ■ LK13 - ■■ R1</b>		683
	<b>24.0</b>	<b>29</b>	11887	1.10	60.99	<b>2KJ1510 - ■ LK13 - ■■ Q1</b>		683
	<b>28.0</b>	<b>34</b>	10365	1.30	53.18 ★	<b>2KJ1510 - ■ LK13 - ■■ P1</b>		683
	<b>33.0</b>	<b>40</b>	8800	1.50	45.15	<b>2KJ1510 - ■ LK13 - ■■ N1</b>		683
	<b>42.0</b>	<b>50</b>	6734	2.00	34.55 ★	<b>2KJ1510 - ■ LK13 - ■■ M1</b>		683
	<b>45.0</b>	<b>54</b>	6340	2.10	32.53	<b>2KJ1510 - ■ LK13 - ■■ L1</b>		683
	<b>52.0</b>	<b>62</b>	5562	2.40	28.54 ★	<b>2KJ1510 - ■ LK13 - ■■ K1</b>		683
	<b>61.0</b>	<b>73</b>	4705	2.90	24.14 ★	<b>2KJ1510 - ■ LK13 - ■■ J1</b>		683
	<b>67.0</b>	<b>80</b>	4268	3.10	21.90	<b>2KJ1510 - ■ LK13 - ■■ H1</b>		683
	<b>126.0</b>	<b>151</b>	2274	3.10	11.67	<b>2KJ1510 - ■ LK13 - ■■ D1</b>		683
	<b>145.0</b>	<b>174</b>	1982	3.40	10.17 ★	<b>2KJ1510 - ■ LK13 - ■■ C1</b>		683
	<b>170.0</b>	<b>204</b>	1684	3.80	8.64	<b>2KJ1510 - ■ LK13 - ■■ B1</b>		683
	<b>222.0</b>	<b>266</b>	1288	4.60	6.61 ★	<b>2KJ1510 - ■ LK13 - ■■ A1</b>		683
	<b>K.148-LG200LB4</b>							
	<b>31</b>	<b>37</b>	9338	0.86	47.91 ★	<b>2KJ1508 - ■ LK13 - ■■ R1</b>		498
	<b>36</b>	<b>43</b>	8065	0.99	41.38	<b>2KJ1508 - ■ LK13 - ■■ Q1</b>		498
	<b>47</b>	<b>56</b>	6061	1.30	31.10 ★	<b>2KJ1508 - ■ LK13 - ■■ N1</b>		498
	<b>48</b>	<b>58</b>	5991	1.30	30.74	<b>2KJ1508 - ■ LK13 - ■■ M1</b>		498
	<b>55</b>	<b>66</b>	5180	1.50	26.58	<b>2KJ1508 - ■ LK13 - ■■ L1</b>		498
	<b>63</b>	<b>76</b>	4520	1.80	23.19 ★	<b>2KJ1508 - ■ LK13 - ■■ K1</b>		498
	<b>74</b>	<b>89</b>	3867	2.10	19.84 ★	<b>2KJ1508 - ■ LK13 - ■■ J1</b>		498
	<b>83</b>	<b>100</b>	3463	2.30	17.77	<b>2KJ1508 - ■ LK13 - ■■ H1</b>		498
	<b>98</b>	<b>118</b>	2933	2.60	15.05 ★	<b>2KJ1508 - ■ LK13 - ■■ G1</b>		498
	<b>113</b>	<b>136</b>	2534	2.90	13.00	<b>2KJ1508 - ■ LK13 - ■■ F1</b>		498

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque $T_2$ Nm	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm						
30 (50 Hz)	<b>K.148-LG200LB4</b>							
36 (60 Hz)	150	180	1904	3.5	9.77 ★	2KJ1508 - LK13 - E1		498
	167	200	1713	2.3	8.79	2KJ1508 - LK13 - D1		498
	198	238	1450	2.6	7.44 ★	2KJ1508 - LK13 - C1		498
	229	275	1253	2.9	6.43	2KJ1508 - LK13 - B1		498
	304	365	941	3.5	4.83 ★	2KJ1508 - LK13 - A1		498
<b>K.128-LG200LB4</b>								
	54	65	5266	0.89	27.02 ★	2KJ1507 - LK13 - L1		398
	64	77	4481	1.00	22.99	2KJ1507 - LK13 - K1		398
	74	89	3882	1.20	19.92 ★	2KJ1507 - LK13 - J1		398
	88	106	3266	1.40	16.76 ★	2KJ1507 - LK13 - H1		398
	97	116	2949	1.60	15.13	2KJ1507 - LK13 - G1		398
	113	136	2534	1.70	13.00 ★	2KJ1507 - LK13 - F1		398
	117	140	2448	1.30	12.56	2KJ1507 - LK13 - E1		398
	135	162	2120	1.50	10.88 ★	2KJ1507 - LK13 - D1		398
	160	192	1785	1.60	9.16 ★	2KJ1507 - LK13 - C1		398
	178	214	1610	1.80	8.26	2KJ1507 - LK13 - B1		398
	207	248	1384	2.00	7.10 ★	2KJ1507 - LK13 - A1		398
37 (50 Hz)	<b>K.188-LG225S4</b>							
44 (60 Hz)	15.5	18.6	22796	0.88	95.48 ★	2KJ1511 - ME13 - N1		1012
	18.7	22.0	18916	1.10	79.23 ★	2KJ1511 - ME13 - M1		1012
	20.0	24.0	17247	1.20	72.24	2KJ1511 - ME13 - L1		1012
	23.0	28.0	15132	1.30	63.38 ★	2KJ1511 - ME13 - K1		1012
	27.0	32.0	13005	1.50	54.47	2KJ1511 - ME13 - J1		1012
	35.0	42.0	10130	2.00	42.43 ★	2KJ1511 - ME13 - H1		1012
	43.0	52.0	8184	2.40	34.28 ★	2KJ1511 - ME13 - G1		1012
	52.0	62.0	6792	2.90	28.45 ★	2KJ1511 - ME13 - F1		1012
<b>K.168-LG225S4</b>								
	22	26	16049	0.84	67.22 ★	2KJ1510 - ME13 - R1		763
	24	29	14561	0.93	60.99	2KJ1510 - ME13 - Q1		763
	28	34	12697	1.10	53.18 ★	2KJ1510 - ME13 - P1		763
	33	40	10780	1.30	45.15	2KJ1510 - ME13 - N1		763
	43	52	8249	1.60	34.55 ★	2KJ1510 - ME13 - M1		763
	46	55	7767	1.70	32.53	2KJ1510 - ME13 - L1		763
	52	62	6814	2.00	28.54 ★	2KJ1510 - ME13 - K1		763
	61	73	5763	2.30	24.14 ★	2KJ1510 - ME13 - J1		763
	68	82	5229	2.50	21.90	2KJ1510 - ME13 - H1		763
	78	94	4558	2.80	19.09 ★	2KJ1510 - ME13 - G1		763
	91	109	3870	3.10	16.21	2KJ1510 - ME13 - F1		763
	119	143	2963	3.70	12.41 ★	2KJ1510 - ME13 - E1		763
	127	152	2786	2.50	11.67	2KJ1510 - ME13 - D1		763
	146	175	2428	2.80	10.17 ★	2KJ1510 - ME13 - C1		763
	171	205	2063	3.10	8.64	2KJ1510 - ME13 - B1		763
	224	269	1578	3.70	6.61 ★	2KJ1510 - ME13 - A1		763

★ Preferred transmission ratio

Shaft designs, see page 4/87

1, 2, 3, 5, 6, or 9

Frequency and voltage, see page 8/15

1 to 9

Gear unit housing mounting position, see page 4/84

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
<b>37 (50 Hz) K.148-LG225S4</b>								
44 (60 Hz)	36	43	9879	0.81	41.38	2KJ1508 - ME13 - Q1		578
	48	58	7339	1.10	30.74	2KJ1508 - ME13 - M1		578
	48	58	7425	1.10	31.10 ★	2KJ1508 - ME13 - N1		578
	56	67	6346	1.30	26.58	2KJ1508 - ME13 - L1		578
	64	77	5537	1.40	23.19 ★	2KJ1508 - ME13 - K1		578
	75	90	4737	1.70	19.84	2KJ1508 - ME13 - J1		578
	83	100	4243	1.90	17.77	2KJ1508 - ME13 - H1		578
	98	118	3593	2.10	15.05 ★	2KJ1508 - ME13 - G1		578
	114	137	3104	2.30	13.00	2KJ1508 - ME13 - F1		578
	151	181	2333	2.90	9.77 ★	2KJ1508 - ME13 - E1		578
	168	202	2099	1.90	8.79	2KJ1508 - ME13 - D1		578
	199	239	1776	2.10	7.44 ★	2KJ1508 - ME13 - C1		578
	230	276	1535	2.40	6.43	2KJ1508 - ME13 - B1		578
	306	367	1153	2.90	4.83 ★	2KJ1508 - ME13 - A1		578
<b>K.128-K4-LGI225S4</b>								
	64	77	5489	0.86	22.99	2KJ1507 - ME13 - K1		478
	74	89	4756	0.99	19.92 ★	2KJ1507 - ME13 - J1		478
	88	106	4001	1.20	16.76 ★	2KJ1507 - ME13 - H1		478
	98	118	3612	1.30	15.13	2KJ1507 - ME13 - G1		478
	114	137	3104	1.40	13.00 ★	2KJ1507 - ME13 - F1		478
	118	142	2999	1.10	12.56	2KJ1507 - ME13 - E1		478
	136	163	2598	1.20	10.88 ★	2KJ1507 - ME13 - D1		478
	162	194	2187	1.30	9.16 ★	2KJ1507 - ME13 - C1		478
	179	215	1972	1.40	8.26	2KJ1507 - ME13 - B1		478
	208	250	1695	1.60	7.10 ★	2KJ1507 - ME13 - A1		478
<b>45 (50 Hz) K.188-LG225ZM4</b>								
54 (60 Hz)	18.7	22	23006	0.87	79.23 ★	2KJ1511 - MU13 - M1		1012
	20.0	24	20976	0.95	72.24	2KJ1511 - MU13 - L1		1012
	23.0	28	18404	1.10	63.38 ★	2KJ1511 - MU13 - K1		1012
	27.0	32	15817	1.30	54.47	2KJ1511 - MU13 - J1		1012
	35.0	42	12320	1.60	42.43 ★	2KJ1511 - MU13 - H1		1012
	43.0	52	9954	2.00	34.28 ★	2KJ1511 - MU13 - G1		1012
	52.0	62	8261	2.40	28.45 ★	2KJ1511 - MU13 - F1		1012
	57.0	68	7532	2.70	25.94	2KJ1511 - MU13 - E1		1012
	65.0	78	6609	3.00	22.76 ★	2KJ1511 - MU13 - D1		1012
<b>K.168-LG225ZM4</b>								
	28	34	15442	0.87	53.18 ★	2KJ1510 - MU13 - P1		763
	33	40	13110	1.00	45.15	2KJ1510 - MU13 - N1		763
	43	52	10032	1.30	34.55 ★	2KJ1510 - MU13 - M1		763
	46	55	9446	1.40	32.53	2KJ1510 - MU13 - L1		763
	52	62	8287	1.60	28.54 ★	2KJ1510 - MU13 - K1		763
	61	73	7010	1.90	24.14 ★	2KJ1510 - MU13 - J1		763
	68	82	6359	2.10	21.90	2KJ1510 - MU13 - H1		763

★ Preferred transmission ratio

Shaft designs, see page 4/87

1, 2, 3, 5, 6, or 9

Frequency and voltage, see page 8/15

1 to 9

Gear unit housing mounting position, see page 4/84

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque $T_2$ Nm	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm						
<b>K.168-LG225ZM4</b>								
45 (50 Hz)	78	94	5543	2.3	19.09	★ 2KJ1510 - MU13 - G1		763
54 (60 Hz)	91	109	4707	2.5	16.21	2KJ1510 - MU13 - F1		763
	119	143	3604	3.1	12.41	★ 2KJ1510 - MU13 - E1		763
	127	152	3389	2.1	11.67	2KJ1510 - MU13 - D1		763
	146	175	2953	2.3	10.17	★ 2KJ1510 - MU13 - C1		763
	171	205	2509	2.5	8.64	2KJ1510 - MU13 - B1		763
	224	269	1919	3.1	6.61	★ 2KJ1510 - MU13 - A1		763
<b>K.148-LG225ZM4</b>								
	48	58	8926	0.90	30.74	2KJ1508 - MU13 - M1		578
	48	58	9031	0.89	31.10	★ 2KJ1508 - MU13 - N1		578
	56	67	7718	1.00	26.58	2KJ1508 - MU13 - L1		578
	64	77	6734	1.20	23.19	★ 2KJ1508 - MU13 - K1		578
	75	90	5761	1.40	19.84	★ 2KJ1508 - MU13 - J1		578
	83	100	5160	1.60	17.77	2KJ1508 - MU13 - H1		578
	98	118	4370	1.70	15.05	★ 2KJ1508 - MU13 - G1		578
	114	137	3775	1.90	13.00	2KJ1508 - MU13 - F1		578
	151	181	2837	2.40	9.77	★ 2KJ1508 - MU13 - E1		578
	168	202	2552	1.60	8.79	2KJ1508 - MU13 - D1		578
	199	239	2160	1.80	7.44	★ 2KJ1508 - MU13 - C1		578
	230	276	1867	1.90	6.43	2KJ1508 - MU13 - B1		578
	306	367	1402	2.40	4.83	★ 2KJ1508 - MU13 - A1		578
<b>K.128-K4-LGI225ZM4</b>								
	74	89	5784	0.81	19.92	★ 2KJ1507 - MU13 - J1		478
	88	106	4867	0.97	16.76	★ 2KJ1507 - MU13 - H1		478
	98	118	4393	1.10	15.13	2KJ1507 - MU13 - G1		478
	114	137	3775	1.20	13.00	★ 2KJ1507 - MU13 - F1		478
	118	142	3647	0.88	12.56	2KJ1507 - MU13 - E1		478
	136	163	3159	0.98	10.88	★ 2KJ1507 - MU13 - D1		478
	162	194	2660	1.10	9.16	★ 2KJ1507 - MU13 - C1		478
	179	215	2398	1.20	8.26	2KJ1507 - MU13 - B1		478
	208	250	2062	1.30	7.10	★ 2KJ1507 - MU13 - A1		478
<b>K.188-LG250ZM4</b>								
55 (50 Hz)	23	28	22418	0.89	63.38	★ 2KJ1511 - NN13 - K1		1102
66 (60 Hz)	27	32	19266	1.00	54.47	2KJ1511 - NN13 - J1		1102
	35	42	15008	1.30	42.43	★ 2KJ1511 - NN13 - H1		1102
	43	52	12125	1.60	34.28	★ 2KJ1511 - NN13 - G1		1102
	52	62	10063	2.00	28.45	★ 2KJ1511 - NN13 - F1		1102
	57	68	9175	2.20	25.94	2KJ1511 - NN13 - E1		1102
	65	78	8050	2.50	22.76	★ 2KJ1511 - NN13 - D1		1102
	76	91	6918	2.90	19.56	2KJ1511 - NN13 - C1		1102
	98	118	5387	3.50	15.23	★ 2KJ1511 - NN13 - B1		1102
<b>K.168-LG250ZM4</b>								
	33	40	15970	0.85	45.15	2KJ1510 - NN13 - N1		853

★ Preferred transmission ratio

Shaft designs, see page 4/87

1, 2, 3, 5, 6, or 9

Frequency and voltage, see page 8/15

1 to 9

Gear unit housing mounting position, see page 4/84

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Geared motors up to 200 kW

#### Selection and ordering data (continued)

Power <i>P<sub>motor</sub></i> kW	Output speed		Output torque	Service factor <i>f<sub>B</sub></i>	Gear ratio <i>i<sub>tot</sub></i>	Order number	Order code (No. of poles)	Weight kg
	<i>n<sub>2</sub></i> (50 Hz) rpm	<i>n<sub>2</sub></i> (60 Hz) rpm	<i>T<sub>2</sub></i> Nm					
<b>55 (50 Hz) K.168-LG250ZM4</b>								
66 (60 Hz)	43	52	12220	1.1	34.55 ★	2KJ1510 - □ NN13 - □□ M1		853
	46	55	11506	1.2	32.53	2KJ1510 - □ NN13 - □□ L1		853
	52	62	10095	1.3	28.54 ★	2KJ1510 - □ NN13 - □□ K1		853
	62	74	8538	1.6	24.14 ★	2KJ1510 - □ NN13 - □□ J1		853
	68	82	7746	1.7	21.90	2KJ1510 - □ NN13 - □□ H1		853
	78	94	6752	1.9	19.09 ★	2KJ1510 - □ NN13 - □□ G1		853
	92	110	5734	2.1	16.21	2KJ1510 - □ NN13 - □□ F1		853
	120	144	4389	2.5	12.41 ★	2KJ1510 - □ NN13 - □□ E1		853
	127	152	4128	1.7	11.67	2KJ1510 - □ NN13 - □□ D1		853
	146	175	3597	1.9	10.17 ★	2KJ1510 - □ NN13 - □□ C1		853
	172	206	3056	2.1	8.64	2KJ1510 - □ NN13 - □□ B1		853
	225	270	2338	2.5	6.61 ★	2KJ1510 - □ NN13 - □□ A1		853
<b>K.148-K4-LGI250ZM4</b>								
	56	67	9401	0.85	26.58	2KJ1508 - □ NN13 - □□ L1		668
	64	77	8202	0.98	23.19 ★	2KJ1508 - □ NN13 - □□ K1		668
	75	90	7017	1.10	19.84 ★	2KJ1508 - □ NN13 - □□ J1		668
	84	101	6285	1.30	17.77	2KJ1508 - □ NN13 - □□ H1		668
	99	119	5323	1.40	15.05 ★	2KJ1508 - □ NN13 - □□ G1		668
	114	137	4598	1.60	13.00	2KJ1508 - □ NN13 - □□ F1		668
	152	182	3456	1.90	9.77 ★	2KJ1508 - □ NN13 - □□ E1		668
	169	203	3109	1.30	8.79	2KJ1508 - □ NN13 - □□ D1		668
	200	240	2632	1.40	7.44 ★	2KJ1508 - □ NN13 - □□ C1		668
	231	277	2274	1.60	6.43	2KJ1508 - □ NN13 - □□ B1		668
	307	368	1708	1.90	4.83 ★	2KJ1508 - □ NN13 - □□ A1		668
<b>75 (50 Hz) K.188-K4-LGI280S4</b>								
90 (60 Hz)	35	42	20465	0.98	42.43 ★	2KJ1511 - □ PG13 - □□ H1		1227
	43	52	16534	1.20	34.28 ★	2KJ1511 - □ PG13 - □□ G1		1227
	52	62	13722	1.50	28.45 ★	2KJ1511 - □ PG13 - □□ F1		1227
	57	68	12511	1.60	25.94	2KJ1511 - □ PG13 - □□ E1		1227
	65	78	10978	1.80	22.76 ★	2KJ1511 - □ PG13 - □□ D1		1227
	76	91	9434	2.10	19.56	2KJ1511 - □ PG13 - □□ C1		1227
	98	118	7346	2.60	15.23 ★	2KJ1511 - □ PG13 - □□ B1		1227
	123	148	5836	3.00	12.10 ★	2KJ1511 - □ PG13 - □□ A1		1227
<b>K.168-K4-LGI280S4</b>								
	43	52	16664	0.81	34.55 ★	2KJ1510 - □ PG13 - □□ M1		978
	46	55	15690	0.86	32.53	2KJ1510 - □ PG13 - □□ L1		978
	52	62	13766	0.98	28.54 ★	2KJ1510 - □ PG13 - □□ K1		978
	62	74	11643	1.20	24.14 ★	2KJ1510 - □ PG13 - □□ J1		978
	68	82	10563	1.20	21.90	2KJ1510 - □ PG13 - □□ H1		978
	78	94	9208	1.40	19.09 ★	2KJ1510 - □ PG13 - □□ G1		978
	92	110	7818	1.50	16.21	2KJ1510 - □ PG13 - □□ F1		978
	120	144	5986	1.80	12.41 ★	2KJ1510 - □ PG13 - □□ E1		978
	127	152	5629	1.20	11.67	2KJ1510 - □ PG13 - □□ D1		978

★ Preferred transmission ratio

Shaft designs, see page 4/87

Frequency and voltage, see page 8/15

Gear unit housing mounting position, see page 4/84

1, 2, 3, 5, 6, or 9

1 to 9

A, D, E, F, H, or M

Geared motors up to 200 kW

Selection and ordering data (continued)

Power $P_{\text{motor}}$ kW	Output speed		Output torque	Service factor $f_B$	Gear ratio $i_{\text{tot}}$	Order number	Order code (No. of poles)	Weight kg
	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm					
75 (50 Hz)	<b>K.168-K4-LGI280S4</b>							
90 (60 Hz)	146	175	4905	1.4	10.17 ★	2KJ1510 - □ PG13 - ■■■ C1		978
	172	206	4167	1.5	8.64	2KJ1510 - □ PG13 - ■■■ B1		978
	225	270	3188	1.8	6.61 ★	2KJ1510 - □ PG13 - ■■■ A1		978
90 (50 Hz)	<b>K.188-K4-LGI280ZM4</b>							
108 (60 Hz)	35	42	24558	0.81	42.43 ★	2KJ1511 - □ PW13 - ■■■ H1		1267
	43	52	19841	1.00	34.28 ★	2KJ1511 - □ PW13 - ■■■ G1		1267
	52	62	16467	1.20	28.45 ★	2KJ1511 - □ PW13 - ■■■ F1		1267
	57	68	15014	1.30	25.94	2KJ1511 - □ PW13 - ■■■ E1		1267
	65	78	13173	1.50	22.76 ★	2KJ1511 - □ PW13 - ■■■ D1		1267
	<b>K.188-K4-LGI280ZM4</b>							
	76	91	11321	1.8	19.56	2KJ1511 - □ PW13 - ■■■ C1		1267
	98	118	8815	2.2	15.23 ★	2KJ1511 - □ PW13 - ■■■ B1		1267
	123	148	7003	2.5	12.10 ★	2KJ1511 - □ PW13 - ■■■ A1		1267
	<b>K.168-K4-LGI280ZM4</b>							
	52	62	16519	0.82	28.54 ★	2KJ1510 - □ PW13 - ■■■ K1		1018
	62	74	13972	0.97	24.14 ★	2KJ1510 - □ PW13 - ■■■ J1		1018
	68	82	12675	1.00	21.90	2KJ1510 - □ PW13 - ■■■ H1		1018
	78	94	11049	1.10	19.09 ★	2KJ1510 - □ PW13 - ■■■ G1		1018
	92	110	9382	1.30	16.21	2KJ1510 - □ PW13 - ■■■ F1		1018
	120	144	7183	1.50	12.41 ★	2KJ1510 - □ PW13 - ■■■ E1		1018
	127	152	6754	1.00	11.67	2KJ1510 - □ PW13 - ■■■ D1		1018
	146	175	5886	1.10	10.17 ★	2KJ1510 - □ PW13 - ■■■ C1		1018
	172	206	5001	1.30	8.64	2KJ1510 - □ PW13 - ■■■ B1		1018
	225	270	3826	1.50	6.61 ★	2KJ1510 - □ PW13 - ■■■ A1		1018
110 (50 Hz)	<b>K.188-K2-LGI315S4</b>							
132 (60 Hz)	76	91	13837	1.4	19.56	2KJ1511 - □ QQ13 - ■■■ C1		1447
	98	118	10774	1.8	15.23 ★	2KJ1511 - □ QQ13 - ■■■ B1		1447
	123	148	8560	2.0	12.10 ★	2KJ1511 - □ QQ13 - ■■■ A1		1447
132 (50 Hz)	<b>K.188-K2-LGI315M4</b>							
158 (60 Hz)	76	91	16604	1.2	19.56	2KJ1511 - □ QS13 - ■■■ C1		1502
	98	118	12929	1.5	15.23 ★	2KJ1511 - □ QS13 - ■■■ B1		1502
	123	148	10272	1.7	12.10 ★	2KJ1511 - □ QS13 - ■■■ A1		1502
160 (50 Hz)	<b>K.188-K2-LGI315L4</b>							
192 (60 Hz)	76	91	20126	0.99	19.56	2KJ1511 - □ QU13 - ■■■ C1		1627
	98	118	15671	1.20	15.23 ★	2KJ1511 - □ QU13 - ■■■ B1		1627
	123	148	12450	1.40	12.10 ★	2KJ1511 - □ QU13 - ■■■ A1		1627
200 (50 Hz)	<b>K.188-K2-LGI315LB4</b>							
240 (60 Hz)	98	118	19589	0.97	15.23 ★	2KJ1511 - □ QV13 - ■■■ B1		1742
	123	148	15563	1.10	12.10 ★	2KJ1511 - □ QV13 - ■■■ A1		1742

★ Preferred transmission ratio

Shaft designs, see page 4/87

1, 2, 3, 5, 6, or 9

Frequency and voltage, see page 8/15

1 to 9

Gear unit housing mounting position, see page 4/84

A, D, E, F, H, or M

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data

Gear unit size	Ratio code Order No.	Transmis- sion ratio	Output speed		Max. torque	Permissible input torque $T_1$ [Nm]													
Max. gear unit nominal torque Nm	15th and 16th position	$i_{\text{tot}}$	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm	2.5x the value is permissible for a brief period (e.g. motor starting torque)													
						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
<b>B.28</b> <b>79 ... 130</b>	<b>D2</b>	57.53	24	29	130	•													
	<b>C2</b>	48.51 ★	29	35	130	•	•												
	<b>B2</b>	43.07	33	39	130	•	•												
	<b>A2</b>	37.76 ★	37	44	130	•	•	•											
	<b>X1</b>	33.79	41	50	130	•	•	•											
	<b>W1</b>	29.99 ★	47	56	130	•	•	•											
	<b>V1</b>	26.28	53	64	130	•	•	•											
	<b>U1</b>	23.11 ★	61	73	130	•	•	•											
	<b>T1</b>	20.87	67	80	130	•	•	•	•	•									
	<b>S1</b>	18.19 ★	77	92	130	•	•	•											
	<b>R1</b>	16.34	86	103	130	•	•	•											
	<b>Q1</b>	14.75 ★	95	114	130	•	•	•	•	•									
	<b>P1</b>	13.38	105	126	130	•	•	•	•	•									
	<b>N1</b>	12.17 ★	115	138	130	•	•	•	•	•									
	<b>M1</b>	10.76	130	156	130	•	•	•	•	•									
	<b>L1</b>	9.94 ★	141	169	128	•	•	•	•	•									
	<b>K1</b>	8.56	164	196	121	•	•	•	•	•									
	<b>J1</b>	7.78 ★	180	216	117	•	•	•	•	•									
	<b>H1</b>	7.49	187	224	90	•	•	•	•	•									
	<b>G1</b>	6.76 ★	207	248	90	•	•	•	•	•									
	<b>F1</b>	6.13	228	274	90	•	•	•	•	•									
	<b>E1</b>	5.58 ★	251	301	90	•	•	•	•	•									
	<b>D1</b>	4.94	284	340	90	•	•	•	•	•									
	<b>C1</b>	4.56 ★	307	369	87	•	•	•	•	•									
	<b>B1</b>	3.92	357	428	82	•	•	•	•	•									
	<b>A1</b>	3.57 ★	393	471	79	•	•	•	•	•									

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times i_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size	Ratio code Order No.	Transmis- sion ratio $i_{tot}$	Output speed		Max. torque $T_2$	Permissible input torque $T_1$ [Nm]													
			2.5x the value is permissible for a brief period (e.g. motor starting torque)			Motor size													
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580	1290
Max. gear unit nominal torque Nm	15th and 16th position					63	71	80	90	10	11	13	16	180	220	225	250	280	315
B.38	<b>U2</b>	65.69	22	26	200	.													
	<b>T2</b>	57.04 ★	25	31	250	.	.												
	<b>S2</b>	50.72	29	34	250	.	.												
	<b>R2</b>	44.00 ★	33	40	250	.	.	.											
	<b>Q2</b>	41.11	35	42	250	.	.	.											
	<b>P2</b>	36.16 ★	40	48	250	.	.	.											
	<b>N2</b>	31.67	46	55	250	.	.	.	.	.	.								
	<b>M2</b>	28.01 ★	52	62	250	.	.	.	.	.	.								
	<b>L2</b>	25.38	57	69	250	.	.	.	.	.	.								
	<b>K2</b>	22.41 ★	65	78	250	.	.	.	.	.	.								
	<b>J2</b>	20.22	72	86	245	.	.	.	.	.	.								
	<b>H2</b>	18.33 ★	79	95	237	.	.	.	.	.	.								
	<b>G2</b>	16.70	87	104	230	.	.	.	.	.	.								
	<b>F2</b>	15.28 ★	95	114	225	.	.	.	.	.	.								
	<b>E2</b>	13.66	106	127	217	.	.	.	.	.	.								
	<b>C2</b>	12.50 ★	116	139	220	.	.	.	.	.	.								
	<b>A2</b>	11.05 ★	131	157	223	.	.	.	.	.	.								
	<b>X1</b>	10.02	145	174	221	.	.	.	.	.	.								
	<b>U1</b>	8.84 ★	164	197	236	.	.	.	.	.	.								
	<b>S1</b>	7.98	182	218	236	.	.	.	.	.	.								
	<b>R1</b>	7.24 ★	200	240	236	.	.	.	.	.	.								
	<b>P1</b>	6.59	220	264	236	.	.	.	.	.	.								
	<b>M1</b>	6.03 ★	240	289	235	.	.	.	.	.	.								
	<b>K1</b>	5.39	269	323	211	.	.	.	.	.	.								
	<b>H1</b>	4.95 ★	293	351	221	.	.	.	.	.	.								
	<b>F1</b>	4.46	325	390	213	.	.	.	.	.	.								
	<b>C1</b>	3.84 ★	378	453	203	.	.	.	.	.	.								

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times i_{tot}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	Transmis- sion ratio $i_{\text{tot}}$	Output speed		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm] 2.5x the value is permissible for a brief period (e.g. motor starting torque)													
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580	1290
			Motor size	63	71	80	90	10	11	13	16	180	220	225	250	280	315		
K.38-D.28 250	M1	13129	0.11	0.13	250	•													
	L1	11327	★	0.12	250	•	•												
	K1	9731		0.14	250	•	•												
	J1	8959	★	0.16	250	•	•	•											
	H1	8144		0.17	250	•	•	•											
	G1	7209	★	0.19	250	•	•	•											
	F1	6038		0.23	250	•	•	•											
	E1	5148	★	0.27	250	•	•	•											
	D1	4376	★	0.32	250	•	•	•											
	C1	3803		0.37	250	•	•	•											
	B1	3310	★	0.42	250	•	•	•											
	A1	2986		0.47	250	•	•	•											
K.38-Z.28 250	C2	2797	0.50	0.60	250	•													
	B2	2359	★	0.59	250	•	•												
	A2	2094		0.67	250	•	•												
	X1	1836		0.76	250	•	•	•											
	W1	1643	★	0.85	250	•	•	•											
	V1	1458		0.96	250	•	•	•											
	U1	1278	★	1.10	250	•	•	•											
	T1	1124		1.30	250	•	•	•											
	S1	1015	★	1.40	250	•	•	•	•										
	R1	884		1.60	250	•	•	•											
	Q1	794	★	1.80	250	•	•	•											
	P1	717		1.90	250	•	•	•	•										
	N1	650	★	2.10	250	•	•	•	•										
	M1	592		2.40	250	•	•	•	•										
	L1	523	★	2.70	250	•	•	•	•										
	K1	483		2.90	250	•	•	•	•										
	J1	416		3.40	250	•	•	•	•										
	H1	378		3.70	250	•	•	•	•										
	G1	344		4.10	250	•	•	•	•										
	F1	312		4.50	250	•	•	•	•										
	E1	284		4.90	250	•	•	•	•										
	D1	251		5.60	250	•	•	•	•										
	C1	231		6.10	250	•	•	•	•										
	B1	199		7.00	250	•	•	•	•										
	A1	181		7.70	250	•	•	•	•										

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size  Max. gear unit nominal torque Nm	Ratio code Order No.  15th and 16th position	Transmis- sion ratio  $i_{\text{tot}}$	Output speed		Max. torque  $T_2$ Nm	Permissible input torque $T_1$ [Nm] 2.5x the value is permissible for a brief period (e.g. motor starting torque)													
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580	1290
						63	71	80	90	10	11	13	16	180	220	225	250	280	315
K.38  148 ... 250	L2	179.13 ★	8.1	9.8	250	•	•	•											
	K2	159.04	9.1	11.0	250	•	•	•	•										
	J2	139.43 ★	10.4	12.6	250	•	•	•	•	•									
	H2	124.78	11.6	14.0	250	•	•	•	•	•									
	G2	110.75 ★	13.1	15.8	250	•	•	•	•	•									
	F2	97.05	14.9	18.0	250	•	•	•	•	•									
	E2	85.33 ★	17.0	21.0	250	•	•	•	•	•									
	D2	77.09	18.8	23.0	250	•	•	•	•	•									
	C2	67.18 ★	22.0	26.0	250	•	•	•	•	•									
	B2	60.33	24.0	29.0	250	•	•	•	•	•									
	A2	54.47 ★	27.0	32.0	250	•	•	•	•	•									
	X1	49.38	29.0	35.0	250	•	•	•	•	•									
	W1	44.94 ★	32.0	39.0	250	•	•	•	•	•									
	V1	39.73	36.0	44.0	250	•	•	•	•	•									
	U1	36.69 ★	40.0	48.0	250	•	•	•	•	•									
	T1	31.59	46.0	55.0	250	•	•	•	•	•									
	S1	28.72 ★	50.0	61.0	250	•	•	•	•	•									
	R1	26.90 ★	54.0	65.0	216	•	•	•	•	•									
	Q1	24.16	60.0	72.0	209	•	•	•	•	•									
	P1	21.81 ★	66.0	80.0	203	•	•	•	•	•									
	N1	19.78	73.0	88.0	197	•	•	•	•	•									
	M1	17.99 ★	81.0	97.0	191	•	•	•	•	•									
	L1	15.91	91.0	110.0	184	•	•	•	•	•									
	K1	14.69 ★	99.0	119.0	180	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	J1	12.65	115.0	138.0	172	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	H1	11.50 ★	126.0	152.0	167	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	G1	10.72 ★	135.0	163.0	159	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	F1	9.72	149.0	180.0	159	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E1	8.85 ★	164.0	198.0	159	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D1	7.82	185.0	224.0	159	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	C1	7.22 ★	201.0	242.0	159	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	B1	6.22	233.0	281.0	152	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A1	5.65 ★	257.0	310.0	148	•	•	•	•	•	•	•	•	•	•	•	•	•	•

★ Preferred transmission ratio

1) Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	Transmis- sion ratio $i_{\text{tot}}$	Output speed		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]													
			$n_2$ (50 Hz) rpm			$n_2$ (60 Hz) rpm		2.5x the value is permissible for a brief period (e.g. motor starting torque)											
			3	3	5	10	20	26	61	98	198	198	291	356	580	1290			
K.48-D.28  450	M1	13135	0.11	0.13	450	•													
	L1	11332	★	0.12	0.15	450	•	•											
	K1	9735		0.14	0.17	450	•	•											
	J1	8963	★	0.16	0.19	450	•	•	•										
	H1	8148		0.17	0.21	450	•	•	•										
	G1	7212	★	0.19	0.23	450	•	•	•										
	F1	6041		0.23	0.28	450	•	•	•										
	E1	5151	★	0.27	0.33	450	•	•	•										
	D1	4378	★	0.32	0.38	450	•	•	•										
	C1	3805		0.37	0.44	450	•	•	•										
	B1	3312	★	0.42	0.51	450	•	•	•										
	A1	2987		0.47	0.56	450	•	•	•										

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times i_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size  Max. gear unit nominal torque Nm	Ratio code Order No.  15th and 16th position	Transmis- sion ratio  $i_{\text{tot}}$	Output speed		Max. torque  $T_2$ Nm	Permissible input torque $T_1$ [Nm] 2.5x the value is permissible for a brief period (e.g. motor starting torque)													
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580	1290
						63	71	80	90	10	11	13	16	180	220	225	250	280	315
K.48-Z.28  450	C2	2798	0.50	0.60	450	•													
	B2	2360	★	0.59	0.71	450	•	•											
	A2	2095		0.67	0.80	450	•	•											
	X1	1837	★	0.76	0.92	450	•	•	•										
	W1	1644		0.85	1.00	450	•	•	•										
	V1	1459	★	0.96	1.20	450	•	•	•										
	U1	1279		1.10	1.30	450	•	•	•										
	T1	1124	★	1.30	1.50	450	•	•	•										
	S1	1015		1.40	1.70	450	•	•	•	•									
	R1	885	★	1.60	1.90	450	•	•	•										
	Q1	795		1.80	2.10	450	•	•	•										
	P1	717	★	2.00	2.30	450	•	•	•	•									
	N1	651		2.20	2.60	450	•	•	•	•									
	M1	592	★	2.40	2.80	450	•	•	•	•									
	L1	523		2.70	3.20	450	•	•	•	•									
	K1	483	★	2.90	3.50	450	•	•	•	•									
	J1	416		3.40	4.00	450	•	•	•	•									
	H1	378	★	3.70	4.40	450	•	•	•	•									
	G1	344	★	4.10	4.90	450	•	•	•	•									
	F1	312		4.50	5.40	450	•	•	•	•									
	E1	284	★	4.90	5.90	450	•	•	•	•									
	D1	251		5.60	6.70	450	•	•	•	•									
	C1	232	★	6.10	7.30	450	•	•	•	•									
	B1	199		7.00	8.40	450	•	•	•	•									
	A1	181	★	7.70	9.30	450	•	•	•	•									

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\text{max}}$  for gear units with input units:

$$T_{2\text{max}} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\text{max}} \leq T_2$$

If  $T_{2\text{max}} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	Transmis- sion ratio $i_{\text{tot}}$	Output speed		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]													
			$n_2$ (50 Hz) rpm			$n_2$ (60 Hz) rpm		2.5x the value is permissible for a brief period (e.g. motor starting torque)											
			3	3	5	10	20	26	61	98	198	198	291	356	580	1290			
K.48 256 ... 450	J2	169.53 ★	8.6	10.3	450	•	•	•											
	H2	150.76	9.6	11.6	450	•	•	•											
	G2	130.78 ★	11.1	13.4	450	•	•	•	•										
	F2	122.19	11.9	14.3	450	•	•	•	•										
	E2	107.47 ★	13.5	16.3	450	•	•	•	•										
	D2	94.12	15.4	18.6	450	•	•	•	•	•	•								
	C2	83.25 ★	17.4	21.0	450	•	•	•	•	•	•	•	•	•	1)				
	B2	75.45	19.2	23.0	450	•	•	•	•	•	•	•	•	•	1)				
	A2	66.60 ★	22.0	26.0	450	•	•	•	•	•	•	•	•	•	1)				
	X1	60.08	24.0	29.0	450	•	•	•	•	•	•	•	•	•	1)				
	W1	54.49 ★	27.0	32.0	450	•	•	•	•	•	•	•	•	•	1)				
	V1	49.65	29.0	35.0	450	•	•	•	•	•	•	•	•	•	1)				
	U1	45.41 ★	32.0	39.0	450	•	•	•	•	•	•	•	•	•	1)				
	T1	40.60	36.0	43.0	450	•	•	•	•	•	•	•	•	•	1)				
	S1	37.28 ★	39.0	47.0	450	•	•	•	•	•	•	•	•	•	1)				
	R1	33.60	43.0	52.0	450	•	•	•	•	•	•	•	•	•	1)				
	Q1	28.90 ★	50.0	61.0	450	•	•	•	•	•	•	•	•	•	1)				
	P1	27.55 ★	53.0	64.0	450	•	•	•	•	•	•	•	•	•	1)				
	N1	24.85	58.0	70.0	450	•	•	•	•	•	•	•	•	•	1)				
	M1	22.54 ★	64.0	78.0	450	•	•	•	•	•	•	•	•	•	1)				
	L1	20.54	71.0	85.0	450	•	•	•	•	•	•	•	•	•	1)				
	K1	18.78 ★	77.0	93.0	450	•	•	•	•	•	•	•	•	•	1)				
	J1	16.79	86.0	104.0	450	•	•	•	•	•	•	•	•	•	1)				
	H1	15.42 ★	94.0	113.0	450	•	•	•	•	•	•	•	•	•	1)				
	G1	13.90	104.0	126.0	440	•	•	•	•	•	•	•	•	•	1)				
	F1	11.95 ★	121.0	146.0	420	•	•	•	•	•	•	•	•	•	1)				
	E1	11.35 ★	128.0	154.0	291	•	•	•	•	•	•	•	•	•	1)				
	D1	10.15	143.0	172.0	284	•	•	•	•	•	•	•	•	•	1)				
	C1	9.32 ★	156.0	188.0	277	•	•	•	•	•	•	•	•	•	1)				
	B1	8.40	173.0	208.0	268	•	•	•	•	•	•	•	•	•	1)				
	A1	7.22 ★	201.0	242.0	256	•	•	•	•	•	•	•	•	•	1)				

★ Preferred transmission ratio

1) Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size  Max. gear unit nominal torque Nm	Ratio code Order No.  15th and 16th position	Transmis- sion ratio  $i_{\text{tot}}$	Output speed		Max. torque  $T_2$ Nm	Permissible input torque $T_1$ [Nm] 2.5x the value is permissible for a brief period (e.g. motor starting torque)													
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580	1290
			Motor size			63	71	80	90	10	11	13	16	180	220	225	250	280	315
K.68-D.28  820	M1	20103	0.07	0.08	820	•													
	L1	17343	★	0.08	0.10	820	•	•											
	K1	14900		0.09	0.11	820	•	•											
	J1	13717	★	0.10	0.12	820	•	•	•										
	H1	12470		0.11	0.14	820	•	•	•										
	G1	11038	★	0.13	0.15	820	•	•	•										
	F1	9245		0.15	0.18	820	•	•	•										
	E1	7883	★	0.18	0.21	820	•	•	•										
	D1	6700	★	0.21	0.25	820	•	•	•										
	C1	5823		0.24	0.29	820	•	•	•										
	B1	5068	★	0.28	0.33	820	•	•	•										
	A1	4572		0.31	0.37	820	•	•	•										
K.68-Z.28  820	C2	4282	0.33	0.39	820	•													
	B2	3611	★	0.39	0.47	820	•	•											
	A2	3206		0.44	0.52	820	•	•											
	X1	2811	★	0.50	0.60	820	•	•	•										
	W1	2515		0.56	0.67	820	•	•	•										
	V1	2233	★	0.63	0.75	820	•	•	•										
	U1	1957		0.72	0.86	820	•	•	•										
	T1	1720	★	0.81	0.98	820	•	•	•										
	S1	1554		0.90	1.10	820	•	•	•	•									
	R1	1354	★	1.00	1.20	820	•	•	•										
	Q1	1216		1.20	1.40	820	•	•	•										
	P1	1098	★	1.30	1.50	820	•	•	•	•									
	N1	996		1.40	1.70	820	•	•	•	•									
	M1	906	★	1.60	1.90	820	•	•	•	•									
	L1	801		1.80	2.10	820	•	•	•	•									
	K1	740	★	1.90	2.30	820	•	•	•	•									
	J1	637		2.20	2.60	820	•	•	•	•									
	H1	579	★	2.40	2.90	820	•	•	•	•									
	G1	526	★	2.70	3.20	820	•	•	•	•									
	F1	477		2.90	3.50	820	•	•	•	•									
	E1	434	★	3.20	3.90	820	•	•	•	•									
	D1	384		3.70	4.40	820	•	•	•	•									
	C1	354	★	4.00	4.70	820	•	•	•	•									
	B1	305		4.60	5.50	820	•	•	•	•									
	A1	277	★	5.10	6.10	820	•	•	•	•									

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	Transmis- sion ratio $i_{\text{tot}}$	Output speed			Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]												
							2.5x the value is permissible for a brief period (e.g. motor starting torque)												
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm		3	3	5	10	20	26	61	98	198	198	291	356	580
K.68 345 ... 820	N2	243.72	5.9	7.2	820	•	•	•											
	M2	215.68 ★	6.7	8.1	820	•	•	•	•	•									
	L2	196.07	7.4	8.9	820	•	•	•	•	•									
	K2	176.14 ★	8.2	9.9	820	•	•	•	•	•									
	J2	150.98	9.6	11.6	820	•	•	•	•	•	•								
	H2	136.60 ★	10.6	12.8	820	•	•	•	•	•	•	•	•	•	•	1)			
	G2	126.09	11.5	13.9	820	•	•	•	•	•	•	•	•	•	•	•			
	F2	109.64 ★	13.2	16.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	E2	99.55	14.6	17.6	820	•	•	•	•	•	•	•	•	•	•	1)			
	D2	90.89 ★	16.0	19.3	820	•	•	•	•	•	•	•	•	•	•	1)			
	C2	83.40	17.4	21.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	B2	76.84 ★	18.9	23.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	A2	69.78	21.0	25.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	X1	63.57 ★	23.0	28.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	W1	58.23	25.0	30.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	V1	51.96 ★	28.0	34.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	U1	46.37	31.0	38.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	T1	39.39	37.0	44.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	S1	32.78 ★	44.0	53.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	R1	30.38	48.0	58.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	Q1	27.99 ★	52.0	63.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	P1	25.42	57.0	69.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	N1	23.16 ★	63.0	76.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	M1	21.22	68.0	82.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	L1	18.93 ★	77.0	92.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	K1	16.89	86.0	104.0	820	•	•	•	•	•	•	•	•	•	•	1)			
	J1	14.35	101.0	122.0	812	•	•	•	•	•	•	•	•	•	•	1)			
	H1	11.94 ★	121.0	147.0	768	•	•	•	•	•	•	•	•	•	•	1)			
	G1	11.41	127.0	153.0	434	•	•	•	•	•	•	•	•	•	•	1)			
	F1	10.40 ★	139.0	168.0	422	•	•	•	•	•	•	•	•	•	•	1)			
	E1	9.52	152.0	184.0	411	•	•	•	•	•	•	•	•	•	•	1)			
	D1	8.50 ★	171.0	206.0	397	•	•	•	•	•	•	•	•	•	•	1)			
	C1	7.58	191.0	231.0	383	•	•	•	•	•	•	•	•	•	•	1)			
	B1	6.44	225.0	272.0	365	•	•	•	•	•	•	•	•	•	•	1)			
	A1	5.36 ★	271.0	326.0	345	•	•	•	•	•	•	•	•	•	•	1)			

★ Preferred transmission ratio

1) Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size  Max. gear unit nominal torque Nm	Ratio code Order No.  15th and 16th position	Transmis- sion ratio  $i_{\text{tot}}$	Output speed		Max. torque  $T_2$ Nm	Permissible input torque $T_1$ [Nm] 2.5x the value is permissible for a brief period (e.g. motor starting torque)													
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580	1290
						Motor size	63	71	80	90	10	11	13	16	180	220	225	250	280
K.88-D.28  1650	M1	24920	0.06	0.07	1650	•													
	L1	21499 ★	0.07	0.08	1650	•	•												
	K1	18470	0.08	0.09	1650	•	•												
	J1	17005 ★	0.08	0.10	1650	•	•	•											
	H1	15459	0.09	0.11	1650	•	•	•											
	G1	13683 ★	0.10	0.12	1650	•	•	•											
	F1	11460	0.12	0.15	1650	•	•	•											
	E1	9772 ★	0.14	0.17	1650	•	•	•											
	D1	8306 ★	0.17	0.20	1650	•	•	•											
	C1	7218	0.19	0.23	1650	•	•	•											
	B1	6283 ★	0.22	0.27	1650	•	•	•											
	A1	5667	0.25	0.30	1650	•	•	•											
K.88-Z.28  1650	C2	5309	0.26	0.32	1650	•													
	B2	4477 ★	0.31	0.38	1650	•	•												
	A2	3975	0.35	0.42	1650	•	•												
	X1	3485 ★	0.40	0.48	1650	•	•	•											
	W1	3118	0.45	0.54	1650	•	•	•											
	V1	2768 ★	0.51	0.61	1650	•	•	•											
	U1	2426	0.58	0.69	1650	•	•	•											
	T1	2133 ★	0.66	0.79	1650	•	•	•											
	S1	1926	0.73	0.87	1650	•	•	•	•										
	R1	1679 ★	0.83	1.00	1650	•	•	•											
	Q1	1508	0.93	1.10	1650	•	•	•											
	P1	1361 ★	1.00	1.20	1650	•	•	•	•										
	N1	1234	1.10	1.40	1650	•	•	•	•										
	M1	1123 ★	1.30	1.50	1650	•	•	•	•										
	L1	993	1.40	1.70	1650	•	•	•	•										
	K1	917 ★	1.50	1.80	1650	•	•	•	•										
	J1	789	1.80	2.10	1650	•	•	•	•										
	H1	718 ★	2.00	2.30	1650	•	•	•	•										
	G1	652 ★	2.20	2.60	1650	•	•	•	•										
	F1	591	2.40	2.80	1650	•	•	•	•										
	E1	538 ★	2.60	3.10	1650	•	•	•	•										
	D1	476	2.90	3.50	1650	•	•	•	•										
	C1	439 ★	3.20	3.80	1650	•	•	•	•										
	B1	378	3.70	4.40	1650	•	•	•	•										
	A1	344 ★	4.10	4.90	1650	•	•	•	•										

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	$i_{\text{tot}}$	Output speed			Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]												
							2.5x the value is permissible for a brief period (e.g. motor starting torque)												
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm		3	3	5	10	20	26	61	98	198	198	291	356	580
K.88 651 ... 1650	M2	302.68 ★	4.8	5.8	1540	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	L2	272.95	5.3	6.4	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	K2	246.13 ★	5.9	7.1	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	J2	215.25	6.7	8.1	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	H2	193.24 ★	7.5	9.1	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	G2	176.50	8.2	9.9	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	F2	156.63 ★	9.3	11.2	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	E2	144.58	10.0	12.1	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D2	130.77 ★	11.1	13.4	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	C2	120.42	12.0	14.5	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	B2	111.37 ★	13.0	15.7	1650	•	•	•	•	•	•	•	•	•	•	•	•	•	1)
	A2	103.38	14.0	16.9	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	X1	91.22 ★	15.9	19.2	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	W1	84.21	17.2	21.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	V1	75.45 ★	19.2	23.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	U1	69.57	21.0	25.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	T1	58.37	25.0	30.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	S1	49.80 ★	29.0	35.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	Q1	41.50	35.0	42.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	P1	34.40 ★	42.0	51.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	N1	30.87 ★	47.0	57.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	M1	28.50	51.0	61.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	L1	25.53 ★	57.0	69.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	K1	23.54	62.0	74.0	1650	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	J1	19.75	73.0	89.0	1572	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	H1	16.85 ★	86.0	104.0	1498	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	G1	14.04	103.0	125.0	1417	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	F1	11.64 ★	125.0	150.0	1339	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	E1	11.21	129.0	156.0	806	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	D1	9.41	154.0	186.0	764	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	C1	8.03 ★	181.0	218.0	728	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	B1	6.69	217.0	262.0	689	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
	A1	5.54 ★	262.0	316.0	651	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)

★ Preferred transmission ratio

1) Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size	Ratio code Order No.	Transmis- sion ratio $i_{\text{tot}}$	Output speed		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]												
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580
Max. gear unit nominal torque Nm	15th and 16th position				63	71	80	90	10	11	13	16	180	220	225	250	280	315
<b>K.108-D38</b>  <b>3000</b>	<b>P1</b>	58914	0.20	0.30	3000	•	•	•										
	<b>N1</b>	52306	0.30	0.30	3000	•	•	•	•									
	<b>M1</b>	45858	0.30	0.40	3000	•	•	•	•	•								
	<b>L1</b>	41037	0.40	0.40	3000	•	•	•	•	•	•							
	<b>K1</b>	36423	0.40	0.50	3000	•	•	•	•	•	•							
	<b>J1</b>	31918	0.50	0.50	3000	•	•	•	•	•	•							
	<b>H1</b>	28064	0.50	0.60	3000	•	•	•	•	•	•							
	<b>G1</b>	25354	0.60	0.70	3000	•	•	•	•	•	•							
	<b>F1</b>	22093	0.70	0.80	3000	•	•	•	•	•	•							
	<b>E1</b>	19842	0.70	0.90	3000	•	•	•	•	•	•							
	<b>D1</b>	17913	0.80	0.10	3000	•	•	•	•	•	•							
	<b>C1</b>	16241	0.90	0.11	3000	•	•	•	•	•	•							
	<b>B1</b>	14778	0.10	0.12	3000	•	•	•	•	•	•							
	<b>A1</b>	13066	0.11	0.13	3000	•	•	•	•	•	•							
<b>K.108-Z38</b>  <b>3000</b>	<b>W1</b>	13556	0.11	0.13	3000	•	•	•										
	<b>V1</b>	12055	0.12	0.15	3000	•	•	•										
	<b>U1</b>	10457	0.14	0.17	3000	•	•	•	•	•	•							
	<b>T1</b>	9771	0.15	0.18	3000	•	•	•	•	•	•							
	<b>S1</b>	8593	0.17	0.20	3000	•	•	•	•	•	•							
	<b>R1</b>	7526	0.19	0.23	3000	•	•	•	•	•	•	•						
	<b>Q1</b>	6657	0.22	0.26	3000	•	•	•	•	•	•	•	•					
	<b>P1</b>	6033	0.24	0.29	3000	•	•	•	•	•	•	•	•					
	<b>N1</b>	5326	0.27	0.33	3000	•	•	•	•	•	•	•	•					
	<b>M1</b>	4804	0.30	0.36	3000	•	•	•	•	•	•	•	•					
	<b>L1</b>	4357	0.33	0.40	3000	•	•	•	•	•	•	•	•					
	<b>K1</b>	3970	0.37	0.44	3000	•	•	•	•	•	•	•	•					
	<b>J1</b>	3631	0.40	0.48	3000	•	•	•	•	•	•	•	•					
	<b>H1</b>	3247	0.45	0.54	3000	•	•	•	•	•	•	•	•					
	<b>G1</b>	2981	0.49	0.59	3000	•	•	•	•	•	•	•	•					
	<b>F1</b>	2687	0.54	0.65	3000	•	•	•	•	•	•	•	•					
	<b>E1</b>	2311	0.63	0.76	3000	•	•	•	•	•	•	•	•					
	<b>D1</b>	2060	0.70	0.85	3000	•	•	•	•	•	•	•	•					
	<b>C1</b>	1892	0.77	0.92	3000	•	•	•	•	•	•	•	•					
	<b>B1</b>	1705	0.85	1.03	3000	•	•	•	•	•	•	•	•					
	<b>A1</b>	1466	0.99	1.19	3000	•	•	•	•	•	•	•	•					

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	Transmis- sion ratio $i_{\text{tot}}$	Output speed		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]													
			$n_2$ (50 Hz) rpm			$n_2$ (60 Hz) rpm		2.5x the value is permissible for a brief period (e.g. motor starting torque)											
			3	3	5	10	20	26	61	98	198	198	291	356	580	1290			
K.108-Z48 3000	P1	1343	1.08	1.30	3000	•	•	•	•	•	•	•	•	•	•	•			
	N1	1233	1.18	1.42	3000	•	•	•	•	•	•	•	•	•	•	•			
	M1	1136	1.28	1.54	3000	•	•	•	•	•	•	•	•	•	•	•			
	L1	1031	1.41	1.70	3000	•	•	•	•	•	•	•	•	•	•	•			
	K1	940	1.54	1.86	3000	•	•	•	•	•	•	•	•	•	•	•			
	J1	861	1.68	2.03	3000	•	•	•	•	•	•	•	•	•	•	•			
	H1	768	1.89	2.28	3000	•	•	•	•	•	•	•	•	•	•	•			
	G1	685	2.12	2.55	3000	•	•	•	•	•	•	•	•	•	•	•			
	F1	582	2.49	3.01	3000	•	•	•	•	•	•	•	•	•	•	•			
	E1	485	2.99	3.61	3000	•	•	•	•	•	•	•	•	•	•	•			
	D1	477	3.04	3.67	3000	•	•	•	•	•	•	•	•	•	•	•			
	C1	426	3.40	4.11	3000	•	•	•	•	•	•	•	•	•	•	•			
	B1	361	4.02	4.85	3000	•	•	•	•	•	•	•	•	•	•	•			
	A1	301	4.82	5.81	3000	•	•	•	•	•	•	•	•	•	•	•			
K.108 1656 ... 3000	K2	307.24	4.70	5.70	2906	•	•												
	J2	278.10 ★	5.20	6.30	2830	•	•												
	H2	243.47	6.00	7.20	3000	•	•	•											
	G2	219.64 ★	6.60	8.00	3000	•	•	•	•	•	•	•	•	•	•	•			
	F2	201.11	7.20	8.70	3000	•	•	•	•	•	•	•	•	•	•	•			
	E2	178.90 ★	8.10	9.80	3000	•	•	•	•	•	•	•	•	•	•	•			
	D2	163.51	8.90	10.70	3000	•	•	•	•	•	•	•	•	•	•	•			
	C2	150.31 ★	9.60	11.60	3000	•	•	•	•	•	•	•	•	•	•	•			
	B2	138.87	10.40	12.60	3000	•	•	•	•	•	•	•	•	•	•	•			
	A2	128.86 ★	11.30	13.60	3000	•	•	•	•	•	•	•	•	•	•	•			
	X1	120.03	12.10	14.60	3000	•	•	•	•	•	•	•	•	•	•	•			
	W1	108.52 ★	13.40	16.10	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	V1	99.90	14.50	17.50	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	U1	89.85 ★	16.10	19.50	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	T1	82.90	17.50	21.00	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	S1	70.24	21.00	25.00	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	R1	61.22 ★	24.00	29.00	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	Q1	52.08	28.00	34.00	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	P1	44.44 ★	33.00	39.00	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	N1	36.44 ★	40.00	48.00	2832	•	•	•	•	•	•	•	•	•	•	•	1)		
	M1	33.87 ★	43.00	52.00	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	L1	31.25	46.00	56.00	3000	•	•	•	•	•	•	•	•	•	•	•	1)		
	K1	26.48	55.00	66.00	2882	•	•	•	•	•	•	•	•	•	•	•	1)		
	J1	23.08 ★	63.00	76.00	2764	•	•	•	•	•	•	•	•	•	•	•	1)		
	G1	19.63	74.00	89.00	2632	•	•	•	•	•	•	•	•	•	•	•	1)		
	F1	16.75 ★	87.00	104.00	2509	•	•	•	•	•	•	•	•	•	•	•	1)		
	E1	13.74 ★	106.00	127.00	2362	•	•	•	•	•	•	•	•	•	•	•	1)		
	D1	12.90 ★	112.00	136.00	1938	•	•	•	•	•	•	•	•	•	•	•	1)		
	C1	10.97	132.00	160.00	1845	•	•	•	•	•	•	•	•	•	•	•	1)		
	B1	9.36 ★	155.00	187.00	1759	•	•	•	•	•	•	•	•	•	•	•	1)		
	A1	7.68 ★	189.00	228.00	1656	•	•	•	•	•	•	•	•	•	•	•	1)		

★ Preferred transmission ratio

1) Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size	Ratio code Order No.	Transmis- sion ratio	Output speed		Max. torque	Permissible input torque $T_1$ [Nm]													
Max. gear unit nominal torque Nm	15th and 16th position	$i_{\text{tot}}$	$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm	$T_2$ Nm	2.5x the value is permissible for a brief period (e.g. motor starting torque)													
						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
<b>K.128-D38</b>  <b>4700</b>	P1	56640	★	0.03	0.03	4700	•	•	•										
	N1	50287		0.03	0.03	4700	•	•	•	•									
	M1	44087	★	0.03	0.04	4700	•	•	•	•	•								
	L1	39453		0.04	0.04	4700	•	•	•	•	•								
	K1	35017	★	0.04	0.05	4700	•	•	•	•	•								
	J1	30686		0.05	0.06	4700	•	•	•	•	•								
	H1	26980	★	0.05	0.06	4700	•	•	•	•	•								
	G1	24375		0.06	0.07	4700	•	•	•	•	•								
	F1	21240	★	0.07	0.08	4700	•	•	•	•	•								
	E1	19076		0.08	0.09	4700	•	•	•	•	•								
	D1	17221	★	0.08	0.10	4700	•	•	•	•	•								
	C1	15614		0.09	0.11	4700	•	•	•	•	•								
	B1	14208	★	0.10	0.12	4700	•	•	•	•	•								
	A1	12562		0.12	0.14	4700	•	•	•	•	•								
<b>K.128-Z38</b>  <b>4700</b>	W1	13032	★	0.11	0.13	4700	•	•	•										
	V1	11590		0.13	0.15	4700	•	•	•										
	U1	10054	★	0.14	0.17	4700	•	•	•	•	•								
	T1	9394		0.15	0.19	4700	•	•	•	•	•								
	S1	8262	★	0.18	0.21	4700	•	•	•	•	•								
	R1	7236		0.20	0.24	4700	•	•	•	•	•	•							
	Q1	6400	★	0.23	0.27	4700	•	•	•	•	•	•							
	P1	5800		0.25	0.30	4700	•	•	•	•	•	•							
	N1	5120	★	0.28	0.34	4700	•	•	•	•	•	•							
	M1	4619		0.31	0.38	4700	•	•	•	•	•	•							
	L1	4189	★	0.35	0.42	4700	•	•	•	•	•	•							
	K1	3817		0.38	0.46	4700	•	•	•	•	•	•							
	J1	3491	★	0.42	0.50	4700	•	•	•	•	•	•							
	H1	3121		0.46	0.56	4700	•	•	•	•	•	•							
	G1	2866	★	0.51	0.61	4700	•	•	•	•	•	•							
	F1	2583		0.56	0.68	4700	•	•	•	•	•	•							
	E1	2221	★	0.65	0.79	4700	•	•	•	•	•	•							
	D1	1981		0.73	0.88	4700	•	•	•	•	•	•							
	C1	1819	★	0.80	0.96	4700	•	•	•	•	•	•							
	B1	1639		0.88	1.07	4700	•	•	•	•	•	•							
	A1	1410	★	1.03	1.24	4700	•	•	•	•	•	•							

4

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	$i_{\text{tot}}$	Transmis-		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]												
			Output speed			2.5x the value is permissible for a brief period (e.g. motor starting torque)												
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580
K.128-Z48 4700	P1	1400	1.04	1.25	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	N1	1284	1.13	1.36	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	M1	1183	1.23	1.48	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	L1	1074	1.35	1.63	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	K1	979	1.48	1.79	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	J1	897	1.62	1.95	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	H1	800	1.81	2.19	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	G1	714	2.03	2.45	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	F1	606	2.39	2.89	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	E1	505	2.87	3.47	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	D1	497	2.92	3.52	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	C1	443	3.27	3.95	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	B1	377	3.85	4.64	4700	•	•	•	•	•	•	•	•	•	•	•	•	•
	A1	313	4.63	5.59	4700	•	•	•	•	•	•	•	•	•	•	•	•	•

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times i_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size  Max. gear unit nominal torque Nm	Ratio code Order No.  15th and 16th position	Transmis- sion ratio  $i_{\text{tot}}$	Output speed		Max. torque  $T_2$ Nm	Permissible input torque $T_1$ [Nm]												
			2.5x the value is permissible for a brief period (e.g. motor starting torque)			Motor size												
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3 63	3 71	5 80	10 90	20 10	26 11	61 13	98 16	198 180	198 220	291 225	356 250	580 280
K.128  2707 ... 4700	L2	295.38 ★	4.9	5.9	4700				•	•	•							
	K2	270.90	5.4	6.5	4700				•	•	•							
	J2	242.02 ★	6.0	7.2	4700				•	•	•	•						
	H2	221.64	6.5	7.9	4700				•	•	•	•						
	G2	204.18 ★	7.1	8.6	4700				•	•	•	•						
	F2	189.04	7.7	9.3	4700				•	•	•	•						
	E2	175.80 ★	8.2	10.0	4700				•	•	•	•	•					
	D2	164.11	8.8	10.7	4700				•	•	•	•	•					
	C2	146.84 ★	9.9	11.9	4700				•	•	•	•	•					
	B2	136.06	10.7	12.9	4700				•	•	•	•	•					
	A2	124.73 ★	11.6	14.0	4700				•	•	•	•	•			• 1)		
	X1	114.34	12.7	15.3	4700				•	•	•	•	•			• 1)		
	W1	97.44	14.9	18.0	4700				•	•	•	•	•			• 1)		
	V1	85.98 ★	16.9	20.0	4700				•	•	•	•	•			• 1)		
	U1	73.18	19.8	24.0	4700				•	•	•	•	•			• 1)		
	T1	63.41 ★	23.0	28.0	4700				•	•	•	•	•			• 1)		
	S1	53.36 ★	27.0	33.0	4700				•	•	•	•	•			• 1)		
	R1	48.14	30.0	36.0	4700											• 1)		
	Q1	41.38 ★	35.0	42.0	4700											• 1)		
	P1	39.19 ★	37.0	45.0	4700				•	•	•	•	•			• 1)		
	N1	35.92	40.0	49.0	4700				•	•	•	•	•			• 1)		
	M1	30.61	47.0	57.0	4700				•	•	•	•	•			• 1)		
	L1	27.02 ★	54.0	65.0	4700				•	•	•	•	•			• 1)		
	K1	22.99	63.0	76.0	4700				•	•	•	•	•			• 1)		
	J1	19.92 ★	73.0	88.0	4700				•	•	•	•	•			• 1)		
	H1	16.76 ★	87.0	104.0	4700				•	•	•	•	•			• 1)		
	G1	15.13	96.0	116.0	4626											• 1)		
	F1	13.00 ★	112.0	135.0	4419											• 1)		
	E1	12.56	115.0	139.0	3217				•	•	•	•	•			• 1)		
	D1	10.88 ★	133.0	161.0	3081				•	•	•	•	•			• 1)		
	C1	9.16 ★	158.0	191.0	2924				•	•	•	•	•			• 1)		
	B1	8.26	176.0	212.0	2834											• 1)		
	A1	7.10 ★	204.0	246.0	2707											• 1)		

★ Preferred transmission ratio

1) Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$T_{2\max} = T_1 \times I_{\text{tot}}$ , if  $T_{2\max} \leq T_2$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	Transmis- sion ratio $i_{\text{tot}}$	Output speed		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]													
			$n_2$ (50 Hz) rpm			$n_2$ (60 Hz) rpm		2.5x the value is permissible for a brief period (e.g. motor starting torque)											
			3	3	5	10	20	26	61	98	198	198	291	356	580	1290			
K.148-D38 8000	P1	58692	0.02	0.03	8000	•	•	•											
	N1	52109	0.03	0.03	8000	•	•	•	•										
	M1	45684	0.03	0.04	8000	•	•	•	•	•									
	L1	40882	0.04	0.04	8000	•	•	•	•	•	•								
	K1	36286	0.04	0.05	8000	•	•	•	•	•	•								
	J1	31797	0.05	0.06	8000	•	•	•	•	•	•								
	H1	27958	0.05	0.06	8000	•	•	•	•	•	•								
	G1	25258	0.06	0.07	8000	•	•	•	•	•	•								
	F1	22009	0.07	0.08	8000	•	•	•	•	•	•								
	E1	19767	0.07	0.09	8000	•	•	•	•	•	•								
	D1	17845	0.08	0.10	8000	•	•	•	•	•	•								
	C1	16180	0.09	0.11	8000	•	•	•	•	•	•								
	B1	14722	0.10	0.12	8000	•	•	•	•	•	•								
	A1	13017	0.11	0.13	8000	•	•	•	•	•	•								
K.148-Z38 8000	W1	13505	0.11	0.13	8000	•	•	•											
	V1	12009	0.12	0.15	8000	•	•	•											
	U1	10418	0.14	0.17	8000	•	•	•	•	•	•								
	T1	9734	0.15	0.18	8000	•	•	•	•	•	•								
	S1	8561	0.17	0.20	8000	•	•	•	•	•	•								
	R1	7498	0.19	0.23	8000	•	•	•	•	•	•								
	Q1	6632	0.22	0.26	8000	•	•	•	•	•	•								
	P1	6010	0.24	0.29	8000	•	•	•	•	•	•								
	N1	5305	0.27	0.33	8000	•	•	•	•	•	•								
	M1	4786	0.30	0.37	8000	•	•	•	•	•	•								
	L1	4341	0.33	0.40	8000	•	•	•	•	•	•								
	K1	3955	0.37	0.44	8000	•	•	•	•	•	•								
	J1	3617	0.40	0.48	8000	•	•	•	•	•	•								
	H1	3234	0.45	0.54	8000	•	•	•	•	•	•								
	G1	2970	0.49	0.59	8000	•	•	•	•	•	•								
	F1	2677	0.54	0.65	8000	•	•	•	•	•	•								
	E1	2302	0.63	0.76	8000	•	•	•	•	•	•								
	D1	2053	0.71	0.85	8000	•	•	•	•	•	•								
	C1	1885	0.77	0.93	8000	•	•	•	•	•	•								
	B1	1699	0.85	1.03	8000	•	•	•	•	•	•								
	A1	1466	0.99	1.20	8000	•	•	•	•	•	•								
K.148-Z268 8000	L1	1392	1.04	1.26	8000	•	•	•	•	•	•	•	•	•	•	•	•	•	
	K1	1247	1.16	1.40	8000	•	•	•	•	•	•	•	•	•	•	•	•	•	
	J1	1150	1.26	1.52	8000	•	•	•	•	•	•	•	•	•	•	•	•	•	
	H1	965	1.50	1.81	8000	•	•	•	•	•	•	•	•	•	•	•	•	•	
	G1	823	1.76	2.13	8000	•	•	•	•	•	•	•	•	•	•	•	•	•	
	F1	686	2.11	2.55	8000							•	•	•	•	•	•	•	
	E1	569	2.55	3.08	8000							•	•	•	•	•	•	•	
	D1	502	2.89	3.49	8000							•	•	•	•	•	•	•	
	C1	428	3.39	4.09	8000							•	•	•	•	•	•	•	
	B1	357	4.06	4.90	8000							•	•	•	•	•	•	•	
	A1	296	4.90	5.91	8000							•	•	•	•	•	•	•	

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size  Max. gear unit nominal torque Nm	Ratio code Order No.  15th and 16th position	Transmis- sion ratio  $i_{\text{tot}}$	Output speed  $n_2$ (50 Hz) rpm	Max. torque  $T_2$ Nm	Permissible input torque $T_1$ [Nm]													
					2.5x the value is permissible for a brief period (e.g. motor starting torque)													
					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
K.148  3320 ... 8000	N2	306.08	4.7	5.7	8000						•	•						
	M2	274.42 ★	5.3	6.4	8000						•	•	•					
	L2	251.55	5.8	7.0	8000						•	•	•					
	K2	231.95 ★	6.3	7.5	8000						•	•	•					
	J2	214.96	6.7	8.1	8000						•	•	•					
	H2	204.38 ★	7.1	8.6	8000						•	•	•	•				
	G2	191.02	7.6	9.2	8000						•	•	•	•				
	F2	168.50 ★	8.6	10.4	8000						•	•	•	•	•	•		
	E2	158.93	9.1	11.0	8000						•	•	•	•	•	•		
	D2	142.41 ★	10.2	12.3	8000						•	•	•	•	•	•	•	
	C2	131.49	11.0	13.3	8000						•	•	•	•	•	•	•	
	B2	112.35	12.9	15.6	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	A2	101.53 ★	14.3	17.2	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	X1	97.82	14.8	17.9	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	W1	84.61	17.1	21.0	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	V1	73.8 ★	19.6	24.0	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	U1	63.16 ★	23.0	28.0	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	T1	56.57	26.0	31.0	8000							•	•	•	•	•	•	• <sup>1)</sup>
	R1	47.91 ★	30.0	37.0	8000							•	•	•	•	•	•	• <sup>1)</sup>
	Q1	41.38	35.0	42.0	8000							•	•	•	•	•	•	• <sup>1)</sup>
	N1	31.10 ★	47.0	56.0	8000							•	•	•	•	•	•	• <sup>1)</sup>
	M1	30.74	47.0	57.0	8000							•	•	•	•	•	•	• <sup>1)</sup>
	L1	26.58	55.0	66.0	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	K1	23.19 ★	63.0	75.0	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	J1	19.84 ★	73.0	88.0	8000						•	•	•	•	•	•	•	• <sup>1)</sup>
	H1	17.77	82.0	98.0	8000							•	•	•	•	•	•	• <sup>1)</sup>
	G1	15.05 ★	96.0	116.0	7603							•	•	•	•	•	•	• <sup>1)</sup>
	F1	13.00	112.0	135.0	7273							•	•	•	•	•	•	• <sup>1)</sup>
	E1	9.77 ★	148.0	179.0	6670							•	•	•	•	•	•	• <sup>1)</sup>
	D1	8.79	165.0	199.0	3980							•	•	•	•	•	•	• <sup>1)</sup>
	C1	7.44 ★	195.0	235.0	3785							•	•	•	•	•	•	• <sup>1)</sup>
	B1	6.43	226.0	272.0	3620							•	•	•	•	•	•	• <sup>1)</sup>
	A1	4.83 ★	300.0	362.0	3320							•	•	•	•	•	•	• <sup>1)</sup>

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No. 15th and 16th position	Transmis- sion ratio $i_{\text{tot}}$	Output speed		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]													
			$n_2$ (50 Hz) rpm			$n_2$ (60 Hz) rpm		2.5x the value is permissible for a brief period (e.g. motor starting torque)											
			3	3	5	10	20	26	61	98	198	198	291	356	580	1290			
K.168-D48 13500	P1	60115	★	0.02	0.03	13500	•	•	•										
	N1	53459		0.03	0.03	13500	•	•	•	•									
	M1	46374	★	0.03	0.04	13500	•	•	•	•	•								
	L1	43330		0.03	0.04	13500	•	•	•	•	•								
	K1	38109	★	0.04	0.05	13500	•	•	•	•	•								
	J1	33375		0.04	0.05	13500	•	•	•	•	•	•							
	H1	29521	★	0.05	0.06	13500	•	•	•	•	•	•							
	G1	26754		0.05	0.07	13500	•	•	•	•	•	•							
	F1	23617	★	0.06	0.07	13500	•	•	•	•	•	•							
	E1	21304		0.07	0.08	13500	•	•	•	•	•	•							
	D1	19323	★	0.08	0.09	13500	•	•	•	•	•	•							
	C1	17605		0.08	0.10	13500	•	•	•	•	•	•							
	B1	16102	★	0.09	0.11	13500	•	•	•	•	•	•							
	A1	14397		0.10	0.12	13500	•	•	•	•	•	•							
K.168-Z48 13500	A2	14767		0.10	0.12	13500	•	•	•										
	X1	13068	★	0.11	0.13	13500	•	•	•	•									
	W1	11880		0.12	0.15	13500	•	•	•	•	•								
	V1	10673	★	0.14	0.16	13500	•	•	•	•	•								
	U1	9148		0.16	0.19	13500	•	•	•	•	•	•							
	T1	8277	★	0.18	0.21	13500	•	•	•	•	•	•	•						
	S1	7640		0.19	0.23	13500	•	•	•	•	•	•	•						
	R1	6643	★	0.22	0.26	13500	•	•	•	•	•	•	•						
	Q1	6032		0.24	0.29	13500	•	•	•	•	•	•	•						
	P1	5507	★	0.26	0.32	13500	•	•	•	•	•	•	•						
	N1	5053		0.29	0.35	13500	•	•	•	•	•	•	•						
	M1	4656	★	0.31	0.38	13500	•	•	•	•	•	•	•						
	L1	4228		0.34	0.41	13500	•	•	•	•	•	•	•						
	K1	3852	★	0.38	0.45	13500	•	•	•	•	•	•	•						
	J1	3528		0.41	0.50	13500	•	•	•	•	•	•	•						
	H1	3148	★	0.46	0.56	13500	•	•	•	•	•	•	•						
	G1	2810		0.52	0.62	13500	•	•	•	•	•	•	•						
	F1	2386		0.61	0.73	13500	•	•	•	•	•	•	•						
	E1	1986	★	0.73	0.88	13500	•	•	•	•	•	•	•						
	D1	1955	★	0.74	0.90	13500	•	•	•	•	•	•	•						
	C1	1745		0.83	1.00	13500	•	•	•	•	•	•	•						
	B1	1482		0.98	1.18	13500	•	•	•	•	•	•	•						
	A1	1233	★	1.18	1.42	13500	•	•	•	•	•	•	•						
K.168-Z68 13500	H1	1033		1.40	1.69	13500	•	•	•	•	•	•	•						
	G1	881		1.65	1.99	13500	•	•	•	•	•	•	•						
	F1	735		1.97	2.38	13500				•	•	•	•						
	E1	609		2.38	2.87	13500				•	•	•	•						
	D1	537		2.70	3.26	13500	•	•	•	•	•	•	•						
	C1	458		3.17	3.82	13500	•	•	•	•	•	•	•						
	B1	382		3.80	4.58	13500				•	•	•	•						
	A1	317		4.57	5.52	13500				•	•	•	•						

★ Preferred transmission ratio

1) Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$T_{2\max} = T_1 \times I_{\text{tot}}$ , if  $T_{2\max} \leq T_2$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size  Max. gear unit nominal torque Nm	Ratio code Order No.  15th and 16th position	Transmis- sion ratio  $i_{\text{tot}}$	Output speed  $n_2$ (50 Hz) rpm	Max. torque  $T_2$ Nm	Permissible input torque $T_1$ [Nm]													
					2.5x the value is permissible for a brief period (e.g. motor starting torque)													
					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
					63	71	80	90	10	11	13	16	180	220	225	250	280	315
K.168	H2	287.95 ★	5.0	6.1	13500						•							
	G2	264.18	5.5	6.6	13500						•							
5870 ... 13500	F2	243.80 ★	5.9	7.2	13500						•							
	E2	226.15	6.4	7.7	13500						•							
	D2	213.33 ★	6.8	8.2	13500						•	•						
	C2	199.54	7.3	8.8	13500						•	•						
	B2	177.43 ★	8.2	9.9	13500						•	•	•	•				
	A2	167.50	8.7	10.4	13500						•	•	•	•				
	X1	150.36 ★	9.6	11.6	13500						•	•	•	•	•	•		
	W1	138.00	10.5	12.7	13500						•	•	•	•	•	•		
	V1	119.09	12.2	14.7	13500						•	•	•	•	•	•	•	
	U1	104.18	13.9	16.8	13500						•	•	•	•	•	•	•	
	T1	90.60	16.0	19.3	13500						•	•	•	•	•	•	•	
	S1	79.49 ★	18.2	22.0	13500						•	•	•	•	•	•	•	
	R1	67.22 ★	22.0	26.0	13500						•	•	•	•	•	•	•	
	Q1	60.99	24.0	29.0	13500						•	•	•	•	•	•	•	
	P1	53.18 ★	27.0	33.0	13500						•	•	•	•	•	•	•	
	N1	45.15	32.0	39.0	13500						•	•	•	•	•	•	•	
	M1	34.55 ★	42.0	51.0	13500						•	•	•	•	•	•	•	1)
	L1	32.53	45.0	54.0	13500						•	•	•	•	•	•	•	1)
	K1	28.54 ★	51.0	61.0	13500						•	•	•	•	•	•	•	1)
	J1	24.14 ★	60.0	72.0	13500						•	•	•	•	•	•	•	1)
	H1	21.90	66.0	80.0	13086						•	•	•	•	•	•	•	1)
	G1	19.09 ★	76.0	92.0	12553						•	•	•	•	•	•	•	1)
	F1	16.21	89.0	108.0	11946						•	•	•	•	•	•	•	1)
	E1	12.41 ★	117.0	141.0	11016						•	•	•	•	•	•	•	1)
	D1	11.67	124.0	150.0	6973						•	•	•	•	•	•	•	1)
	C1	10.17 ★	143.0	172.0	6689						•	•	•	•	•	•	•	1)
	B1	8.64	168.0	203.0	6366						•	•	•	•	•	•	•	1)
	A1	6.61 ★	219.0	265.0	5870						•	•	•	•	•	•	•	1)

★ Preferred transmission ratio

1) Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Transmission ratios and maximum torques

#### Selection and ordering data (continued)

Gear unit size Max. gear unit nominal torque Nm	Ratio code Order No.	Transmis- sion ratio $i_{\text{tot}}$	Output speed		Max. torque $T_2$ Nm	Permissible input torque $T_1$ [Nm]													
			$n_2$ (50 Hz) rpm			$n_2$ (60 Hz) rpm		2.5x the value is permissible for a brief period (e.g. motor starting torque)											
			3	3	5	10	20	26	61	98	198	198	291	356	580	1290			
			63	71	80	90	10	11	13	16	180	220	225	250	280	315			
<b>K.188-D68</b>	<b>T1</b>	53767	0.03	0.03	20000	•	•	•											
	<b>S1</b>	47582	★	0.03	0.04	20000	•	•	•	•	•								
	<b>R1</b>	43256		0.03	0.04	20000	•	•	•	•	•								
	<b>Q1</b>	38858	★	0.04	0.05	20000	•	•	•	•	•								
	<b>P1</b>	33307		0.04	0.05	20000	•	•	•	•	•	•							
	<b>N1</b>	30135	★	0.05	0.06	20000	•	•	•	•	•	•							
	<b>M1</b>	27817		0.05	0.06	20000	•	•	•	•	•	•							
	<b>L1</b>	24187	★	0.06	0.07	20000	•	•	•	•	•	•							
	<b>K1</b>	21961		0.07	0.08	20000	•	•	•	•	•	•							
	<b>J1</b>	20052	★	0.07	0.09	20000	•	•	•	•	•	•							
	<b>H1</b>	18398		0.08	0.10	20000	•	•	•	•	•	•							
	<b>G1</b>	16951	★	0.09	0.10	20000	•	•	•	•	•	•							
	<b>F1</b>	15394		0.09	0.11	20000	•	•	•	•	•	•							
	<b>E1</b>	14024	★	0.10	0.12	20000	•	•	•	•	•	•							
	<b>D1</b>	12847		0.11	0.14	20000	•	•	•	•	•	•							
	<b>C1</b>	11463	★	0.13	0.15	20000	•	•	•	•	•	•							
	<b>B1</b>	10230		0.14	0.17	20000	•	•	•	•	•	•							
	<b>A1</b>	8689		0.17	0.20	20000	•	•	•	•	•	•							
<b>K.188-Z68</b>	<b>X1</b>	9201	★	0.16	0.19	20000	•	•	•	•	•	•							
	<b>W1</b>	8047		0.18	0.22	20000	•	•	•	•	•	•							
	<b>V1</b>	7224	★	0.20	0.24	20000	•	•	•	•	•	•	•						
	<b>U1</b>	6598		0.22	0.27	20000	•	•	•	•	•	•							
	<b>T1</b>	5855	★	0.25	0.30	20000	•	•	•	•	•	•	•						
	<b>S1</b>	5405		0.27	0.32	20000	•	•	•	•	•	•	•						
	<b>R1</b>	4889	★	0.30	0.36	20000	•	•	•	•	•	•	•						
	<b>Q1</b>	4502		0.32	0.39	20000	•	•	•	•	•	•	•						
	<b>P1</b>	4163	★	0.35	0.42	20000	•	•	•	•	•	•	•						
	<b>N1</b>	3865		0.38	0.45	20000	•	•	•	•	•	•	•						
	<b>M1</b>	3410	★	0.43	0.51	20000	•	•	•	•	•	•	•						
	<b>L1</b>	3148		0.46	0.56	20000	•	•	•	•	•	•	•						
	<b>K1</b>	2821	★	0.51	0.62	20000	•	•	•	•	•	•	•						
	<b>J1</b>	2601		0.56	0.67	20000	•	•	•	•	•	•	•						
	<b>H1</b>	2182		0.66	0.80	20000	•	•	•	•	•	•	•						
	<b>G1</b>	1862	★	0.78	0.94	20000	•	•	•	•	•	•	•						
	<b>F1</b>	1551		0.93	1.10	20000				•	•	•	•						
	<b>E1</b>	1286	★	1.10	1.40	20000				•	•	•	•						
	<b>D1</b>	1135		1.30	1.50	20000	•	•	•	•	•	•	•						
	<b>C1</b>	968	★	1.50	1.80	20000	•	•	•	•	•	•	•						
	<b>B1</b>	807		1.80	2.20	20000	•	•	•	•	•	•	•						
	<b>A1</b>	669	★	2.20	2.60	20000				•	•	•	•						

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\text{max}}$  for gear units with input units:

$$T_{2\text{max}} = T_1 \times I_{\text{tot}}, \text{ if } T_{2\text{max}} \leq T_2$$

If  $T_{2\text{max}} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gear unit size  Max. gear unit nominal torque Nm	Ratio code Order No.  15th and 16th position	Transmis- sion ratio  $i_{\text{tot}}$	Output speed		Max. torque  $T_2$ Nm	Permissible input torque $T_1$ [Nm] 2.5x the value is permissible for a brief period (e.g. motor starting torque)													
			$n_2$ (50 Hz) rpm	$n_2$ (60 Hz) rpm		3	3	5	10	20	26	61	98	198	198	291	356	580	1290
K.188-Z88  20000	H1 G1 F1 E1 D1 C1 B1 A1	669 ★ 548 ★ 503 429 ★ 352 ★ 321 274 ★ 225 ★	2.20 2.60 2.90 3.40 4.10 4.50 5.30 6.40	2.60 3.20 3.50 4.10 5.00 5.50 6.40 7.80	20000 20000 20000 20000 20000 20000 20000 20000	63	71	80	90	10	11	13	16	180	220	225	250	280	315
						•	•	•	•	•	•	•	•	•	•	•	•	•	•
						•	•	•	•	•	•	•	•	•	•	•	•	•	•
						•	•	•	•	•	•	•	•	•	•	•	•	•	•
						•	•	•	•	•	•	•	•	•	•	•	•	•	•
						•	•	•	•	•	•	•	•	•	•	•	•	•	•
						•	•	•	•	•	•	•	•	•	•	•	•	•	•
						•	•	•	•	•	•	•	•	•	•	•	•	•	•
						•	•	•	•	•	•	•	•	•	•	•	•	•	•
K.188  17500 ... 20000	U1 T1 S1 R1 Q1 P1 N1 M1 L1 K1 J1 H1 G1 F1 E1 D1 C1 B1 A1	191.34 172.78 161.92 139.08 ★ 120.16 106.07 95.48 ★ 79.23 ★ 72.24 63.38 ★ 54.47 42.43 ★ 34.28 ★ 28.45 ★ 25.94 22.76 ★ 19.56 15.23 ★ 12.10 ★	7.6 8.4 9.0 10.4 12.1 13.7 15.2 18.3 20.0 23.0 27.0 34.0 42.0 51.0 51.0 62.0 67.0 64.0 74.0 95.0 120.0	9.1 10.1 10.8 12.6 14.6 16.5 18.3 22.0 24.0 28.0 32.0 41.0 51.0 51.0 62.0 67.0 77.0 89.0 115.0 145.0	20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	•	•	•	•	•	•	•	•	•	•	•	•		

★ Preferred transmission ratio

<sup>1)</sup> Only possible with integrated motor.

In the case of gear units of size 18 or 28, only possible with integrated motor or input unit KQ and KQS.

Calculation of maximum output torque  $T_{2\max}$  for gear units with input units:

$$T_{2\max} = T_1 \times i_{\text{tot}}, \text{ if } T_{2\max} \leq T_2$$

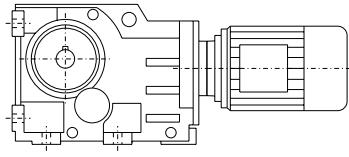
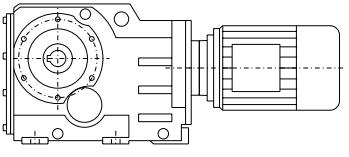
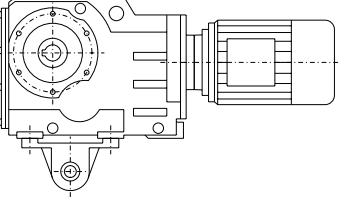
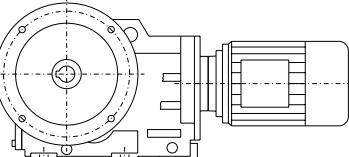
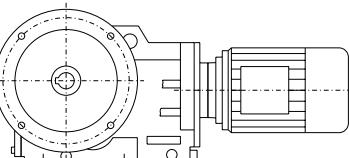
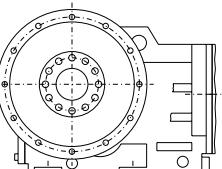
If  $T_{2\max} \geq T_2$ , the max. output torque  $T_2$  of the unit is the decisive factor.

# Geared motors

## Bevel helical geared motors

### Mounting types

#### Selection and ordering data

Mounting type	Order No. 14th position	Code in type designation (2nd position for solid shaft, 3rd position for hollow shaft)	
Foot-mounted design	A	–	
Housing flange (C-type)	H	Z	
Design with torque arm	D	D	
Flange-mounted design (A-type)	F	F	
Mixer flange	M	M	
Extruder flange	E	E	

**Selection and ordering data (continued)**

**Bevel helical gear unit K with torque arm**

The torque arm of bevel helical gear unit K is mounted on the underside of the housing. The rubber buffers (supplied loose) are used to flexibly support the gear unit on the torque arm. The rubber buffers are suitable for all mounting positions and can withstand temperatures of between  $-40^{\circ}\text{C}$  and  $+80^{\circ}\text{C}$ .

Material: Natural rubber, hardness  $70 \pm 5$ , Shore A

Order number: "D" in **14th position**

4

**Bevel helical gear unit B with torque arm**

The torque arm of bevel helical gear unit B consists of an arm with an eye; it can be screwed onto the gear unit housing at an angular pitch of  $60^{\circ}$  in any one of nine positions around the output.

Order number: "D" in **14th position**

Order code:

Figure 1 **G09**

Figure 2 **G10**

Figure 1

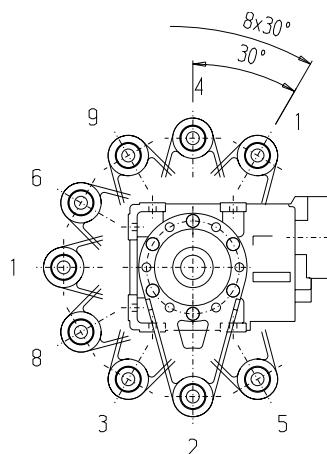
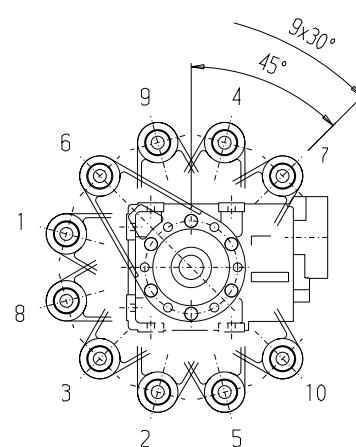


Figure 2



The shafts and mounting positions correspond to the design featuring a housing flange.

**Bevel helical gear unit with mixer flange, sizes 88 to 168**

Heavy-duty design

The mixer flange is fitted with a heavy-duty output bearing with a sizable bearing span for absorbing large radial and axial forces.

The optimized design ensures that no axial forces are transferred to the gear unit housing.

Bearing life can be calculated on request or using the MOTOX Configurator calculation program.

# Geared motors

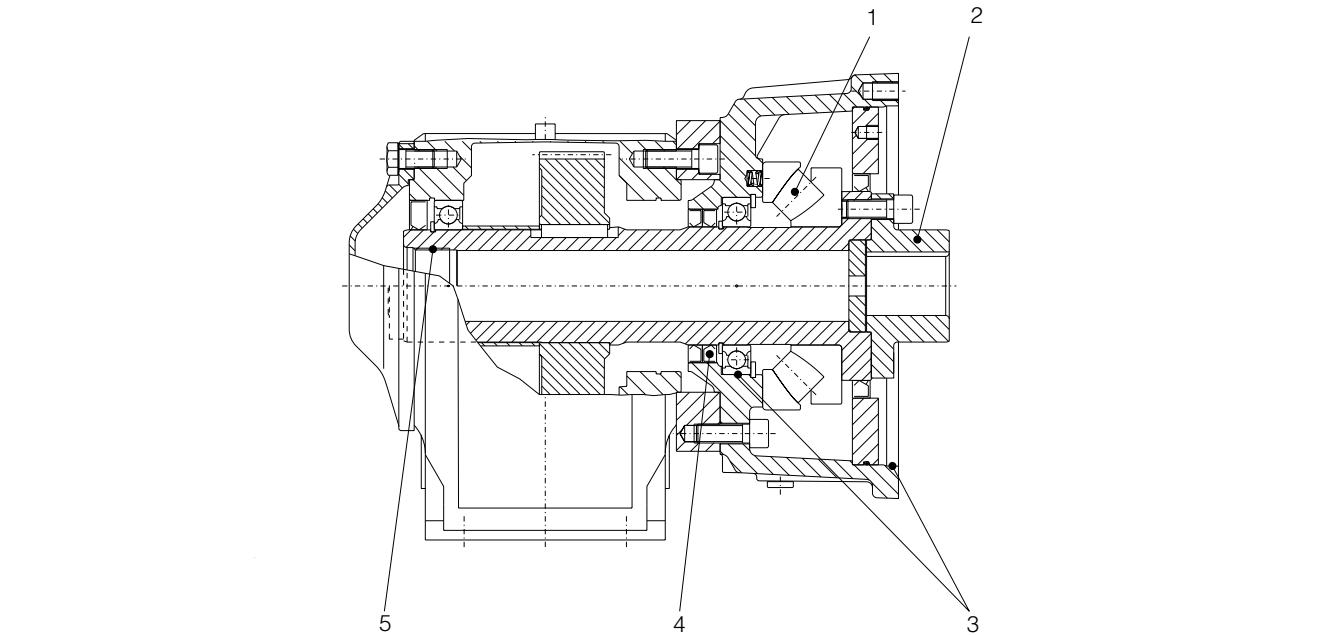
## Bevel helical geared motors

### Mounting types

#### Selection and ordering data (continued)

##### **Bevel helical gear unit with extruder flange, sizes 68 to 168**

Gear units with an extruder flange are ideal for use in the extrusion industry, particularly in the low to medium performance range.



##### **1. Large axial spherical roller bearing**

294... series spherical roller bearing for heavy axial loads.

##### **2. Simple, low-cost design**

Flange hub supplied by customer, no grinding processes. Standard shaft-hub connection with parallel key in acc. with DIN 6885/1.

##### **3. Good radial eccentricity**

Radial bearing hole and center hole created in one clamping operation and direction.

##### **4. Optimum lubrication**

Extruder oil chamber separate from gear unit oil chamber.

##### **5. Standard connection**

Metric thread for supporting the extruder worm (worm pulled out from rear).

#### Area of application

Parallel shaft gear unit	KAE 68	KAE 88	KAE 108	KAE 128	KAE 148	KAE 168
Max. power [kW]	9.2	15	30	45	55	90
Transmission ratio min./max. [3-stage]	5.36/243.72	5.54/302.68	7.68/307.24	7.1/295.38	4.83/3068	6.61/287.95
Max. torque [Nm]	820	1650	3000	4700	8000	13500
Max. axial forces [kN]	65	105	180	260	400	580
Spherical roller bearing [.]	29414E	29417E	29420E	29424E	29426E	29432E

**Selection and ordering data**

Shaft design	Order No. 8th position	Order No. suffix	Shaft dimensions				
<b>Bevel helical gear units B and K, foot-mounted design</b>							
Size			<b>B.28</b>	<b>B.38</b>	<b>K.38</b>	<b>K.48</b>	<b>K.68</b>
Solid shaft with parallel key	<b>1</b>		V20 x 40	V30 x 60	V25 x 50	V30 x 60	V40 x 80
	<b>2</b>				V35 x 70*	V35 x 70*	V50 x 100*
Hollow shaft	<b>5</b>		H20 x 120	H30 x 140	H30 x 120	H35 x 150	H40 x 180
	<b>6</b>		H25 x 120*	H35 x 140*		H40 x 150*	H45 x 180*
Hollow shaft with shrink disk	<b>9</b>	<b>H3A</b>	H20 x 142	H30 x 166	H30 x 146*	H40 x 177*	H50 x 209*
	<b>9</b>	<b>H3B</b>		H35 x 166*	H30/31 x 146	H40/41 x 177	H50/51 x 209
Hollow shaft with splined shaft	<b>9</b>	<b>H4A</b>		N30 x 1.25 x 30 x 22 x 140	N35 x 1.25 x 30 x 26 x 9H x 120	N40 x 2 x 30 x 18 x 9H x 150	N50 x 2 x 30 x 24 x 9H x 180
Size			<b>K.108</b>	<b>K.128</b>	<b>K.148</b>	<b>K.168</b>	<b>K.188</b>
Solid shaft with parallel key	<b>1</b>		V60 x 120	V70 x 140	V90 x 170	V110 x 210	V120 x 210
	<b>2</b>		V80 x 170*	V90 x 170*	V100 x 210*	V120 x 210*	V140 x 250*
Hollow shaft	<b>5</b>		H60 x 240	H70 x 300	H80 x 350	H100 x 410	H120 x 500
	<b>6</b>		H70 x 240*	H80 x 300*	H90 x 350*	H110 x 410*	
Hollow shaft with shrink disk	<b>9</b>	<b>H3A</b>	H70 x 280*	H80 x 345*	H95 x 404*	H105 x 483*	H125 x 580*
	<b>9</b>	<b>H3B</b>	H70/71 x 280	H80/81 x 345	H95/96 x 404	H105/106 x 483	H125/126 x 580
Hollow shaft with splined shaft	<b>9</b>	<b>H4A</b>	N70 x 2 x 30 x 34 x 9H x 240	N80 x 3 x 30 x 25 x 9H x 300	N90 x 3 x 30 x 28 x 9H x 350	N110 x 3 x 30 x 35 x 9H x 410	N130 x 5 x 30 x 24 x 9H x 500
<b>Bevel helical gear units B and K with housing flange/torque arm</b>							
Size			<b>B.Z28 B.D28</b>	<b>B.Z38 B.D38</b>	<b>K.Z38 K.D38</b>	<b>K.Z48 K.D48</b>	<b>K.Z68 K.D68</b>
Solid shaft with parallel key	<b>1</b>		V20 x 40	V30 x 60	V25 x 50	V30 x 60	V40 x 80
	<b>3</b>				V35 x 70*	V35 x 70*	V50 x 100*
Hollow shaft	<b>5</b>		H20 x 120	H30 x 140	H30 x 120	H35 x 150	H40 x 180
	<b>6</b>		H25 x 120*	H35 x 140*		H40 x 150*	H45 x 180*
Hollow shaft with shrink disk	<b>9</b>	<b>H3A</b>	H20 x 142	H30 x 166	H30 x 146*	H40 x 177*	H50 x 209*
	<b>9</b>	<b>H3B</b>		H35 x 166*	H30/31 x 146	H40/41 x 177	H50/51 x 209
Hollow shaft with splined shaft	<b>9</b>	<b>H4A</b>		N30 x 1.25 x 30 x 22 x 140	N35 x 1.25 x 30 x 26 x 9H x 120	N40 x 2 x 30 x 18 x 9H x 150	N50 x 2 x 30 x 24 x 9H x 180
Size			<b>K.Z108 K.D108</b>	<b>K.Z128 K.D128</b>	<b>K.Z148 K.D148</b>	<b>K.Z168 K.D168</b>	<b>K.Z188 K.D188</b>
Solid shaft with parallel key	<b>1</b>		V60 x 120	V70 x 140	V90 x 170	V110 x 210	V120 x 210
	<b>3</b>		V80 x 170*	V90 x 170*	V100 x 210*	V120 x 210*	V140 x 250*
Hollow shaft	<b>5</b>		H60 x 240	H70 x 300	H80 x 350	H100 x 410	H120 x 500
	<b>6</b>		H70 x 240*	H80 x 300*	H90 x 350*	H110 x 410*	
Hollow shaft with shrink disk	<b>9</b>	<b>H3A</b>	H70 x 280*	H80 x 345*	H95 x 404*	H105 x 483*	H125 x 580*
	<b>9</b>	<b>H3B</b>	H70/71 x 280	H80/81 x 345	H95/96 x 404	H105/106 x 483	H125/126 x 580
Hollow shaft with splined shaft	<b>9</b>	<b>H4A</b>	N70 x 2 x 30 x 34 x 9H x 240	N80 x 3 x 30 x 25 x 9H x 300	N90 x 3 x 30 x 28 x 9H x 350	N110 x 3 x 30 x 35 x 9H x 410	N130 x 5 x 30 x 24 x 9H x 500

\*) Preferred series

# Geared motors

## Bevel helical geared motors

### Shaft designs

#### Selection and ordering data (continued)

Shaft design	Order No. 8th position	Order No. suffix	Shaft dimensions				
<b>Bevel helical gear units B and K, flange-mounted design (A-type)</b>							
Size			<b>B.F28</b>	<b>B.F38</b>	<b>K.F38</b>	<b>K.F48</b>	<b>K.F68</b>
Solid shaft with parallel key	<b>2</b>		V20 x 40 (i2=l)	V30 x 60 (i2=l)	V25 x 50 (i2=l)	V30 x 60 (i2=l)	V40 x 80 (i2=l)
Hollow shaft	<b>5</b>		H20 x 120	H30 x 140	H30 x 120	H35 x 150	H40 x 180
	<b>6</b>		H25 x 120*	H35 x 140*		H40 x 150*	H45 x 180*
Hollow shaft with shrink disk	<b>9</b>	<b>H3A</b>	H20 x 142	H30 x 166	H30 x 146*	H40 x 177*	H50 x 209*
	<b>9</b>	<b>H3B</b>		H35 x 166*	H30/31 x 146	H40/41 x 177	H50/51 x 209
Hollow shaft with splined shaft	<b>9</b>	<b>H4A</b>		N30 x 1.25 x 30 x 22 x 140	N35 x 1.25 x 30 x 26 x 9H x 120	N40 x 2 x 30 x 18 x 9H x 150	N50 x 2 x 30 x 24 x 9H x 180
Size			<b>K.F108</b>	<b>K.F128</b>	<b>K.F148</b>	<b>K.F168</b>	<b>K.F188</b>
Solid shaft with parallel key	<b>2</b>		V60 x 120 (i2=l)	V70 x 140 (i2=l)	V90 x 170 (i2=l)	V110 x 210 (i2=l)	V120 x 210 (i2=l)
Hollow shaft	<b>5</b>		H60 x 240	H70 x 300	H80 x 350	H100 x 410	H120 x 500
	<b>6</b>		H70 x 240*	H80 x 300*	H90 x 350*	H110 x 410*	
Hollow shaft with shrink disk	<b>9</b>	<b>H3A</b>	H70 x 280*	H80 x 345*	H95 x 404*	H105 x 483*	H125 x 580*
	<b>9</b>	<b>H3B</b>	H70/71 x 280	H80/81 x 345	H95/96 x 404	H105/106 x 483	H125/126 x 580
Hollow shaft with splined shaft	<b>9</b>	<b>H4A</b>	N70 x 2 x 30 x 34 x 9H x 240	N80 x 3 x 30 x 25 x 9H x 300	N90 x 3 x 30 x 28 x 9H x 350	N110 x 3 x 30 x 35 x 9H x 410	N130 x 5 x 30 x 24 x 9H x 500

\*) Preferred series

#### Shaft designs for bevel helical gear unit with mixer flange

Shaft design	Order No. 8th position	Order No. suffix	Shaft dimensions				
<b>Bevel helical gear unit K.M</b>							
Size			<b>K.M88</b>	<b>K.M108</b>	<b>K.M128</b>	<b>K.M148</b>	<b>K.M168</b>
Solid shaft with parallel key	<b>3</b>		V70 x 140	V80 x 170	V90 x 170	V100 x 210	V120 x 210
Hollow shaft	<b>9</b>	<b>H2F</b>	H60 x 321	H70 x 366	H80 x 456	H90 x 524	H110 x 609

#### Shaft designs for bevel helical gear unit with extruder flange

Shaft design	Order No. 8th position	Order No. suffix	Shaft dimensions				
<b>Bevel helical gear unit KAE</b>							
Size			<b>KAE68</b>	<b>KAE88</b>	<b>KAE108</b>	<b>KAE128</b>	<b>KAE148</b>
Hollow shaft	<b>9</b>	<b>H2A</b>	H20 x 48	H30 x 58	H40 x 71	H45 x 87	H60 x 95
	<b>9</b>	<b>H2B</b>	H25 x 48	H35 x 58	H45 x 71	H50 x 87	H70 x 95
	<b>9</b>	<b>H2C</b>	H30 x 48*	H40 x 58*	H50 x 71*	H60 x 87*	H75 x 95*

\*) Preferred series

Selection and ordering data

Order code	Flange diameter										
Bevel helical gear units B and K											
Size	B.F28	B.F38	K.F38	K.F48	K.F68	K.F88	K.F108	K.F128	K.F148	K.F168	K.F188
H02	120		160			300	350		450		660
H03	160			200	250			450		550	
H04		160									
H05		200									

# Geared motors

## Bevel helical geared motors

### Mounting types and mounting positions

#### Selection and ordering data

The mounting type / mounting position must be specified when you place your order to ensure that the gear unit is supplied with the correct quantity of oil.

Please contact customer service to discuss the oil quantity if you wish to use a mounting position which is not shown here.

#### Position of the terminal box

The terminal box of the motor can be mounted in four different positions. See Chapter 8 for an accurate representation of the terminal box position and the corresponding order codes.

#### Bevel helical gear unit B, foot-mounted design, flange-mounted design, and with housing flange

##### Oil control valves:

- Size 28: These types are lubricated for life. No breather, oil level, or drain plugs are present.

- Size 38:  Oil inlet  Oil drain A, B position of the customer's solid/plug-in shaft

**[1] ... [4]** Position of the terminal box, see Chapter 8

B: B3-00 (IM B3-00)

Order code: Output side A **D06**, output side B **D08**

BF, BZ: B5-01 (IM B5-01)

Order code: Output side A **D22**, output side B **D24**

BA, BAF, BAZ: H-01

Order code: Output side A **D76**, output side B **D77**

B: B8-00 (IM B8-00)

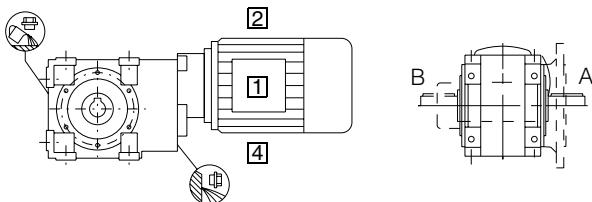
Order code: Output side A **D68**, output side B **D70**

BF, BZ: B5-03 (IM B5-03)

Order code: Output side A **D32**, output side B **D34**

BA, BAF, BAZ: H-02

Order code: Output side A **D78**, output side B **D79**



B: B6-00 (IM B6-00)

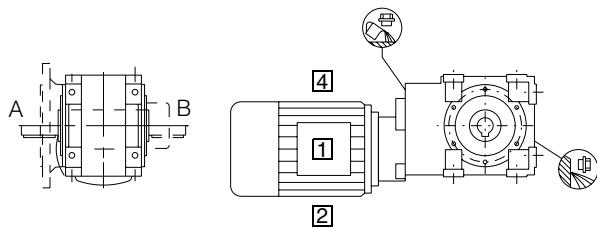
Order code: Output side A **D38**, output side B **D40**

BF, BZ: B5-00 (IM B5-00)

Order code: Output side A **D18**, output side B **D20**

BA, BAF, BAZ: H-04

Order code: Output side A **D82**, output side B **D83**



B: B7-00 (IM B7-00)

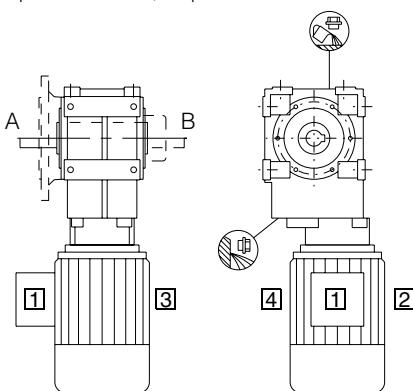
Order code: Output side A **D59**, output side B **D61**

BF, BZ: B5-02 (IM B5-02)

Order code: Output side A **D27**, output side B **D29**

BA, BAF, BAZ: H-03

Order code: Output side A **D80**, output side B **D81**



B: V5-00 (IM V5-00)

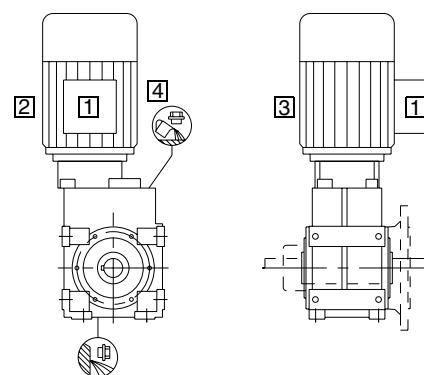
Order code: Output side A **E03**, output side B **E05**

BF, BZ: V1-00 (IM V1-00)

Order code: Output side A **D90**, output side B **D92**

BA, BAF, BAZ: H-05

Order code: Output side A **D84**, output side B **D85**



B: V6-00 (IM V6-00)

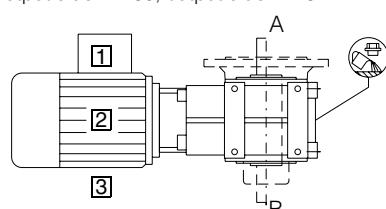
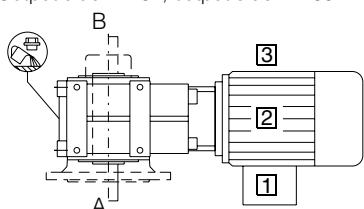
Order code: Output side A **E15**, output side B **E17**

BF, BZ: V3-00 (IM V3-00)

Order code: Output side A **D98**, output side B **E00**

BA, BAF, BAZ: H-06

Order code: Output side A **D86**, output side B **D87**



Mounting types and mounting positions

**Selection and ordering data (continued)**

**Bevel helical gear unit K, foot-mounted design**

**Oil control valves:**

- Size 38: V Oil inlet/oil drain
- From size 48 up:  Oil level  Breather  Oil drain \* On opposite side

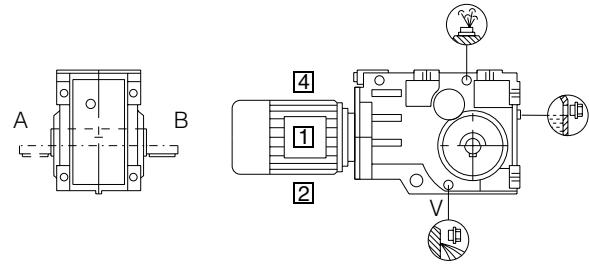
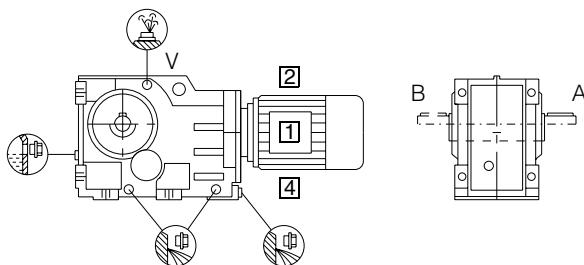
A,B position of the customer's solid/plug-in shaft

**[1] ... [4]** Position of the terminal box, see Chapter 8

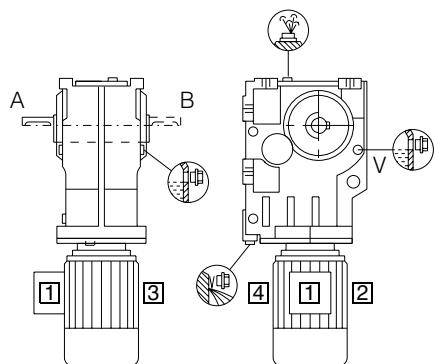
K: B3-00 (IM B3-00)  
Order code: Output side A **D06**, output side B **D08**

KA: H-01  
Order code: Output side A **D76**, output side B **D77**

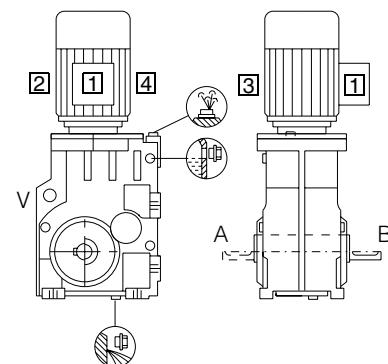
K: B8-00 (IM B8-00)  
Order code: Output side A **D68**, output side B **D70**  
KA: H-02  
Order code: Output side A **D78**, output side B **D79**



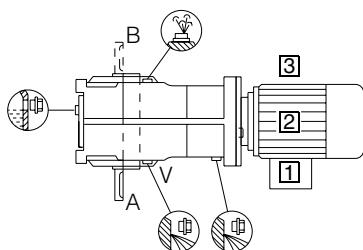
K: B6-00 (IM B6-00)  
Order code: Output side A **D38**, output side B **D40**  
KA: H-04  
Order code: Output side A **D82**, output side B **D83**



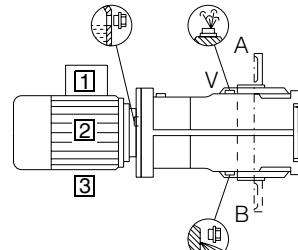
K: B7-00 (IM B7-00)  
Order code: Output side A **D59**, output side B **D61**  
KA: H-03  
Order code: Output side A **D80**, output side B **D81**



K: V5-00 (IM V5-00)  
Order code: Output side A **E03**, output side B **E05**  
KA: H-05  
Order code: Output side A **D84**, output side B **D85**



K: V6-00 (IM V6-00)  
Order code: Output side A **E15**, output side B **E17**  
KA: H-06  
Order code: Output side A **D86**, output side B **D87**



# Geared motors

## Bevel helical geared motors

### Mounting types and mounting positions

#### Selection and ordering data (continued)

##### **Bevel helical gear unit K, flange-mounted design (K.F), with housing flange (K.Z) or torque arm (K.D)**

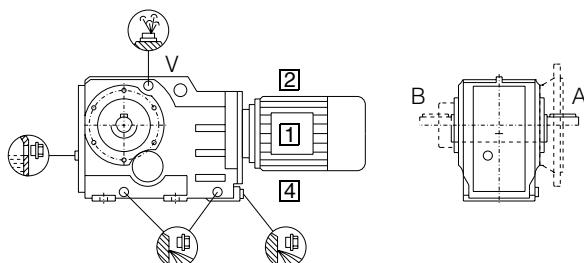
###### Oil control valves:

- Size 38: V Oil inlet/oil drain
- From size 48 up:  Oil level  Breather  Oil drain \* On opposite side

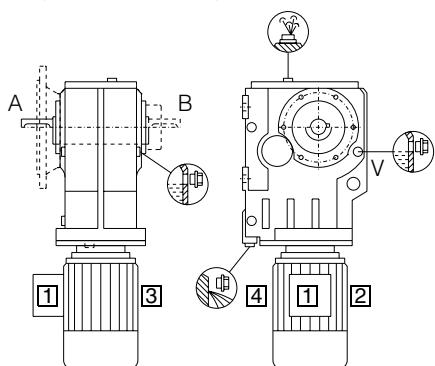
A,B position of the customer's solid/plug-in shaft

**① ... ④** Position of the terminal box, see Chapter 8

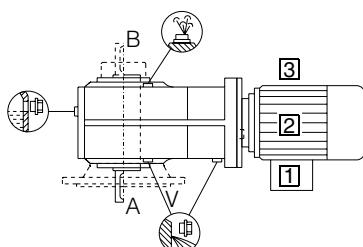
KF: B5-01 (IM B5-01)  
Order code: Output side A **D22**, output side B **D24**  
KAD, KAF, KAZ: H-01  
Order code: Output side A **D76**, output side B **D77**



KF: B5-00 (IM B5-00)  
Order code: Output side A **D18**, output side B **D20**  
KAD, KAF, KAZ: H-04  
Order code: Output side A **D82**, output side B **D83**



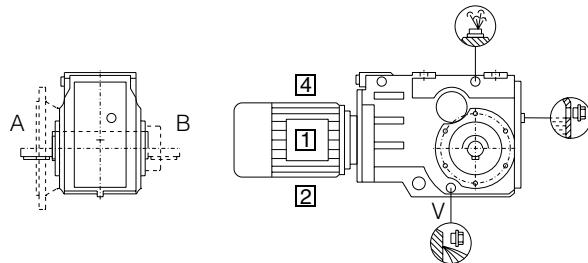
KF: V1-00 (IM V1-00)  
Order code: Output side A **D90**, output side B **D92**  
KAD, KAF, KAZ: H-05  
Order code: Output side A **D84**, output side B **D85**



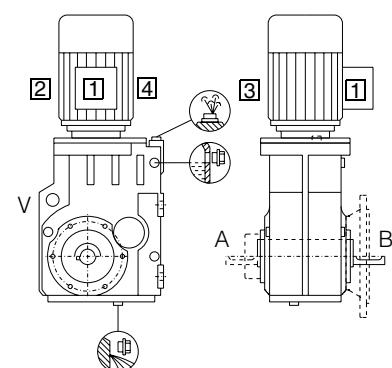
##### **Bevel helical gear unit with mixer flange (K.M)**

Mounting positions correspond to those of standard gear units.

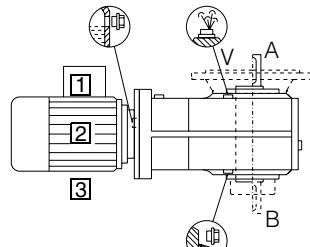
KF: B5-03 (IM B5-03)  
Order code: Output side A **D32**, output side B **D34**  
KAD, KAF, KAZ: H-02  
Order code: Output side A **D78**, output side B **D79**



KF: B5-02 (IM B5-02)  
Order code: Output side A **D68**, output side B **D70**  
KAD, KAF, KAZ: H-03  
Order code: Output side A **D80**, output side B **D81**



KF: V3-00 (IM V3-00)  
Order code: Output side A **D98**, output side B **E00**  
KAD, KAF, KAZ: H-06  
Order code: Output side A **D86**, output side B **D87**



##### **Bevel helical gear unit with extruder flange (KAE)**

Mounting positions correspond to those of standard gear units with hollow shaft.

Mounting types and mounting positions

**Selection and ordering data (continued)**

**Bevel helical dual gear unit**

The mounting type / mounting position of the dual gear unit corresponds to that of the main gear unit. The figures below are only designed to show the position of the oil control valves of the 2nd gear unit.

Note:

In a horizontal operating position the bulging part of the housing of the 2nd gear unit generally faces vertically downwards.

**Oil control valves:**

- Size 28/38 (2nd gear unit): These types are lubricated for life. No breather, oil level, or drain plugs are present.

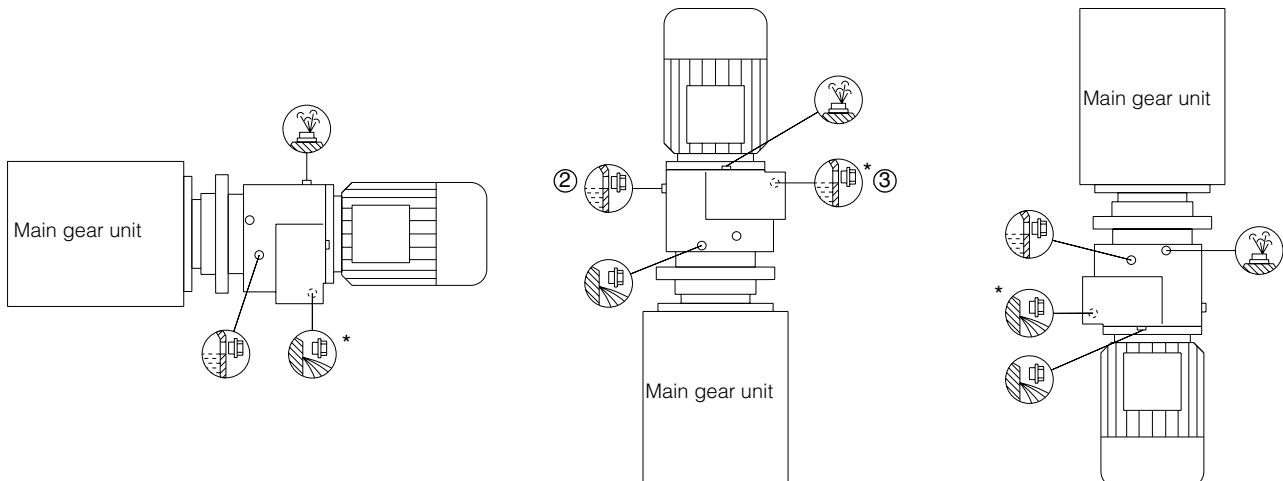
- From size 48 up:      Oil level      Breather      Oil drain      \* On opposite side

② 2-stage gear unit

③ 3-stage gear unit

① ... ④ Position of the terminal box, see Chapter 8

4



# Geared motors

## Bevel helical geared motors

### Special versions

#### Lubricants

##### Three-stage bevel helical gear unit K

Bevel helical gear units K are filled with mineral oil as standard.

If the gear unit is to be used in an application with special requirements, the lubricants listed in the table below can be used.

Area of application	Ambient temperature <sup>1)</sup>	DIN ISO designation	Order code
<b>Standard oils</b>			
Standard temperature	-10 ... +40°C	CLP ISO VG 220	K06
Improved oil service life	-20 ... +50°C	CLP ISO PG VG 220	K07
High temperature usage	0 ... +60°C	CLP ISO PG VG 460	K08
Low temperature usage	-30 ... +50°C	CLP ISO PAO VG 220	K12 <sup>2)</sup>
Lowest temperature usage	-40 ... +40°C	CLP ISO PAO VG 68	K13 <sup>2)</sup>
<b>Physiologically safe oils (for use in the food industry) in acc. with USDA-H1</b>			
Standard temperature	-30 ... +40°C	CLP ISO PAO VG 460	K10 <sup>2)</sup>
<b>Biologically degradable oils</b>			
Standard temperature	-20 ... +40°C	CLP ISO E VG 220	K11 <sup>2)</sup>

<sup>1)</sup> Recommendation

<sup>2)</sup> On request

##### Two-stage bevel helical gear unit B

Bevel helical gear units B28 and B38 are always filled with synthetic lubricant prior to dispatch. The rating plate contains information about the appropriate type of oil (PGLP) and ISO viscosity class.

If the gear unit is to be used in an application with special requirements, the lubricants listed in the table below can be used.

Area of application	Ambient temperature <sup>1)</sup>	DIN ISO designation	Order code
<b>Standard oils</b>			
Standard temperature	0 ... +60°C	CLP ISO VG 460	K08
Low temperature usage	-20 ... +50°C	CLP ISO PAO VG 220	K12 <sup>2)</sup>
<b>Physiologically safe oils (for use in the food industry) in acc. with USDA-H1</b>			
Standard temperature	-30 ... +50°C	CLP ISO PAO VG 460	K10 <sup>2)</sup>

<sup>1)</sup> Recommendation

<sup>2)</sup> On request

Gear units of sizes 48 to 188 are fitted with filler, oil level, and drain plugs as standard. The ventilation and breather filter, which is delivered loose, must be attached in place of the filler plug prior to startup.

Size 28 does not feature any breather, oil level, or drain plugs. The lubricant does not need to be changed, due to the low thermal load the gear unit is subjected to. Bevel helical gear units of size 38 have an oil screw; these gear units do not require ventilation or breather elements.

#### Oil level control

##### Oil sight glass

For size 48 and above, bevel helical gear unit K can be equipped with a visual oil level indicator (oil sight glass) for most mounting types and mounting positions.

Order code: **G34**

##### Electrical oil level monitoring system

If required, the gear unit can be supplied with an electrical oil level monitoring system, which enables the oil level of the gear unit to be monitored remotely. The oil level is monitored by a capacitive sensor only when the gear unit starts up; it is not measured continuously.

Order codes:

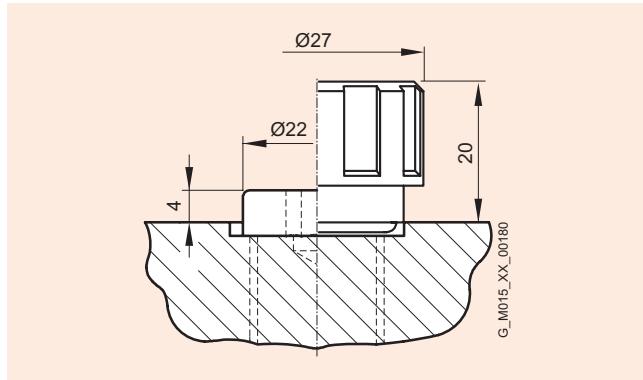
Capacitive sensor **G37**

Isolation amplifier 24 V **G39**

### Gear unit ventilation

The positions of the ventilation and breather elements can be seen on the mounting position diagrams.

If required, a pressure breather valve can be used for bevel helical gear unit K, size 48 and above.

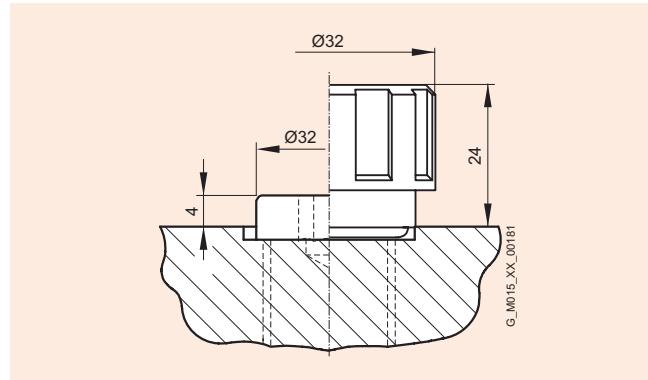


Gear unit	Size
Bevel helical gear unit	K.48 ... K.128

Order codes:

Breather filter **G44**

Pressure breather valve **G45**



Gear unit	Size
Bevel helical gear unit	K.148 ... K.188

# Geared motors

## Bevel helical geared motors

### Special versions

#### Oil drain

##### Magnetic screw plug

A magnetic screw plug for inserting in the oil drainage hole is available on request for bevel helical gear units of size 48 and above. This serves to collect any grit contained in the gear lubricant.

Order code: **G53**

##### Oil drain valve

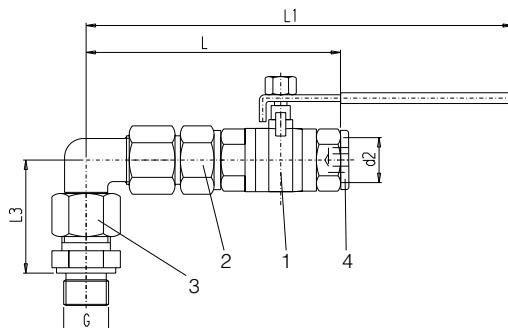
An oil drain valve is available on request for bevel helical gear units of size 48 and above.

The plug valve may be designed as a complete unit featuring a screw plug, depending on the corresponding mounting position.

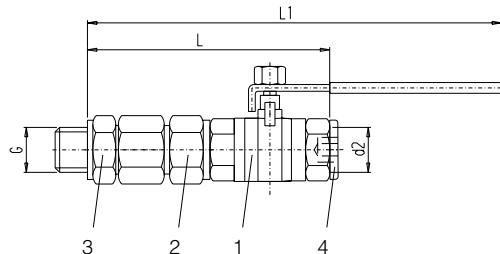
Order code:

Oil drain valve, straight **G54**

An angled oil drain valve is also available on request.



Item 1 Oil drain valve  
Item 2 Screwed joint EGE  
Item 3 Screwed joint GE  
Item 4 Screw plug



Item 1 Oil drain valve  
Item 3 Screwed joint GE

Item 2 Screwed joint EGE  
Item 4 Screw plug

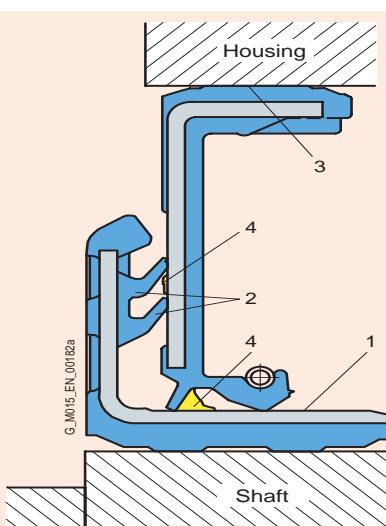
#### Sealing

##### Combination of seals

A combination of seals, which helps to prevent oil from leaking, is available for bevel helical gear unit K of sizes 38 to 168. A combination of seals is particularly well suited to external use.

Order code: **G24**

- 1 • protected running surface for radial shaft sealing ring
  - no damage when mounting
- 2 • additional sealing lips to protect against dirt
  - decoupled sealing system prevents scoring of the shaft as a result of corrosion or dirt
- 3 • rubberized inner and outer diameter
- 4 • grease filling prevents dry running of the sealing lips



##### Dual sealing

Dual sealing is possible for bevel helical gear units of sizes 28 and 188. Dual sealing is particularly well suited to external use.

Order code: **G23**

##### Viton sealing

Viton seals (fluorinated rubber) for high operating and ambient temperatures of +60 °C and above are available for bevel helical gear units.

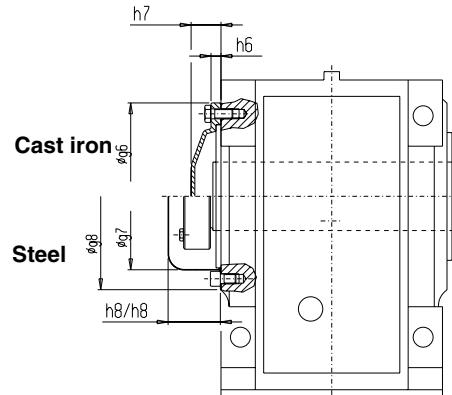
Order code: **G25**

### Non-drive-end cover (protection cover)

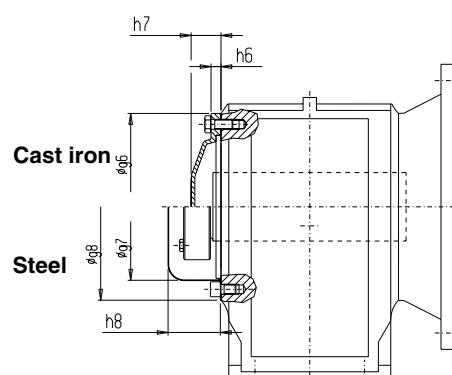
Gear units with hollow shaft are delivered with a plastic sealing cap as standard.

If required, they can be fitted with a fixed protection cover made of cast iron or steel. Gear units of size 28 are fitted with a steel protection cover as standard.

Cast iron protection covers cannot be used for hollow shafts with shrink disks.



KA, KAS<sup>1)</sup>, KAT



BAF, BAZ, BAFS, BAZS, BAFT, BAZT  
KAF, KAZ, KAFT, KAZS<sup>1)</sup>, KAZT

<sup>1)</sup> Only a steel protection cover is available for KAS, KADS, KAFS, and KAZS; standard protection cover for size 28

h7\*/h8\* = Touch protection

h7/h8 = Touch protection and dust proof

### Reinforced output bearings

The bearings of the MOTOX gear units are dimensioned such that they are strong enough to withstand most application cases.

However, the gear units can be fitted with a reinforced output shaft bearing arrangement for applications with particularly high radial and axial forces.

### Order codes:

Steel protection cover **G60**

Steel protection cover, sealed **G61**

Cast iron protection cover **G62**

Cast iron protection cover, sealed **G63**

Gear unit type	Protection cover steel				Closing cover cast iron		
	g7	g8	h8*	h8	g6	h6	h7*
K.38	—	—	—	—	—	—	—
K.48	99.0	130	44.0	44.0	132	10	33
K.68	115.0	150	62.5	69.0	150	10	37
K.88	137.0	190	70.0	70.0	190	13	50
K.108	187.0	240	80.0	92.0	245	13	55
K.128	233.0	292	85.0	97.0	295	16	48
K.148	257.5	334	100.0	113.0	335	13	50
K.168	309.5	390	129.5	154.5	400	13	50
K.188	309.5	390	129.5	129.5	400	13	50

Gear unit type	Protection cover steel			Closing cover cast iron		
	g7	g8	h8	g6	h6	h7
B.28	58.0	102	33.5	—	—	—
B.38	99.0	130	44.0	132	10	33
K.38	82.2	115	40.0	120	10	33
K.48	99.0	130	44.0	132	10	33
K.68	115.0	150	62.5	150	10	37
K.88	137.0	190	70.0	190	13	50
K.108	187.0	240	80.0	245	13	55
K.128	233.0	292	85.0	295	16	48
K.148	257.5	334	100.0	335	13	50
K.168	309.5	390	129.5	400	13	50
K.188	309.5	390	129.5	400	13	50

# Geared motors

## Bevel helical geared motors

### Special versions

#### Second output shaft extension

If required, bevel helical gear units in a foot-mounted design with solid shaft are available with a second shaft extension. See the dimension drawings for the corresponding design for the relevant dimensions.

Order code **G73**

#### Bevel helical gear unit with backstop in the intermediate stage (K.X)

Bevel helical gear units of types KF, KAD, KAF, KAZ, KADS, KAFS, and KAZS can be supplied with a backstop in the intermediate stage.

The backstop can only be attached opposite the output side A or B.

Backstop order code: **G72**

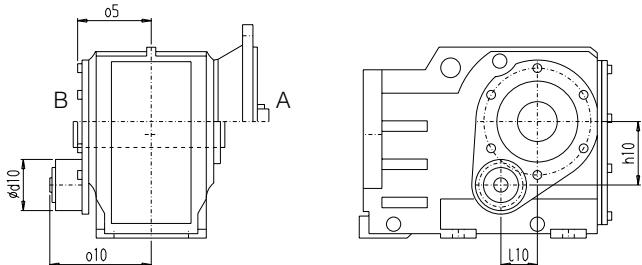
Note:

The direction of rotation of the output shaft must be specified for geared motors with a backstop. See also "Direction of rotation of geared motors", page 1/23.

Output shaft direction of rotation order codes:

Clockwise: **K18**

Counterclockwise: **K19**



Gear unit	d10	o10	l10	h10	o5
K.X88	79	166.0	56.3	98	116.5
K.X108	110	192.5	70.8	112	137.0
K.X128	132	238.5	80.8	141	169.0
K.X148	145	276.5	71.0	173	199.0
K.X168	190	320.5	89.9	203	229.0

#### Configuring guide

Gear unit	Main gear unit transmission ratio	Max. permissible output torque of backstop at $f_B = 1$ Nm	Oil quantity of backstop [l]
K.X88	5.54 ... 11.21	2036	0.04
	11.64 ... 302.68	4275 *)	
K.X108	7.68 ... 12.90	3828	0.06
	13.74 ... 307.24	6852 *)	
K.X128	7.10 ... 12.56	7595	0.09
	13.00 ... 295.38	13907 *)	
K.X148	4.83 ... 8.79	10450	0.11
	9.77 ... 306.08	21139 *)	
K.X168	6.61 ... 11.67	16386	0.44
	12.41 ... 287.95	30750 *)	

\* Data for dual gear unit

#### Mixer flange in dry-well design

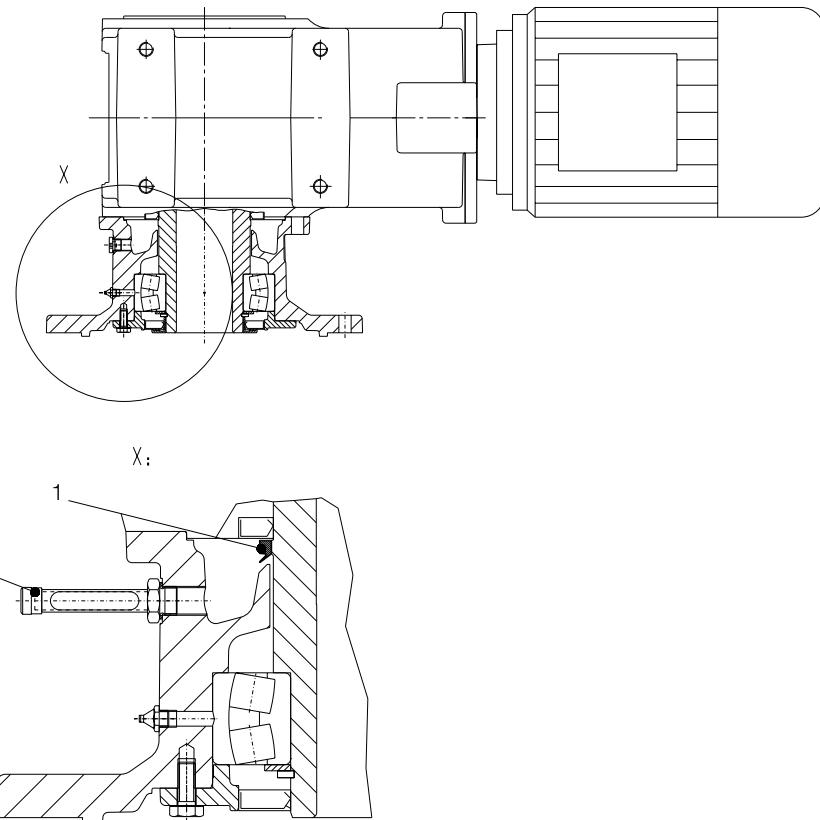
The flange for agitator can be fitted with an additional "V" ring (1) in mounting position V1-00 in order to drain off any leak oil to a safety chamber and protect the equipment against the effects of leakages.

The oil can either be viewed through a sight glass, or its presence indicated by an electrical sensor (2).

Order codes:

Dry-well design with sight glass **G89**

Dry-well design with sensor **G90**



#### Regreasing device for the mixer flange

The flange for agitator gear unit can be fitted with a regreasing device on request.

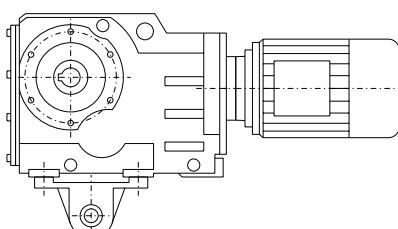
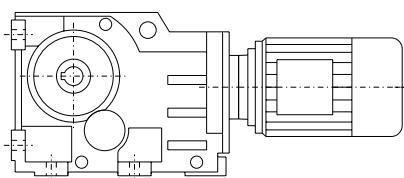
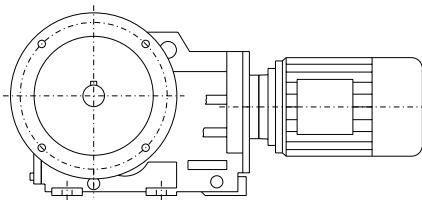
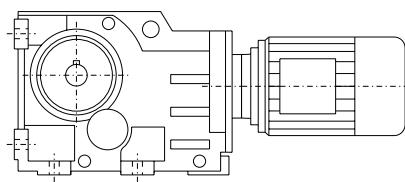
## **Geared motors**

### Bevel helical geared motors

**Special versions**

**4**

**Dimension drawing overview**



**Gear unit type**

**Dimension drawing on page**

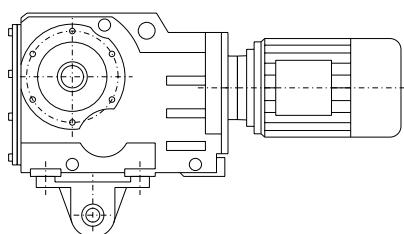
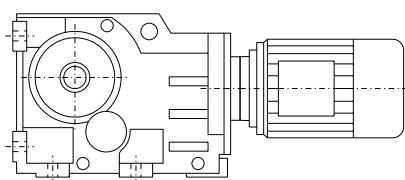
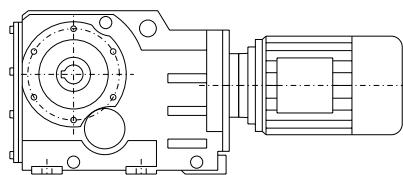
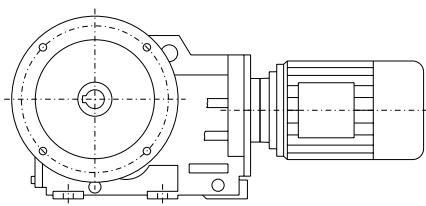
B28/BZ28	4/105
B38/BZ38	4/113
K38	4/121
K48	4/131
K68	4/141
K88	4/151
K108	4/161
K128	4/171
K148	4/181
K168	4/191
K188	4/201
BF28	4/106
BF38	4/114
KF38	4/122
KF48	4/132
KF68	4/142
KF88	4/152
KF108	4/162
KF128	4/172
KF148	4/182
KF168	4/192
KF188	4/202
BA28/BAZ28	4/107
BA38/BAZ38	4/115
KA38	4/123
KA48	4/133
KA68	4/143
KA88	4/153
KA108	4/163
KA128	4/173
KA148	4/183
KA168	4/193
KA188	4/203
BAD28	4/108
BAD38	4/116
KAD38	4/124
KAD48	4/134
KAD68	4/144
KAD88	4/154
KAD108	4/164
KAD128	4/174
KAD148	4/184
KAD168	4/194
KAD188	4/204

# Geared motors

## Bevel helical geared motors

### Dimensions

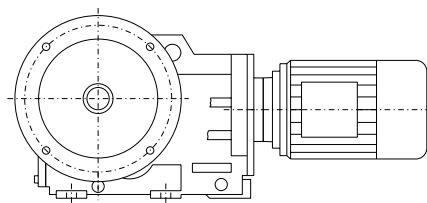
#### Dimension drawing overview (continued)



#### Gear unit type Dimension drawing on page

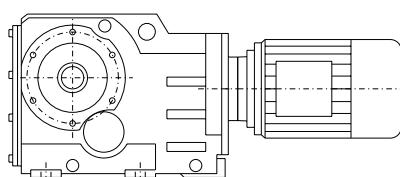
BAF28	4/109
BAF38	4/117
KAF38	4/125
KAF48	4/135
KAF68	4/145
KAF88	4/155
KAF108	4/165
KAF128	4/175
KAF148	4/185
KAF168	4/195
KAF188	4/206
KAZ38	4/126
KAZ48	4/136
KAZ68	4/146
KAZ88	4/156
KAZ108	4/166
KAZ128	4/176
KAZ148	4/186
KAZ168	4/196
KAZ188	4/208
BAS28/BAZS28	4/110
BAS38/BAZS38	4/118
KAS38	4/127
KAS48	4/137
KAS68	4/147
KAS88	4/157
KAS108	4/167
KAS128	4/177
KAS148	4/187
KAS168	4/197
KAS188	4/210
BADS28	4/111
BADS38	4/119
KADS38	4/128
KADS48	4/138
KADS68	4/148
KADS88	4/158
KADS108	4/168
KADS128	4/178
KADS148	4/188
KADS168	4/198
KADS188	4/211

**Dimension drawing overview (continued)**

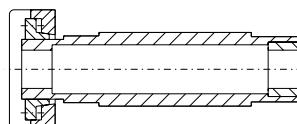


**Gear unit type**      **Dimension drawing on page**

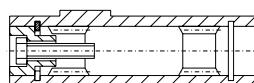
BAFS28	4/112
BAFS38	4/120
KAFS38	4/129
KAFS48	4/139
KAFS68	4/149
KAFS88	4/159
KAFS108	4/169
KAFS128	4/179
KAFS148	4/189
KAFS168	4/199
KAFS188	4/212



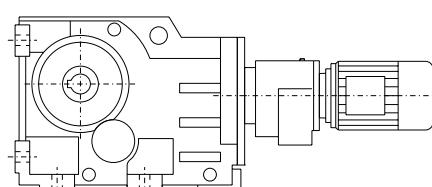
KAZS38	4/130
KAZS48	4/140
KAZS68	4/150
KAZS88	4/160
KAZS108	4/170
KAZS128	4/180
KAZS148	4/190
KAZS168	4/200
KAZS188	4/213



KA.S38 ... KA.S188      4/214



KA.T38 ... KA.T188      4/215



K.Z38-Z28 ... K.Z188-Z68      4/216

# Geared motors

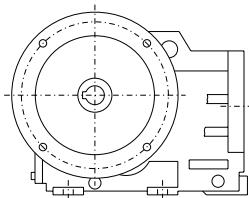
## Bevel helical geared motors

### Dimensions

#### Dimension drawing overview (continued)

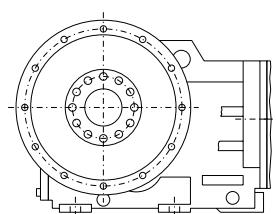
Gear unit type

Dimension drawing on page



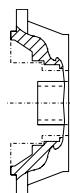
K.M88 ... K.M168

4/220



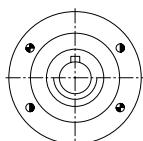
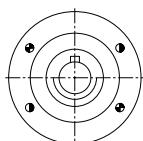
KAE88 ... KAE168

4/222



Additional flange-mounted design

4/224

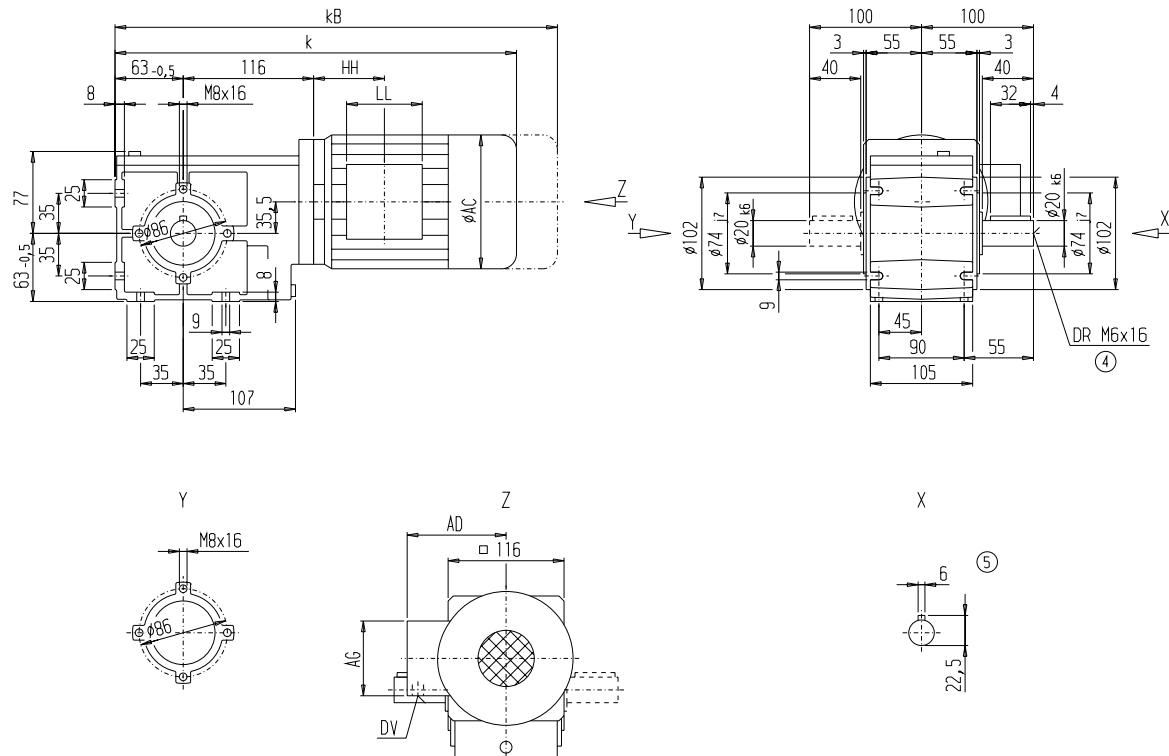


Pin holes

4/225

Gear unit B/BZ28 (two-stage), housing-flange-mounted design (C-type)

B012  
BZ012



Motor	B.28								Weight
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	381.5	436.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA71Z	400.5	455.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA90S	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	20
LA90L	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	20
LA90ZL	523.5	594.5	174	185	90	90	87.0	M20x1.5/M25x2.5	22
LA100L	560.5	641.5	195	168	120	120	163.5	2xM32x1.5	29

④ DIN 332

⑤ Parallel key / keyway DIN 6885

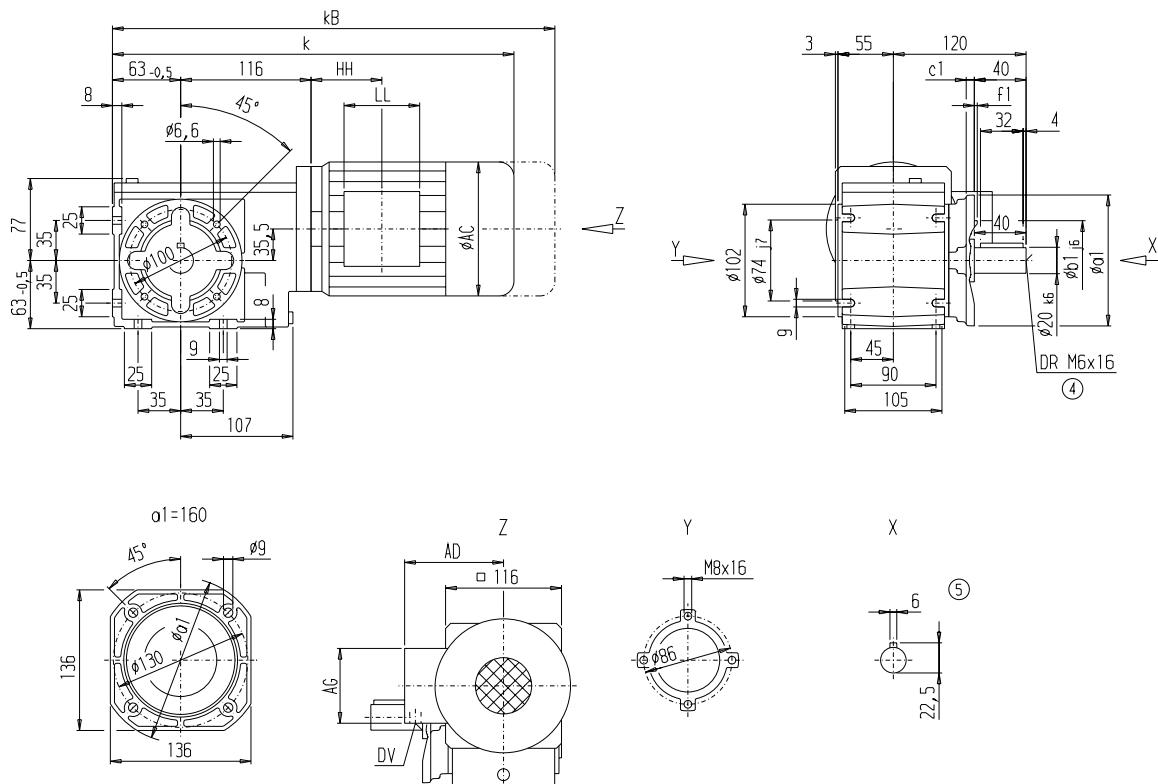
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit BF28 (two-stage), flange-mounted design (A-type)

**BF012**



Flange	a1	b1	to2	c1	f1
A120	120	80	j6	8	3.0
A160	160	110	j6	9	3.5

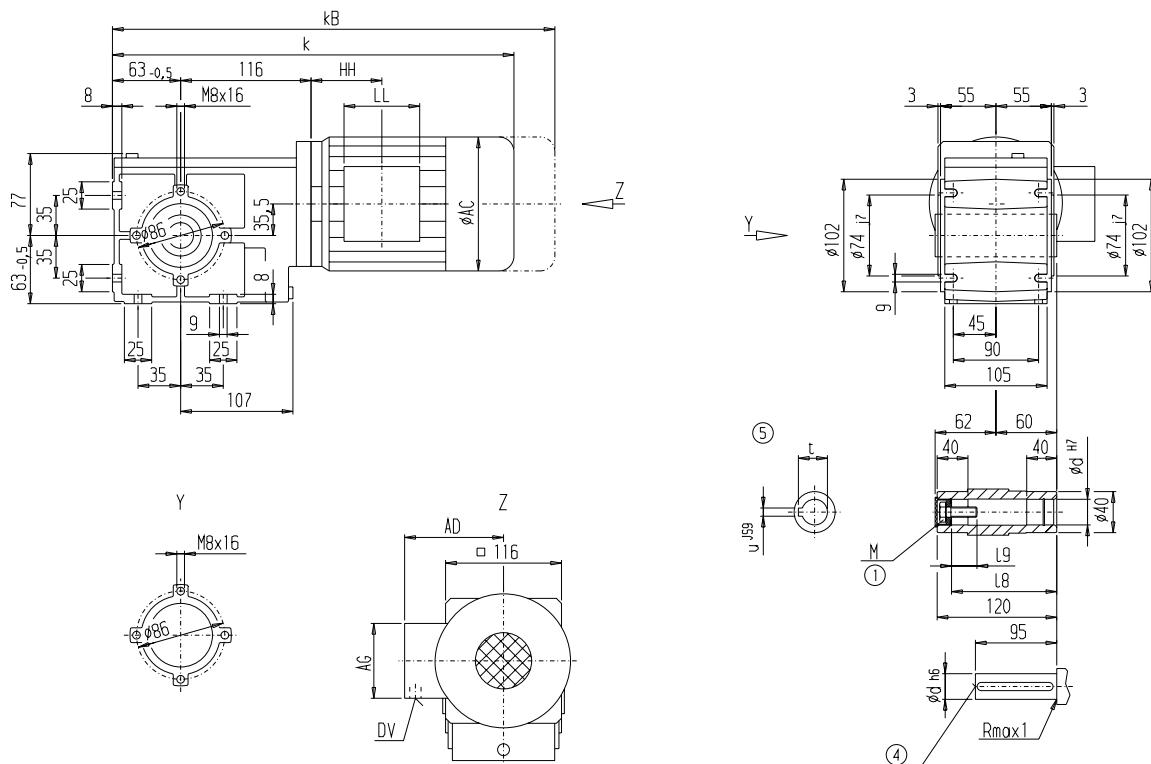
Motor	BF28								Weight
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	381.5	436.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA71Z	400.5	455.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA90S	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	20
LA90L	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	20
LA90ZL	523.5	594.5	174	185	90	90	87.0	M20x1.5/M25x2.5	23
LA100L	560.5	641.5	195	168	120	120	163.5	2xM32x1.5	29

④ DIN 332

⑤ Parallel key / keyway DIN 6885

Gear unit BA/BAZ28 (two-stage), housing-flange-mounted design (C-type)

BA012  
BAZ012



d	I9	I8	M	t	u
20	23.4	106	M6	22.8	6
25*	27.6	105	M10	28.3	8

\*) Preferred series

Motor	BA.28								Weight BA.28
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	381.5	436.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA71Z	400.5	455.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA90S	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	19
LA90L	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	19
LA90ZL	523.5	594.5	174	185	90	90	87.0	M20x1.5/M25x2.5	22
LA100L	560.5	641.5	195	168	120	120	163.5	2xM32x1.5	28

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① EN ISO 4014

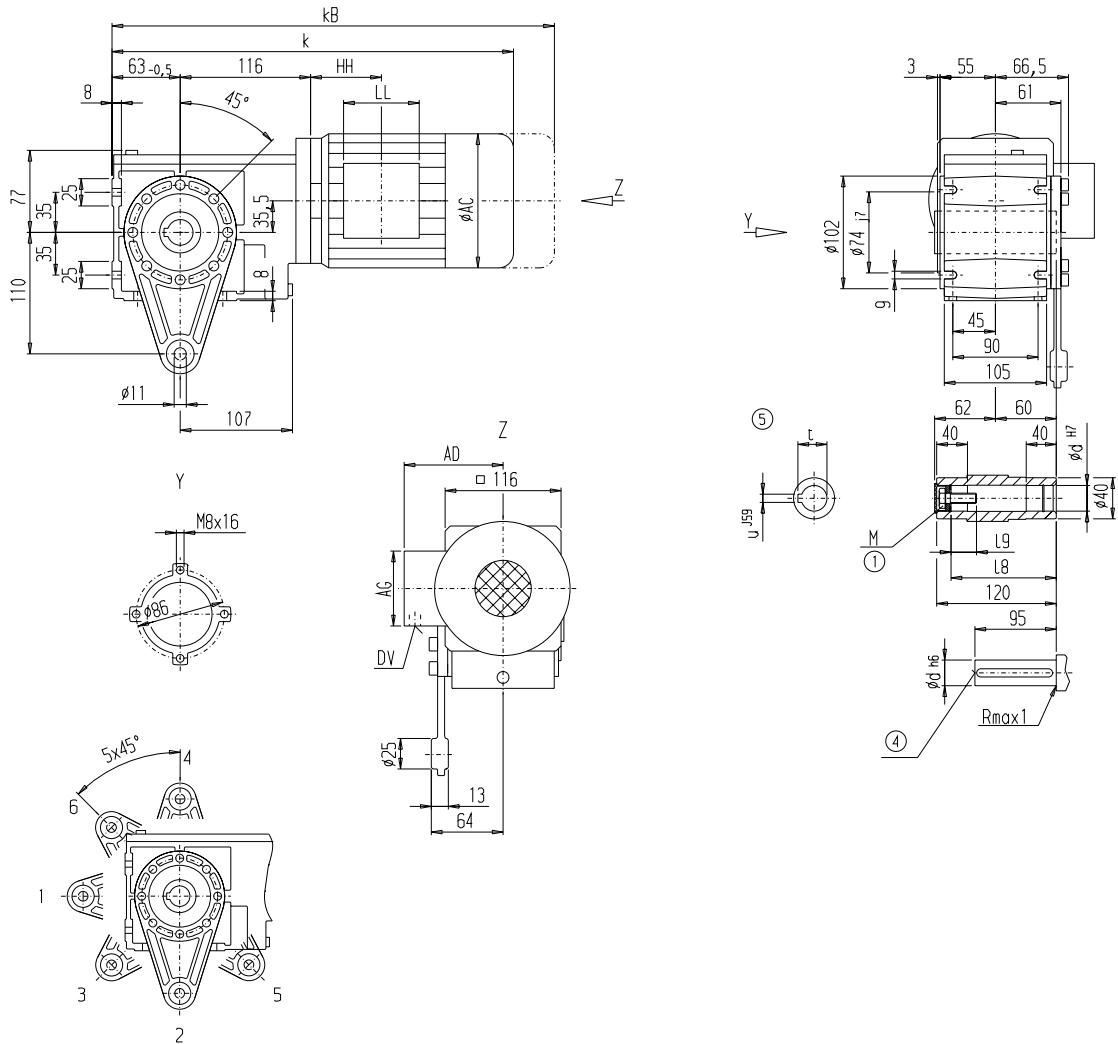
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit BAD28 (two-stage), shaft-mounted design with torque arm

**BAD012**



d	l9	l8	M	t	u
<b>20</b>	23.4	106	M6	22.8	6
<b>25*</b>	27.6	105	M10	28.3	8

\*) Preferred series

Motor	BAD28								Weight BAD28
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	381.5	436.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA71Z	400.5	455.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA90S	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	19
LA90L	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	19
LA90ZL	523.5	594.5	174	185	90	90	87.0	M20x1.5/M25x2.5	22
LA100L	560.5	641.5	195	168	120	120	163.5	2xM32x1.5	28

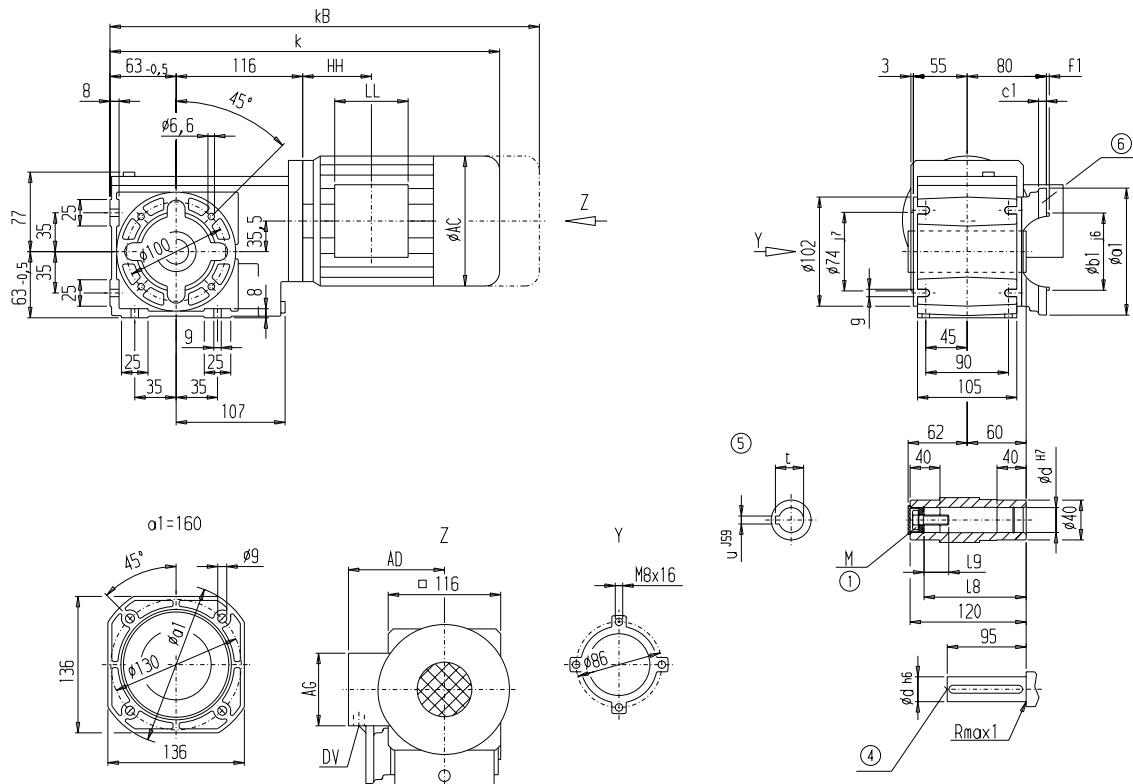
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① EN ISO 4014

Gear unit BAF28 (two-stage), shaft-mounted design with flange

BAF012



Flange	a1	b1	to2	c1	f1	d	M	l9	l8	t	u
120	120	80	j6	8	3.0	20	M6	23.4	106	22.8	6
						25*	M10	27.6	105	28.3	8
160	160	110	j6	9	3.5	20	M6	23.4	106	22.8	6
						25*	M10	27.6	105	28.3	8

\*) Preferred series

Motor	BAF28								Weight BAF28
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	381.5	436.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA71Z	400.5	455.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA90S	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	19
LA90L	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	19
LA90ZL	523.5	594.5	174	185	90	90	87.0	M20x1.5/M25x2.5	22
LA100L	560.5	641.5	195	168	120	120	163.5	2xM32x1.5	29

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① EN ISO 4014

⑥ For note, see page 4/224

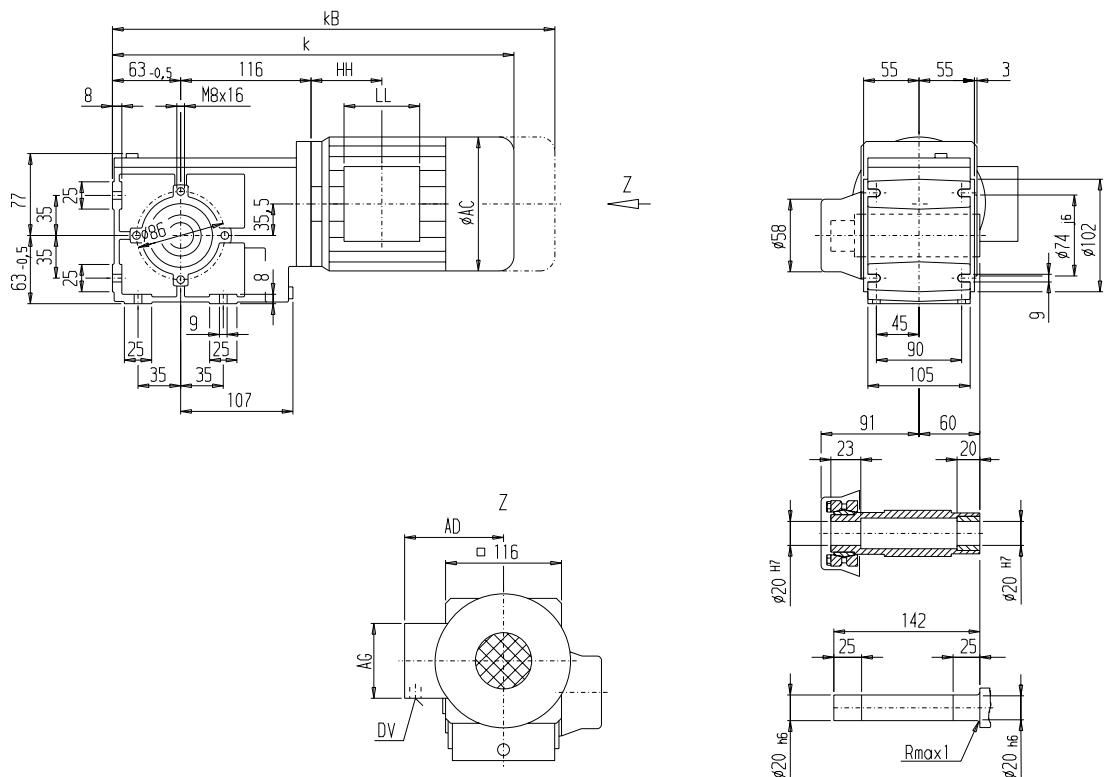
# Geared motors

## Bevel helical geared motors

## Dimensions

**Gear unit BAS/BAZS28 (two-stage), shaft-mounted design with housing flange (C-type) and shrink disk**

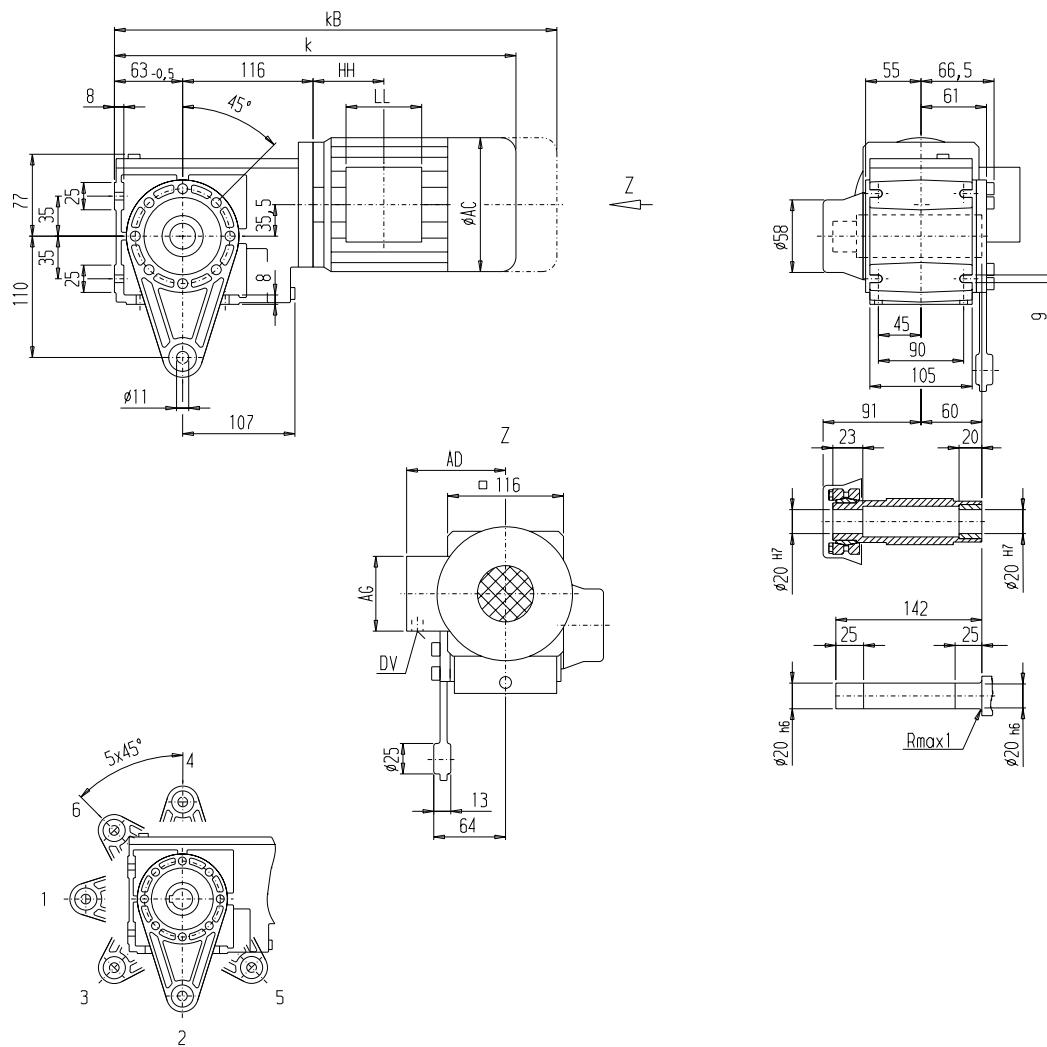
BAS012  
BAZS012



BA.S28									Weight
Motor	k	KB	AC	AD	AG	LL	HH	DV	BA.S28
LA71	381.5	436.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA71Z	400.5	455.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA90S	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	19
LA90L	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	19
LA90ZL	523.5	594.5	174	185	90	90	87.0	M20x1.5/M25x2.5	22
LA100L	560.5	641.5	195	168	120	120	163.5	2xM32x1.5	29

Gear unit BADS28 (two-stage), shaft-mounted design with torque arm and shrink disk

BADS012



BADS28									Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	BADS28
LA71	381.5	436.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA71Z	400.5	455.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA90S	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	20
LA90L	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	20
LA90ZL	523.5	594.5	174	185	90	90	87.0	M20x1.5/M25x2.5	23
LA100L	560.5	641.5	195	168	120	120	163.5	2xM32x1.5	29

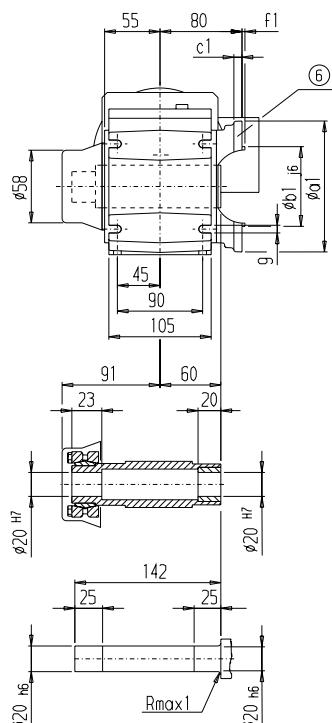
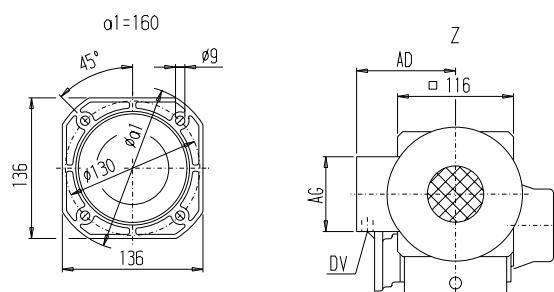
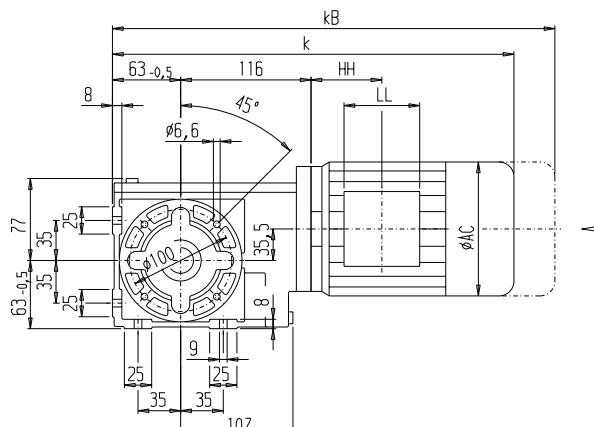
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit BAFS28 (two-stage), shaft-mounted design with flange and shrink disk

**BAFS012**



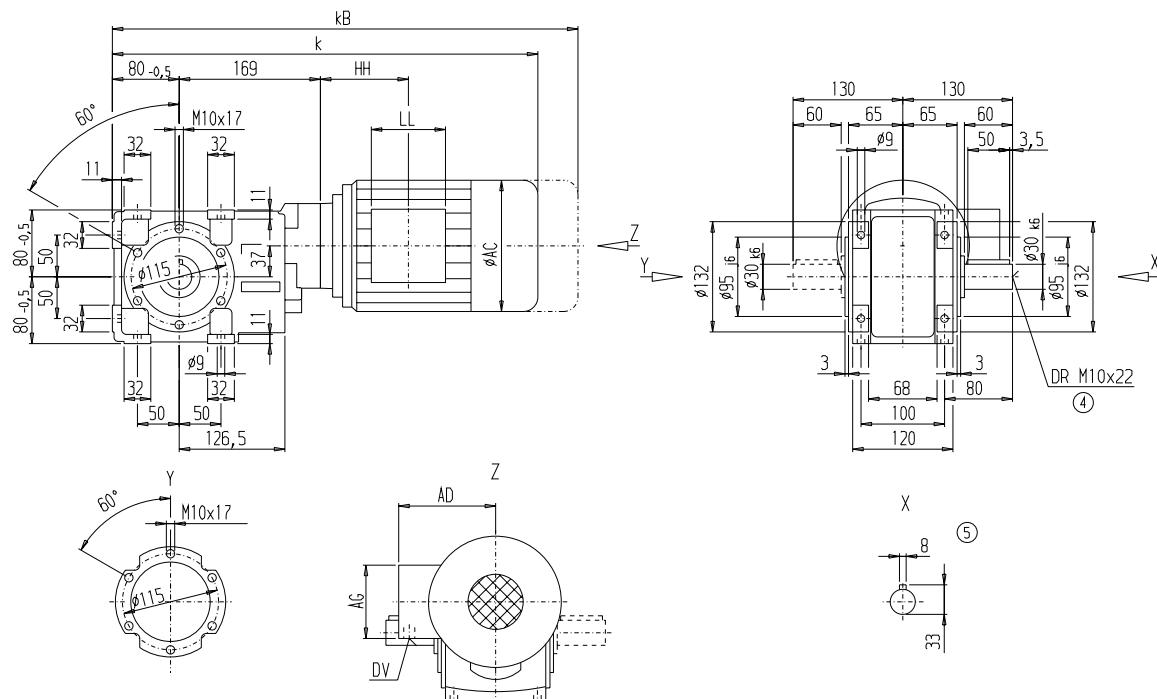
Flange	a1	b1	to2	c1	f1
A120	120	80	j6	8	3.0
A160	160	110	j6	9	3.5

Motor	BAFS28								Weight BAFS28
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	381.5	436.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA71Z	400.5	455.5	139	146	90	90	58.5	M20x1.5/M25x2.5	10
LA90S	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	20
LA90L	478.5	549.5	174	185	90	90	87.0	M20x1.5/M25x2.5	20
LA90ZL	523.5	594.5	174	185	90	90	87.0	M20x1.5/M25x2.5	23
LA100L	560.5	641.5	195	168	120	120	163.5	2xM32x1.5	29

⑥ For note, see page 4/224

Gear unit B/BZ38 (two-stage), housing-flange-mounted design (C-type)

B012  
BZ012



Motor	B.38								Weight B.38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	482	537.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	21
LA71Z	501	556.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	21
LA80	519	582.5	156.5	155	90	90	88.5	M20x1.5/M25x2.5	26
LA90S	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	31
LA90L	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	31
LA90ZL	595	666.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	34
LA100L	596	677.0	195.0	168	120	120	129.0	2xM32x1.5	40

④ DIN 332

⑤ Parallel key / keyway DIN 6885

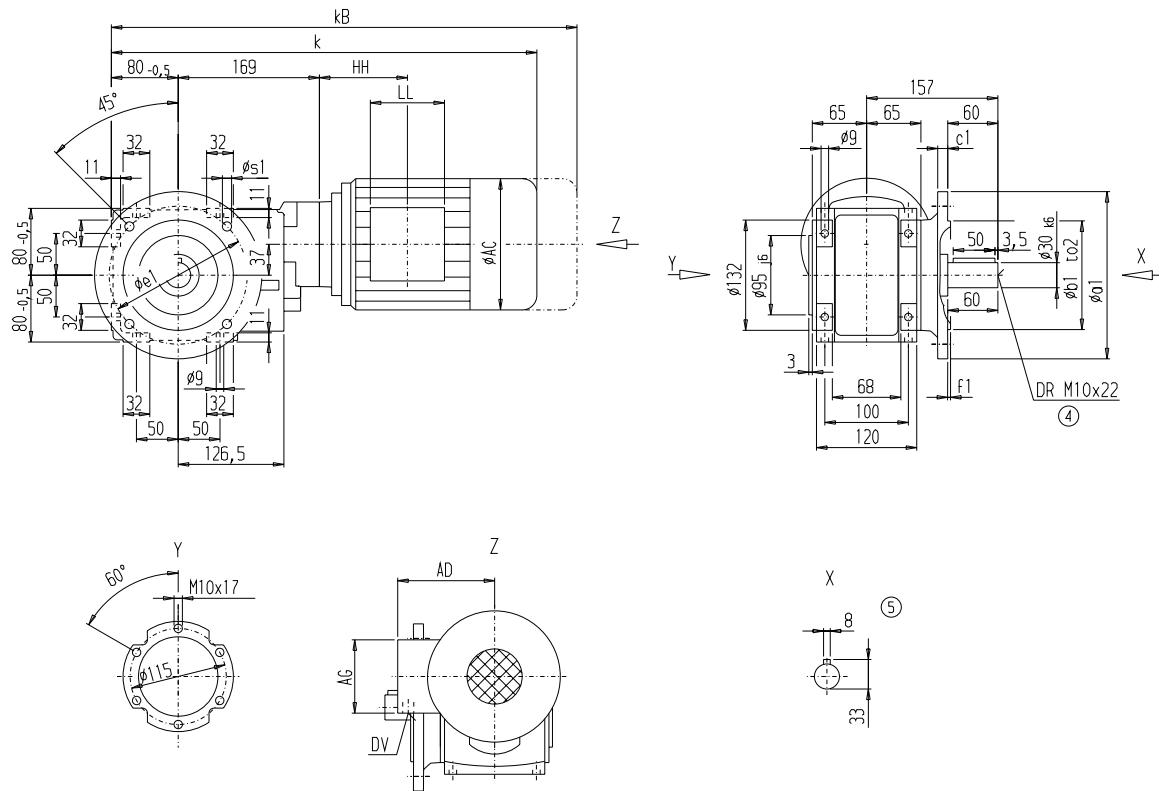
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit BF38 (two-stage), flange-mounted design (A-type)

**BF012**



Flange	a1	b1	to2	c1	e1	f1	s1
A160	160	110	j6	10	130	3.0	9
A200	200	130	j6	12	165	3.5	11

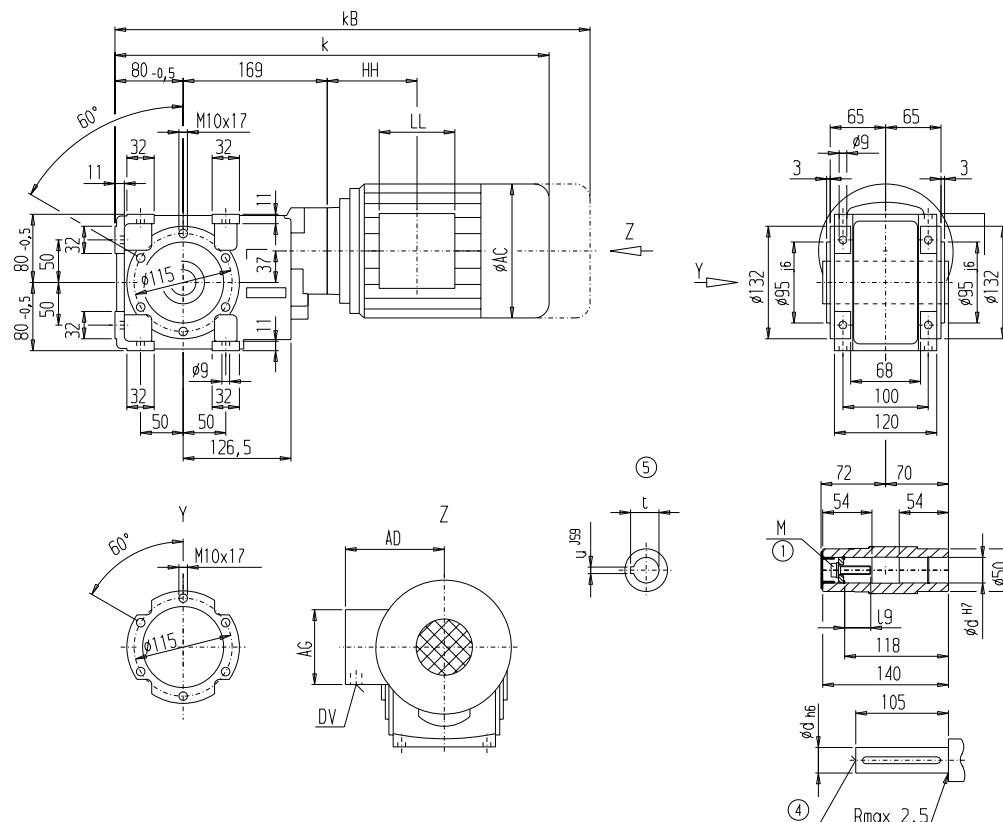
Motor	BF38								Weight BF38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	482	537.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	23
LA71Z	501	556.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	23
LA80	519	582.5	156.5	155	90	90	88.5	M20x1.5/M25x2.5	28
LA90S	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	32
LA90L	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	32
LA90ZL	595	666.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	35
LA100L	596	677.0	195.0	168	120	120	129.0	2xM32x1.5	41

④ DIN 332

⑤ Parallel key / keyway DIN 6885

Gear unit BA/BAZ38 (two-stage), housing-flange-mounted design (C-type)

BA012  
BAZ012



d	i9	M	t	u
<b>30</b>	31	M10	33.3	8
<b>35*</b>	40	M12	38.3	10

\*) Preferred series

Motor	BA.38								Weight BA.38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	482	537.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	21
LA71Z	501	556.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	21
LA80	519	582.5	156.5	155	90	90	88.5	M20x1.5/M25x2.5	26
LA90S	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	30
LA90L	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	30
LA90ZL	595	666.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	33
LA100L	596	677.0	195.0	168	120	120	129.0	2xM32x1.5	39

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

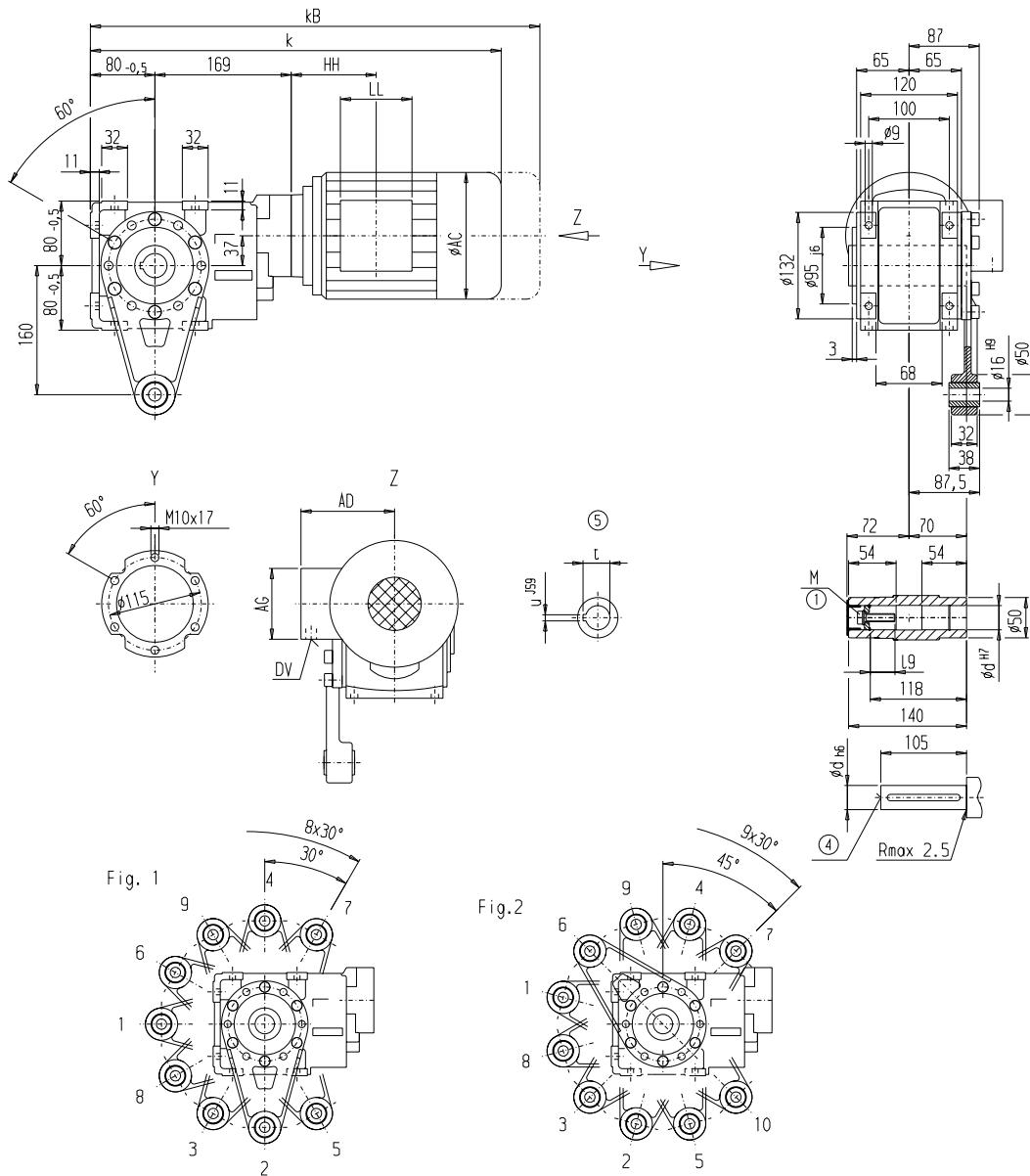
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit BAD38 (two-stage), shaft-mounted design with torque arm

**BAD012**



d	l9	M	t	u
30	31	M10	33.3	8
35*	40	M12	38.3	10

\*) Preferred series

BAD38									Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	BAD38
LA71	482	537.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	22
LA71Z	501	556.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	22
LA80	519	582.5	156.5	155	90	90	88.5	M20x1.5/M25x2.5	27
LA90S	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	32
LA90L	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	32
LA90ZL	595	666.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	35
LA100L	596	677.0	195.0	168	120	120	129.0	2xM32x1.5	41

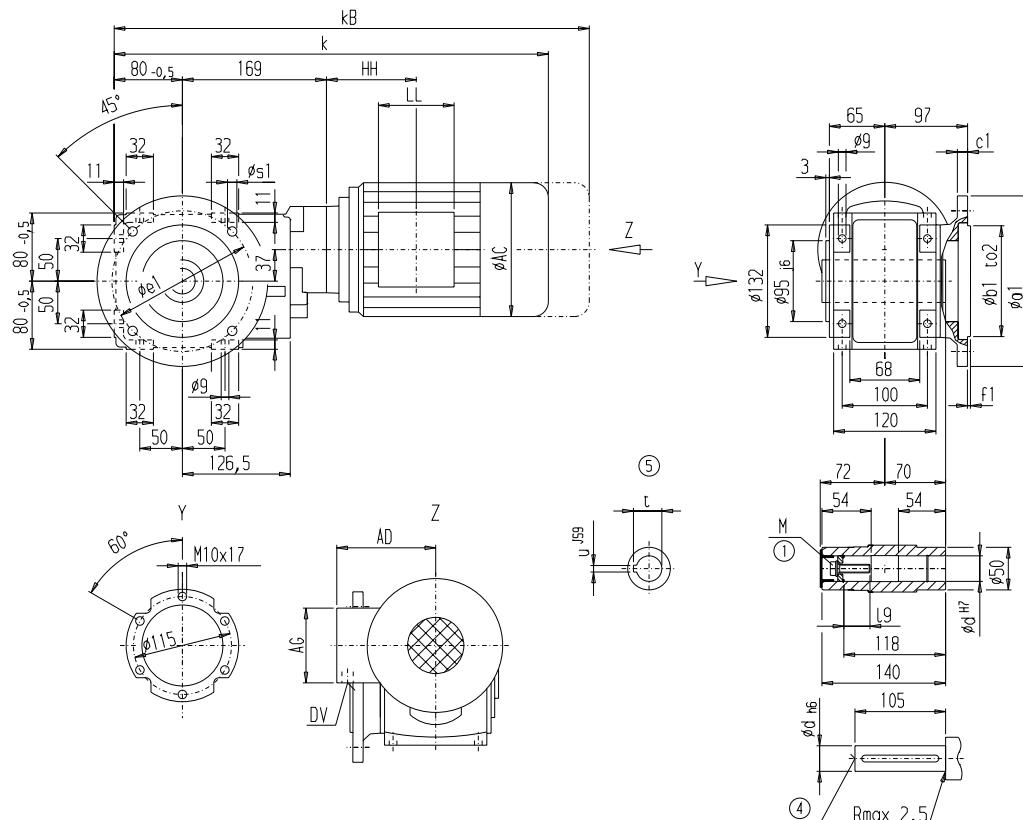
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

Gear unit BAF38 (two-stage), shaft-mounted design with flange

BAF012



Flange	a1	b1	to2	c1	e1	f1	s1	d	l9	M	t	u
160	160	110	j6	10	130	3.0	9	30	31	M10	33.3	8
								35*	40	M12	38.3	10
200	200	130	j6	12	165	3.5	11	30	31	M10	33.3	8
								35*	40	M12	38.3	10

\*) Preferred series

Motor	BAF38									Weight BAF38
	k	kB	AC	AD	AG	LL	HH	DV		
LA71	482	537.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5		22
LA71Z	501	556.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5		22
LA80	519	582.5	156.5	155	90	90	88.5	M20x1.5/M25x2.5		27
LA90S	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5		31
LA90L	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5		31
LA90ZL	595	666.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5		34
LA100L	596	677.0	195.0	168	120	120	129.0	2xM32x1.5		40

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

⑥ For note, see page 4/224

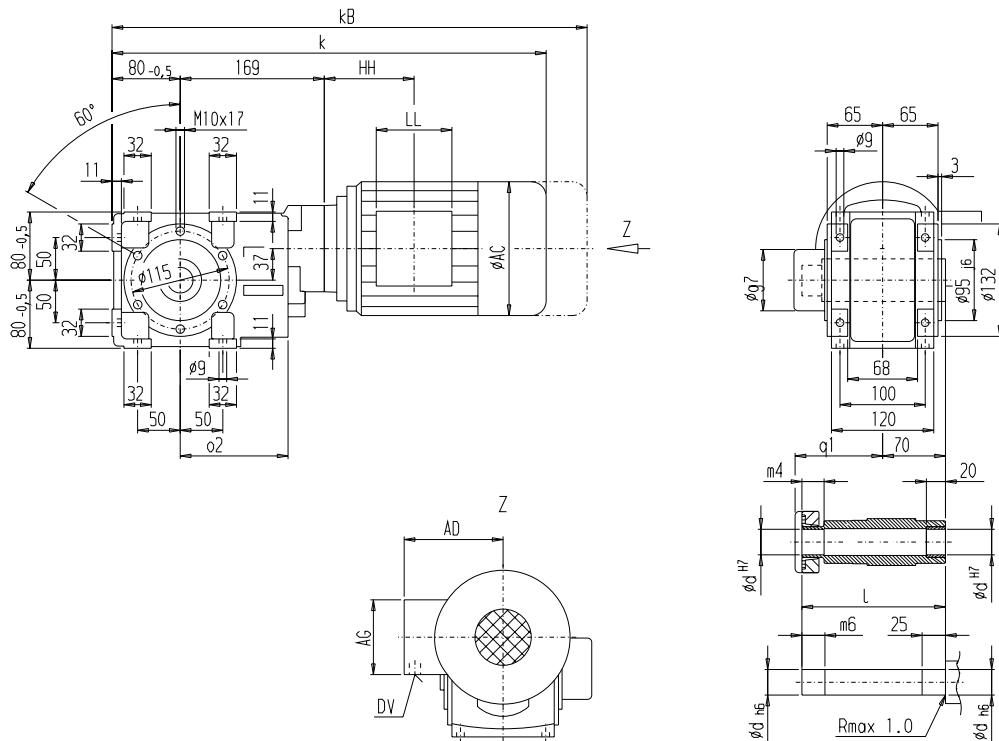
# Geared motors

## Bevel helical geared motors

### Dimensions

**Gear unit BAS/BAZS38 (two-stage), shaft-mounted design with housing flange (C-type) and shrink disk**

**BAS012**  
**BAZS012**



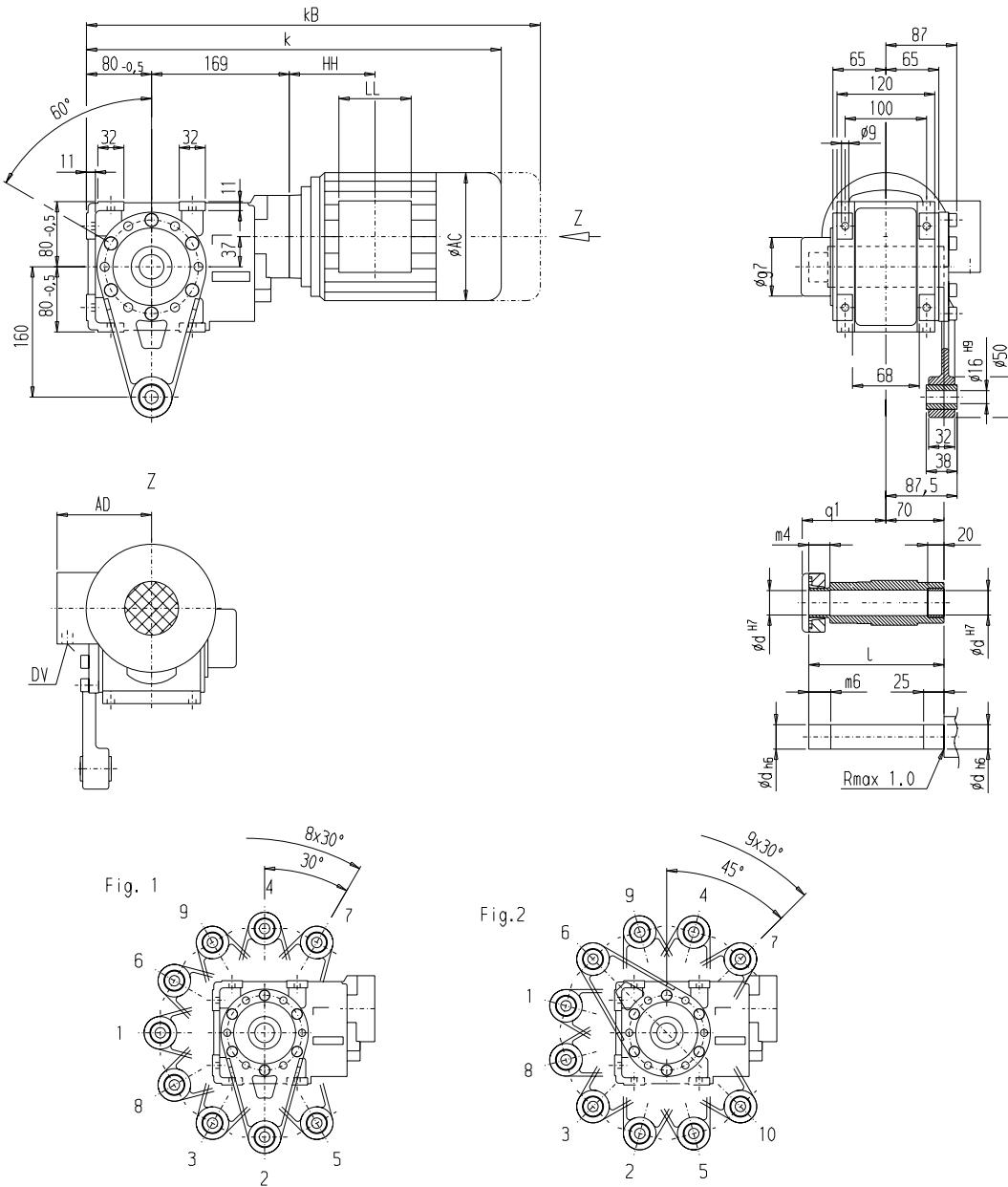
d	I	g7	m4	m6	q1
<b>30</b>	166	77	27	32	104
<b>35*</b>	168	85	27	32	106

\*) Preferred series

Motor	BA.S38								Weight BA.S38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	482	537.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	21
LA71Z	501	556.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	21
LA80	519	582.5	156.5	155	90	90	88.5	M20x1.5/M25x2.5	26
LA90S	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	31
LA90L	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	31
LA90ZL	595	666.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	34
LA100L	596	677.0	195.0	168	120	120	129.0	2xM32x1.5	40

Gear unit BADS38 (two-stage), shaft-mounted design with torque arm

BADS012



d	I	g7	m4	m6	q1
<b>30</b>	166	77	27	32	104
<b>35*</b>	168	85	27	32	106

\*) Preferred series

Motor	BADS38								Weight BADS38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	482	537.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	23
LA71Z	501	556.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	23
LA80	519	582.5	156.5	155	90	90	88.5	M20x1.5/M25x2.5	28
LA90S	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	32
LA90L	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	32
LA90ZL	595	666.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	35
LA100L	596	677.0	195.0	168	120	120	129.0	2xM32x1.5	41

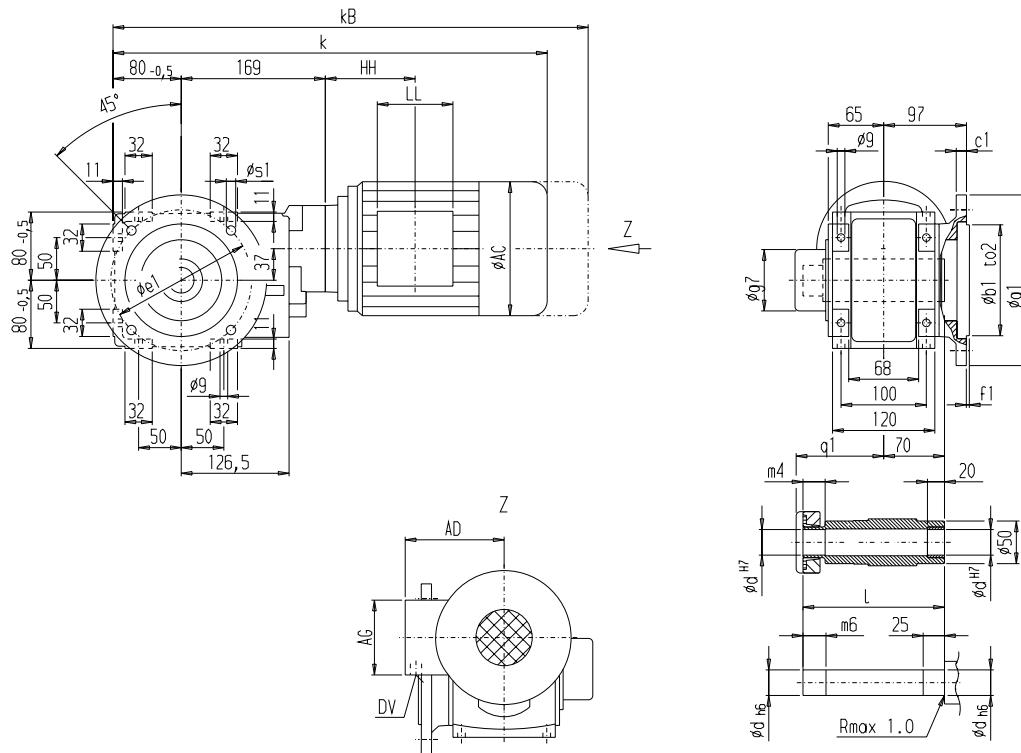
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit BAFS38 (two-stage), shaft-mounted design with flange and shrink disk

**BAFS012**



Flange	a1	b1	t <sub>02</sub>	c1	e1	f1	s1	d	l	g7	m4	m6	q1
<b>160</b>	160	110	j6	10	130	3.0	9	30	166	77	27	32	104
								35*	168	85	27	32	106
<b>200</b>	200	130	j6	12	165	3.5	11	30	166	77	27	32	104
								35*	168	85	27	32	106

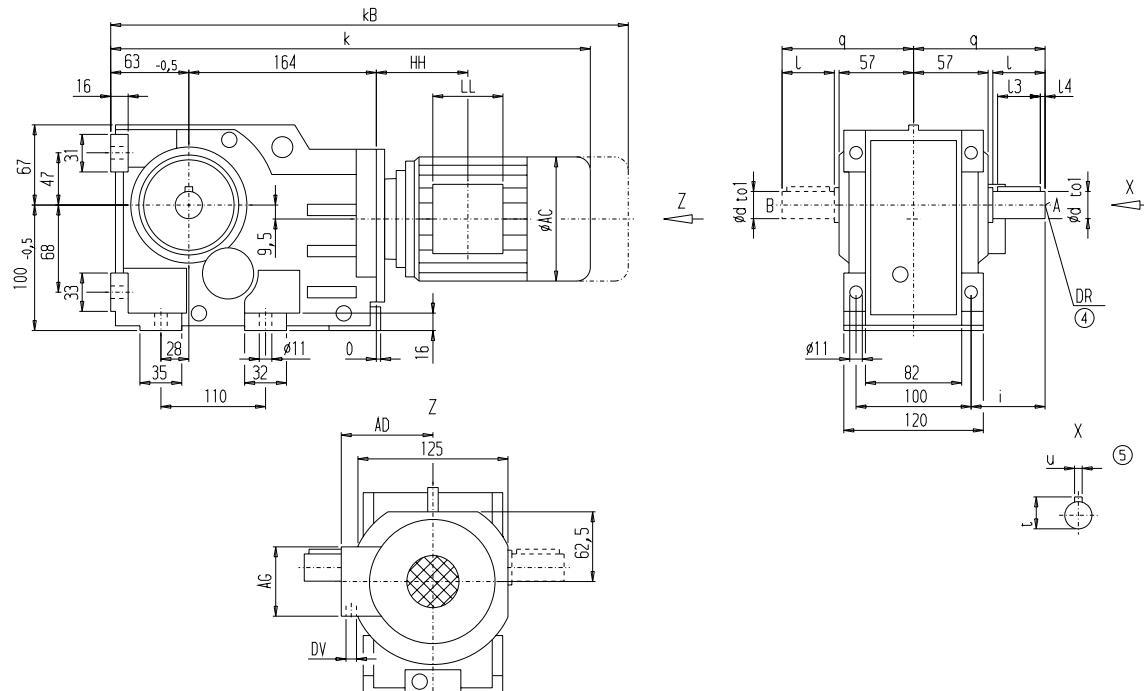
\*) Preferred series

Motor	BAFS38								Weight BAFS38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	482	537.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	22
LA71Z	501	556.0	139.0	146	90	90	89.0	M20x1.5/M25x2.5	22
LA80	519	582.5	156.5	155	90	90	88.5	M20x1.5/M25x2.5	27
LA90S	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	32
LA90L	550	621.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	32
LA90ZL	595	666.0	174.0	163	90	90	88.5	M20x1.5/M25x2.5	35
LA100L	596	677.0	195.0	168	120	120	129.0	2xM32x1.5	41

⑥ For note, see page 4/224

Gear unit K38 (three-stage), housing-flange-mounted design (C-type)

K012



4

d	to1	I	I3	I4	t	u	i	q	DR
25	k6	50	40	5	28	8	60	110	M10x22
35*	k6	70	56	5	38	10	80	130	M12x28

\*) Preferred series

Motor	K38								Weight K38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	485.5	540.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	20
LA71Z	504.5	559.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	20
LA80	522.5	586.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	25
LA90S	553.5	624.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	29
LA90L	553.5	624.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	29
LA90ZL	598.5	669.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	32
LA100L	599.5	680.5	195.0	168	120	120	154.5	2xM32x1.5	38
LA112M	629.0	710.0	219.0	181	120	120	160.0	2xM32x1.5	49

④ DIN 332

⑤ Parallel key / keyway DIN 6885

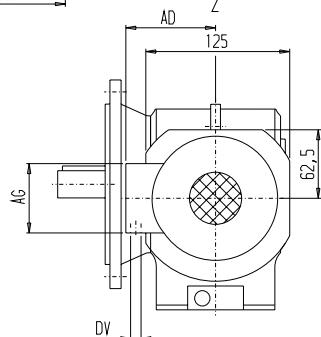
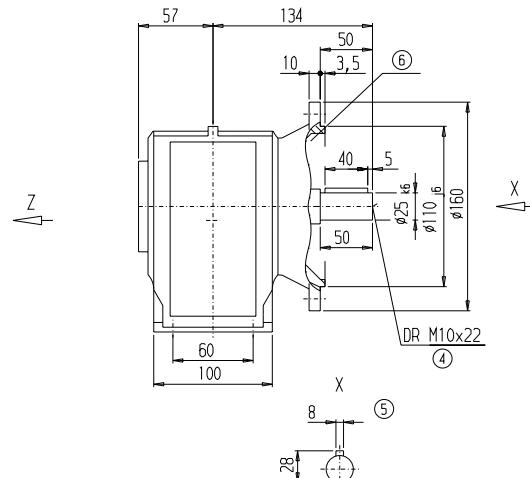
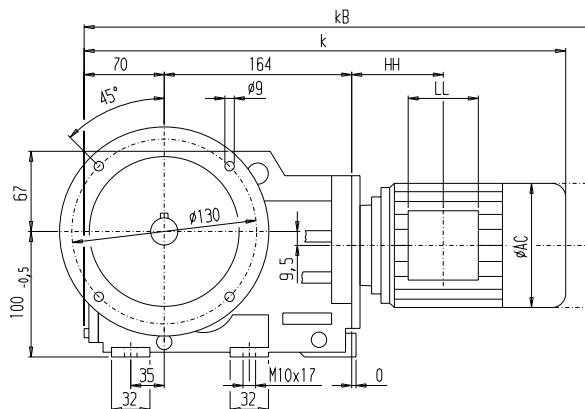
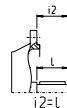
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KF38 (three-stage), flange-mounted design (A-type)

KF012



Motor	KF38								Weight KF38
	k	KB	AC	AD	AG	LL	HH	DV	
LA71	492.5	547.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	21
LA71Z	511.5	566.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	21
LA80	529.5	593.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	26
LA90S	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	31
LA90L	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	31
LA90ZL	605.5	676.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	34
LA100L	606.5	687.5	195.0	168	120	120	154.5	2xM32x1.5	40
LA112M	636.0	717.0	219.0	181	120	120	160.0	2xM32x1.5	50

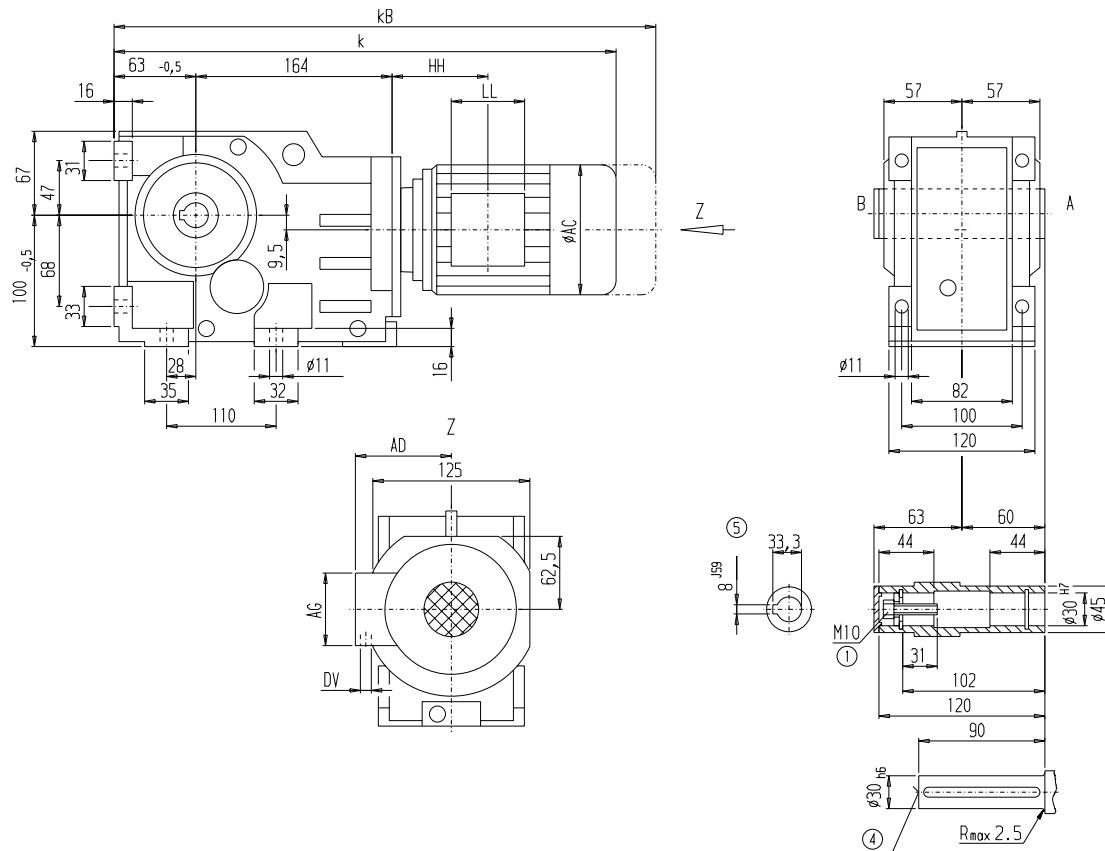
④ DIN 332

⑤ Parallel key / keyway DIN 6885

⑥ For note, see page 4/224

#### Gear unit KA38 (three-stage), housing-flange-mounted design (C-type)

KA012



4

Motor	KA38								Weight KA38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	485.5	540.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	18
LA71Z	504.5	559.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	18
LA80	522.5	586.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	23
LA90S	553.5	624.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90L	553.5	624.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90ZL	598.5	669.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	31
LA100L	599.5	680.5	195.0	168	120	120	154.5	2xM32x1.5	37
LA112M	629.0	710.0	219.0	181	120	120	160.0	2xM32x1.5	48

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

Siemens D 87 1 : 2007

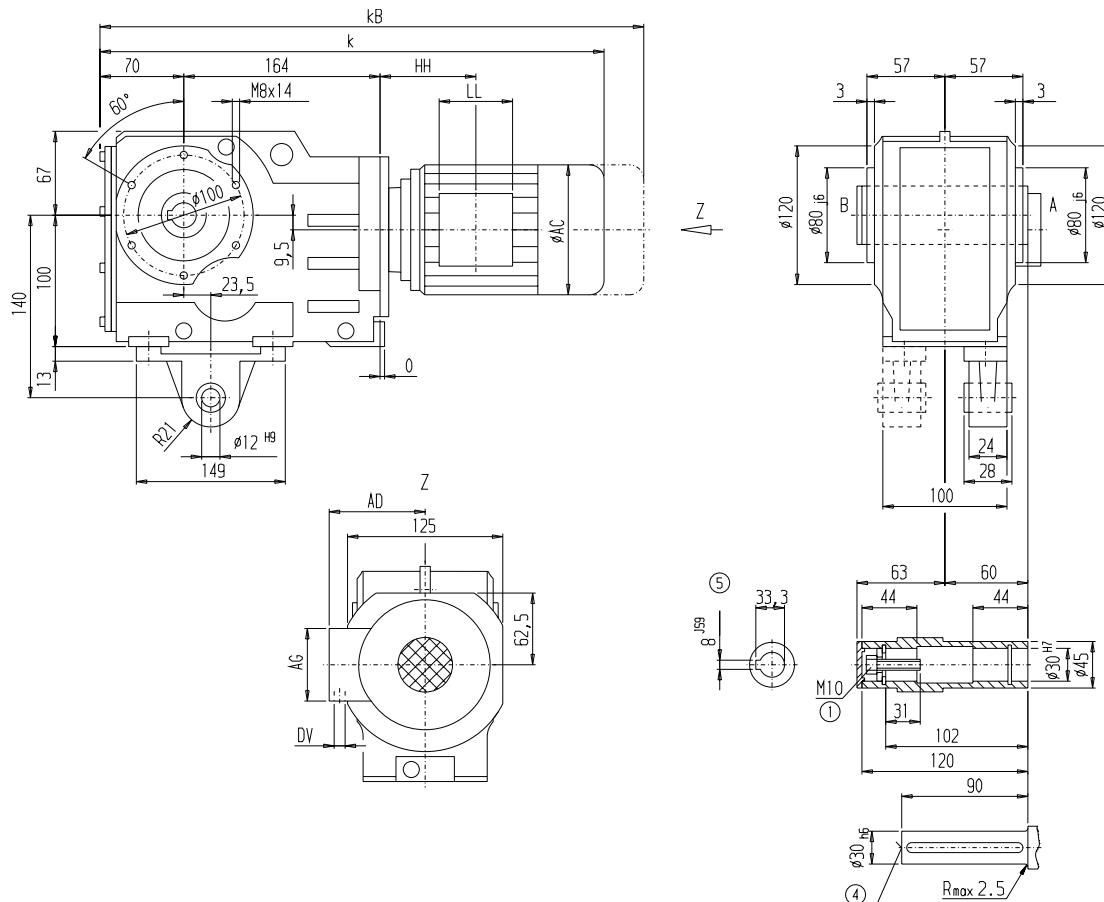
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAD38 (three-stage), shaft-mounted design with torque arm

KAD012



Motor	KAD38								Weight KAD38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	492.5	547.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	19
LA71Z	511.5	566.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	19
LA80	529.5	593.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	24
LA90S	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90L	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90ZL	605.5	676.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	31
LA100L	606.5	687.5	195.0	168	120	120	154.5	2xM32x1.5	38
LA112M	636.0	717.0	219.0	181	120	120	160.0	2xM32x1.5	48

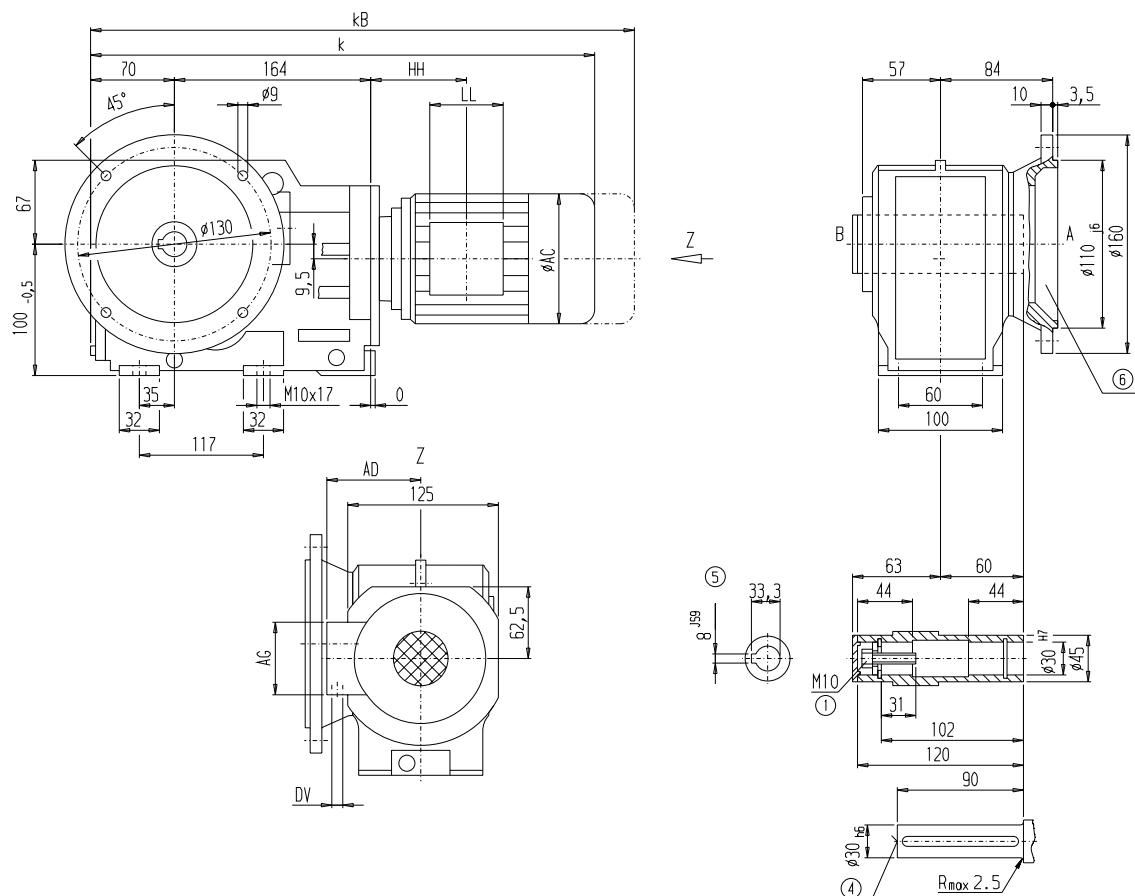
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

Gear unit KAF38 (three-stage), shaft-mounted design with flange

KAF012



Motor	KAF38								Weight KAF38
	k	kb	AC	AD	AG	LL	HH	DV	
LA71	492.5	547.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	20
LA71Z	511.5	566.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	20
LA80	529.5	593.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	25
LA90S	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	29
LA90L	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	29
LA90ZL	605.5	676.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	32
LA100L	606.5	687.5	195.0	168	120	120	154.5	2xM32x1.5	39
LA112M	636.0	717.0	219.0	181	120	120	160.0	2xM32x1.5	49

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

⑥ For note, see page 4/224

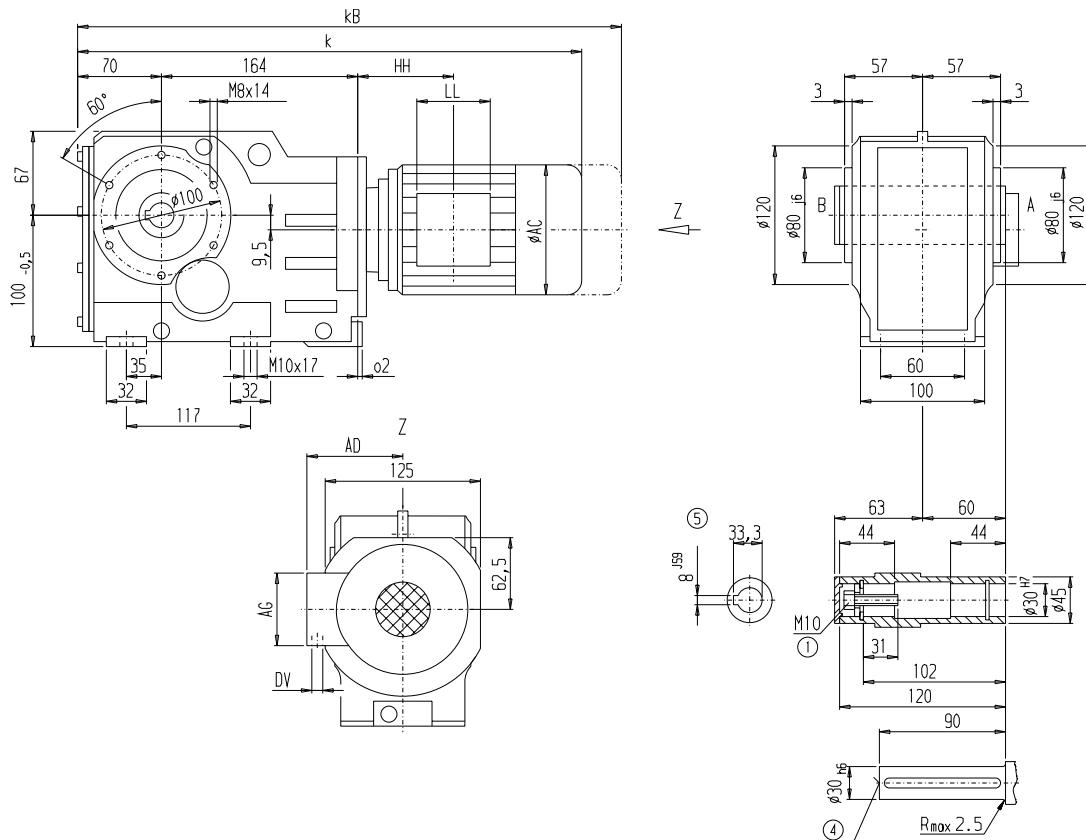
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZ38 (three-stage), shaft-mounted design with housing flange (C-type)

KAZ012



Motor	KAZ38								Weight KAZ38
	k	KB	AC	AD	AG	LL	HH	DV	
LA71	492.5	547.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	18
LA71Z	511.5	566.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	18
LA80	529.5	593.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	23
LA90S	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90L	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90ZL	605.5	676.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	31
LA100L	606.5	687.5	195.0	168	120	120	154.5	2xM32x1.5	37
LA112M	636.0	717.0	219.0	181	120	120	160.0	2xM32x1.5	48

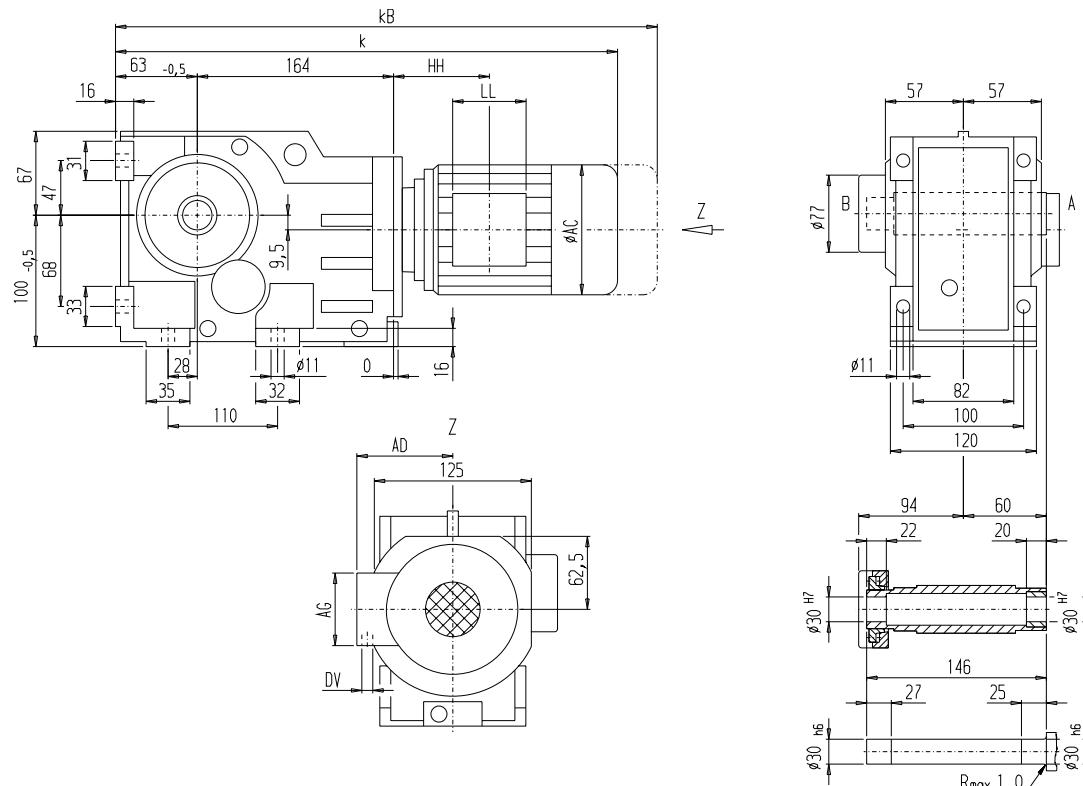
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

Gear unit KAS38 (three-stage), shaft-mounted design with shrink disk

KAS012



Motor	KAS38								Weight
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	485.5	540.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	19
LA71Z	504.5	559.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	19
LA80	522.5	586.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	24
LA90S	553.5	624.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90L	553.5	624.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90ZL	598.5	669.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	31
LA100L	599.5	680.5	195.0	168	120	120	154.5	2xM32x1.5	38
LA112M	629.0	710.0	219.0	181	120	120	160.0	2xM32x1.5	48

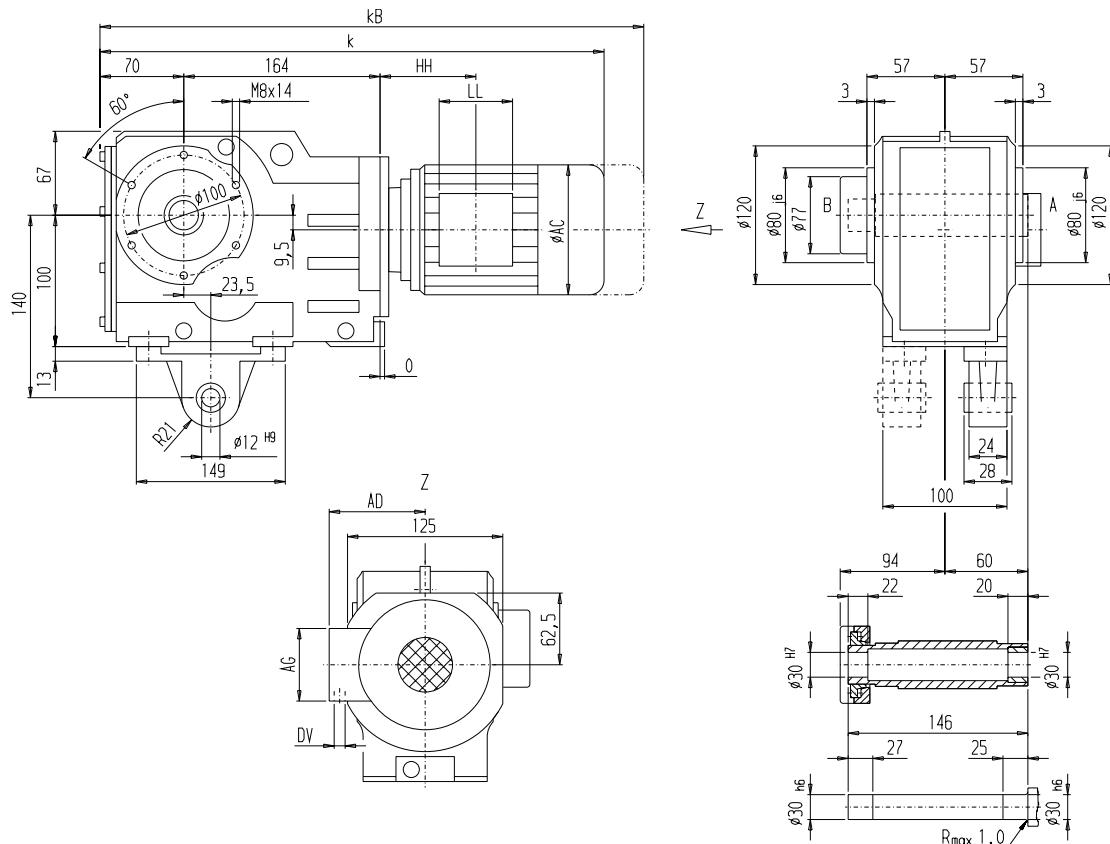
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KADS38 (three-stage), shaft-mounted design with torque arm and shrink disk

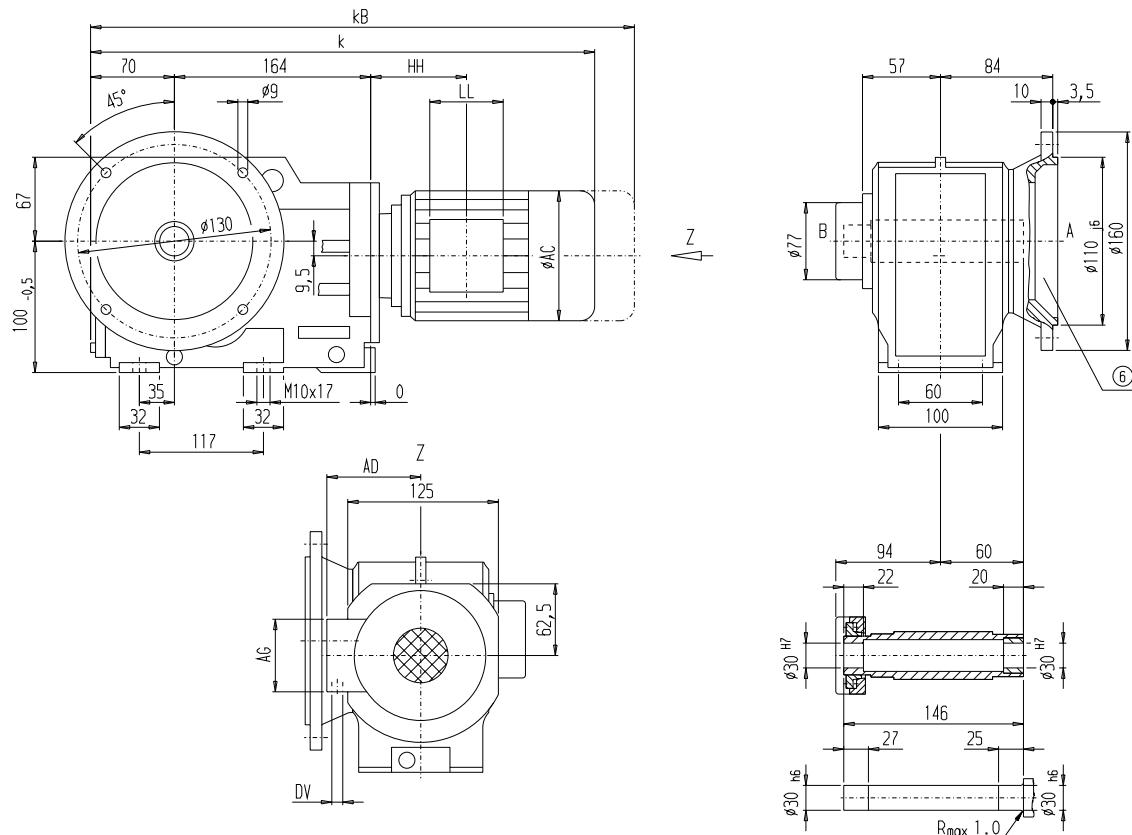
KADS012



Motor	KADS38								Weight KADS38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	492.5	547.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	20
LA71Z	511.5	566.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	20
LA80	529.5	593.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	24
LA90S	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	29
LA90L	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	29
LA90ZL	605.5	676.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	32
LA100L	606.5	687.5	195.0	168	120	120	154.5	2xM32x1.5	38
LA112M	636.0	717.0	219.0	181	120	120	160.0	2xM32x1.5	49

Gear unit KAFS38 (three-stage), shaft-mounted design with flange and shrink disk

KAFS012



4

Motor	KAFS38								Weight KAFS38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	492.5	547.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	20
LA71Z	511.5	566.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	20
LA80	529.5	593.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	25
LA90S	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	30
LA90L	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	30
LA90ZL	605.5	676.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	33
LA100L	606.5	687.5	195.0	168	120	120	154.5	2xM32x1.5	39
LA112M	636.0	717.0	219.0	181	120	120	160.0	2xM32x1.5	49

⑥ For note, see page 4/224

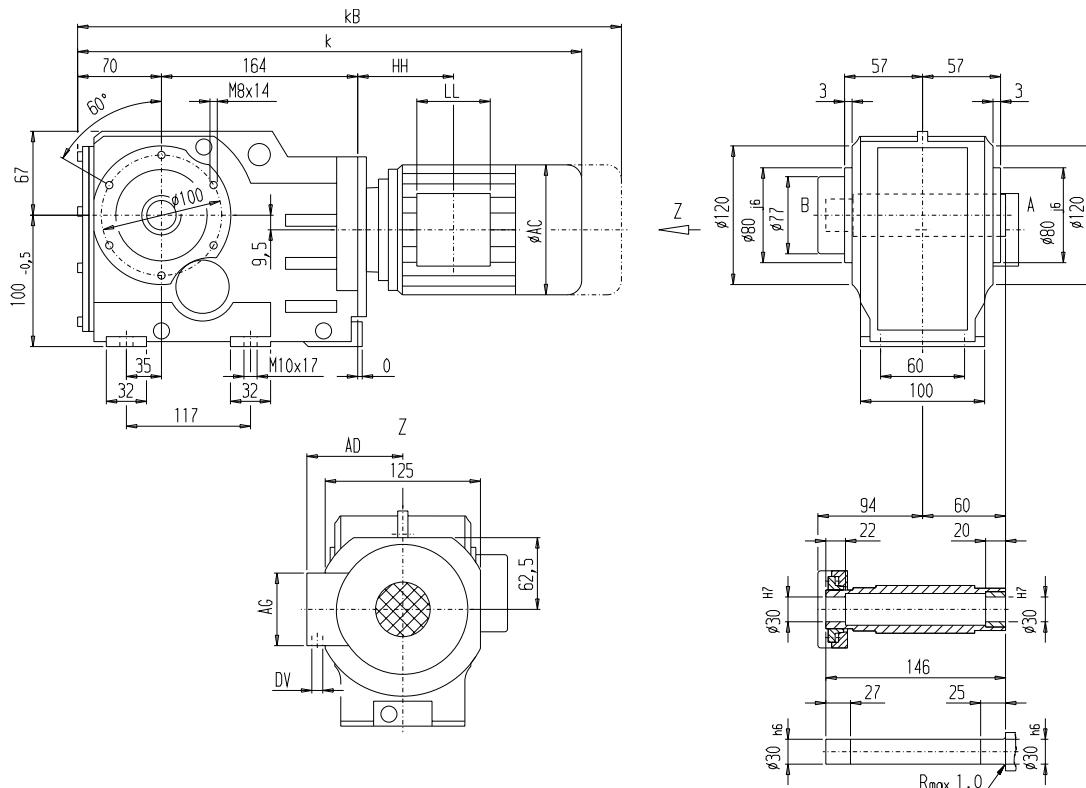
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZS38 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk

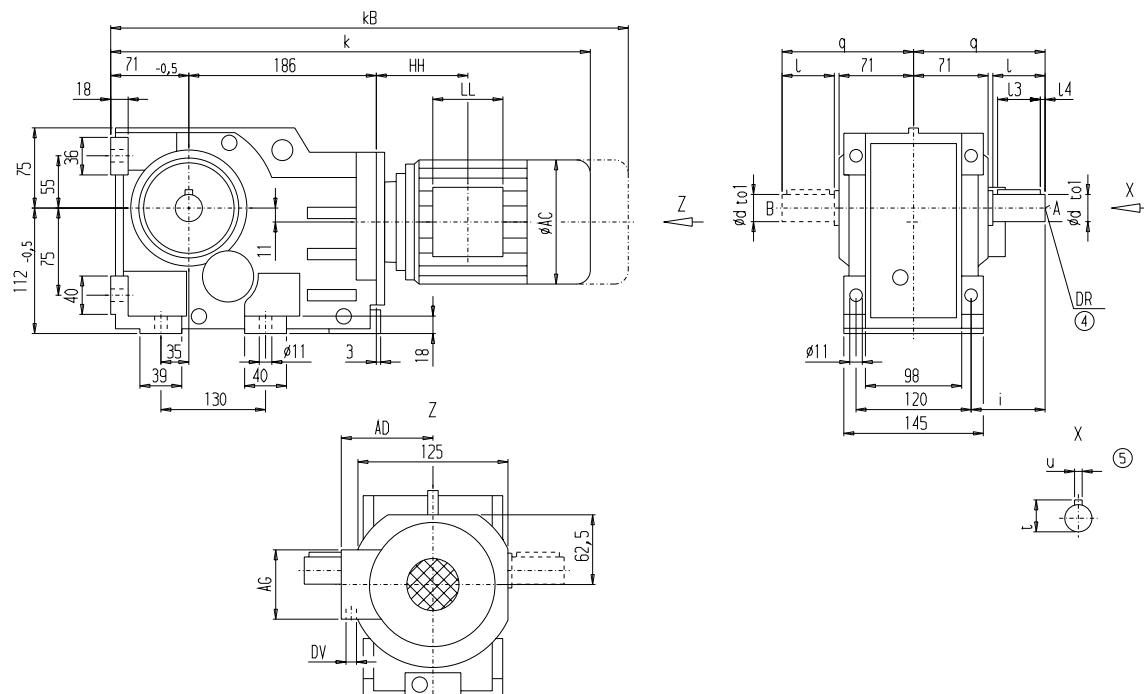
KAZS012



Motor	KAZS38								Weight KAZS38
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	492.5	547.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	19
LA71Z	511.5	566.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	19
LA80	529.5	593.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	24
LA90S	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90L	560.5	631.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	28
LA90ZL	605.5	676.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	31
LA100L	606.5	687.5	195.0	168	120	120	154.5	2xM32x1.5	37
LA112M	636.0	717.0	219.0	181	120	120	160.0	2xM32x1.5	48

Gear unit K48 (three-stage), housing-flange-mounted design (C-type)

K012



d	to1	I	I3	I4	t	u	i	q	DR
30	k6	60	50	3.5	33	8	75	135	M10x22
40*	k6	80	70	5.0	43	12	95	155	M16x36

\*) Preferred series

Motor	K48								Weight K48
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	515.5	570.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	24
LA71Z	534.5	589.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	24
LA80	552.5	616.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	29
LA90S	583.5	654.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	34
LA90L	583.5	654.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	34
LA90ZL	628.5	699.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	37
LA100L	629.5	710.5	195.0	168	120	120	154.5	2xM32x1.5	43
LA112M	659.0	740.0	219.0	181	120	120	160.0	2xM32x1.5	43

④ DIN 332

⑤ Parallel key / keyway DIN 6885

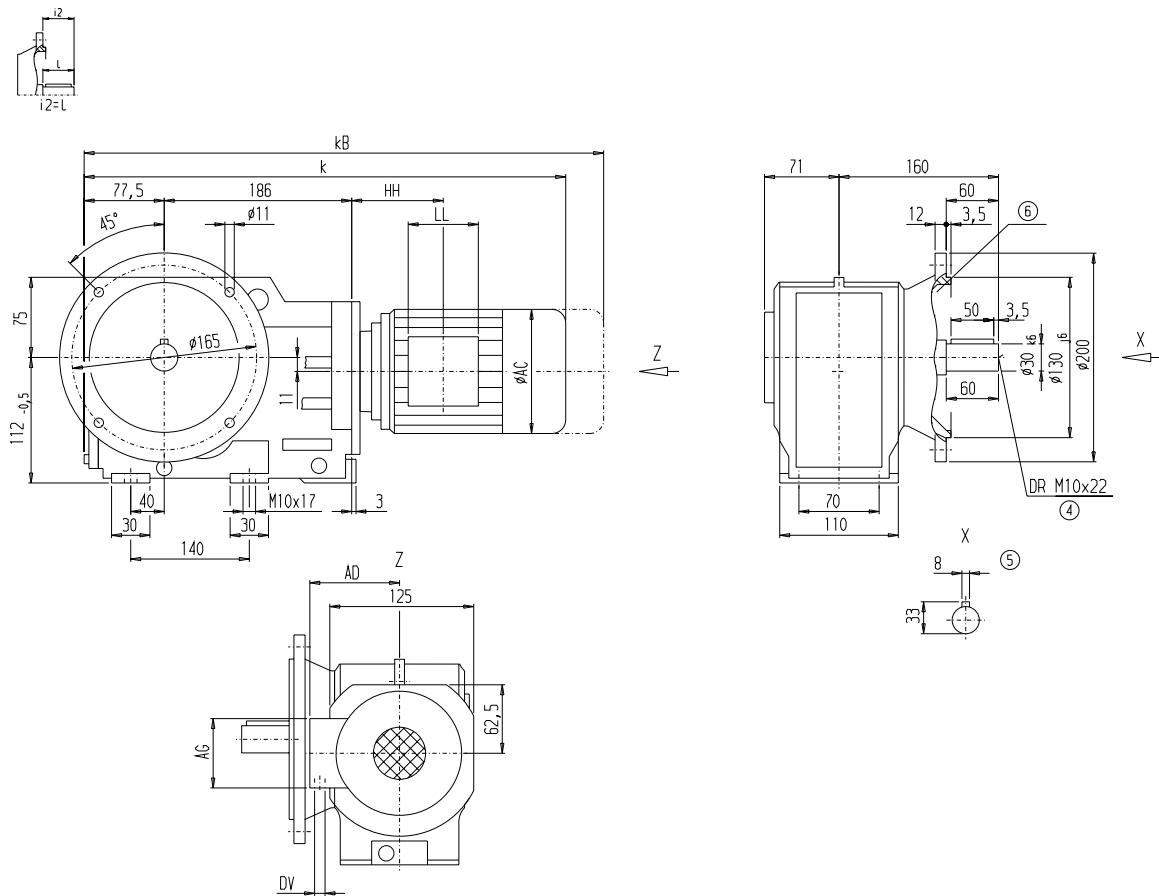
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KF48 (three-stage), flange-mounted design (A-type)

**KF012**



Motor	KF48								Weight KF48
	k	kb	AC	AD	AG	LL	HH	DV	
LA71	522.0	577.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	26
LA71Z	541.0	596.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	26
LA80	559.0	622.5	156.5	155	90	90	114.0	M20x1.5/M25x2.5	31
LA90S	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	36
LA90L	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	36
LA90ZL	635.0	706.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	39
LA100L	636.0	717.0	195.0	168	120	120	154.5	2xM32x1.5	45
LA112M	665.5	746.5	219.0	181	120	120	160.0	2xM32x1.5	56

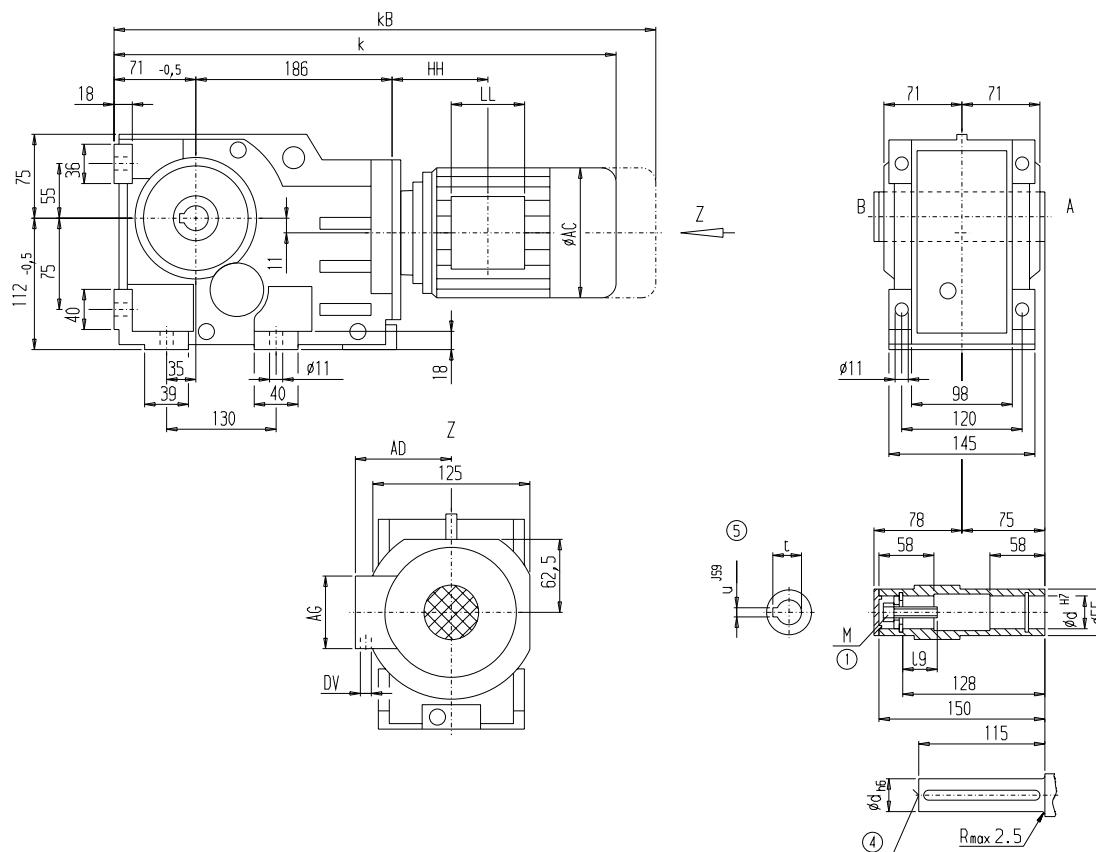
④ DIN 332

⑤ Parallel key / keyway DIN 6885

⑥ For note, see page 4/224

#### Gear unit KA48 (three-stage), housing-flange-mounted design (C-type)

KA012



d	l9	M	t	u
40	48	M16	43.3	12
35*	40	M12	38.3	10

### \*) Preferred series

	KA48								Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KA48
LA71	515.5	570.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	23
LA71Z	534.5	589.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	23
LA80	552.5	616.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	28
LA90S	583.5	654.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	32
LA90L	583.5	654.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	32
LA90ZL	628.5	699.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	35
LA100L	629.5	710.5	195.0	168	120	120	154.5	2xM32x1.5	41
LA112M	659.0	740.0	219.0	181	120	120	160.0	2xM32x1.5	52

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

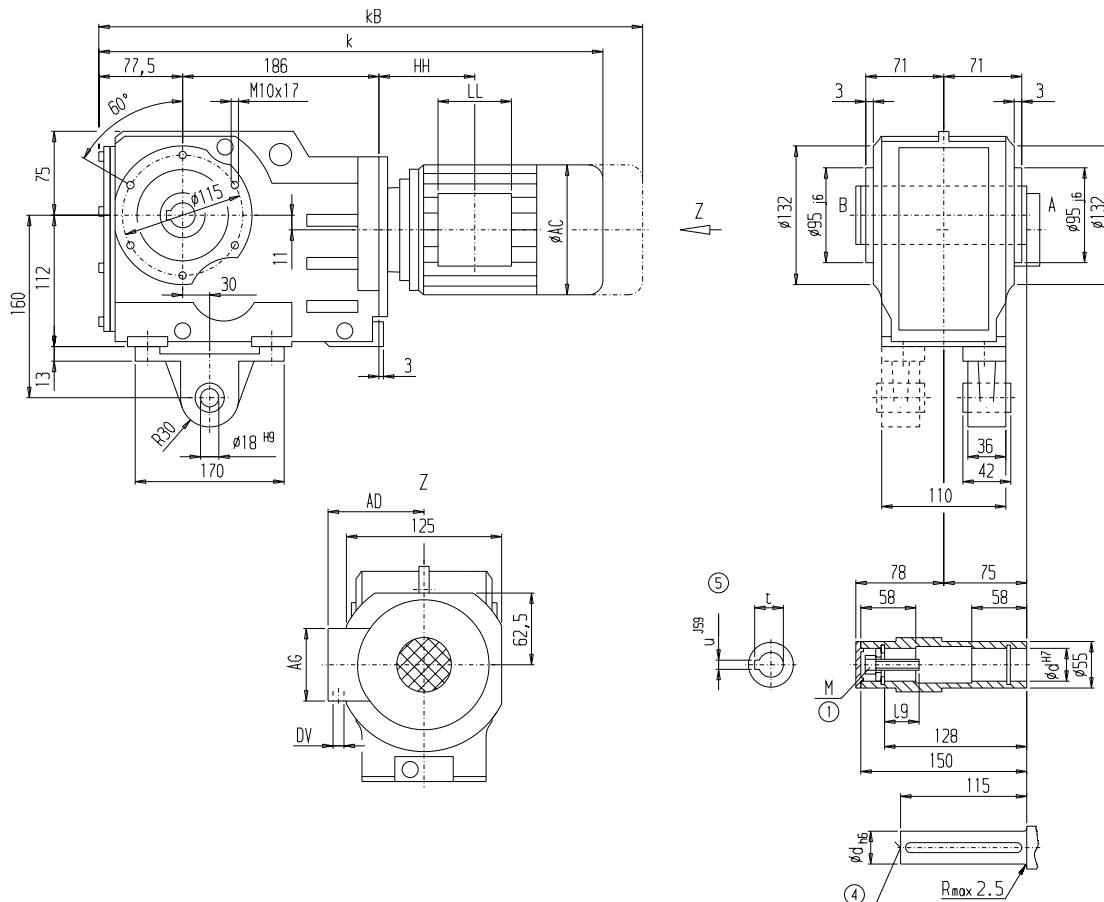
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAD48 (three-stage), shaft-mounted design with torque arm

KAD012



d	i9	M	t	u
40*	48	M16	43.3	12
35	40	M12	38.3	10

\*) Preferred series

Motor	KAD48								Weight KAD48
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	522.0	577.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	24
LA71Z	541.0	596.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	24
LA80	559.0	622.5	156.5	155	90	90	114.0	M20x1.5/M25x2.5	29
LA90S	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	33
LA90L	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	33
LA90ZL	635.0	706.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	36
LA100L	636.0	717.0	195.0	168	120	120	154.5	2xM32x1.5	42
LA112M	665.5	746.5	219.0	181	120	120	160.0	2xM32x1.5	53

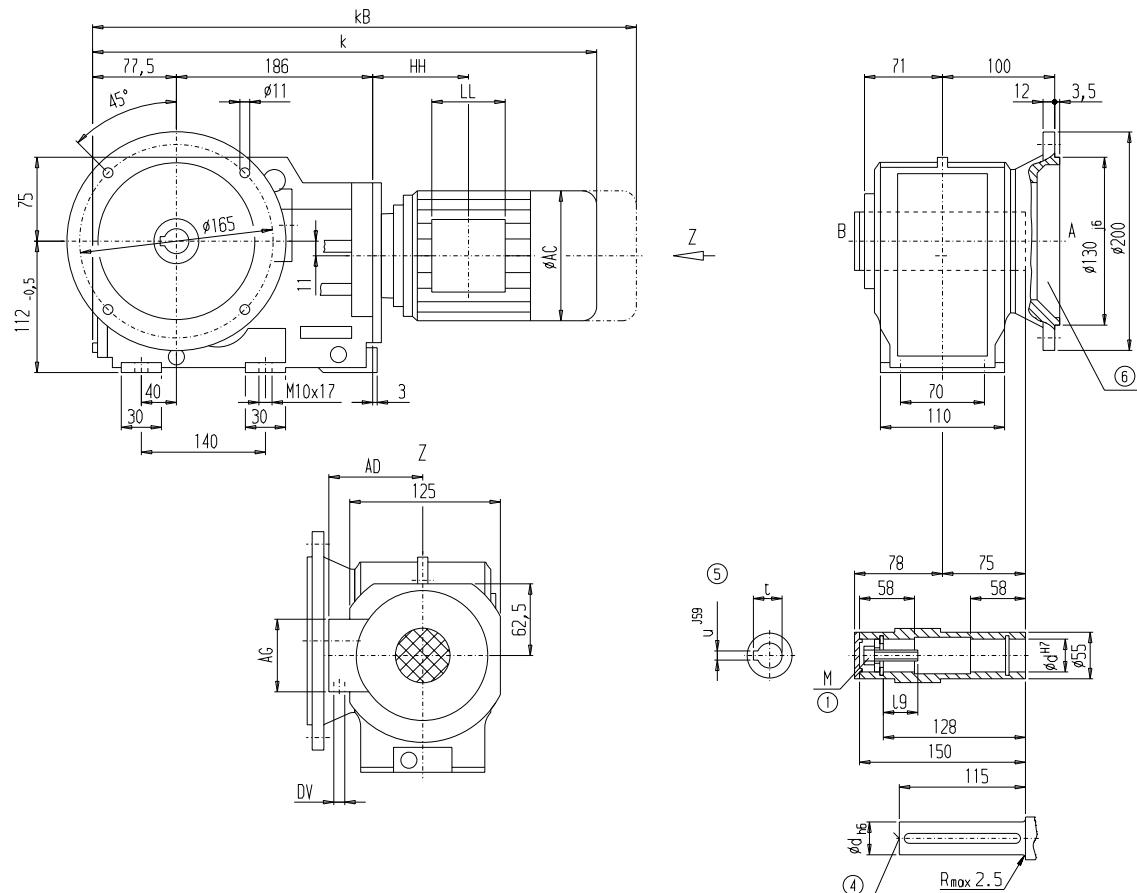
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

Gear unit KAF48 (three-stage), shaft-mounted design with flange

KAF012



d	i9	M	t	u
40*	48	M16	43.3	12
35	40	M12	38.3	10

\*) Preferred series

Motor	KAF48								Weight KAF48
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	522.0	577.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	25
LA71Z	541.0	596.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	25
LA80	559.0	622.5	156.5	155	90	90	114.0	M20x1.5/M25x2.5	30
LA90S	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	34
LA90L	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	34
LA90ZL	635.0	706.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	37
LA100L	636.0	717.0	195.0	168	120	120	154.5	2xM32x1.5	44
LA112M	665.5	746.5	219.0	181	120	120	160.0	2xM32x1.5	54

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

⑥ For note, see page 4/224

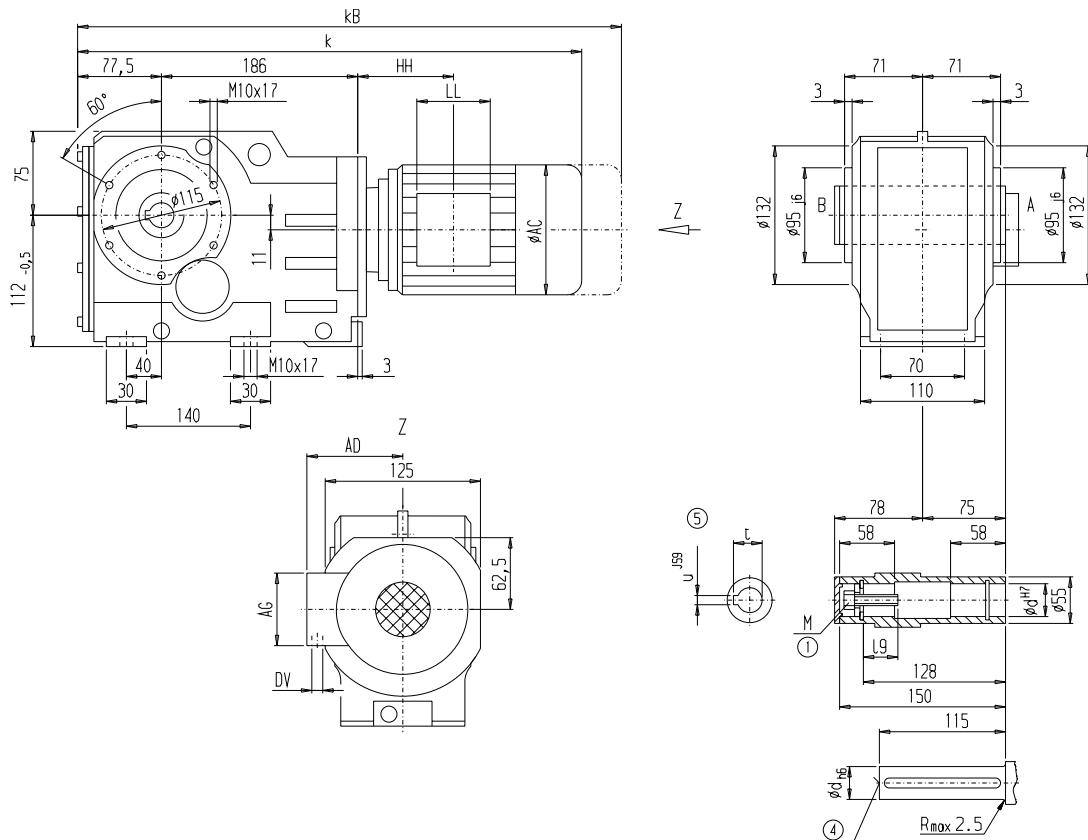
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZ48 (three-stage), shaft-mounted design with housing flange (C-type)

KAZ012



d	i9	M	t	u
<b>40*</b>	48	M16	43.3	12
<b>35</b>	40	M12	38.3	10

\*) Preferred series

Motor	KAZ48									Weight KAZ48
	k	kB	AC	AD	AG	LL	HH	DV		
LA71	522.0	577.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5		22
LA71Z	541.0	596.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5		22
LA80	559.0	622.5	156.5	155	90	90	114.0	M20x1.5/M25x2.5		27
LA90S	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5		32
LA90L	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5		32
LA90ZL	635.0	706.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5		35
LA100L	636.0	717.0	195.0	168	120	120	154.5	2xM32x1.5		41
LA112M	665.5	746.5	219.0	181	120	120	160.0	2xM32x1.5		52

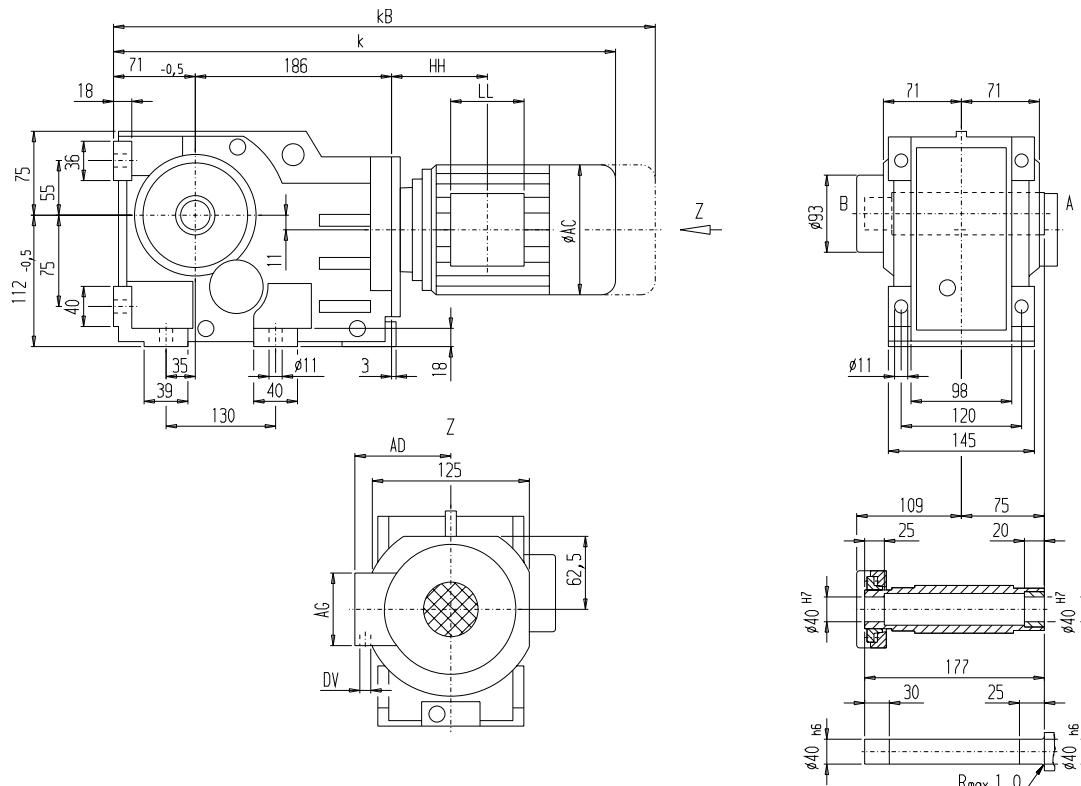
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

Gear unit KAS48 (three-stage), shaft-mounted design with shrink disk

KAS012



Motor	KAS48								Weight KAS48
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	515.5	570.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	23
LA71Z	534.5	589.5	139.0	146	90	90	114.5	M20x1.5/M25x2.5	23
LA80	552.5	616.0	156.5	155	90	90	114.0	M20x1.5/M25x2.5	28
LA90S	583.5	654.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	33
LA90L	583.5	654.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	33
LA90ZL	628.5	699.5	174.0	163	90	90	114.0	M20x1.5/M25x2.5	36
LA100L	629.5	710.5	195.0	168	120	120	154.5	2xM32x1.5	42
LA112M	659.0	740.0	219.0	181	120	120	160.0	2xM32x1.5	53

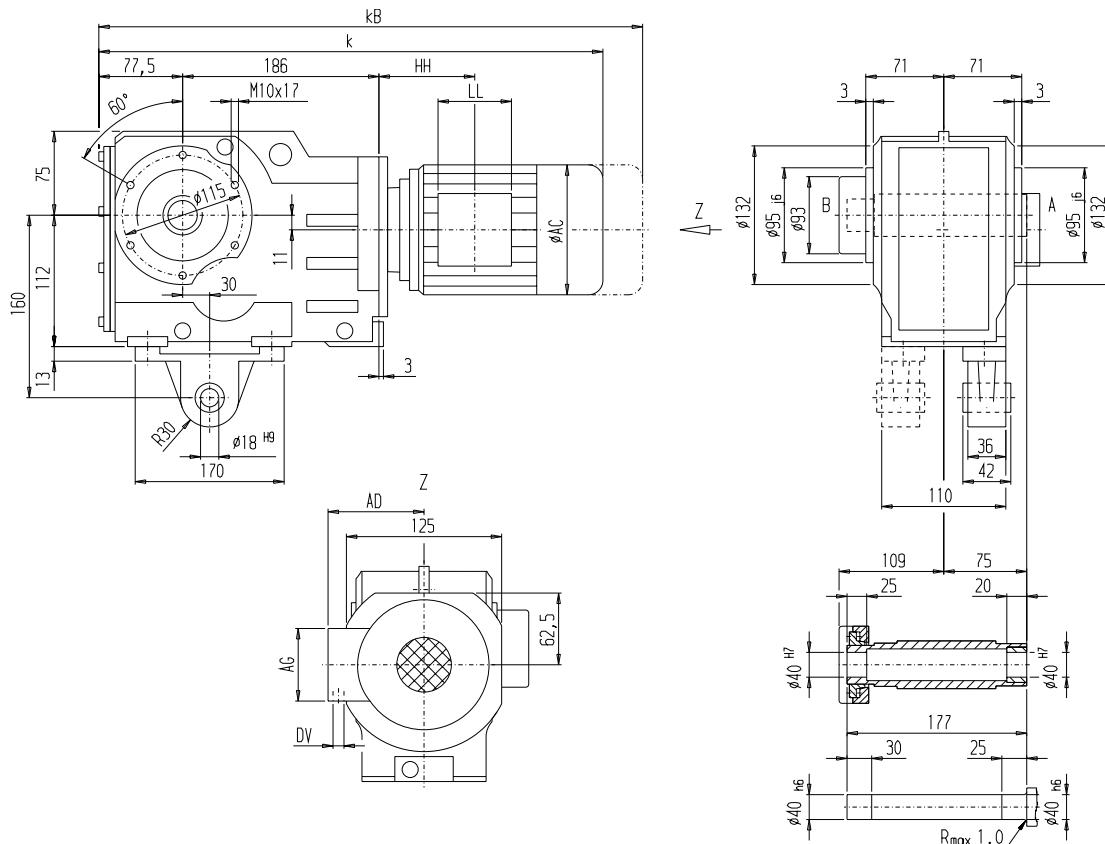
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KADS48 (three-stage), shaft-mounted design with torque arm and shrink disk

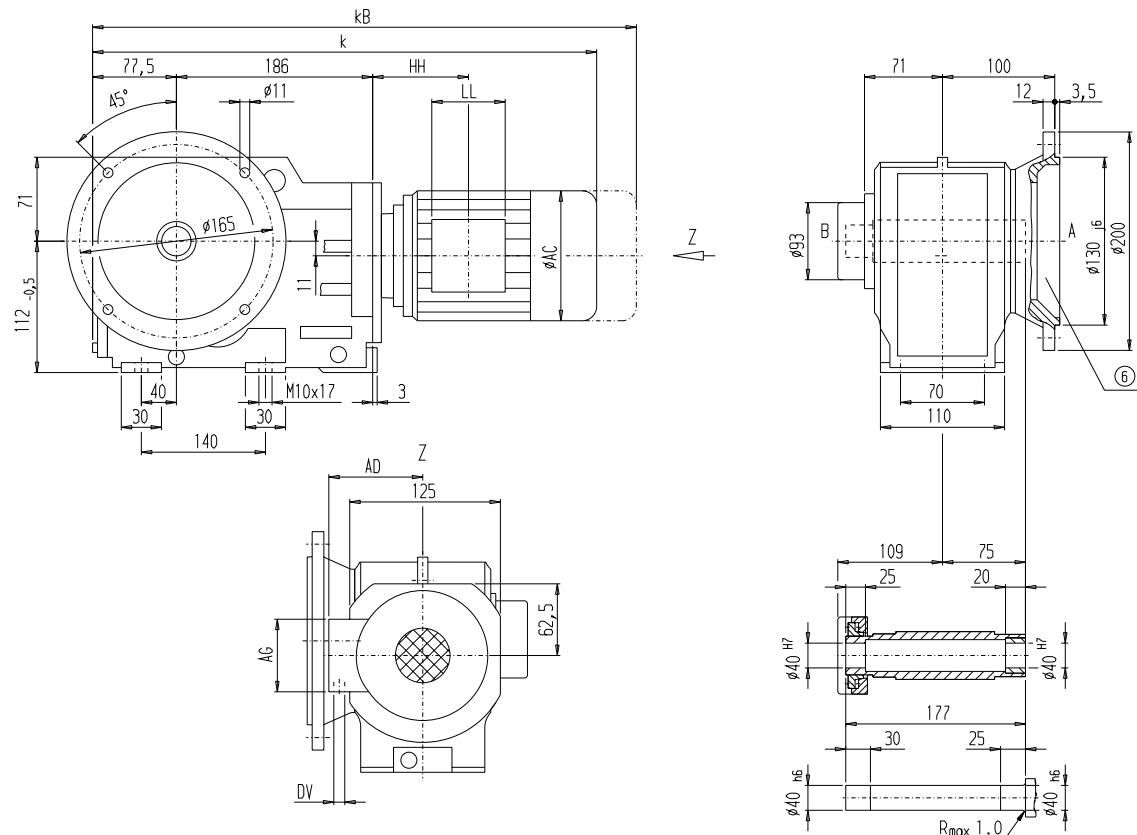
**KADS012**



Motor	KADS48									Weight KADS48
	k	kB	AC	AD	AG	LL	HH	DV		
LA71	522.0	577.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	24	
LA71Z	541.0	596.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	24	
LA80	559.0	622.5	156.5	155	90	90	114.0	M20x1.5/M25x2.5	29	
LA90S	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	34	
LA90L	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	34	
LA90ZL	635.0	706.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	37	
LA100L	636.0	717.0	195.0	168	120	120	154.5	2xM32x1.5	43	
LA112M	665.5	746.5	219.0	181	120	120	160.0	2xM32x1.5	54	

**Gear unit KAFS48 (three-stage), shaft-mounted design with flange and shrink disk**

KAFS012



4

Motor	KAFS48								Weight
	k	kB	AC	AD	AG	LL	HH	DV	KAFS48
LA71	522.0	577.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	26
LA71Z	541.0	596.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	26
LA80	559.0	622.5	156.5	155	90	90	114.0	M20x1.5/M25x2.5	31
LA90S	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	35
LA90L	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	35
LA90ZL	635.0	706.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	38
LA100L	636.0	717.0	195.0	168	120	120	154.5	2xM32x1.5	44
LA112M	665.5	746.5	219.0	181	120	120	160.0	2xM32x1.5	55

<sup>⑥</sup> For note, see page 4/224

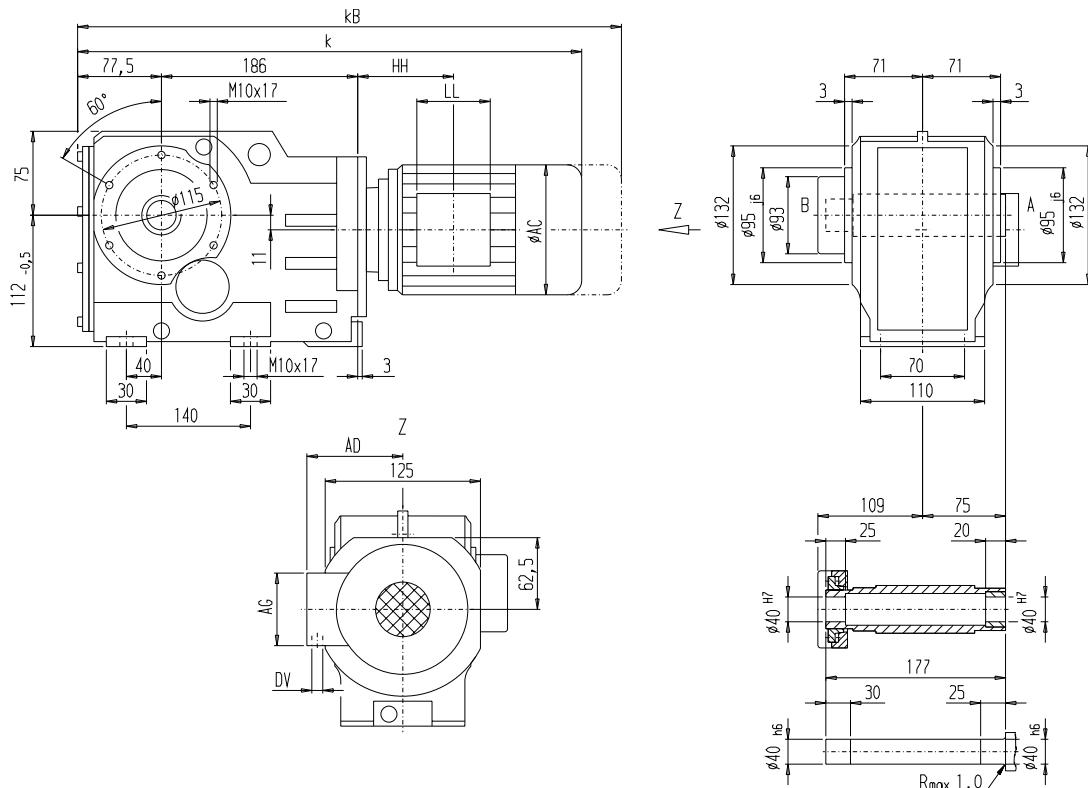
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZS48 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk

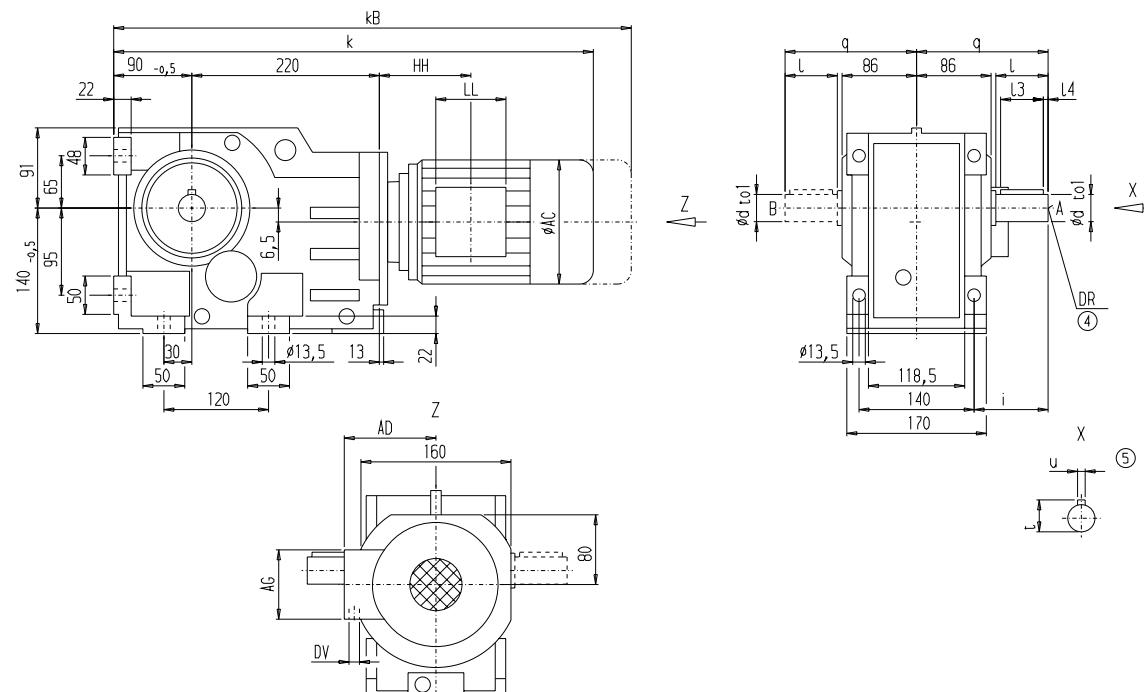
KAZS012



Motor	KAZS48								Weight KAZS48
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	522.0	577.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	23
LA71Z	541.0	596.0	139.0	146	90	90	114.5	M20x1.5/M25x2.5	23
LA80	559.0	622.5	156.5	155	90	90	114.0	M20x1.5/M25x2.5	28
LA90S	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	33
LA90L	590.0	661.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	33
LA90ZL	635.0	706.0	174.0	163	90	90	114.0	M20x1.5/M25x2.5	36
LA100L	636.0	717.0	195.0	168	120	120	154.5	2xM32x1.5	42
LA112M	665.5	746.5	219.0	181	120	120	160.0	2xM32x1.5	52

Gear unit K68 (three-stage), housing-flange-mounted design (C-type)

K012



4

d	to1	I	I3	I4	t	u	i	q	DR
40*	k6	80	70	5	43.0	12	100	170	
35	k6	100	80	10	53.5	14	120	190	M16x36

\*) Preferred series

Motor	K68								Weight K68
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	563	618.0	139.0	146	90	90	109.0	M20x1.5/M25x2.5	44
LA71Z	582	637.0	139.0	146	90	90	109.0	M20x1.5/M25x2.5	44
LA80	600	663.5	156.5	155	90	90	108.5	M20x1.5/M25x2.5	49
LA90S	631	702.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	53
LA90L	631	702.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	53
LA90ZL	676	747.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	56
LA100L	677	758.0	195.0	168	120	120	149.0	2xM32x1.5	62
LA112M	706	787.0	219.0	181	120	120	154.0	2xM32x1.5	74
LA132S	768	870.0	259.0	195	140	140	196.5	2xM32x1.5	84
LA132M	768	870.0	259.0	195	140	140	196.5	2xM32x1.5	84
LA132ZM	814	916.0	259.0	195	140	140	196.5	2xM32x1.5	93

④ DIN 332

⑤ Parallel key / keyway DIN 6885

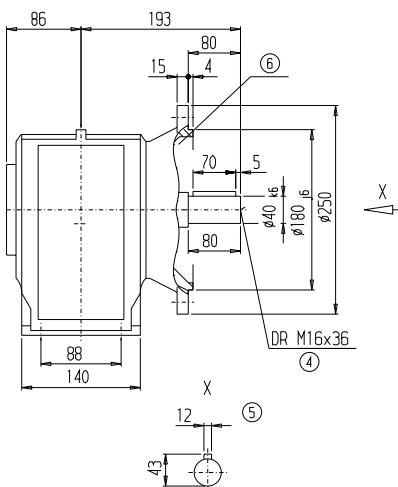
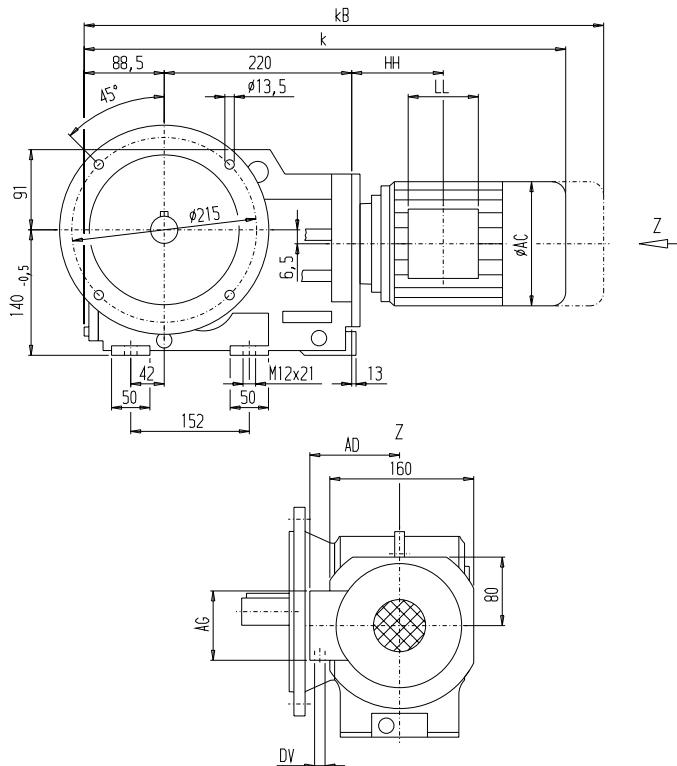
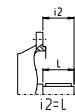
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KF68 (three-stage), flange-mounted design (A-type)

KF012



Motor	KF68								Weight KF68
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	561.5	616.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	49
LA71Z	580.5	635.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	49
LA80	598.5	662.0	156.5	155	90	90	108.5	M20x1.5/M25x2.5	54
LA90S	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	58
LA90L	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	58
LA90ZL	674.5	745.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	61
LA100L	675.5	756.5	195.0	168	120	120	149.0	2xM32x1.5	67
LA112M	704.5	785.5	219.0	181	120	120	154.0	2xM32x1.5	79
LA132S	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	89
LA132M	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	89
LA132ZM	812.5	914.5	259.0	195	140	140	196.5	2xM32x1.5	98

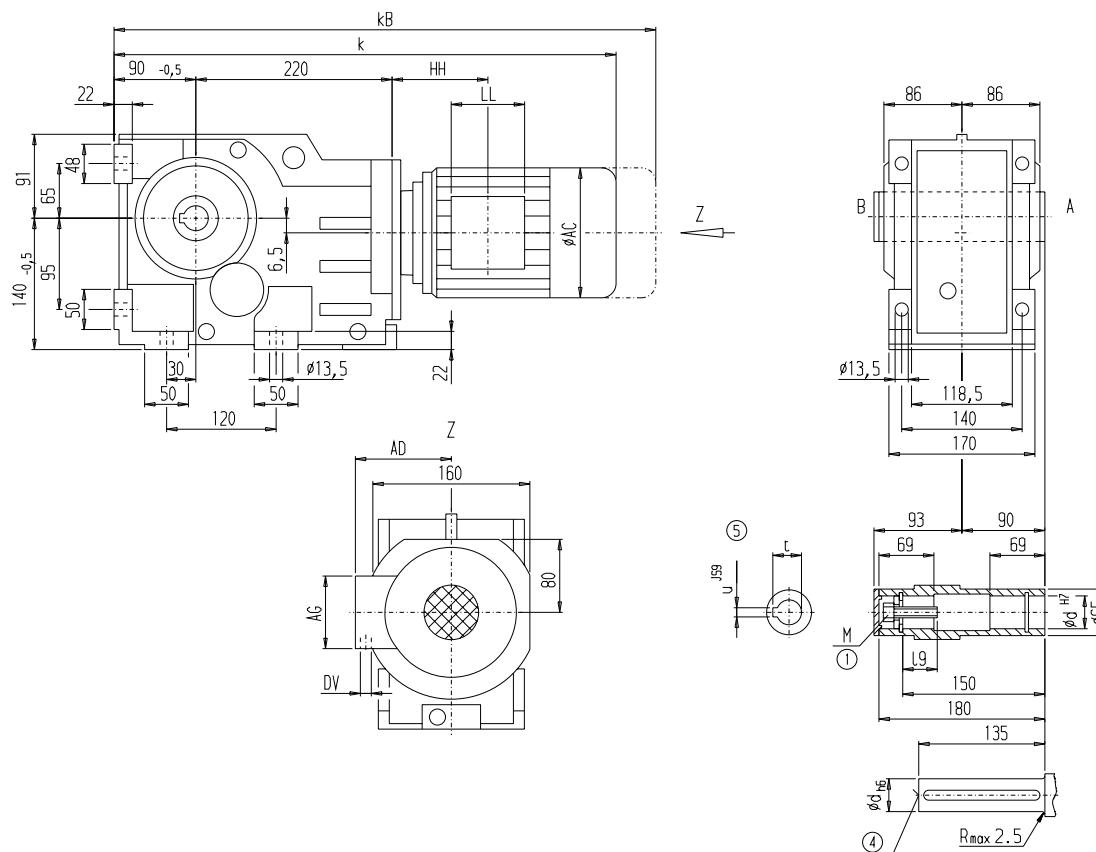
④ DIN 332

⑤ Parallel key / keyway DIN 6885

⑥ For note, see page 4/224

Gear unit KA68 (three-stage), housing-flange-mounted design (C-type)

KA012



d	I9	M	t	u
45*	47	M16	48.8	14
40	48	M16	43.3	12

\*) Preferred series

Motor	KA68								Weight KA68
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	563	618.0	139.0	146	90	90	109.0	M20x1.5/M25x2.5	40
LA71Z	582	637.0	139.0	146	90	90	109.0	M20x1.5/M25x2.5	40
LA80	600	663.5	156.5	155	90	90	108.5	M20x1.5/M25x2.5	45
LA90S	631	702.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	50
LA90L	631	702.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	50
LA90ZL	676	747.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	53
LA100L	677	758.0	195.0	168	120	120	149.0	2xM32x1.5	59
LA112M	706	787.0	219.0	181	120	120	154.0	2xM32x1.5	70
LA132S	768	870.0	259.0	195	140	140	196.5	2xM32x1.5	80
LA132M	768	870.0	259.0	195	140	140	196.5	2xM32x1.5	80
LA132ZM	814	916.0	259.0	195	140	140	196.5	2xM32x1.5	90

④ DIN 332

⑤ Parallel key / keyway DIN 6885    ① DIN 6912

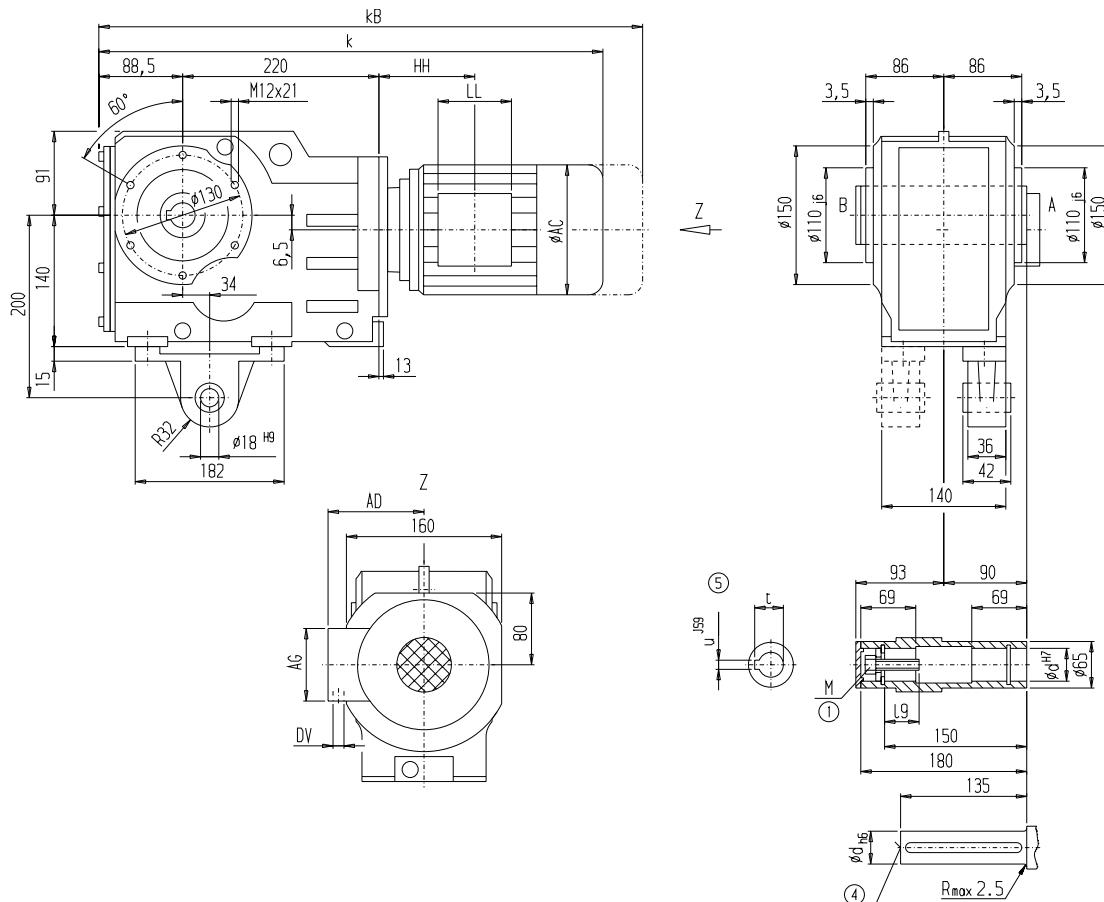
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAD68 (three-stage), shaft-mounted design with torque arm

KAD012



d	I9	M	t	u
45*	47	M16	48.8	14
40	48	M16	43.3	12

\*) Preferred series

Motor	KAD68								Weight KAD68
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	561.5	616.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	42
LA71Z	580.5	635.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	42
LA80	598.5	662.0	156.5	155	90	90	108.5	M20x1.5/M25x2.5	47
LA90S	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	52
LA90L	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	52
LA90ZL	674.5	745.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	55
LA100L	675.5	756.5	195.0	168	120	120	149.0	2xM32x1.5	61
LA112M	704.5	785.5	219.0	181	120	120	154.0	2xM32x1.5	72
LA132S	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	82
LA132M	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	82
LA132ZM	812.5	914.5	259.0	195	140	140	196.5	2xM32x1.5	92

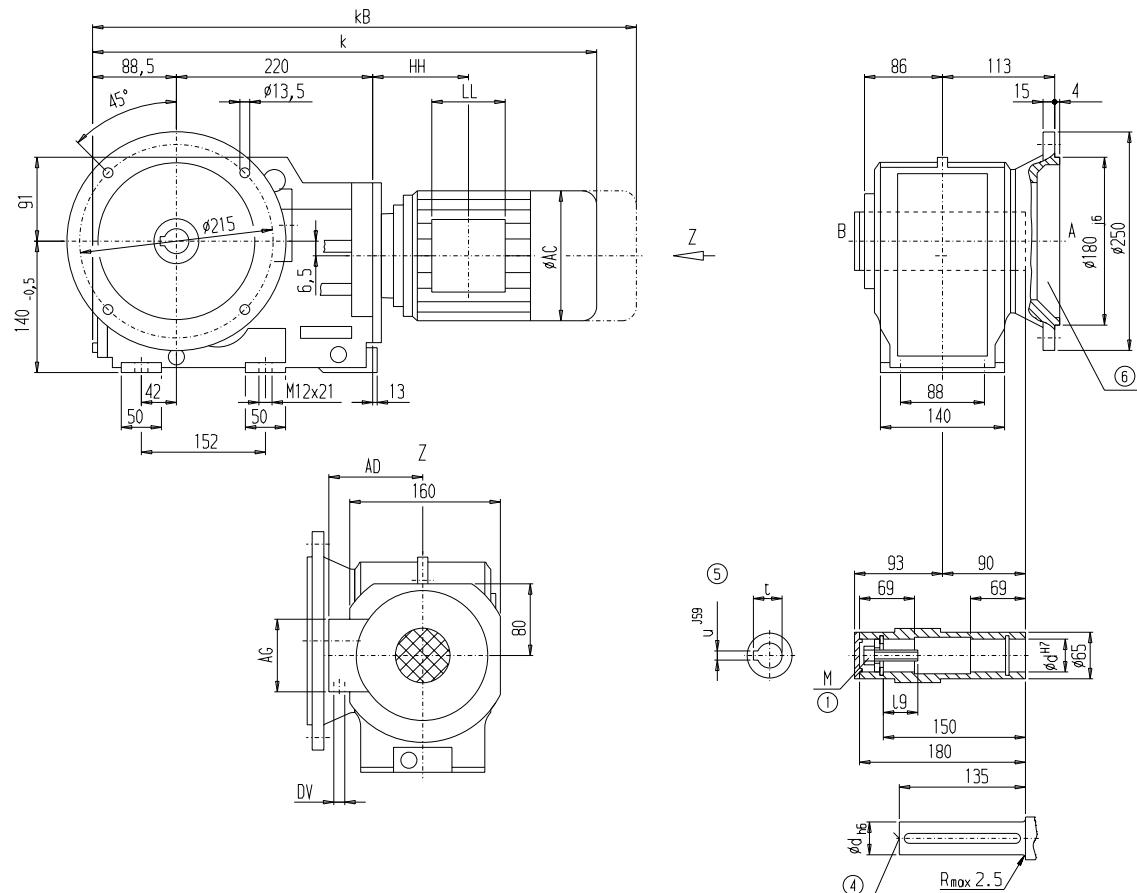
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

Gear unit KAF68 (three-stage), shaft-mounted design with flange

KAF012



d	I9	M	t	u
45*	47	M16	48.8	14
40	48	M16	43.3	12

\*) Preferred series

Motor	KAF68								Weight KAF68
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	561.5	616.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	45
LA71Z	580.5	635.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	45
LA80	598.5	662.0	156.5	155	90	90	108.5	M20x1.5/M25x2.5	50
LA90S	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	55
LA90L	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	55
LA90ZL	674.5	745.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	58
LA100L	675.5	756.5	195.0	168	120	120	149.0	2xM32x1.5	64
LA112M	704.5	785.5	219.0	181	120	120	154.0	2xM32x1.5	75
LA132S	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	85
LA132M	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	85
LA132ZM	812.5	914.5	259.0	195	140	140	196.5	2xM32x1.5	95

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

⑥ For note, see page 4/224

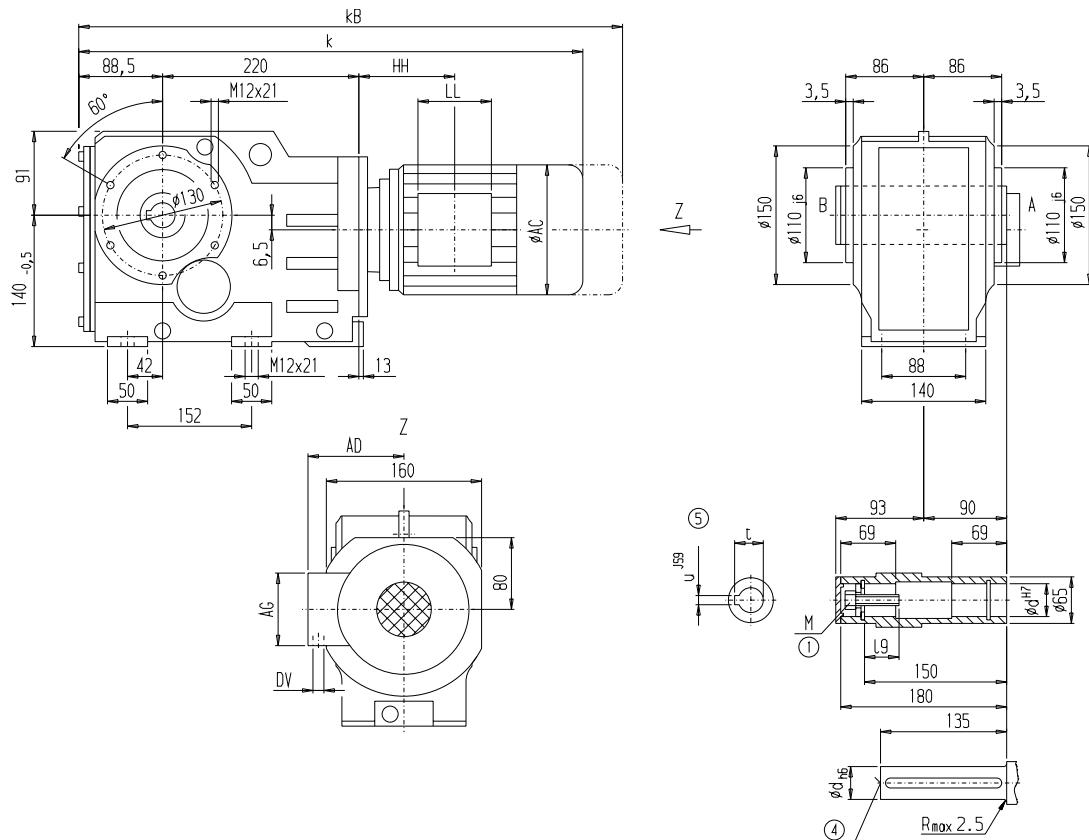
# Geared motors

## Bevel helical geared motors

## Dimensions

## **Gear unit KAZ68 (three-stage), shaft-mounted design with housing flange (C-type)**

KAZ012



d	l9	M	t	u
45*	47	M16	48.8	14
40	48	M16	43.3	12

\*) Preferred series

	KAZ68								Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAZ68
LA71	561.5	616.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	41
LA71Z	580.5	635.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	41
LA80	598.5	662.0	156.5	155	90	90	108.5	M20x1.5/M25x2.5	46
LA90S	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	50
LA90L	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	50
LA90ZL	674.5	745.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	53
LA100L	675.5	756.5	195.0	168	120	120	149.0	2xM32x1.5	59
LA112M	704.5	785.5	219.0	181	120	120	154.0	2xM32x1.5	71
LA132S	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	81
LA132M	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	81
LA132ZM	812.5	914.5	259.0	195	140	140	196.5	2xM32x1.5	90

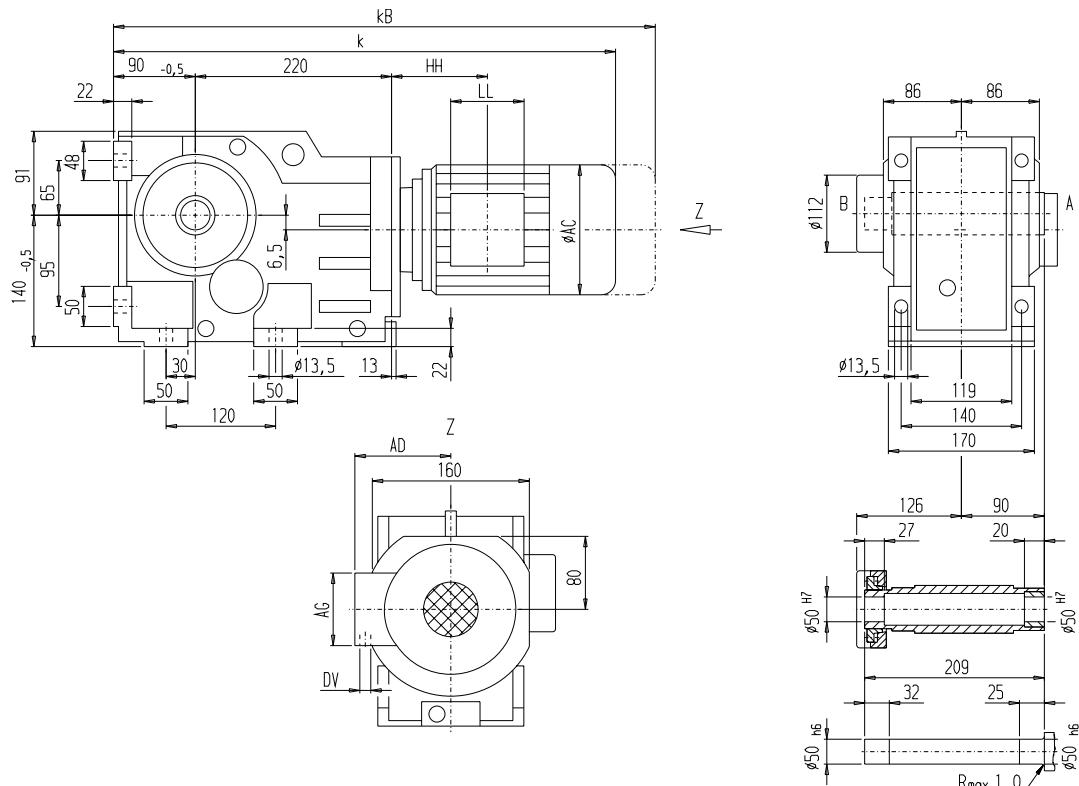
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① DIN 6912

Gear unit KAS68 (three-stage), shaft-mounted design with shrink disk

KAS012



Motor	KAS68								Weight KAS68
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	563	618.0	139.0	146	90	90	109.0	M20x1.5/M25x2.5	42
LA71Z	582	637.0	139.0	146	90	90	109.0	M20x1.5/M25x2.5	42
LA80	600	663.5	156.5	155	90	90	108.5	M20x1.5/M25x2.5	47
LA90S	631	702.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	51
LA90L	631	702.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	51
LA90ZL	676	747.0	174.0	163	90	90	108.5	M20x1.5/M25x2.5	54
LA100L	677	758.0	195.0	168	120	120	149.0	2xM32x1.5	60
LA112M	706	787.0	219.0	181	120	120	154.0	2xM32x1.5	72
LA132S	768	870.0	259.0	195	140	140	196.5	2xM32x1.5	82
LA132M	768	870.0	259.0	195	140	140	196.5	2xM32x1.5	82
LA132ZM	814	916.0	259.0	195	140	140	196.5	2xM32x1.5	91

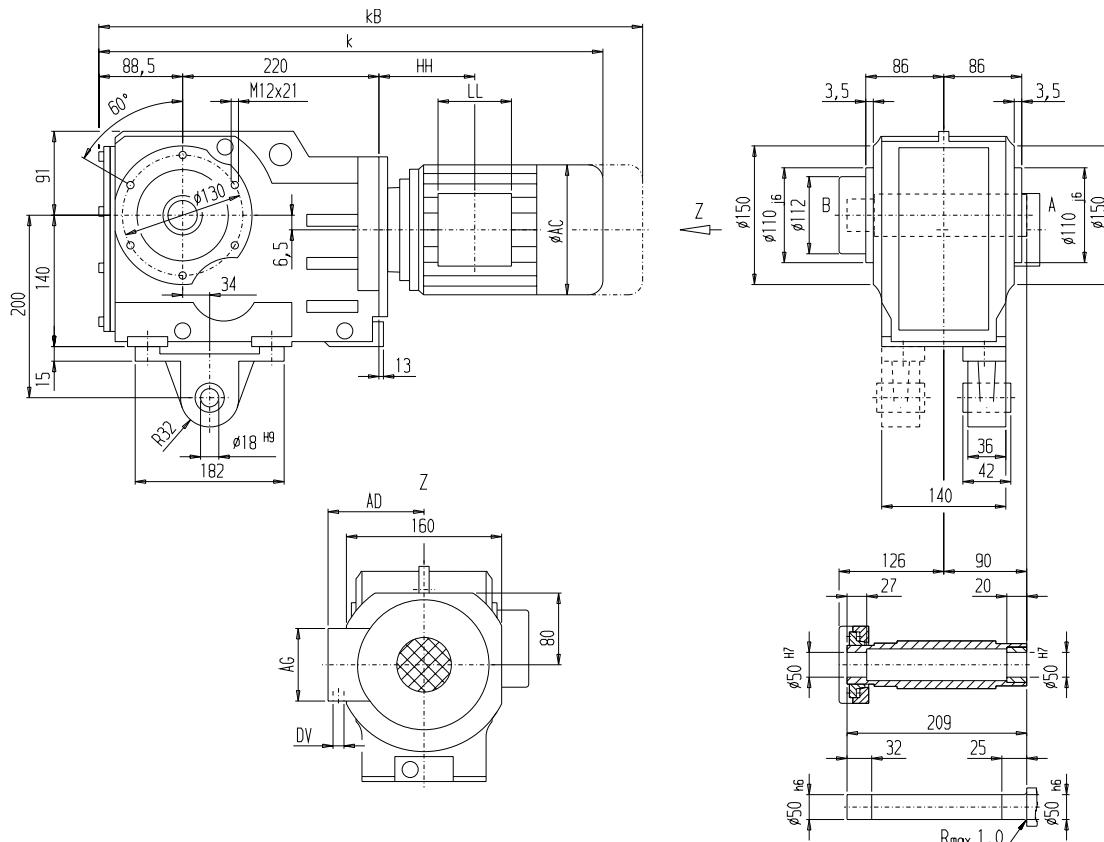
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KADS68 (three-stage), shaft-mounted design with torque arm and shrink disk

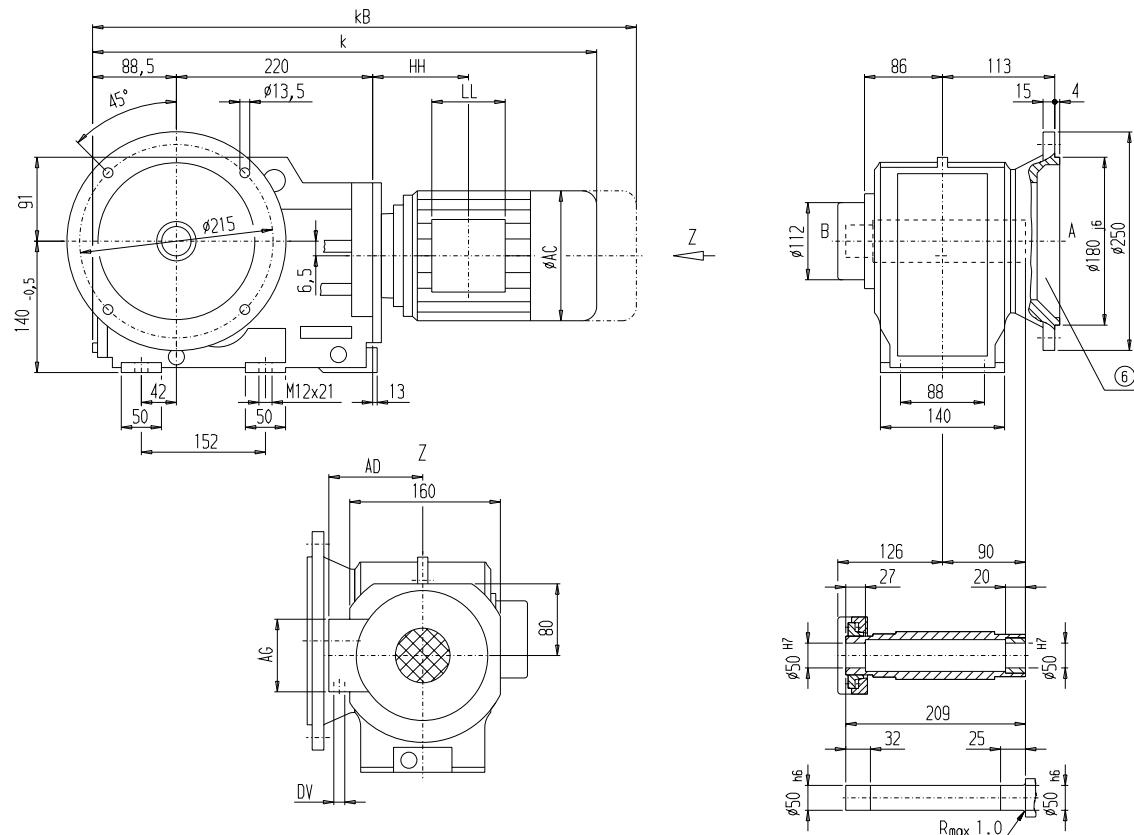
KADS012



Motor	k	kB	AC	AD	AG	LL	HH	DV	Weight KADS68
LA71	561.5	616.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	44
LA71Z	580.5	635.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	44
LA80	598.5	662.0	156.5	155	90	90	108.5	M20x1.5/M25x2.5	49
LA90S	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	53
LA90L	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	53
LA90ZL	674.5	745.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	56
LA100L	675.5	756.5	195.0	168	120	120	149.0	2xM32x1.5	62
LA112M	704.5	785.5	219.0	181	120	120	154.0	2xM32x1.5	74
LA132S	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	84
LA132M	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	84
LA132ZM	812.5	914.5	259.0	195	140	140	196.5	2xM32x1.5	93

Gear unit KAFS68 (three-stage), shaft-mounted design with flange and shrink disk

KAFS012



4

Motor	KAFS68									Weight KAFS68
	k	kB	AC	AD	AG	LL	HH	DV		
LA71	561.5	616.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	47	
LA71Z	580.5	635.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	47	
LA80	598.5	662.0	156.5	155	90	90	108.5	M20x1.5/M25x2.5	52	
LA90S	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	56	
LA90L	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	56	
LA90ZL	674.5	745.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	59	
LA100L	675.5	756.5	195.0	168	120	120	149.0	2xM32x1.5	65	
LA112M	704.5	785.5	219.0	181	120	120	154.0	2xM32x1.5	77	
LA132S	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	87	
LA132M	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	87	
LA132ZM	812.5	914.5	259.0	195	140	140	196.5	2xM32x1.5	96	

⑥ For note, see page 4/224

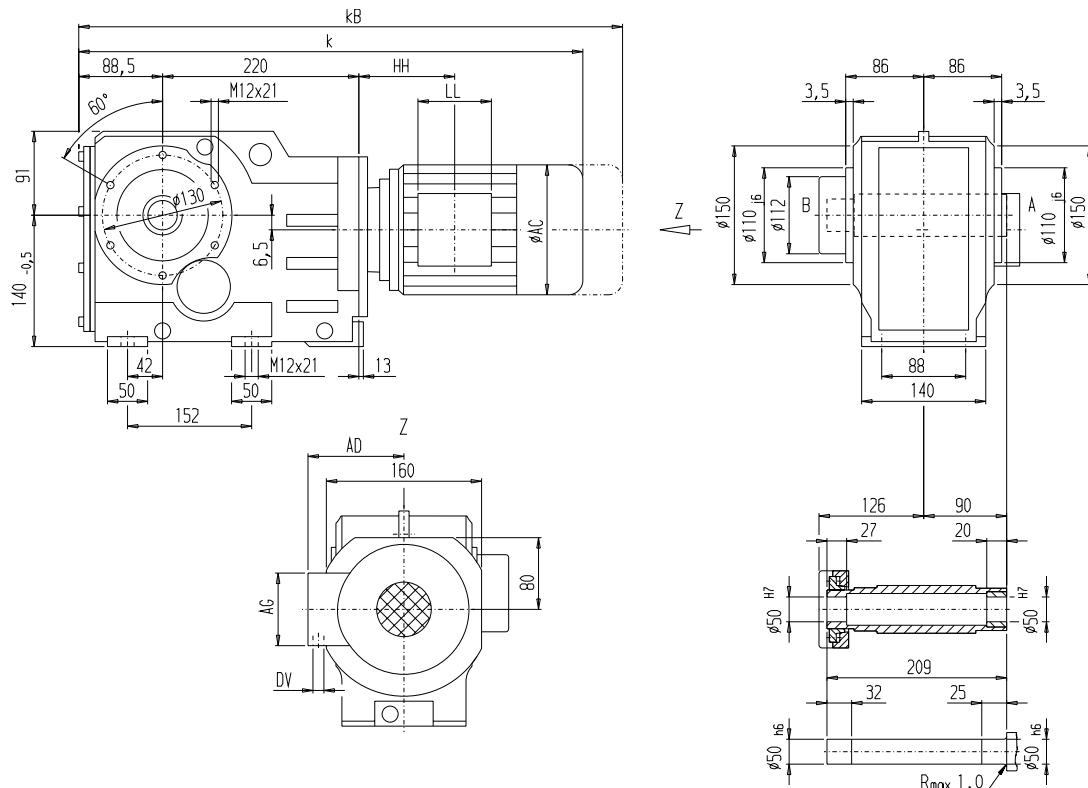
# Geared motors

## Bevel helical geared motors

### Dimensions

Gear unit KAZS68 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk

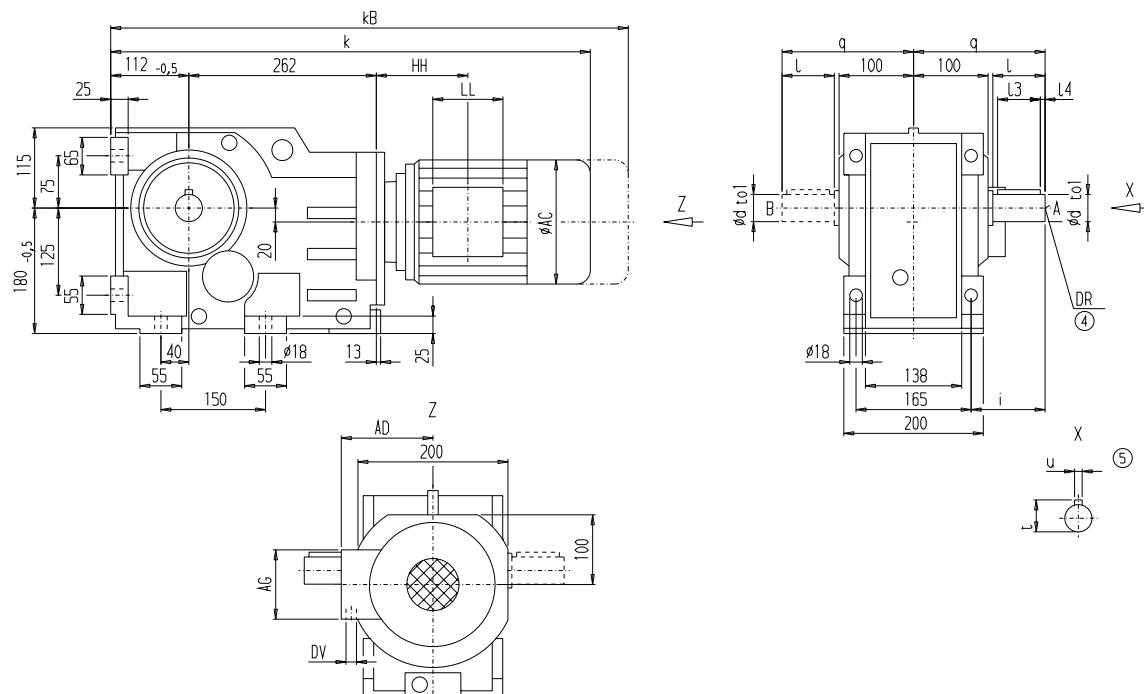
KAZS012



Motor	KAZS68								Weight KAZS68
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	561.5	616.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	42
LA71Z	580.5	635.5	139.0	146	90	90	109.0	M20x1.5/M25x2.5	42
LA80	598.5	662.0	156.5	155	90	90	108.5	M20x1.5/M25x2.5	47
LA90S	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	52
LA90L	629.5	700.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	52
LA90ZL	674.5	745.5	174.0	163	90	90	108.5	M20x1.5/M25x2.5	54
LA100L	675.5	756.5	195.0	168	120	120	149.0	2xM32x1.5	61
LA112M	704.5	785.5	219.0	181	120	120	154.0	2xM32x1.5	72
LA132S	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	82
LA132M	766.5	868.5	259.0	195	140	140	196.5	2xM32x1.5	82
LA132ZM	812.5	914.5	259.0	195	140	140	196.5	2xM32x1.5	91

Gear unit K88 (three-stage), housing-flange-mounted design (C-type)

K012



4

d	to1	I	I3	I4	t	u	i	q	DR
50	k6	100	80	10	53.5	14	122.5	205	M16x36
70*	m6	140	110	15	74.5	20	162.5	245	M20x42

\*) Preferred series

Motor	K88									Weight
	k	kB	AC	AD	AG	LL	HH	DV	K88	
LA71	621.0	676.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	73	
LA71Z	640.0	695.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	73	
LA80	658.0	721.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	78	
LA90S	689.0	760.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	83	
LA90L	689.0	760.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	83	
LA90ZL	734.0	805.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	86	
LA100L	735.0	816.0	195.0	168	120	120	143.0	2xM32x1.5	92	
LA112M	762.0	843.0	219.0	181	120	120	146.0	2xM32x1.5	104	
LA132S	822.0	924.0	259.0	195	140	140	186.5	2xM32x1.5	117	
LA132M	822.0	924.0	259.0	195	140	140	186.5	2xM32x1.5	117	
LA132ZM	868.0	970.0	259.0	195	140	140	186.5	2xM32x1.5	126	
LA160M	924.5	1043.0	313.5	227	165	165	212.0	2xM40x1.5	149	
LA160L	924.5	1043.0	313.5	227	165	165	212.0	2xM40x1.5	149	

④ DIN 332

⑤ Parallel key / keyway DIN 6885

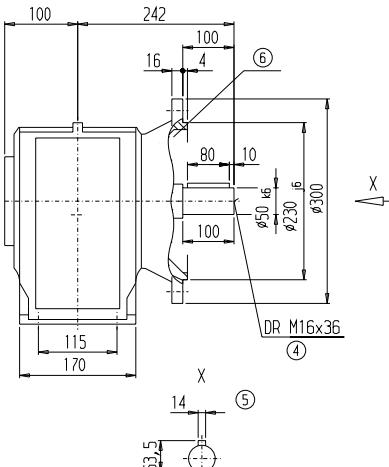
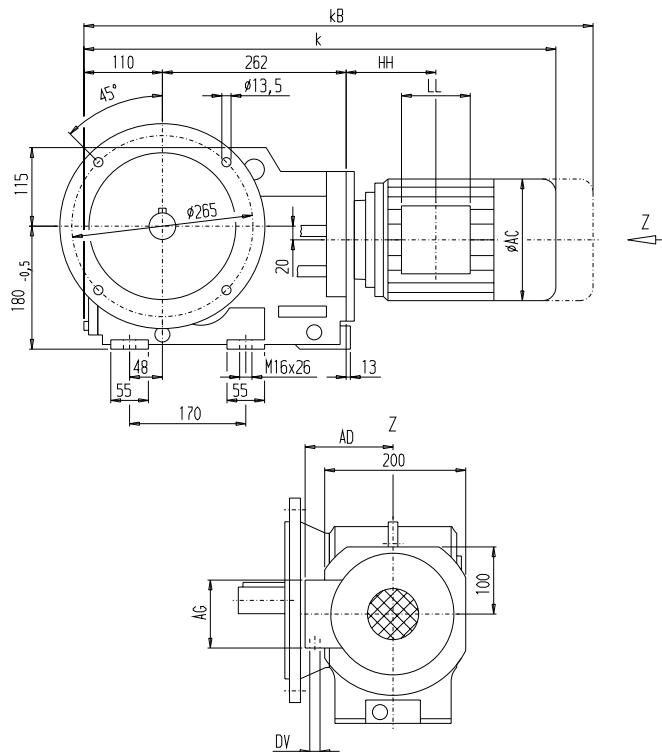
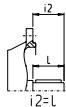
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KF88 (three-stage), flange-mounted design (A-type)

**KF012**



Motor	KF88								Weight KF88
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	619.0	674.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	80
LA71Z	638.0	693.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	80
LA80	656.0	719.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	85
LA90S	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	89
LA90L	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	89
LA90ZL	732.0	803.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	92
LA100L	733.0	814.0	195.0	168	120	120	143.0	2xM32x1.5	99
LA112M	760.0	841.0	219.0	181	120	120	146.0	2xM32x1.5	110
LA132S	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	123
LA132M	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	123
LA132ZM	866.0	968.0	259.0	195	140	140	186.5	2xM32x1.5	132
LA160M	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	156
LA160L	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	156

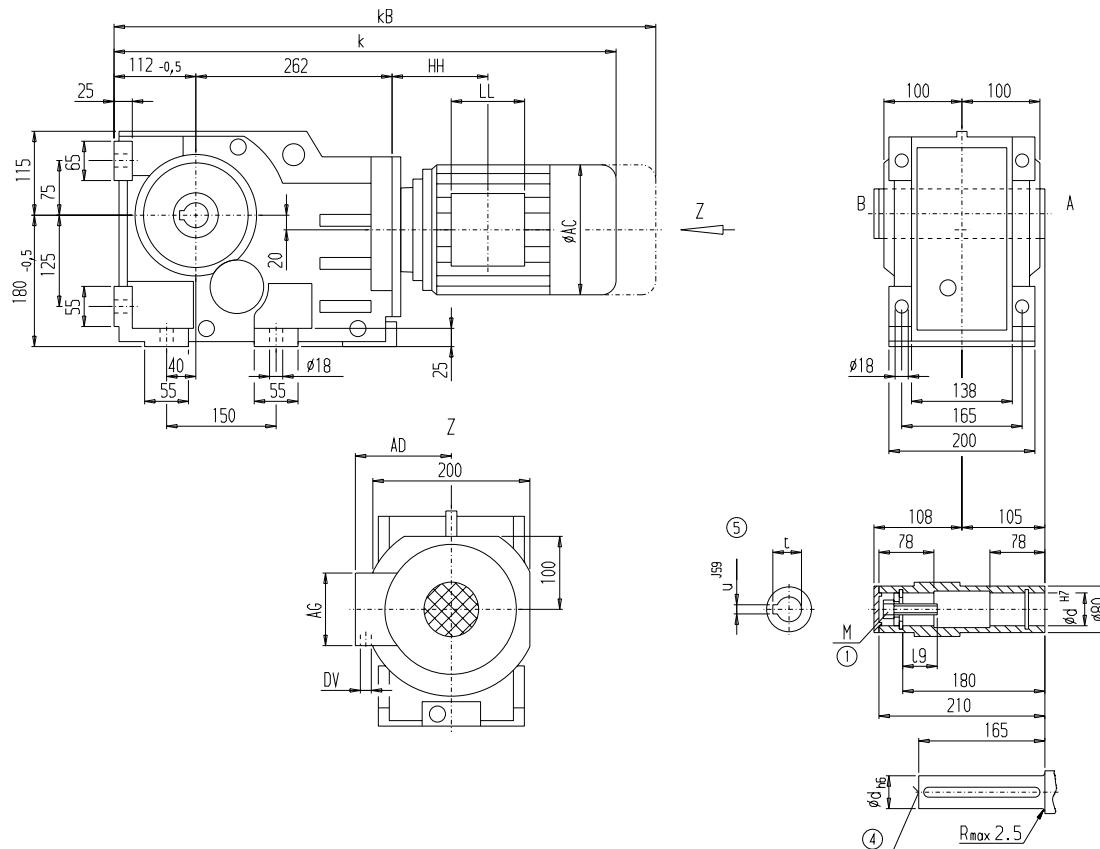
④ DIN 332

⑤ Parallel key / keyway DIN 6885

⑥ For note, see page 4/224

Gear unit KA88 (three-stage), housing-flange-mounted design (C-type)

KA012



d	l9	M	t	u
60*	54.0	M20	64.4	18
50	44.5	M16	53.8	14

\*) Preferred series

Motor	KA88									Weight
	k	kB	AC	AD	AG	LL	HH	DV	KA88	
LA71	621.0	676.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	65	
LA71Z	640.0	695.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	65	
LA80	658.0	721.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	70	
LA90S	689.0	760.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	75	
LA90L	689.0	760.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	75	
LA90ZL	734.0	805.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	78	
LA100L	735.0	816.0	195.0	168	120	120	143.0	2xM32x1.5	84	
LA112M	762.0	843.0	219.0	181	120	120	146.0	2xM32x1.5	96	
LA132S	822.0	924.0	259.0	195	140	140	186.5	2xM32x1.5	109	
LA132M	822.0	924.0	259.0	195	140	140	186.5	2xM32x1.5	109	
LA132ZM	868.0	970.0	259.0	195	140	140	186.5	2xM32x1.5	118	
LA160M	924.5	1043.0	313.5	227	165	165	212.0	2xM40x1.5	141	
LA160L	924.5	1043.0	313.5	227	165	165	212.0	2xM40x1.5	141	

④ DIN 332

⑤ Parallel key / keyway DIN 6885    ① EN 24014

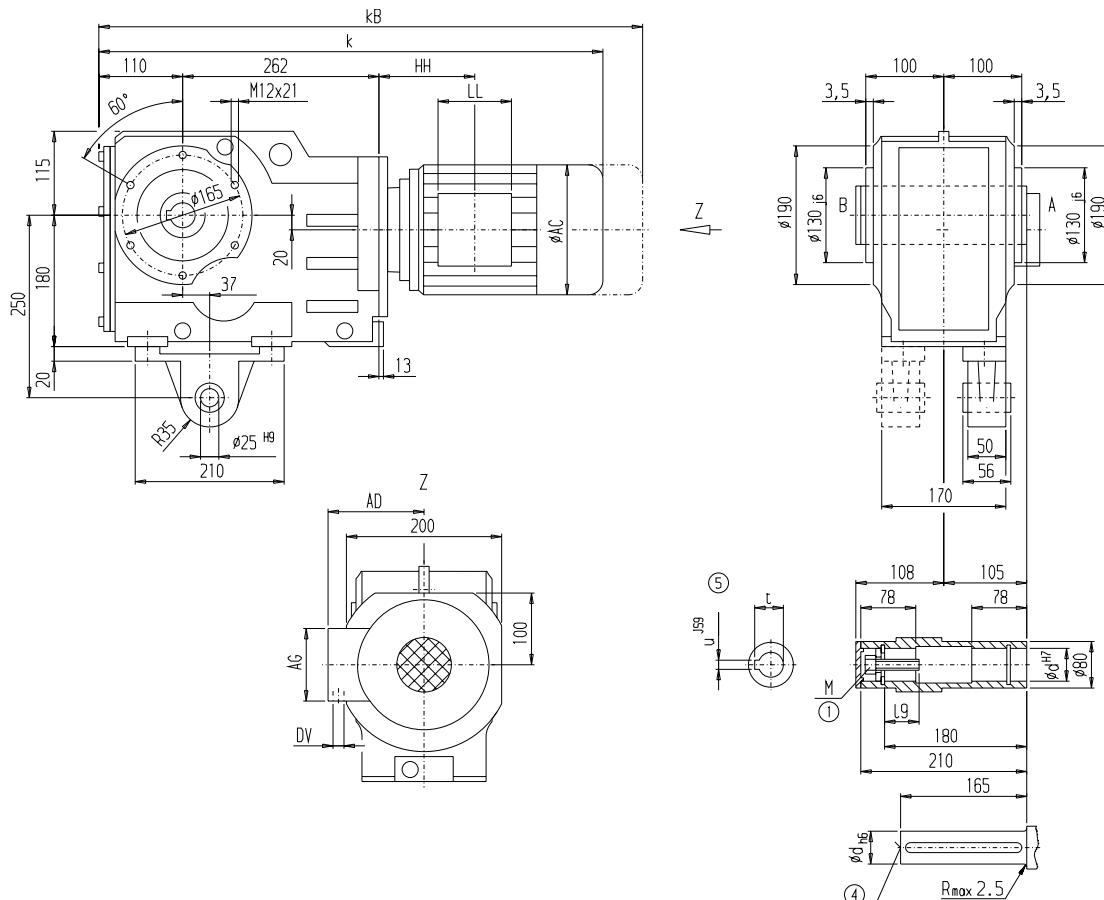
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAD88 (three-stage), shaft-mounted design with torque arm

KAD012



d	i9	M	t	u
60*	54.0	M20	64.4	18
50	44.5	M16	53.8	14

\*) Preferred series

KAD88										Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAD88	
LA71	619.0	674.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	68	
LA71Z	638.0	693.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	68	
LA80	656.0	719.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	73	
LA90S	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	77	
LA90L	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	77	
LA90ZL	732.0	803.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	80	
LA100L	733.0	814.0	195.0	168	120	120	143.0	2xM32x1.5	86	
LA112M	760.0	841.0	219.0	181	120	120	146.0	2xM32x1.5	98	
LA132S	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	111	
LA132M	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	111	
LA132ZM	866.0	968.0	259.0	195	140	140	186.5	2xM32x1.5	120	
LA160M	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	140	
LA160L	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	140	

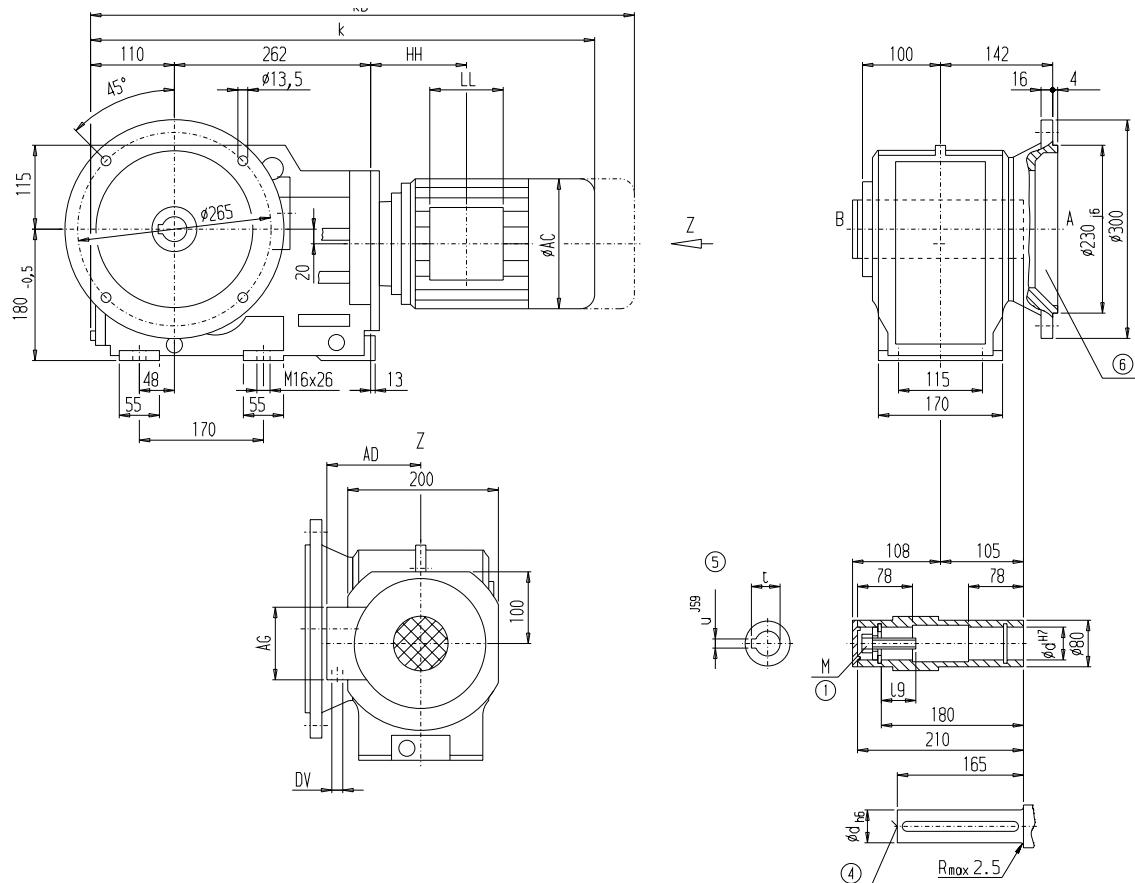
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① EN 24014

Gear unit KAF88 (three-stage), shaft-mounted design with flange

KAF012



d	l9	M	t	u
60*	54.0	M20	64.4	18
50	44.5	M16	53.8	14

\*) Preferred series

KAF88										Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAF88	
LA71	619.0	674.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	72	
LA71Z	638.0	693.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	72	
LA80	656.0	719.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	77	
LA90S	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	81	
LA90L	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	81	
LA90ZL	732.0	803.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	84	
LA100L	733.0	814.0	195.0	168	120	120	143.0	2xM32x1.5	90	
LA112M	760.0	841.0	219.0	181	120	120	146.0	2xM32x1.5	102	
LA132S	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	115	
LA132M	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	115	
LA132ZM	866.0	968.0	259.0	195	140	140	186.5	2xM32x1.5	124	
LA160M	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	148	
LA160L	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	148	

④ DIN 332

⑤ Parallel key / keyway DIN 6885

① EN 24014

⑥ For note, see page 4/224

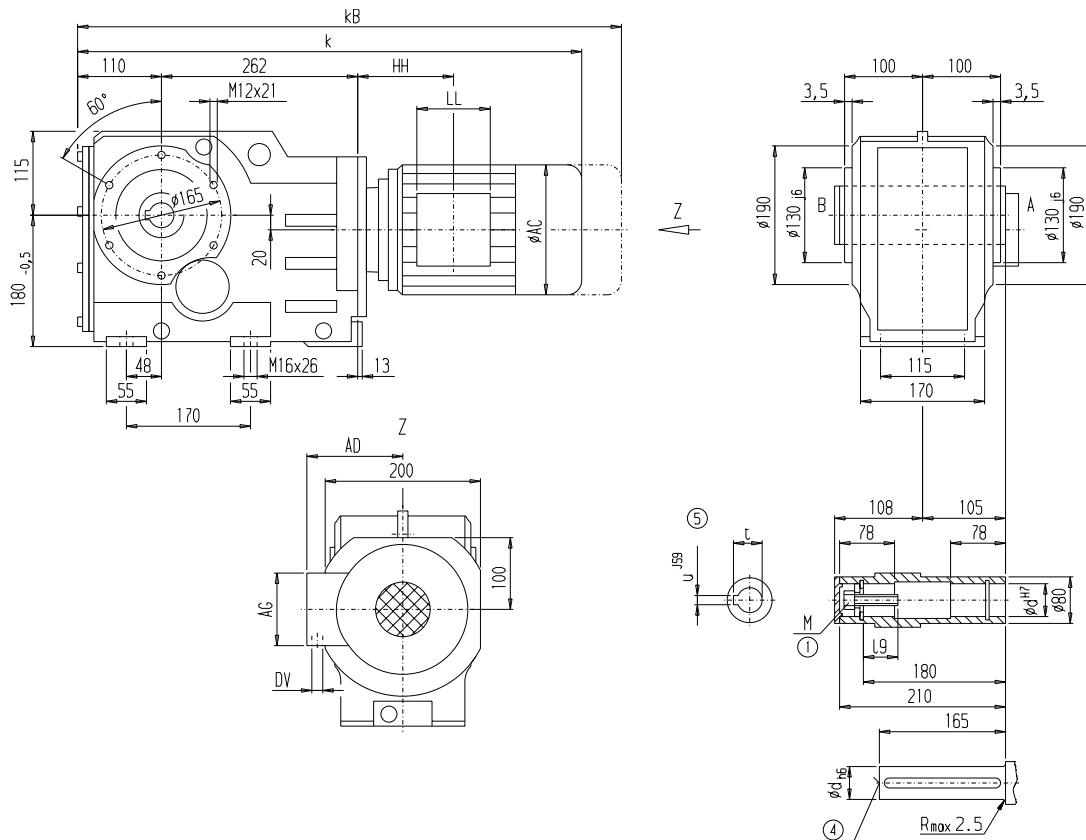
# Geared motors

## Bevel helical geared motors

## Dimensions

## **Gear unit KAZ88 (three-stage), shaft-mounted design with housing flange (C-type)**

KAZ012



d	I9	M	t	u
60*	54.0	M20	64.4	18
50	44.5	M16	53.8	14

\*) Preferred series

KAZ88									Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAZ88
LA71	619.0	674.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	65
LA71Z	638.0	693.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	65
LA80	656.0	719.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	70
LA90S	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	74
LA90L	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	74
LA90ZL	732.0	803.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	77
LA100L	733.0	814.0	195.0	168	120	120	143.0	2xM32x1.5	84
LA112M	760.0	841.0	219.0	181	120	120	146.0	2xM32x1.5	95
LA132S	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	108
LA132M	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	108
LA132ZM	866.0	968.0	259.0	195	140	140	186.5	2xM32x1.5	117
LA160M	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	141
LA160L	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	141

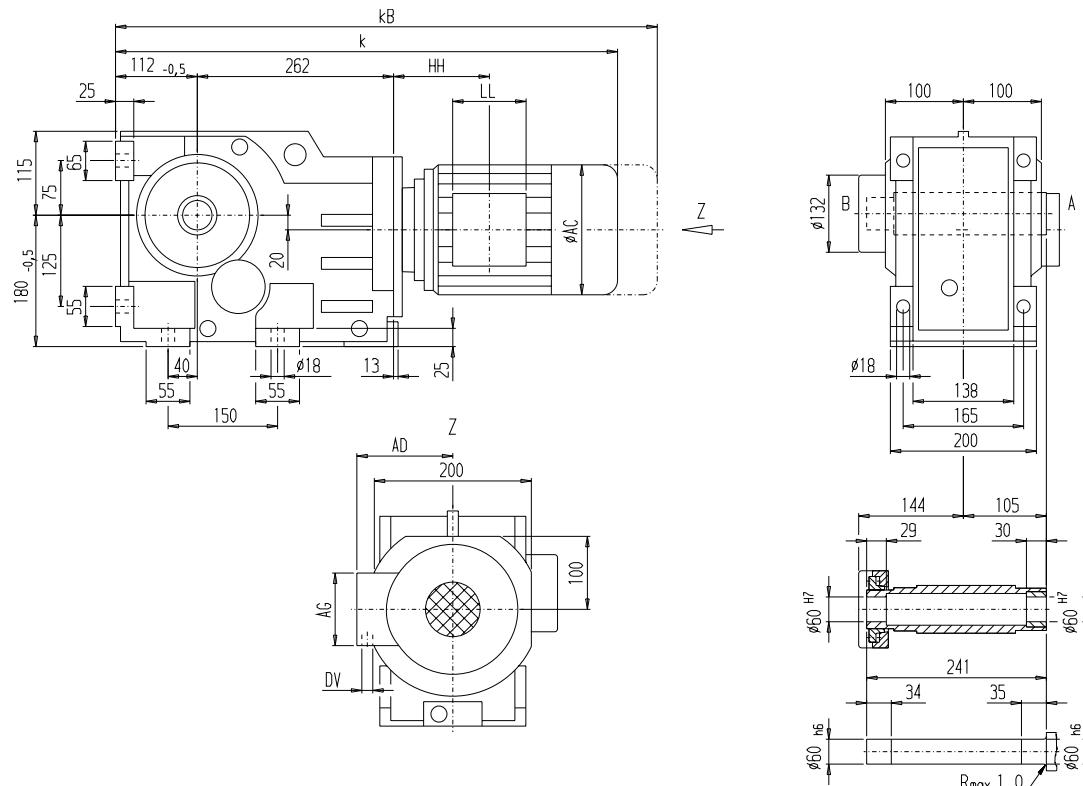
④ DIN 332

⑤ Parallel key / keyway DIN 6885

① EN 24014

Gear unit KAS88 (three-stage), shaft-mounted design with shrink disk

KAS012



Motor	KAS88								Weight
	k	kB	AC	AD	AG	LL	HH	DV	KAS88
LA71	621.0	676.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	67
LA71Z	640.0	695.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	67
LA80	658.0	721.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	72
LA90S	689.0	760.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	77
LA90L	689.0	760.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	77
LA90ZL	734.0	805.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	80
LA100L	735.0	816.0	195.0	168	120	120	143.0	2xM32x1.5	86
LA112M	762.0	843.0	219.0	181	120	120	146.0	2xM32x1.5	97
LA132S	822.0	924.0	259.0	195	140	140	186.5	2xM32x1.5	110
LA132M	822.0	924.0	259.0	195	140	140	186.5	2xM32x1.5	110
LA132ZM	868.0	970.0	259.0	195	140	140	186.5	2xM32x1.5	120
LA160M	924.5	1043.0	313.5	227	165	165	212.0	2xM40x1.5	143
LA160L	924.5	1043.0	313.5	227	165	165	212.0	2xM40x1.5	143

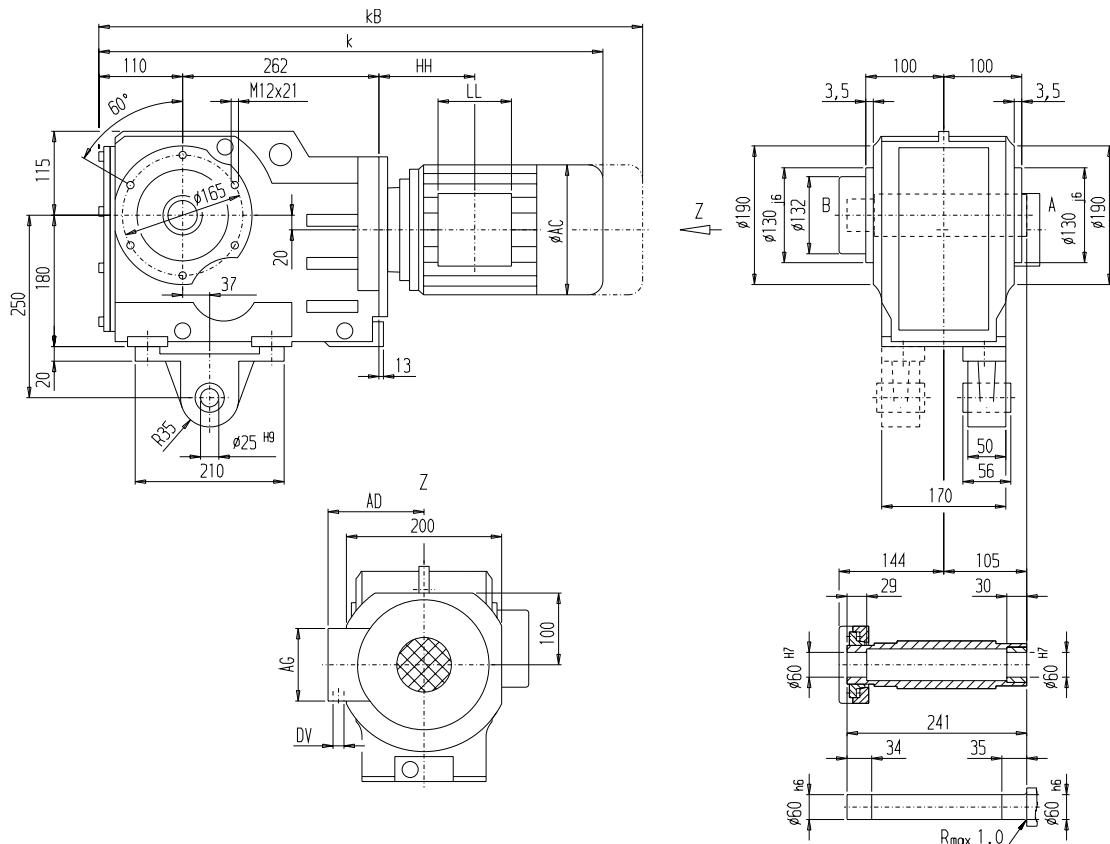
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KADS88 (three-stage), shaft-mounted design with torque arm and shrink disk

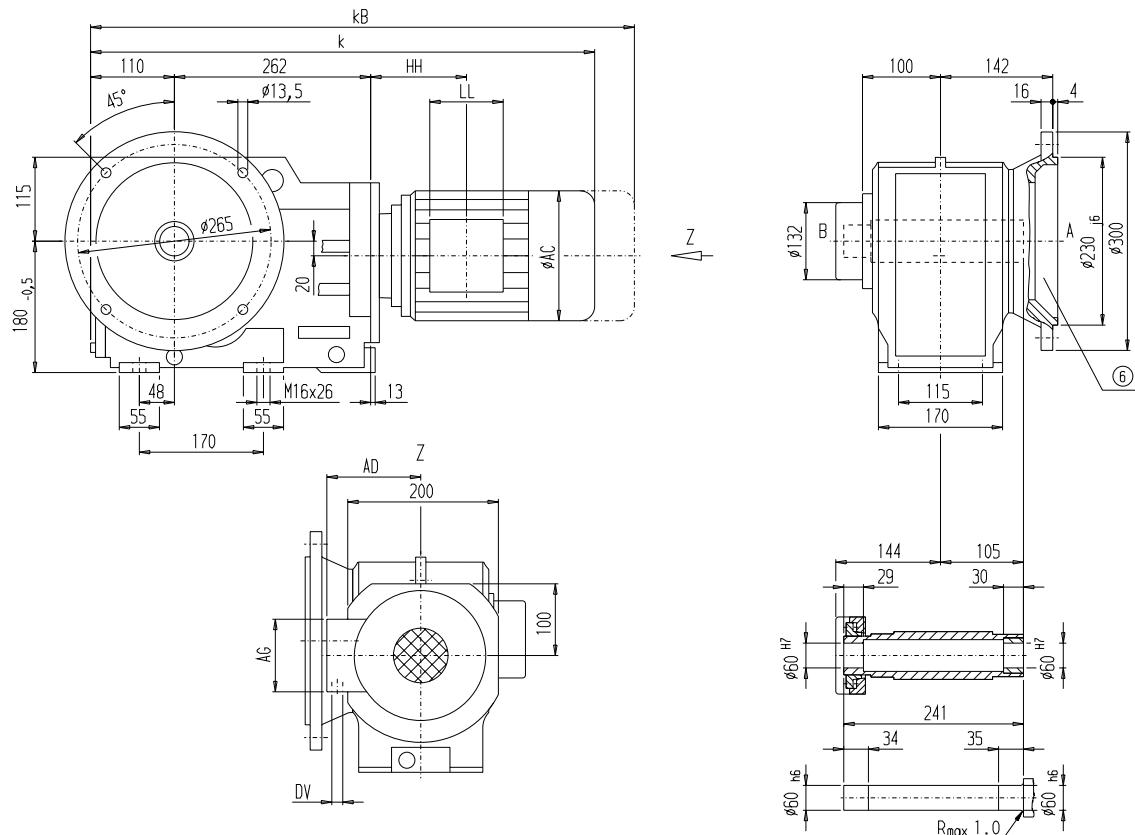
KADS012



Motor	KADS88								Weight KADS88
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	619.0	674.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	70
LA71Z	638.0	693.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	70
LA80	656.0	719.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	75
LA90S	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	79
LA90L	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	79
LA90ZL	732.0	803.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	82
LA100L	733.0	814.0	195.0	168	120	120	143.0	2xM32x1.5	88
LA112M	760.0	841.0	219.0	181	120	120	146.0	2xM32x1.5	100
LA132S	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	113
LA132M	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	113
LA132ZM	866.0	968.0	259.0	195	140	140	186.5	2xM32x1.5	122
LA160M	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	146
LA160L	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	146

Gear unit KAFS88 (three-stage), shaft-mounted design with flange and shrink disk

KAFS012



Motor	KAFS88								Weight
	k	kB	AC	AD	AG	LL	HH	DV	KAFS88
LA71	619.0	674.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	74
LA71Z	638.0	693.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	74
LA80	656.0	719.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	79
LA90S	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	83
LA90L	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	83
LA90ZL	732.0	803.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	86
LA100L	733.0	814.0	195.0	168	120	120	143.0	2xM32x1.5	92
LA112M	760.0	841.0	219.0	181	120	120	146.0	2xM32x1.5	104
LA132S	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	117
LA132M	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	117
LA132ZM	866.0	968.0	259.0	195	140	140	186.5	2xM32x1.5	126
LA160M	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	150
LA160L	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	150

④ DIN 332

⑤ Parallel key / keyway DIN 6885

⑥ For note, see page 4/224

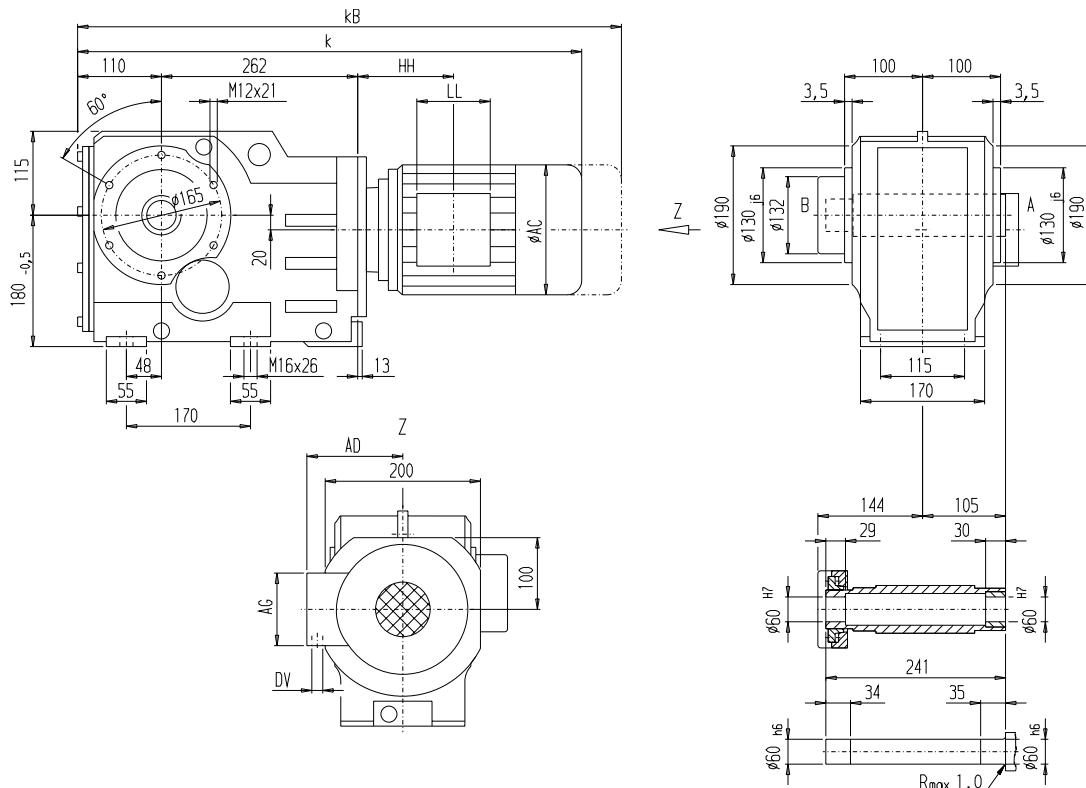
# Geared motors

## Bevel helical geared motors

### Dimensions

Gear unit KAZS88 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk

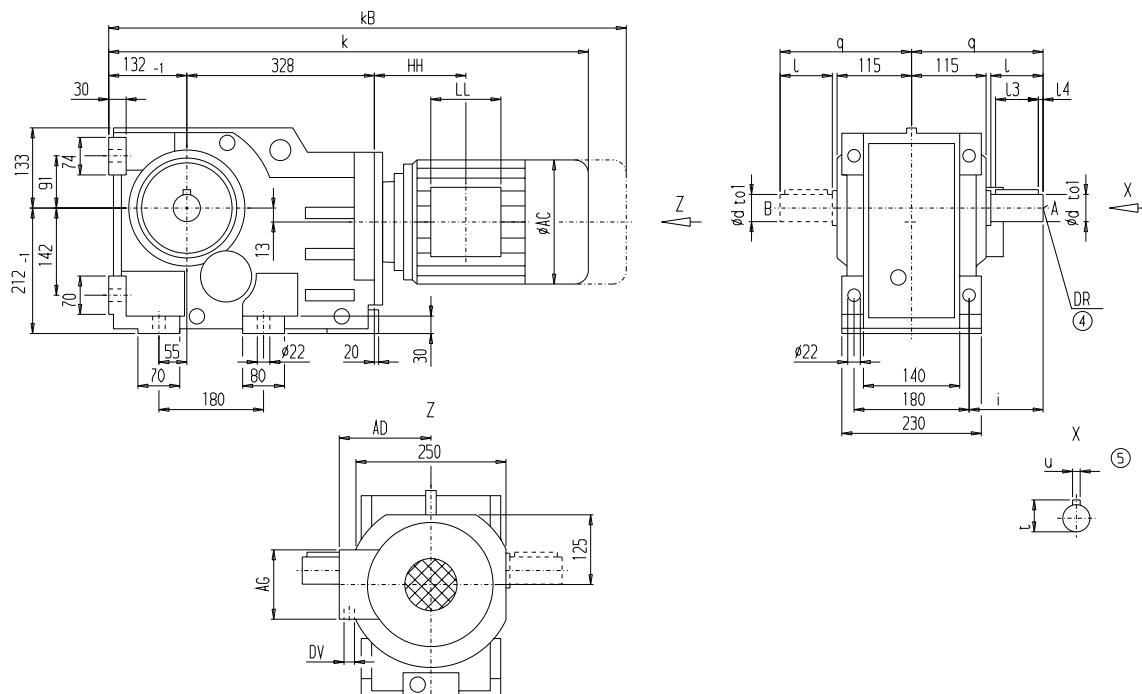
KAZS012



Motor	KAZS88								Weight KAZS88
	k	kB	AC	AD	AG	LL	HH	DV	
LA71	619.0	674.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	67
LA71Z	638.0	693.0	139.0	146	90	90	103.0	M20x1.5/M25x2.5	67
LA80	656.0	719.5	156.5	155	90	90	102.5	M20x1.5/M25x2.5	72
LA90S	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	76
LA90L	687.0	758.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	76
LA90ZL	732.0	803.0	174.0	163	90	90	102.5	M20x1.5/M25x2.5	79
LA100L	733.0	814.0	195.0	168	120	120	143.0	2xM32x1.5	85
LA112M	760.0	841.0	219.0	181	120	120	146.0	2xM32x1.5	97
LA132S	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	110
LA132M	820.0	922.0	259.0	195	140	140	186.5	2xM32x1.5	110
LA132ZM	866.0	968.0	259.0	195	140	140	186.5	2xM32x1.5	119
LA160M	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	143
LA160L	922.5	1041.0	313.5	227	165	165	212.0	2xM40x1.5	143

Gear unit K108 (three-stage), housing-flange-mounted design (C-type)

K012



d	to1	I	I3	I4	t	u	i	q	DR
60	m6	120	110	5	64	18	150	240	M20x42
80*	m6	170	125	20	85	22	200	290	

\*) Preferred series

Motor	K108								Weight
	k	kB	AC	AD	AG	LL	HH	DV	
LA80	729.0	792.5	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	133
LA90S	760.0	831.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	138
LA90L	760.0	831.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	138
LA90ZL	805.0	876.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	141
LA100L	803.5	884.5	195.0	168.0	120	120	125.5	2xM32x1.5	146
LA112M	829.5	910.5	219.0	181.0	120	120	127.5	2xM32x1.5	158
LA132S	889.5	991.5	259.0	195.0	140	140	168.0	2xM32x1.5	169
LA132M	889.5	991.5	259.0	195.0	140	140	168.0	2xM32x1.5	169
LA132ZM	935.5	1037.5	259.0	195.0	140	140	168.0	2xM32x1.5	179
LA160M	994.0	1112.5	313.5	227.0	165	165	195.5	2xM40x1.5	204
LA160L	994.0	1112.5	313.5	227.0	165	165	195.5	2xM40x1.5	204
LG180ZM	1104.5	1226.5	348.0	322.5	260	192	212.5	2xM40x1.5	326
LG180L	1053.5	1175.5	348.0	322.5	260	192	212.5	2xM40x1.5	296
LG180ZL	1104.5	1226.5	348.0	322.5	260	192	212.5	2xM40x1.5	326

④ DIN 332

⑤ Parallel key / keyway DIN 6885

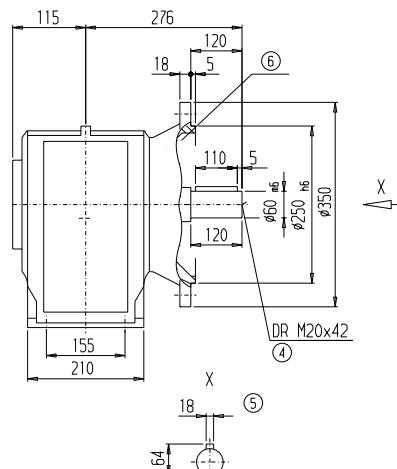
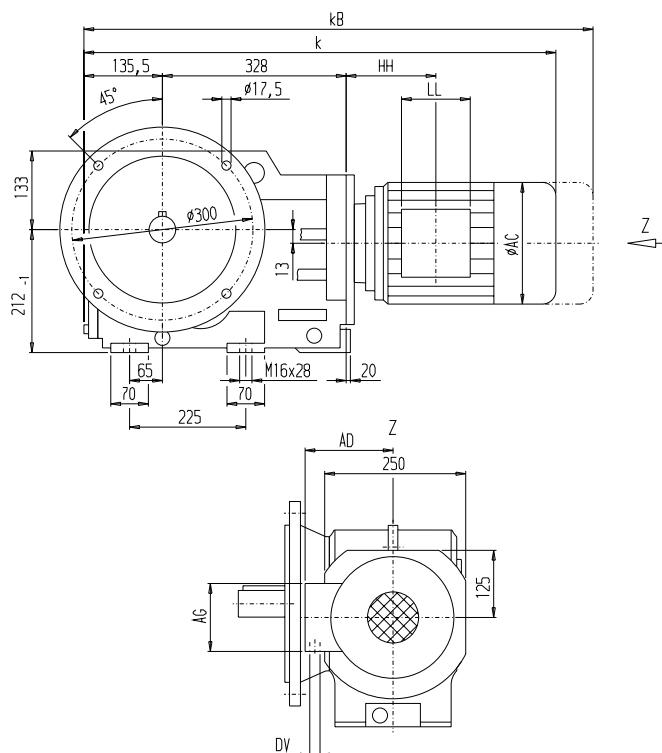
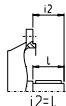
# Geared motors

## Bevel helical geared motors

## Dimensions

## Gear unit KF108 (three-stage), flange-mounted design (A-type)

KF012



	KF108								Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KF108
LA80	732.5	796.0	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	146
LA90S	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	151
LA90L	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	151
LA90ZL	808.5	879.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	154
LA100L	807.0	888.0	195.0	168.0	120	120	125.5	2xM32x1.5	159
LA112M	833.0	914.0	219.0	181.0	120	120	127.5	2xM32x1.5	171
LA132S	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	183
LA132M	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	183
LA132ZM	939.0	1041.0	259.0	195.0	140	140	168.0	2xM32x1.5	192
LA160M	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	217
LA160L	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	217
LG180ZM	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	339
LG180L	1057.0	1179.0	348.0	322.5	260	192	212.5	2xM40x1.5	309
LG180ZL	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	339

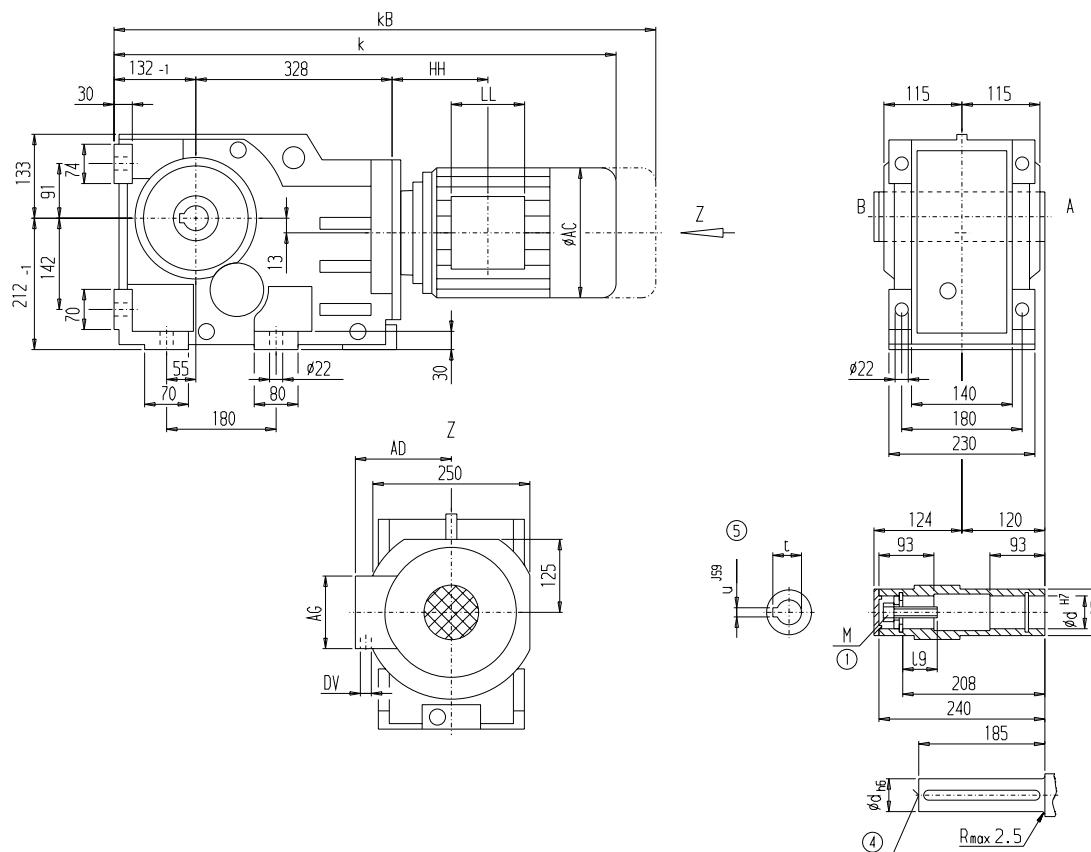
④ DIN 332

⑤ Parallel key / keyway DIN 6885

<sup>⑥</sup> For note, see page 4/224

Gear unit KA108 (three-stage), housing-flange-mounted design (C-type)

KA012



d	l9	M	t	u
70*	63.5	M20	74.9	20
60	64.0	M20	64.4	18

\*) Preferred series

KA108									Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KA108
LA80	729.0	792.5	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	120
LA90S	760.0	831.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	125
LA90L	760.0	831.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	125
LA90ZL	805.0	876.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	128
LA100L	803.5	884.5	195.0	168.0	120	120	125.5	2xM32x1.5	133
LA112M	829.5	910.5	219.0	181.0	120	120	127.5	2xM32x1.5	145
LA132S	889.5	991.5	259.0	195.0	140	140	168.0	2xM32x1.5	157
LA132M	889.5	991.5	259.0	195.0	140	140	168.0	2xM32x1.5	157
LA132ZM	935.5	1037.5	259.0	195.0	140	140	168.0	2xM32x1.5	166
LA160M	994.0	1112.5	313.5	227.0	165	165	195.5	2xM40x1.5	191
LA160L	994.0	1112.5	313.5	227.0	165	165	195.5	2xM40x1.5	191
LG180ZM	1104.5	1226.5	348.0	322.5	260	192	212.5	2xM40x1.5	313
LG180L	1053.5	1175.5	348.0	322.5	260	192	212.5	2xM40x1.5	283
LG180ZL	1104.5	1226.5	348.0	322.5	260	192	212.5	2xM40x1.5	313

④ DIN 332

⑤ Parallel key / keyway DIN 6885    ① EN 24014

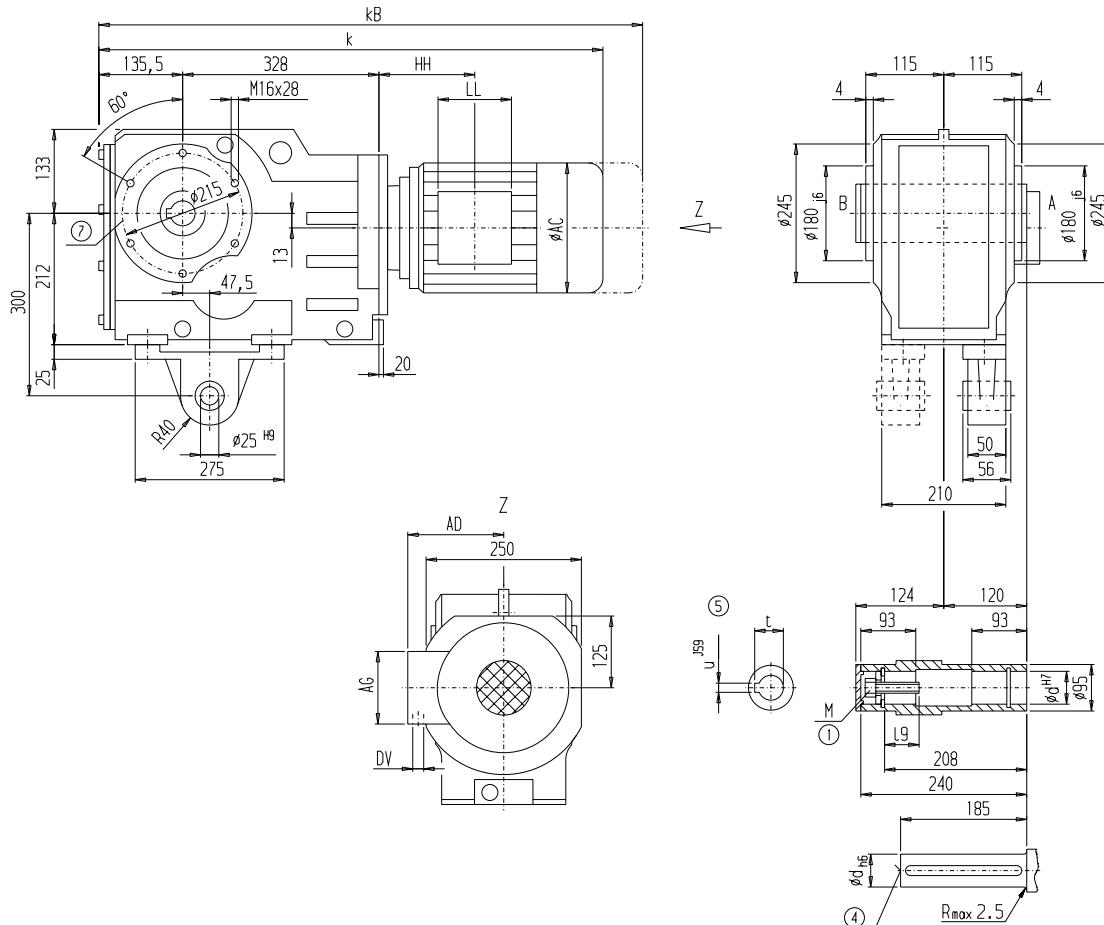
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAD108 (three-stage), shaft-mounted design with torque arm

**KAD012**



d	I9	M	t	u
<b>70*</b>	63.5	M20	74.9	20
<b>60</b>	64.0	M20	64.4	18

\*) Preferred series

Motor	KAD108								Weight KAD108
	k	kB	AC	AD	AG	LL	HH	DV	
LA80	732.5	796.0	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	128
LA90S	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	133
LA90L	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	133
LA90ZL	808.5	879.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	136
LA100L	807.0	888.0	195.0	168.0	120	120	125.5	2xM32x1.5	141
LA112M	833.0	914.0	219.0	181.0	120	120	127.5	2xM32x1.5	153
LA132S	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	164
LA132M	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	164
LA132ZM	939.0	1041.0	259.0	195.0	140	140	168.0	2xM32x1.5	174
LA160M	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	199
LA160L	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	199
LG180ZM	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	321
LG180L	1057.0	1179.0	348.0	322.5	260	192	212.5	2xM40x1.5	291
LG180ZL	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	321

④ DIN 332

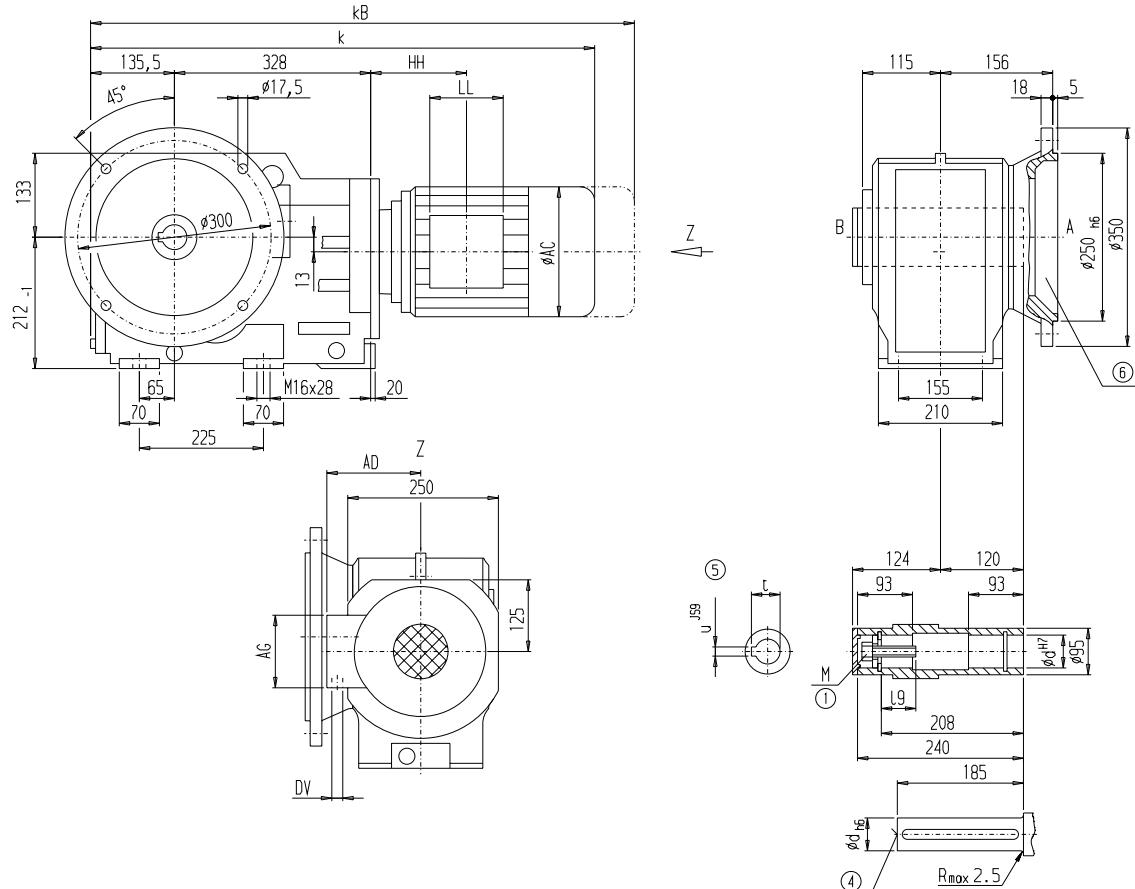
⑤ Parallel key / keyway DIN 6885

① EN 24014

⑦ For note, see page 4/225

## Gear unit KAF108 (three-stage), shaft-mounted design with flange

KAF012



d	l9	M	t	u
70*	63.5	M20	74.9	20
60	64.0	M20	64.4	18

\*) Preferred series

	KAF108								Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAF108
LA80	732.5	796.0	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	133
LA90S	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	137
LA90L	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	137
LA90ZL	808.5	879.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	140
LA100L	807.0	888.0	195.0	168.0	120	120	125.5	2xM32x1.5	145
LA112M	833.0	914.0	219.0	181.0	120	120	127.5	2xM32x1.5	158
LA132S	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	169
LA132M	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	169
LA132ZM	939.0	1041.0	259.0	195.0	140	140	168.0	2xM32x1.5	178
LA160M	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	204
LA160L	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	204
LG180ZM	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	326
LG180L	1057.0	1179.0	348.0	322.5	260	192	212.5	2xM40x1.5	296
LG180ZL	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	326

④ DIN 332

## ⑤ Parallel key / keyway DIN 6885

① EN 24014

<sup>⑥</sup> For note, see page 4/224

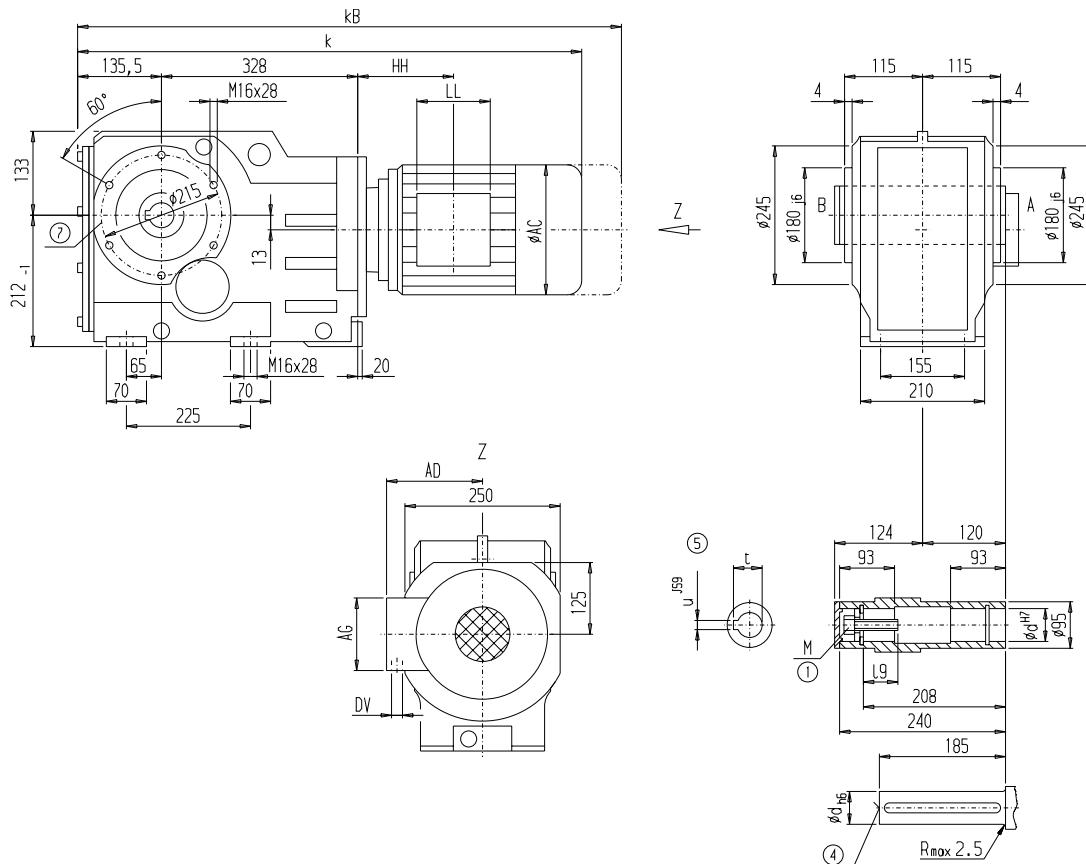
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZ108 (three-stage), shaft-mounted design with housing flange (C-type)

KAZ012



d	l9	M	t	u
70*	63.5	M20	74.9	20
60	64.0	M20	64.4	18

\*) Preferred series

Motor	KAZ108									Weight KAZ108
	k	kB	AC	AD	AG	LL	HH	DV		
LA80	732.5	796.0	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	123	
LA90S	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	128	
LA90L	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	128	
LA90ZL	808.5	879.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	131	
LA100L	807.0	888.0	195.0	168.0	120	120	125.5	2xM32x1.5	136	
LA112M	833.0	914.0	219.0	181.0	120	120	127.5	2xM32x1.5	148	
LA132S	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	160	
LA132M	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	160	
LA132ZM	939.0	1041.0	259.0	195.0	140	140	168.0	2xM32x1.5	169	
LA160M	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	194	
LA160L	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	194	
LG180ZM	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	316	
LG180L	1057.0	1179.0	348.0	322.5	260	192	212.5	2xM40x1.5	286	
LG180ZL	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	316	

④ DIN 332

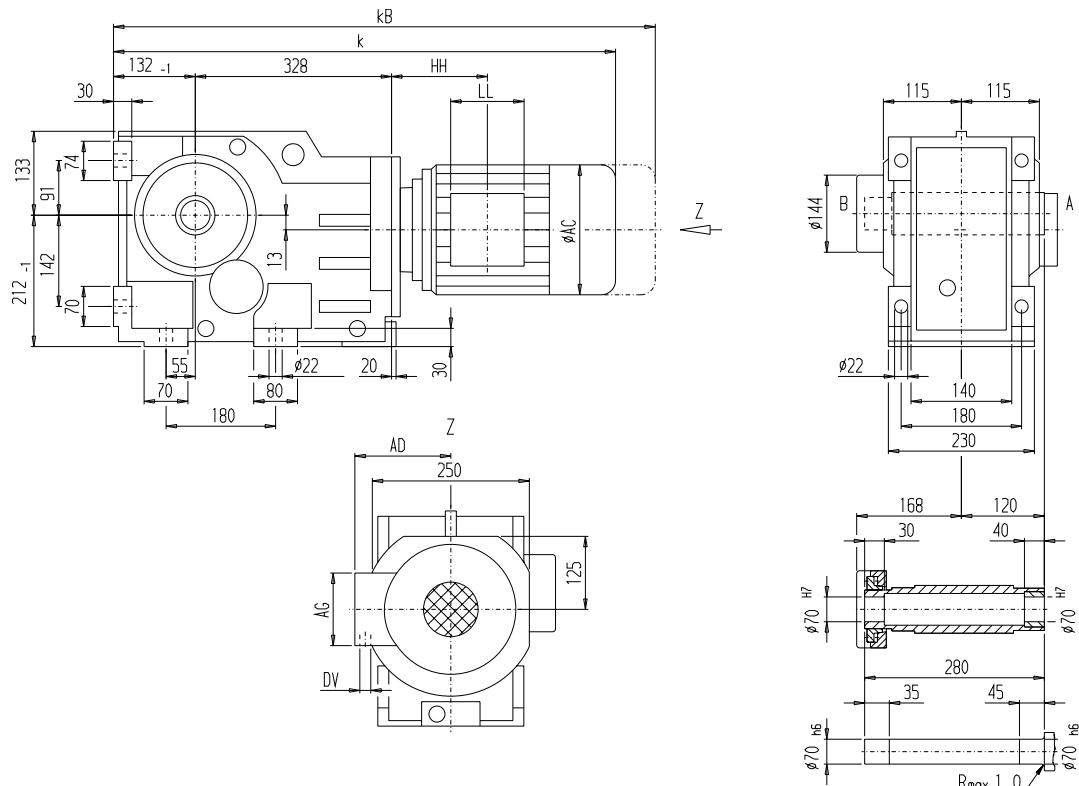
⑤ Parallel key / keyway DIN 6885

① EN 24014

⑦ For note, see page 4/225

Gear unit KAS108 (three-stage), shaft-mounted design with shrink disk

KAS012



Motor	KAS108								Weight KAS108
	k	kB	AC	AD	AG	LL	HH	DV	
LA80	729.0	792.5	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	123
LA90S	760.0	831.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	127
LA90L	760.0	831.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	127
LA90ZL	805.0	876.0	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	130
LA100L	803.5	884.5	195.0	168.0	120	120	125.5	2xM32x1.5	135
LA112M	829.5	910.5	219.0	181.0	120	120	127.5	2xM32x1.5	147
LA132S	889.5	991.5	259.0	195.0	140	140	168.0	2xM32x1.5	159
LA132M	889.5	991.5	259.0	195.0	140	140	168.0	2xM32x1.5	159
LA132ZM	935.5	1037.5	259.0	195.0	140	140	168.0	2xM32x1.5	168
LA160M	994.0	1112.5	313.5	227.0	165	165	195.5	2xM40x1.5	194
LA160L	994.0	1112.5	313.5	227.0	165	165	195.5	2xM40x1.5	194
LG180ZM	1104.5	1226.5	348.0	322.5	260	192	212.5	2xM40x1.5	316
LG180L	1053.5	1175.5	348.0	322.5	260	192	212.5	2xM40x1.5	286
LG180ZL	1104.5	1226.5	348.0	322.5	260	192	212.5	2xM40x1.5	316

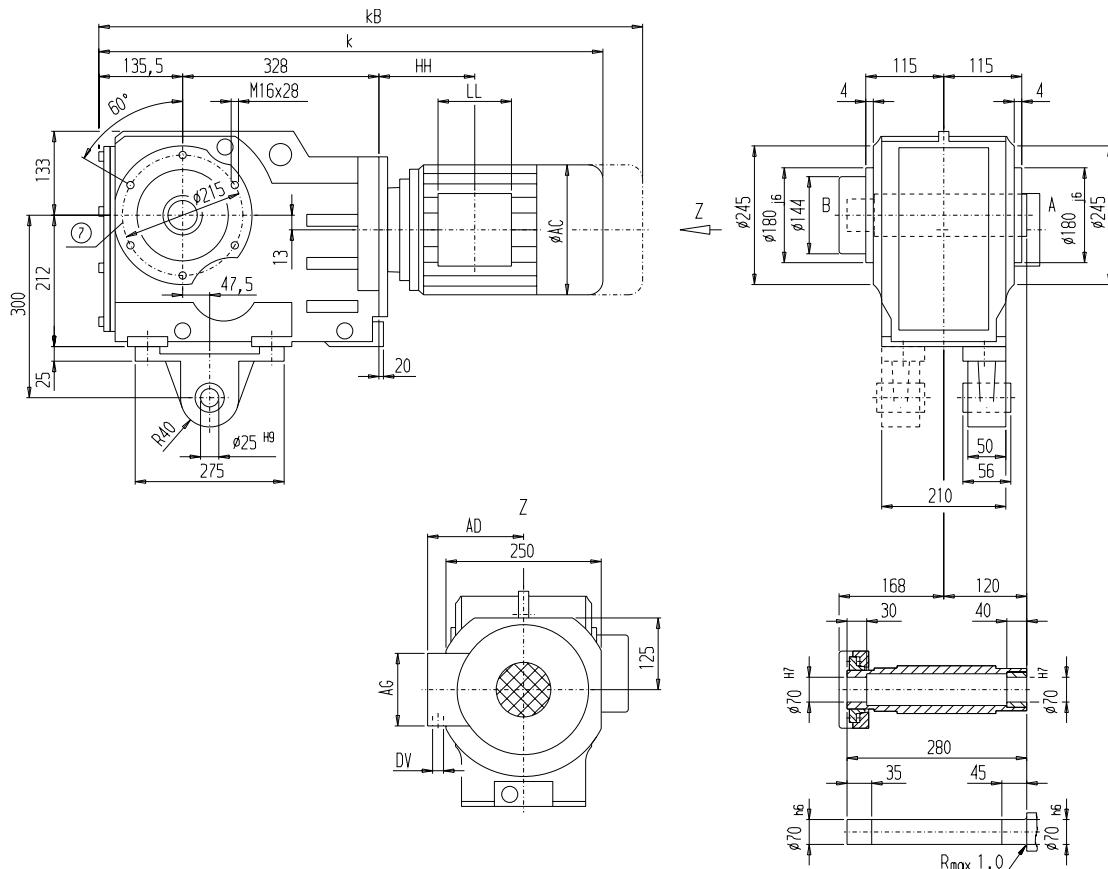
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KADS108 (three-stage), shaft-mounted design with torque arm and shrink disk

**KADS012**

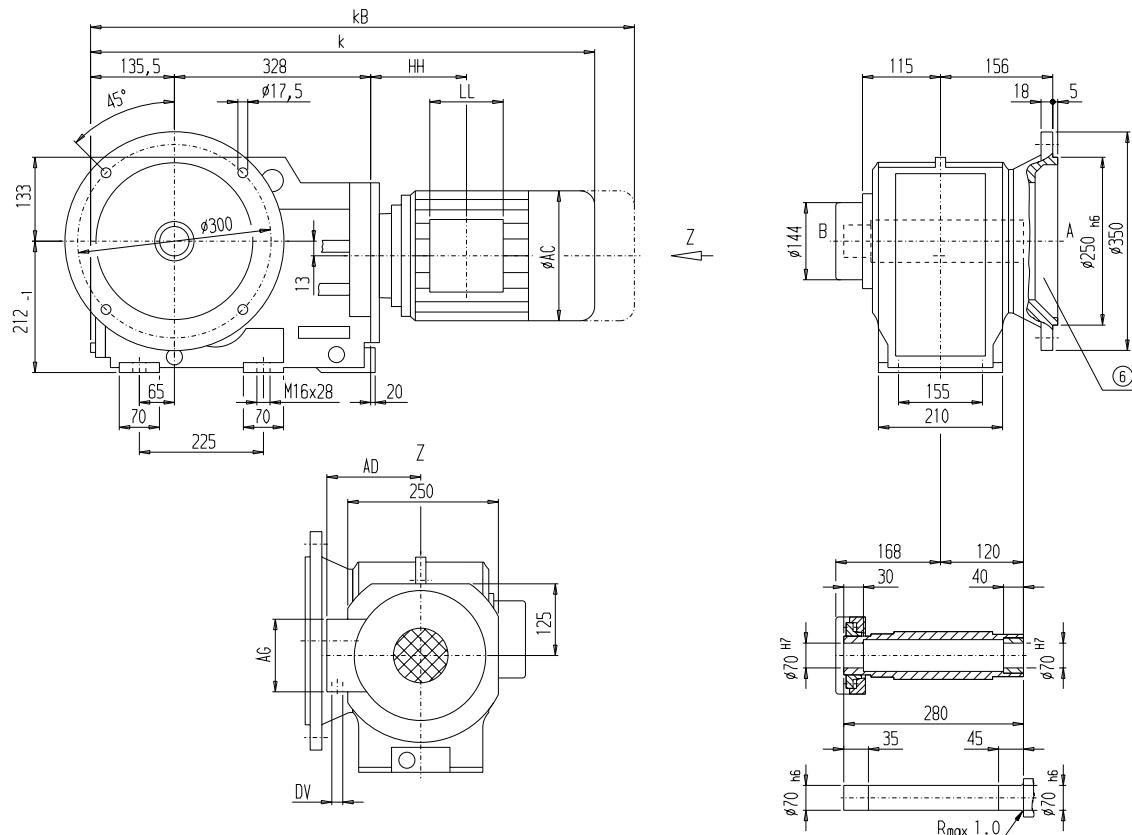


Motor	KADS108								Weight KADS108
	k	kB	AC	AD	AG	LL	HH	DV	
LA80	732.5	796.0	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	130
LA90S	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	135
LA90L	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	135
LA90ZL	808.5	879.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	138
LA100L	807.0	888.0	195.0	168.0	120	120	125.5	2xM32x1.5	143
LA112M	833.0	914.0	219.0	181.0	120	120	127.5	2xM32x1.5	155
LA132S	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	167
LA132M	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	167
LA132ZM	939.0	1041.0	259.0	195.0	140	140	168.0	2xM32x1.5	176
LA160M	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	201
LA160L	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	201
LG180ZM	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	323
LG180L	1057.0	1179.0	348.0	322.5	260	192	212.5	2xM40x1.5	293
LG180ZL	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	323

⑦ For note, see page 4/225

Gear unit KAFS108 (three-stage), shaft-mounted design with flange and shrink disk

KAFS012



Motor	KAFS108								Weight KAFS108
	k	kB	AC	AD	AG	LL	HH	DV	
LA80	732.5	796.0	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	136
LA90S	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	140
LA90L	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	140
LA90ZL	808.5	879.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	143
LA100L	807.0	888.0	195.0	168.0	120	120	125.5	2xM32x1.5	148
LA112M	833.0	914.0	219.0	181.0	120	120	127.5	2xM32x1.5	161
LA132S	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	172
LA132M	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	172
LA132ZM	939.0	1041.0	259.0	195.0	140	140	168.0	2xM32x1.5	181
LA160M	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	207
LA160L	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	207
LG180ZM	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	329
LG180L	1057.0	1179.0	348.0	322.5	260	192	212.5	2xM40x1.5	299
LG180ZL	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	329

⑥ For note, see page 4/224

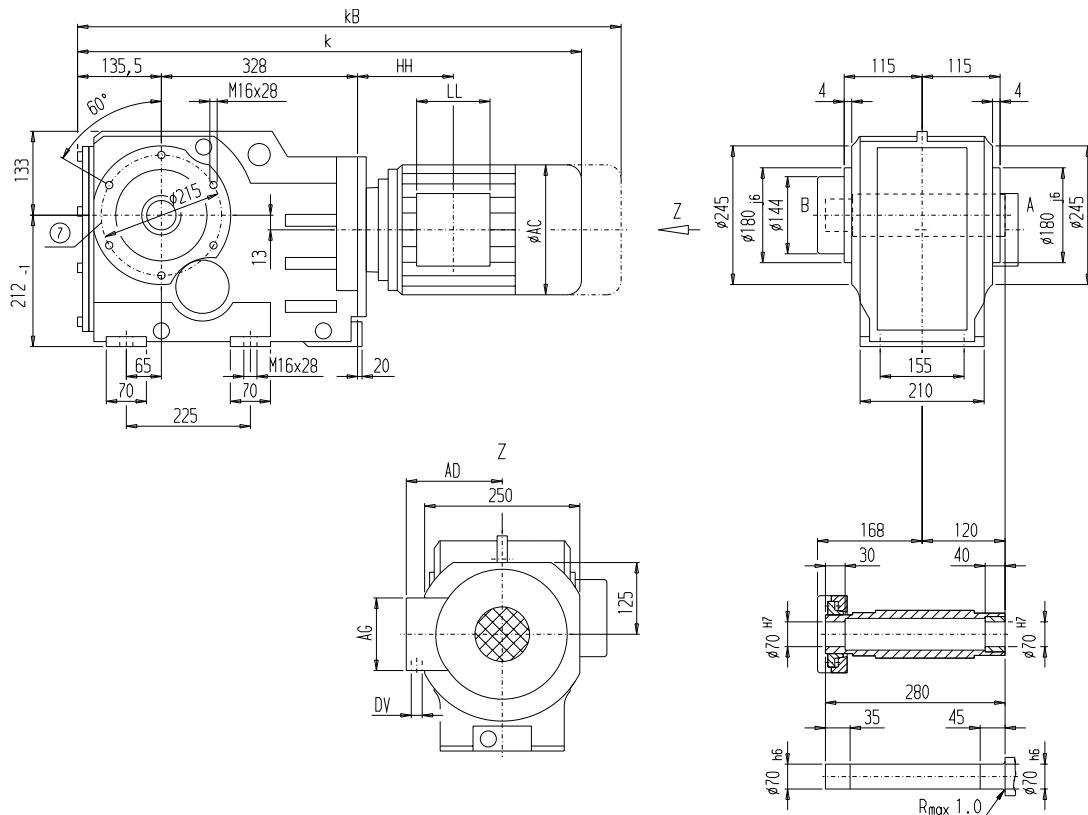
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZS108 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk

KAZS012

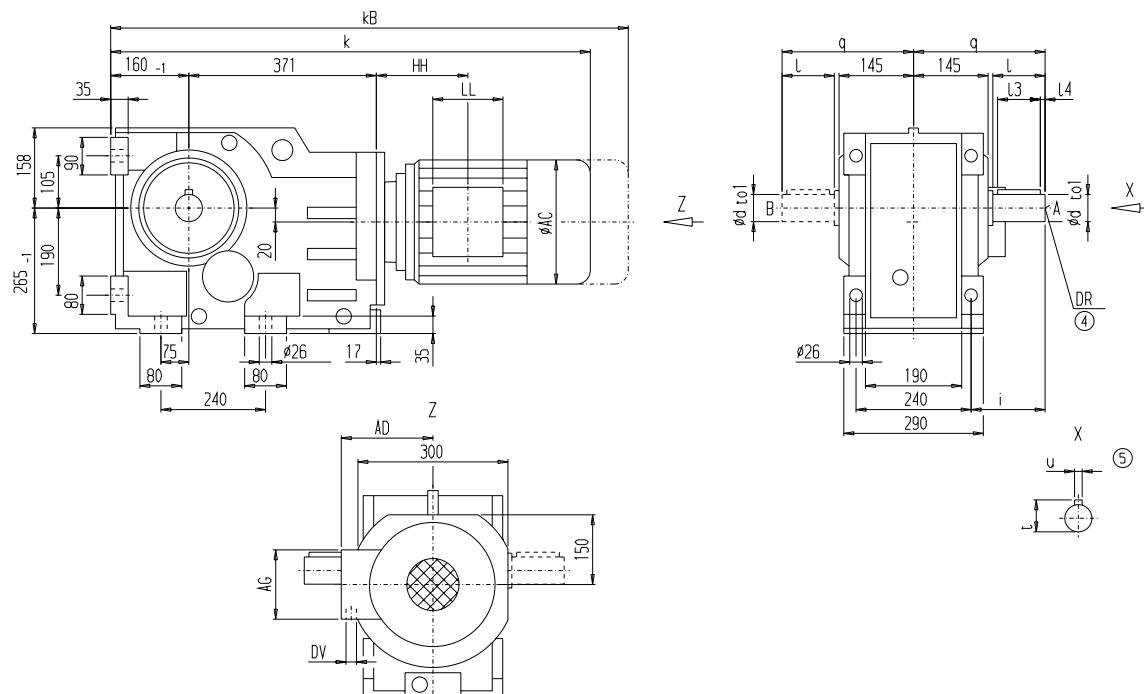


Motor	KAZS108								Weight KAZS108
	k	kB	AC	AD	AG	LL	HH	DV	
LA80	732.5	796.0	156.5	155.0	90	90	87.5	M20x1.5/M25x2.5	116
LA90S	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	120
LA90L	763.5	834.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	120
LA90ZL	808.5	879.5	174.0	163.0	90	90	87.5	M20x1.5/M25x2.5	123
LA100L	807.0	888.0	195.0	168.0	120	120	125.5	2xM32x1.5	128
LA112M	833.0	914.0	219.0	181.0	120	120	127.5	2xM32x1.5	140
LA132S	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	152
LA132M	893.0	995.0	259.0	195.0	140	140	168.0	2xM32x1.5	152
LA132ZM	939.0	1041.0	259.0	195.0	140	140	168.0	2xM32x1.5	161
LA160M	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	187
LA160L	997.5	1116.0	313.5	227.0	165	165	195.5	2xM40x1.5	187
LG180ZM	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	309
LG180L	1057.0	1179.0	348.0	322.5	260	192	212.5	2xM40x1.5	279
LG180ZL	1108.0	1230.0	348.0	322.5	260	192	212.5	2xM40x1.5	309

⑦ For note, see page 4/225

Gear unit K128 (three-stage), housing-flange-mounted design (C-type)

K012



4

d	to1	I	I3	I4	t	u	i	q	DR
70	m6	140	125	7.5	74.5	20	170	290	M20x42
90*	m6	170	140	15.0	95.0	25	200	320	M24x50

\*) Preferred series

Motor	K128									Weight
	k	kB	AC	AD	AG	LL	HH	DV	K128	
LA90S	819.5	890.5	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	210	
LA90L	819.5	890.5	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	210	
LA90ZL	864.5	935.5	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	213	
LA100L	862.5	943.5	195.0	168.0	120	120	113.5	2xM32x1.5	218	
LA112M	889.0	970.0	219.0	181.0	120	120	116.0	2xM32x1.5	230	
LA132S	948.0	1050.0	259.0	195.0	140	140	155.5	2xM32x1.5	240	
LA132M	948.0	1050.0	259.0	195.0	140	140	155.5	2xM32x1.5	240	
LA132ZM	994.0	1096.0	259.0	195.0	140	140	155.5	2xM32x1.5	249	
LA160M	1053.5	1172.0	313.5	227.0	165	165	184.0	2xM40x1.5	275	
LA160L	1053.5	1172.0	313.5	227.0	165	165	184.0	2xM40x1.5	275	
LG180ZM	1161.0	1283.0	348.0	322.5	260	192	198.0	2xM40x1.5	401	
LG180L	1110.0	1232.0	348.0	322.5	260	192	198.0	2xM40x1.5	371	
LG180ZL	1161.0	1283.0	348.0	322.5	260	192	198.0	2xM40x1.5	401	
LG200L	1166.0	1292.0	385.0	301.0	260	192	228.0	2xM50x1.5	451	
LG225S*	1427.5	AA	439.0	325.0	260	192	196.5	2xM50x1.5	607	
LG225M*	1427.5	AA	439.0	325.0	260	192	196.5	2xM50x1.5	595	
LG225ZM*	1487.5	AA	439.0	325.0	260	192	196.5	2xM50x1.5	653	

④ DIN 332

⑤ Parallel key / keyway DIN 6885

\* Incl. adapter

AA On request

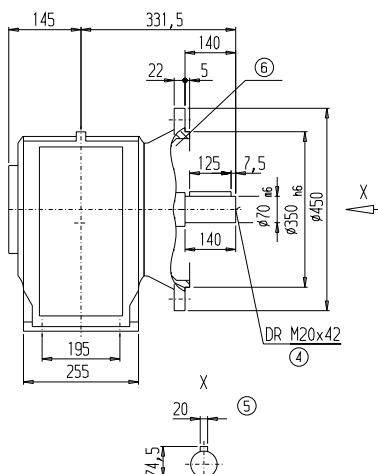
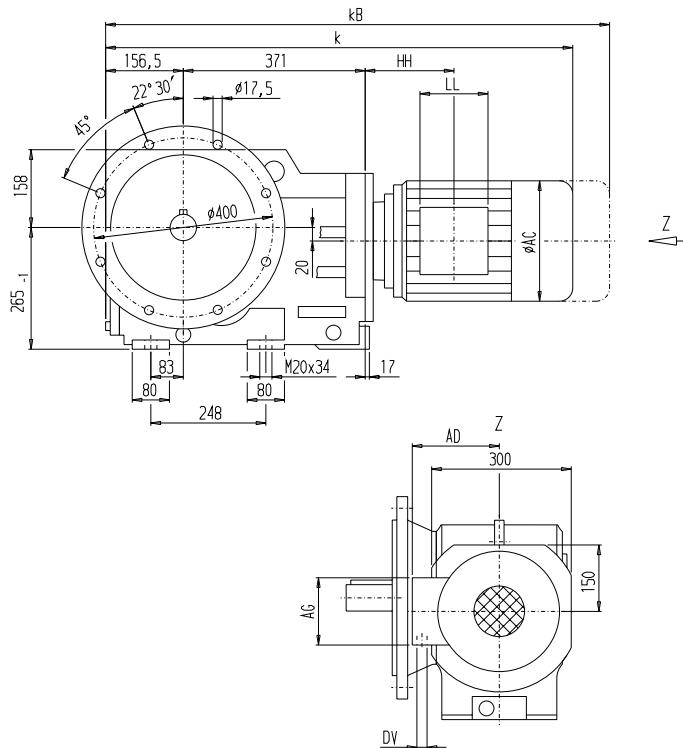
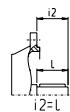
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KF128 (three-stage), flange-mounted design (A-type)

**KF012**



Motor	KF128								Weight KF128
	k	kB	AC	AD	AG	LL	HH	DV	
LA90S	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	235
LA90L	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	235
LA90ZL	861.0	932.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	238
LA100L	859.0	940.0	195.0	168.0	120	120	113.5	2xM32x1.5	243
LA112M	885.5	966.5	219.0	181.0	120	120	116.0	2xM32x1.5	255
LA132S	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	265
LA132M	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	265
LA132ZM	990.5	1092.5	259.0	195.0	140	140	155.5	2xM32x1.5	275
LA160M	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	300
LA160L	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	300
LG180ZM	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	427
LG180L	1106.5	1228.5	348.0	322.5	260	192	198.0	2xM40x1.5	397
LG180ZL	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	427
LG200L	1162.5	1288.5	385.0	301.0	260	192	228.0	2xM50x1.5	477
LG225S*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	633
LG225M*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	621
LG225ZM*	1484.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	679

④ DIN 332

⑥ For note, see page 4/224

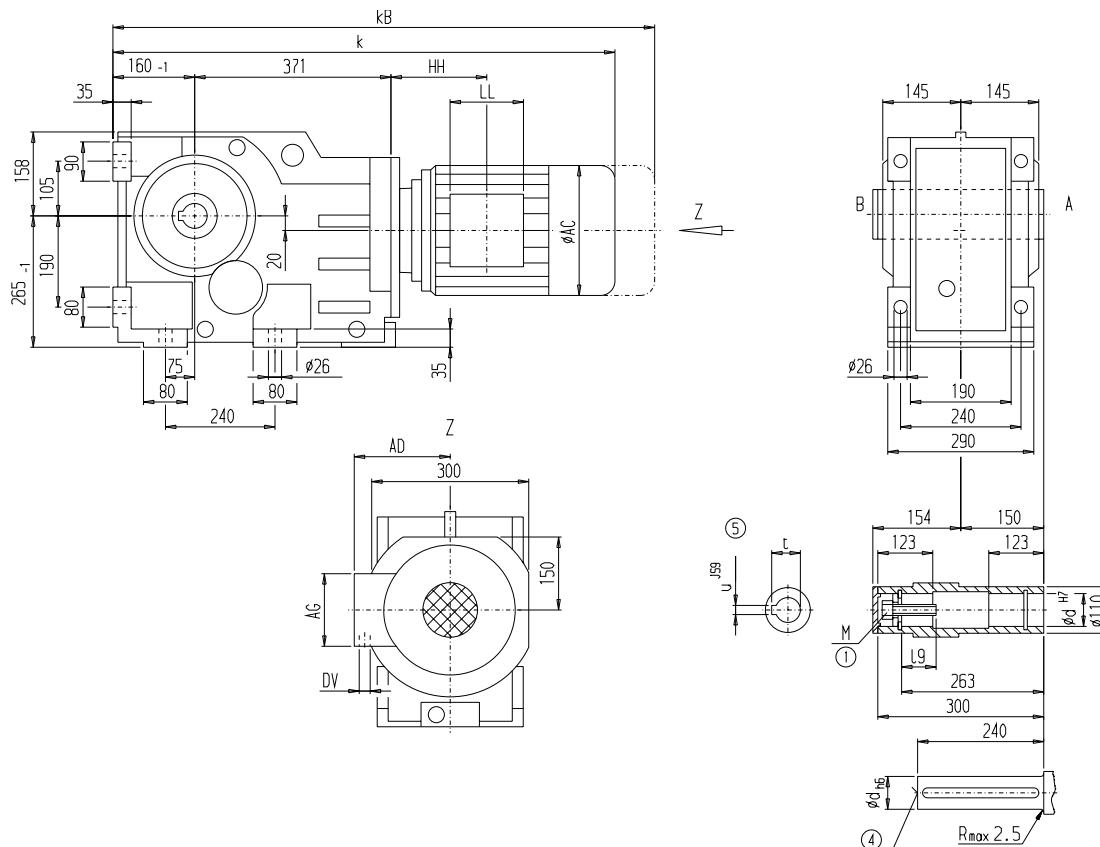
⑤ Parallel key / keyway DIN 6885

\* Incl. adapter

AA On request

Gear unit KA128 (three-stage), housing-flange-mounted design (C-type)

KA012



d	i9	M	t	u
80*	63.5	M20	85.4	22
70	63.5	M20	74.9	20

\*) Preferred series

Motor	KA128								Weight
	k	kB	AC	AD	AG	LL	HH	DV	
LA90S	819.5	890.5	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	190
LA90L	819.5	890.5	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	190
LA90ZL	864.5	935.5	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	193
LA100L	862.5	943.5	195.0	168.0	120	120	113.5	2xM32x1.5	198
LA112M	889.0	970.0	219.0	181.0	120	120	116.0	2xM32x1.5	210
LA132S	948.0	1050.0	259.0	195.0	140	140	155.5	2xM32x1.5	220
LA132M	948.0	1050.0	259.0	195.0	140	140	155.5	2xM32x1.5	220
LA132ZM	994.0	1096.0	259.0	195.0	140	140	155.5	2xM32x1.5	230
LA160M	1053.5	1172.0	313.5	227.0	165	165	184.0	2xM40x1.5	255
LA160L	1053.5	1172.0	313.5	227.0	165	165	184.0	2xM40x1.5	255
LG180ZM	1161.0	1283.0	348.0	322.5	260	192	198.0	2xM40x1.5	382
LG180L	1110.0	1232.0	348.0	322.5	260	192	198.0	2xM40x1.5	352
LG180ZL	1161.0	1283.0	348.0	322.5	260	192	198.0	2xM40x1.5	382
LG200L	1166.0	1292.0	385.0	301.0	260	192	228.0	2xM50x1.5	432
LG225S*	1427.5	AA	439.0	325.0	260	192	196.5	2xM50x1.5	588
LG225M*	1427.5	AA	439.0	325.0	260	192	196.5	2xM50x1.5	576
LG225ZM*	1487.5	AA	439.0	325.0	260	192	196.5	2xM50x1.5	634

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

\* Incl. adapter

AA On request

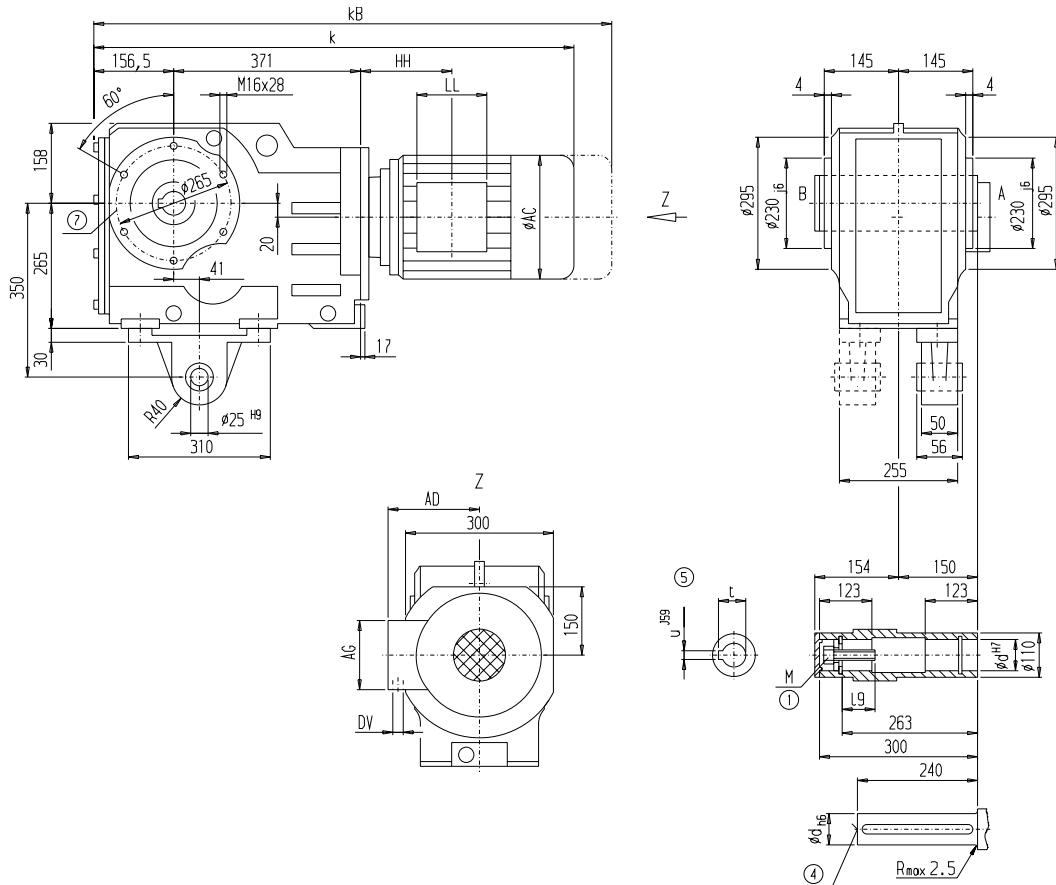
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAD128 (three-stage), shaft-mounted design with torque arm

KAD012



d	l9	M	t	u
80*	63.5	M20	85.4	22
70	63.5	M20	74.9	20

\*) Preferred series

Motor	KAD128								Weight KAD128
	k	kB	AC	AD	AG	LL	HH	DV	
LA90S	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	204
LA90L	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	204
LA90ZL	861.0	932.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	207
LA100L	859.0	940.0	195.0	168.0	120	120	113.5	2xM32x1.5	212
LA112M	885.5	966.5	219.0	181.0	120	120	116.0	2xM32x1.5	224
LA132S	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	235
LA132M	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	235
LA132ZM	990.5	1092.5	259.0	195.0	140	140	155.5	2xM32x1.5	244
LA160M	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	269
LA160L	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	269
LG180ZM	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	396
LG180L	1106.5	1228.5	348.0	322.5	260	192	198.0	2xM40x1.5	366
LG180ZL	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	396
LG200L	1162.5	1288.5	385.0	301.0	260	192	228.0	2xM50x1.5	446
LG225S*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	602
LG225M*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	590
LG225ZM*	1484.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	648

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

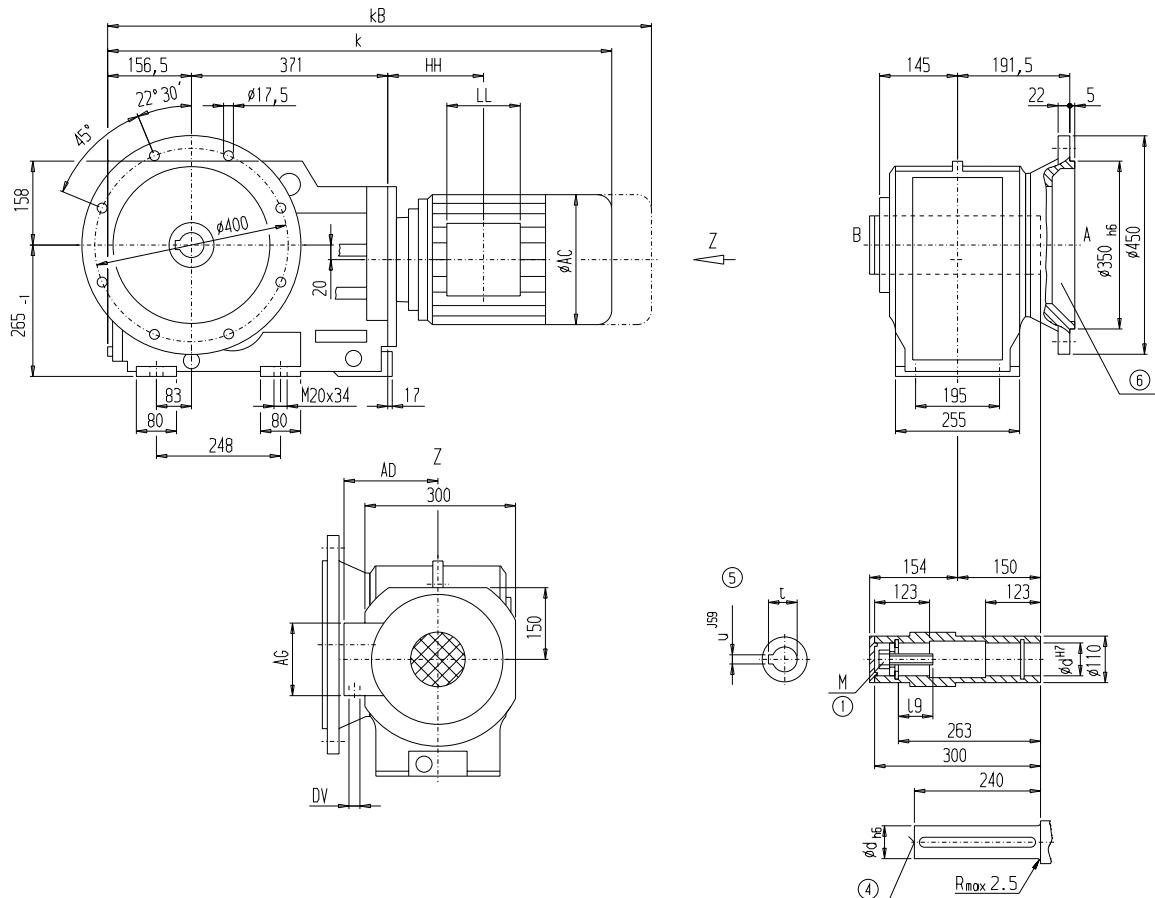
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit KAF128 (three-stage), shaft-mounted design with flange

KAF012



d	l9	M	t	u
80*	63.5	M20	85.4	22
70	63.5	M20	74.9	20

\*) Preferred series

Motor	KAF128								Weight KAF128
	k	kB	AC	AD	AG	LL	HH	DV	
LA90S	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	215
LA90L	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	215
LA90ZL	861.0	932.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	218
LA100L	859.0	940.0	195.0	168.0	120	120	113.5	2xM32x1.5	223
LA112M	885.5	966.5	219.0	181.0	120	120	116.0	2xM32x1.5	235
LA132S	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	246
LA132M	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	246
LA132ZM	990.5	1092.5	259.0	195.0	140	140	155.5	2xM32x1.5	255
LA160M	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	280
LA160L	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	280
LG180ZM	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	407
LG180L	1106.5	1228.5	348.0	322.5	260	192	198.0	2xM40x1.5	377
LG180ZL	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	407
LG200L	1162.5	1288.5	385.0	301.0	260	192	228.0	2xM50x1.5	457
LG225S*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	603
LG225M*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	601
LG225ZM*	1484.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	659

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

⑥ For note, see page 4/224

\* Incl. adapter

AA On request

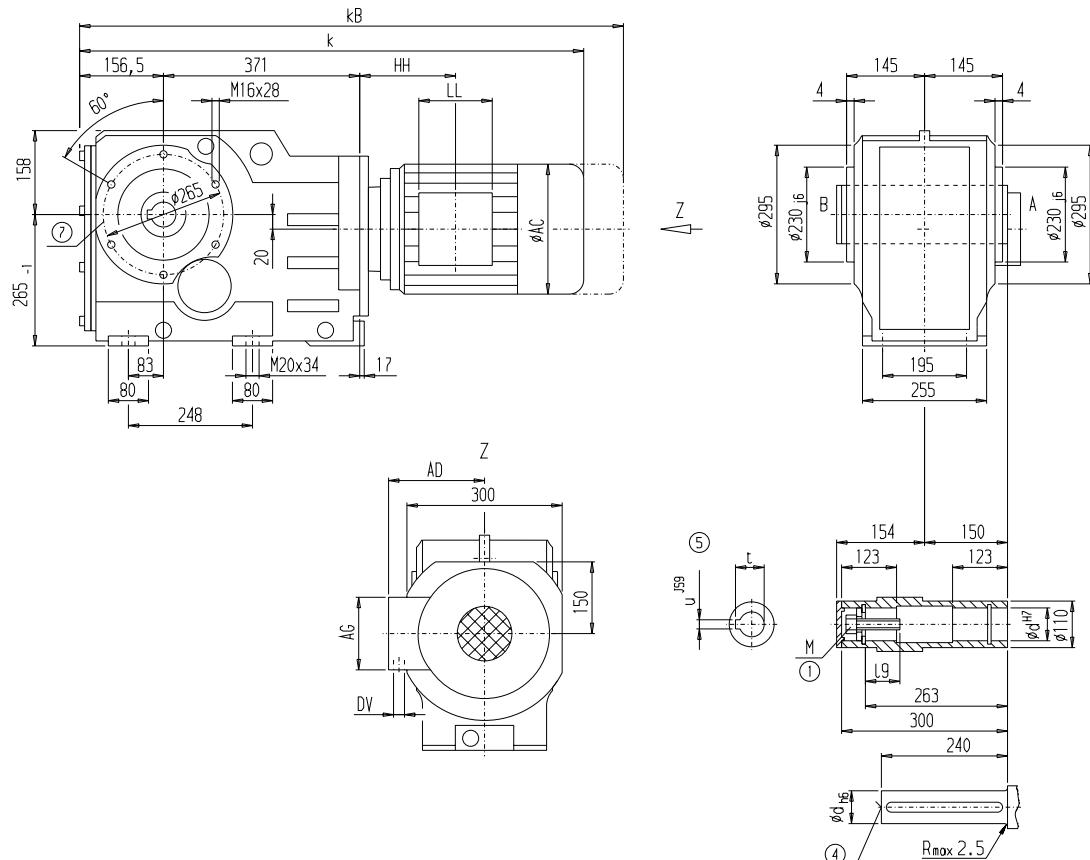
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZ128 (three-stage), shaft-mounted design with housing flange (C-type)

KAZ012



d	I9	M	t	u
80*	63.5	M20	85.4	22
70	63.5	M20	74.9	20

\*) Preferred series

Motor	KAZ128								Weight
	k	kB	AC	AD	AG	LL	HH	DV	
LA90S	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	198
LA90L	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	198
LA90ZL	861.0	932.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	201
LA100L	859.0	940.0	195.0	168.0	120	120	113.5	2xM32x1.5	206
LA112M	885.5	966.5	219.0	181.0	120	120	116.0	2xM32x1.5	218
LA132S	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	228
LA132M	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	228
LA132ZM	990.5	1092.5	259.0	195.0	140	140	155.5	2xM32x1.5	238
LA160M	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	263
LA160L	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	263
LG180ZM	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	390
LG180L	1106.5	1228.5	348.0	322.5	260	192	198.0	2xM40x1.5	360
LG180ZL	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	390
LG200L	1162.5	1288.5	385.0	301.0	260	192	228.0	2xM50x1.5	440
LG225S*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	596
LG225M*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	584
LG225ZM*	1484.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	642

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

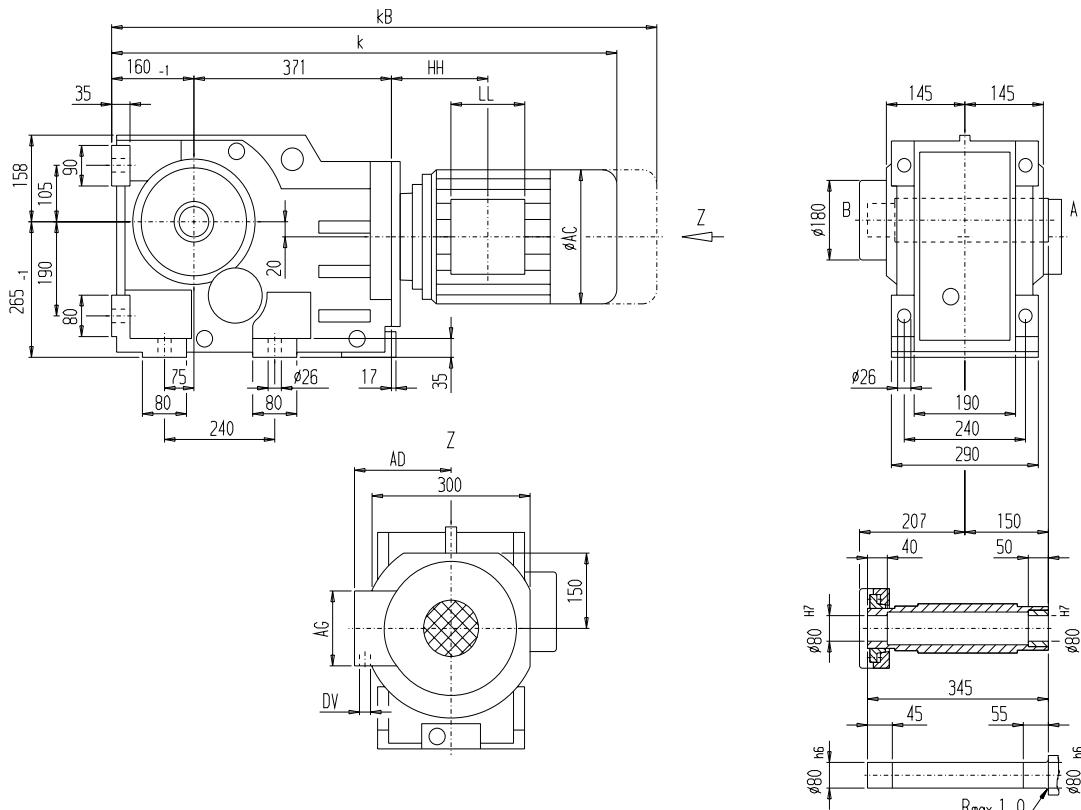
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit KAS128 (three-stage), shaft-mounted design with shrink disk

KAS012



4

	KAS128									Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAS128	
LA90S	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	194	
LA90L	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	194	
LA90ZL	861.0	932.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	197	
LA100L	859.0	940.0	195.0	168.0	120	120	113.5	2xM32x1.5	202	
LA112M	885.5	966.5	219.0	181.0	120	120	116.0	2xM32x1.5	214	
LA132S	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	225	
LA132M	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	225	
LA132ZM	990.5	1092.5	259.0	195.0	140	140	155.5	2xM32x1.5	234	
LA160M	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	259	
LA160L	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	259	
LG180ZM	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	386	
LG180L	1106.5	1228.5	348.0	322.5	260	192	198.0	2xM40x1.5	356	
LG180ZL	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	386	
LG200L	1162.5	1288.5	385.0	301.0	260	192	228.0	2xM50x1.5	436	
LG225S*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	592	
LG225M*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	580	
LG225ZM*	1484.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	638	

\* Incl. adapter

AA On request

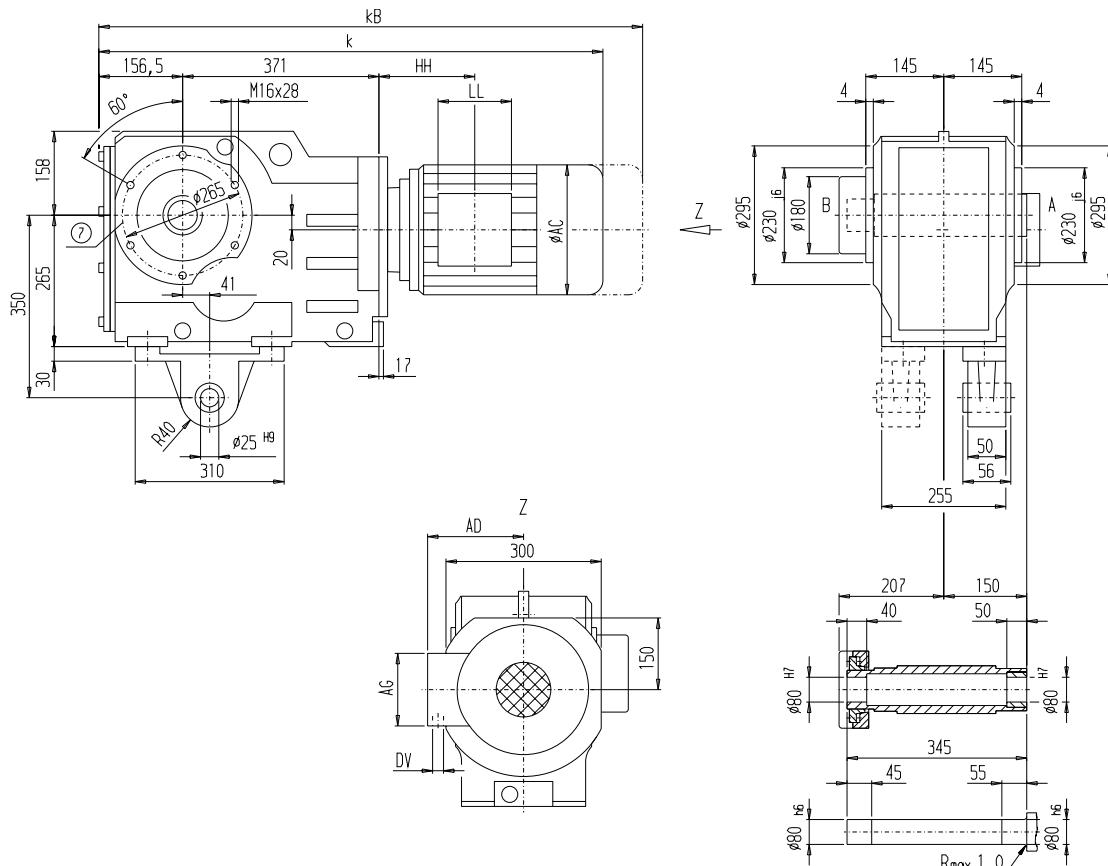
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KADS128 (three-stage), shaft-mounted design with torque arm and shrink disk

**KADS012**



Motor	k	kB	AC	AD	AG	LL	HH	DV	Weight KADS128
LA90S	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	209
LA90L	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	209
LA90ZL	861.0	932.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	212
LA100L	859.0	940.0	195.0	168.0	120	120	113.5	2xM32x1.5	217
LA112M	885.5	966.5	219.0	181.0	120	120	116.0	2xM32x1.5	228
LA132S	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	239
LA132M	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	239
LA132ZM	990.5	1092.5	259.0	195.0	140	140	155.5	2xM32x1.5	248
LA160M	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	274
LA160L	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	274
LG180ZM	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	400
LG180L	1106.5	1228.5	348.0	322.5	260	192	198.0	2xM40x1.5	370
LG180ZL	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	400
LG200L	1162.5	1288.5	385.0	301.0	260	192	228.0	2xM50x1.5	450
LG225S*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	606
LG225M*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	594
LG225ZM*	1484.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	652

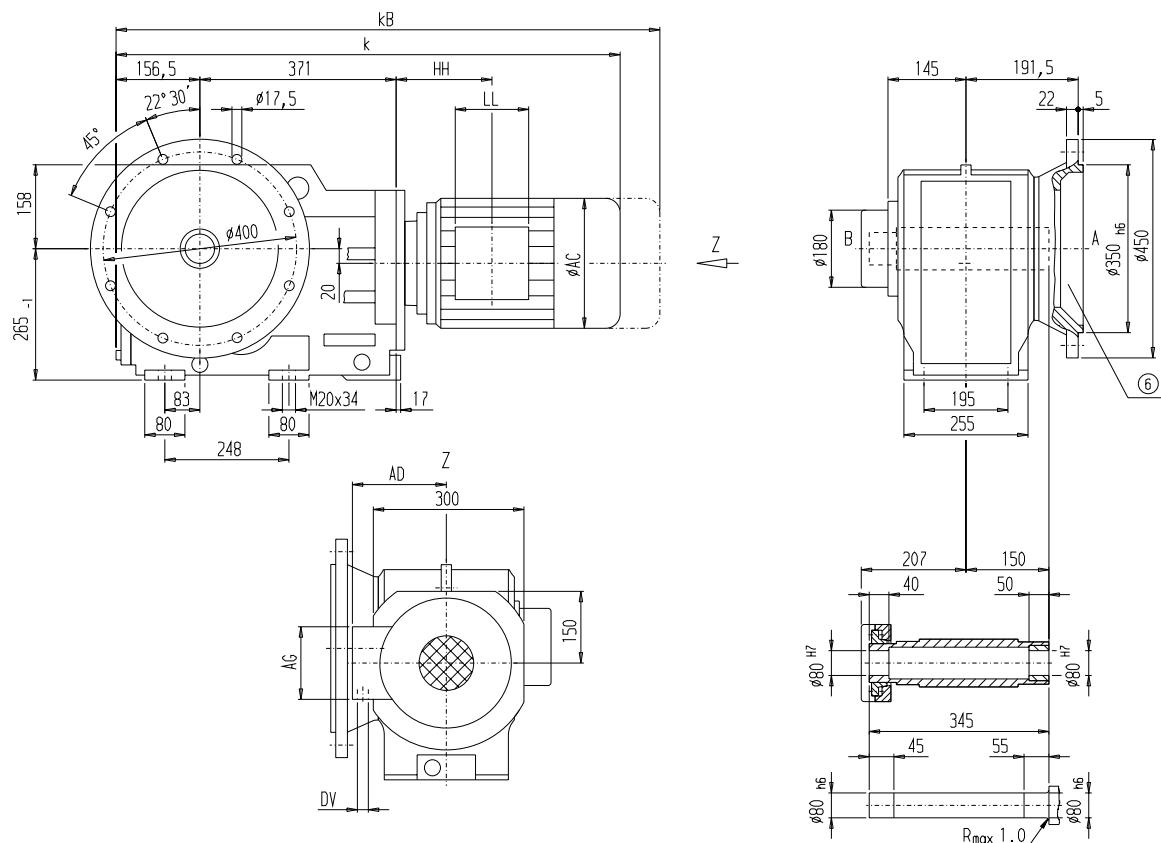
\* Incl. adapter

AA On request

⑦ For note, see page 4/225

**Gear unit KAFS128 (three-stage), shaft-mounted design with flange and shrink disk**

**KAFS012**



4

Motor	K	kB	AC	AD	AG	LL	HH	DV	Weight KAFS128
LA90S	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	220
LA90L	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	220
LA90ZL	861.0	932.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	223
LA100L	859.0	940.0	195.0	168.0	120	120	113.5	2xM32x1.5	228
LA112M	885.5	966.5	219.0	181.0	120	120	116.0	2xM32x1.5	239
LA132S	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	250
LA132M	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	250
LA132ZM	990.5	1092.5	259.0	195.0	140	140	155.5	2xM32x1.5	259
LA160M	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	285
LA160L	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	285
LG180ZM	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	411
LG180L	1106.5	1228.5	348.0	322.5	260	192	198.0	2xM40x1.5	381
LG180ZL	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	411
LG200L	1162.5	1288.5	385.0	301.0	260	192	228.0	2xM50x1.5	461
LG225S*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	617
LG225M*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	605
LG225ZM*	1484.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	663

\* Incl. adapter

AA On request

⑥ For note, see page 4/224

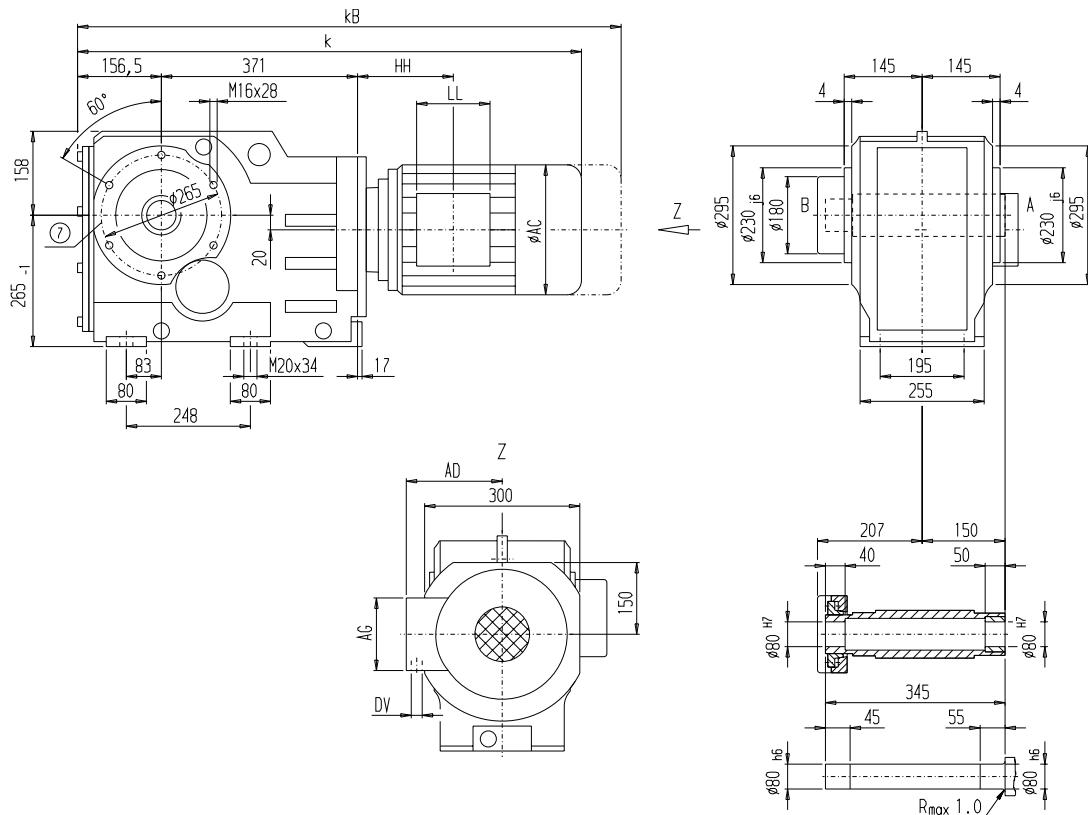
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZS128 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk

KAZS012



Motor	k	kB	AC	AD	AG	LL	HH	DV	Weight KAZS128
LA90S	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	202
LA90L	816.0	887.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	202
LA90ZL	861.0	932.0	174.0	163.0	90	90	76.0	M20x1.5/M25x2.5	205
LA100L	859.0	940.0	195.0	168.0	120	120	113.5	2xM32x1.5	210
LA112M	885.5	966.5	219.0	181.0	120	120	116.0	2xM32x1.5	222
LA132S	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	233
LA132M	944.5	1046.5	259.0	195.0	140	140	155.5	2xM32x1.5	233
LA132ZM	990.5	1092.5	259.0	195.0	140	140	155.5	2xM32x1.5	242
LA160M	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	267
LA160L	1050.0	1168.5	313.5	227.0	165	165	184.0	2xM40x1.5	267
LG180ZM	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	394
LG180L	1106.5	1228.5	348.0	322.5	260	192	198.0	2xM40x1.5	364
LG180ZL	1157.5	1279.5	348.0	322.5	260	192	198.0	2xM40x1.5	394
LG200L	1162.5	1288.5	385.0	301.0	260	192	228.0	2xM50x1.5	444
LG225S*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	600
LG225M*	1424.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	588
LG225ZM*	1484.0	AA	439.0	325.0	260	192	196.5	2xM50x1.5	646

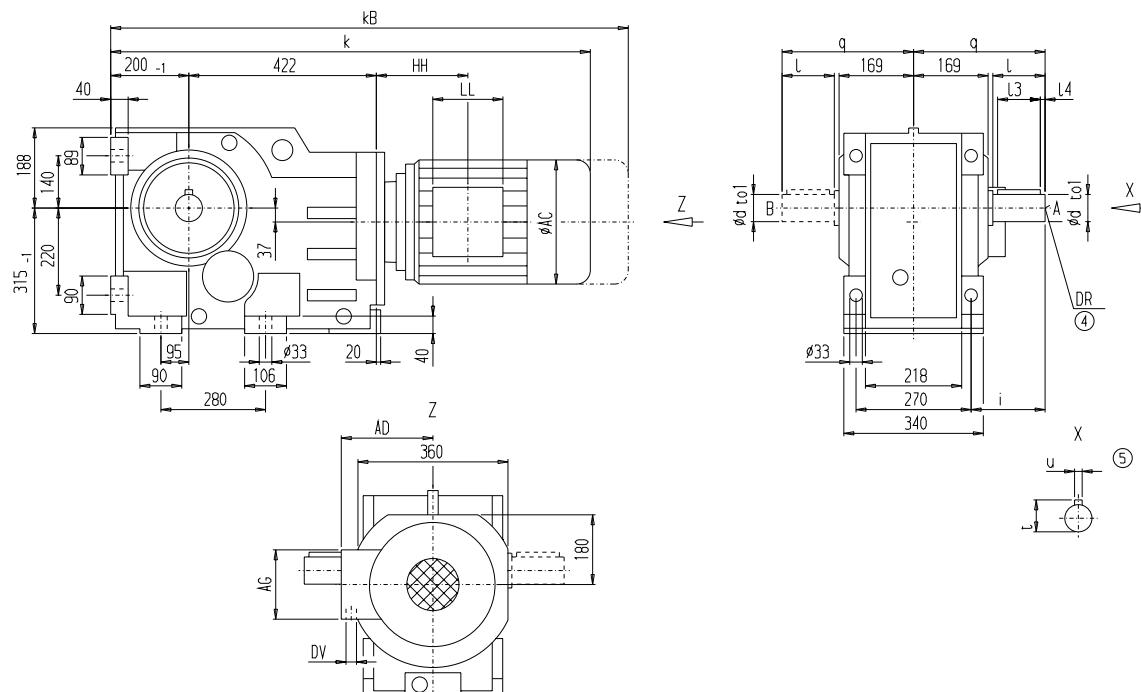
\* Incl. adapter

AA On request

⑦ For note, see page 4/225

Gear unit K148 (three-stage), housing-flange-mounted design (C-type)

K012



4

d	to1	I	I3	I4	t	u	i	q	DR
90*	m6	170	140	15	95	25	210	345	
70	m6	210	180	15	106	28	250	385	M24x50

\*) Preferred series

Motor	K148								Weight K148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	944.0	1025.0	195.0	168.0	120	120	104.0	2xM32x1.5	319
LA112M	969.5	1050.5	219.0	181.0	120	120	105.5	2xM32x1.5	331
LA132S	1028.5	1130.5	259.0	195.0	140	140	145.0	2xM32x1.5	340
LA132M	1028.5	1130.5	259.0	195.0	140	140	145.0	2xM32x1.5	340
LA132ZM	1074.5	1176.5	259.0	195.0	140	140	145.0	2xM32x1.5	349
LA160M	1128.0	1246.5	313.5	227.0	165	165	167.5	2xM40x1.5	379
LA160L	1128.0	1246.5	313.5	227.0	165	165	167.5	2xM40x1.5	379
LG180ZM	1238.5	1360.5	348.0	322.5	260	192	184.5	2xM40x1.5	500
LG180L	1187.5	1309.5	348.0	322.5	260	192	184.5	2xM40x1.5	470
LG180ZL	1238.5	1360.5	348.0	322.5	260	192	184.5	2xM40x1.5	500
LG200L	1243.5	1369.5	385.0	301.0	260	192	214.5	2xM50x1.5	550
LG225S	1316.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	626
LG225M	1316.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	614
LG225ZM	1376.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	672
LG250M*	1604.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	794
LG250ZM*	1671.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	897

④ DIN 332

⑤ Parallel key / keyway DIN 6885

\* Incl. adapter

AA On request

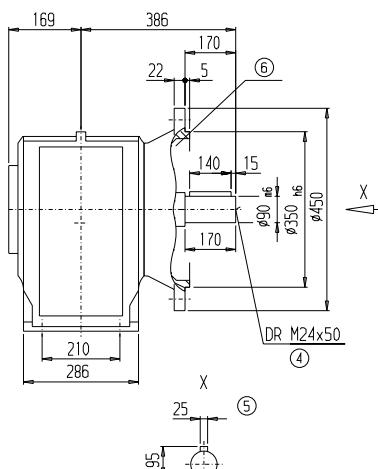
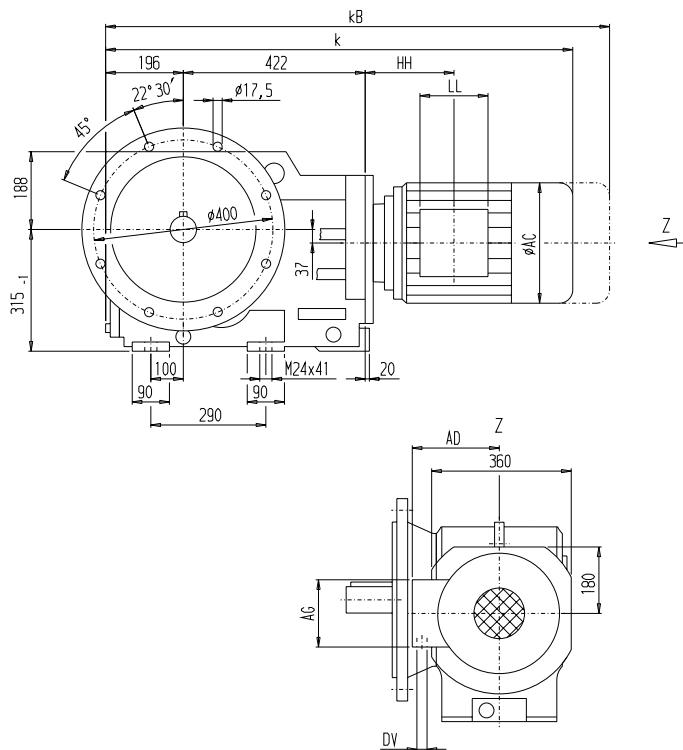
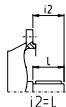
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KF148 (three-stage), flange-mounted design (A-type)

KF012



Motor	KF148								Weight KF148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	940.0	1021.0	195.0	168.0	120	120	104.0	2xM32x1.5	349
LA112M	965.5	1046.5	219.0	181.0	120	120	105.5	2xM32x1.5	361
LA132S	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	370
LA132M	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	370
LA132ZM	1070.5	1172.5	259.0	195.0	140	140	145.0	2xM32x1.5	379
LA160M	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	409
LA160L	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	409
LG180ZM	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	530
LG180L	1183.5	1305.5	348.0	322.5	260	192	184.5	2xM40x1.5	500
LG180ZL	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	530
LG200L	1239.5	1365.5	385.0	301.0	260	192	214.5	2xM50x1.5	580
LG225S	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	656
LG225M	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	644
LG225ZM	1372.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	702
LG250M*	1600.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	824
LG250ZM*	1670.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	927

④ DIN 332

⑥ For note, see page 4/224

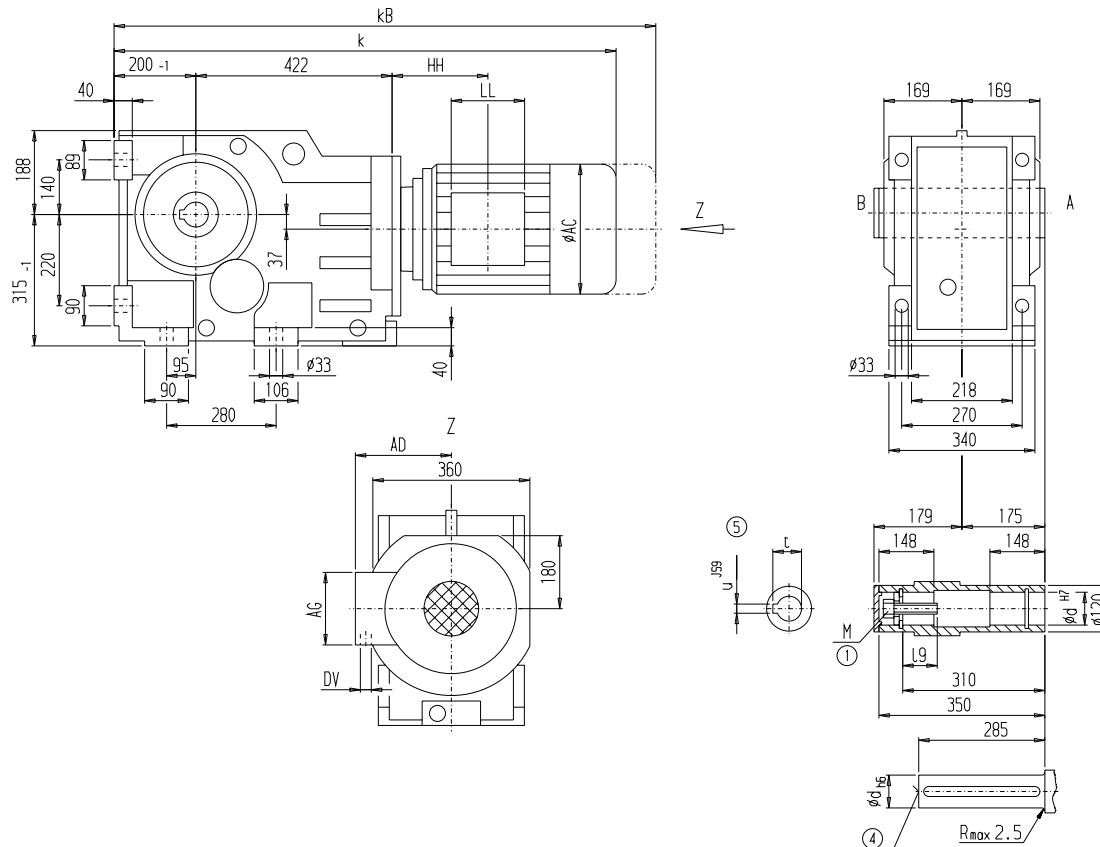
⑤ Parallel key / keyway DIN 6885

\* Incl. adapter

AA On request

Gear unit KA148 (three-stage), housing-flange-mounted design (C-type)

KA012



d	l9	M	t	u
90*	72.0	M24	95.4	25
80	63.5	M20	85.4	22

\*) Preferred series

Motor	KA148								Weight KA148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	944.0	1025.0	195.0	168.0	120	120	104.0	2xM32x1.5	291
LA112M	969.5	1050.5	219.0	181.0	120	120	105.5	2xM32x1.5	303
LA132S	1028.5	1130.5	259.0	195.0	140	140	145.0	2xM32x1.5	312
LA132M	1028.5	1130.5	259.0	195.0	140	140	145.0	2xM32x1.5	312
LA132ZM	1074.5	1176.5	259.0	195.0	140	140	145.0	2xM32x1.5	321
LA160M	1128.0	1246.5	313.5	227.0	165	165	167.5	2xM40x1.5	351
LA160L	1128.0	1246.5	313.5	227.0	165	165	167.5	2xM40x1.5	351
LG180ZM	1238.5	1360.5	348.0	322.5	260	192	184.5	2xM40x1.5	472
LG180L	1187.5	1309.5	348.0	322.5	260	192	184.5	2xM40x1.5	442
LG180ZL	1238.5	1360.5	348.0	322.5	260	192	184.5	2xM40x1.5	472
LG200L	1243.5	1369.5	385.0	301.0	260	192	214.5	2xM50x1.5	522
LG225S	1316.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	598
LG225M	1316.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	586
LG225ZM	1376.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	644
LG250M*	1604.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	766
LG250ZM*	1674.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	869

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

\* Incl. adapter

AA On request

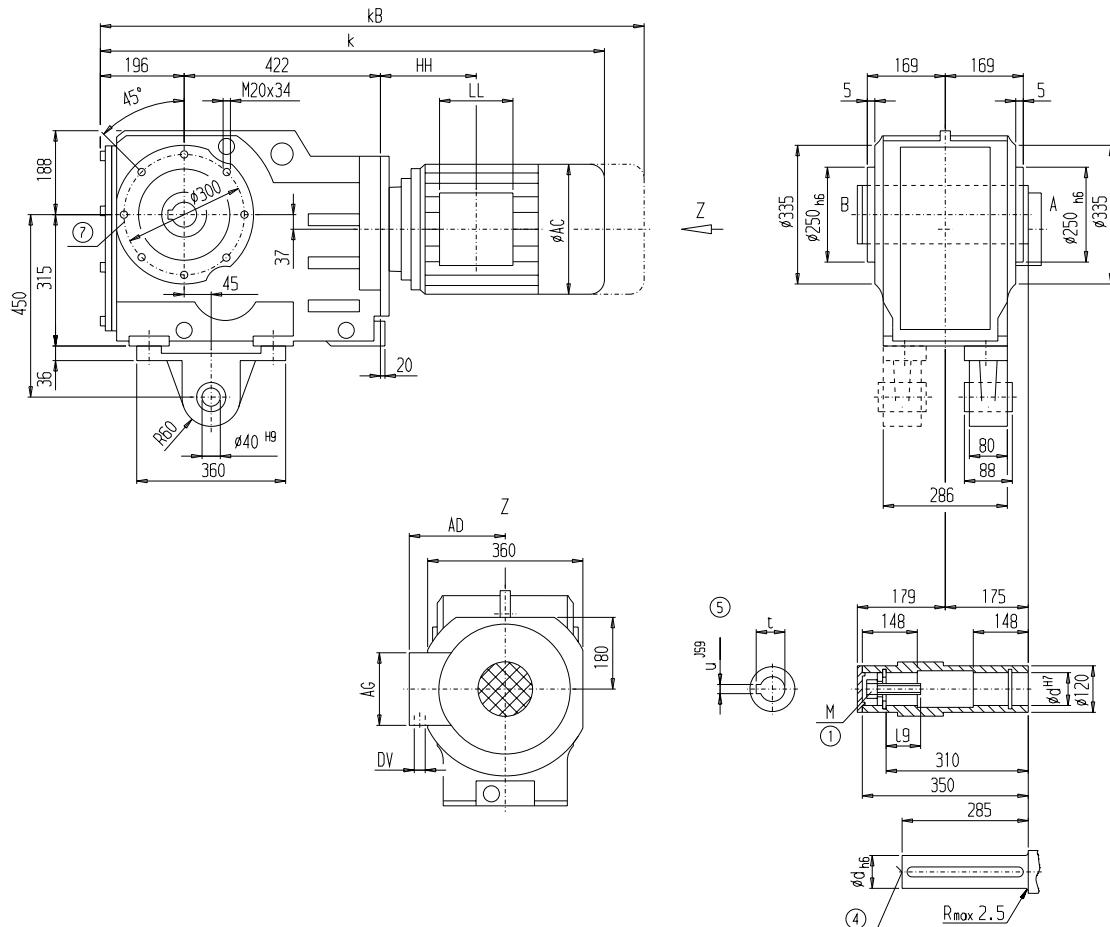
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAD148 (three-stage), shaft-mounted design with torque arm

KAD012



d	l9	M	t	u
90*	72.0	M24	95.4	25
80	63.5	M20	85.4	22

\*) Preferred series

Motor	KAD148								Weight KAD148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	940.0	1021.0	195.0	168.0	120	120	104.0	2xM32x1.5	319
LA112M	965.5	1046.5	219.0	181.0	120	120	105.5	2xM32x1.5	330
LA132S	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	339
LA132M	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	339
LA132ZM	1070.5	1172.5	259.0	195.0	140	140	145.0	2xM32x1.5	349
LA160M	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	379
LA160L	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	379
LG180ZM	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	500
LG180L	1183.5	1305.5	348.0	322.5	260	192	184.5	2xM40x1.5	470
LG180ZL	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	500
LG200L	1239.5	1365.5	385.0	301.0	260	192	214.5	2xM50x1.5	550
LG225S	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	626
LG225M	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	614
LG225ZM	1372.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	672
LG250M*	1600.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	794
LG250ZM*	1670.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	897

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

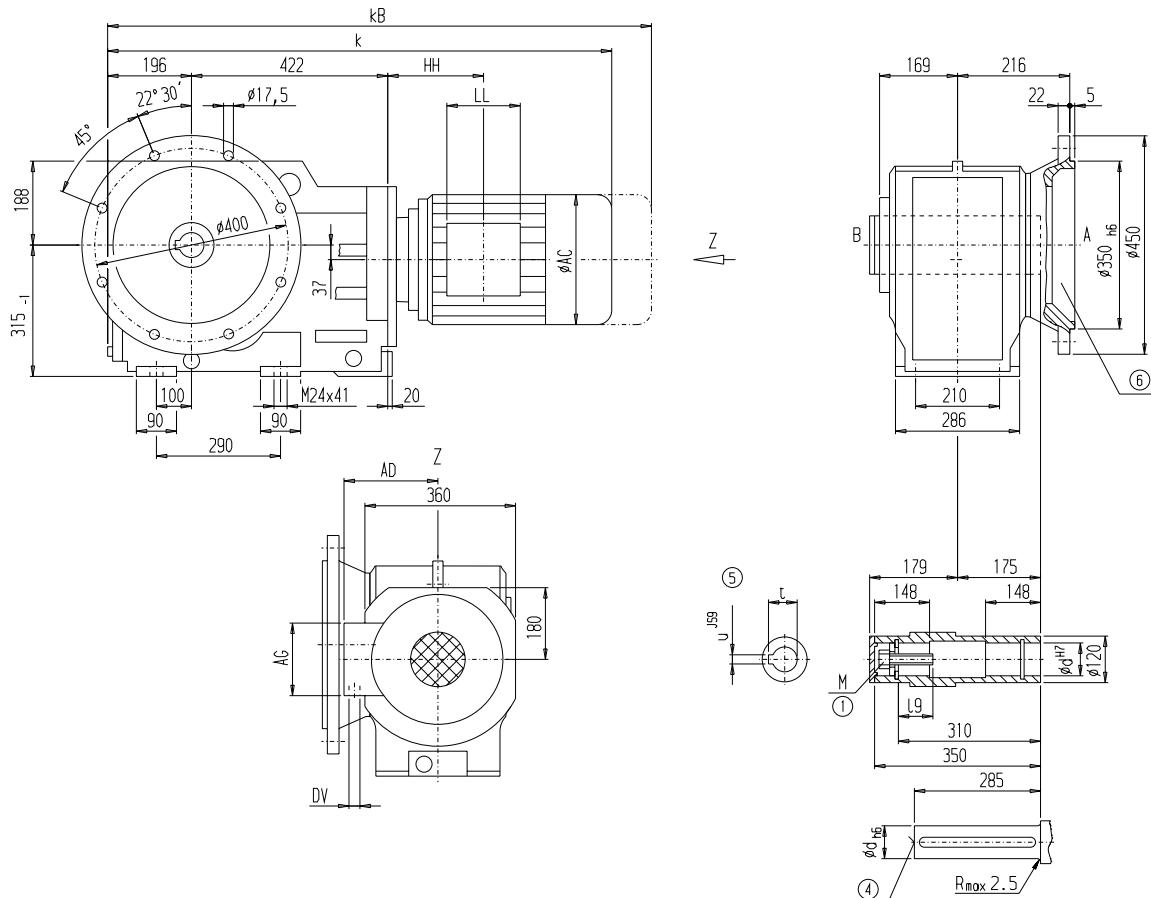
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit KAF148 (three-stage), shaft-mounted design with flange

KAF012



d	l9	M	t	u
90*	72.0	M24	95.4	25
80	63.5	M20	85.4	22

\*) Preferred series

Motor	KAF148								Weight
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	940.0	1021.0	195.0	168.0	120	120	104.0	2xM32x1.5	321
LA112M	965.5	1046.5	219.0	181.0	120	120	105.5	2xM32x1.5	333
LA132S	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	342
LA132M	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	342
LA132ZM	1070.5	1172.5	259.0	195.0	140	140	145.0	2xM32x1.5	351
LA160M	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	381
LA160L	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	381
LG180ZM	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	502
LG180L	1183.5	1305.5	348.0	322.5	260	192	184.5	2xM40x1.5	472
LG180ZL	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	502
LG200L	1239.5	1365.5	385.0	301.0	260	192	214.5	2xM50x1.5	552
LG225S	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	628
LG225M	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	616
LG225ZM	1372.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	674
LG250M*	1600.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	796
LG250ZM*	1670.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	899

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

⑥ For note, see page 4/224

\* Incl. adapter

AA On request

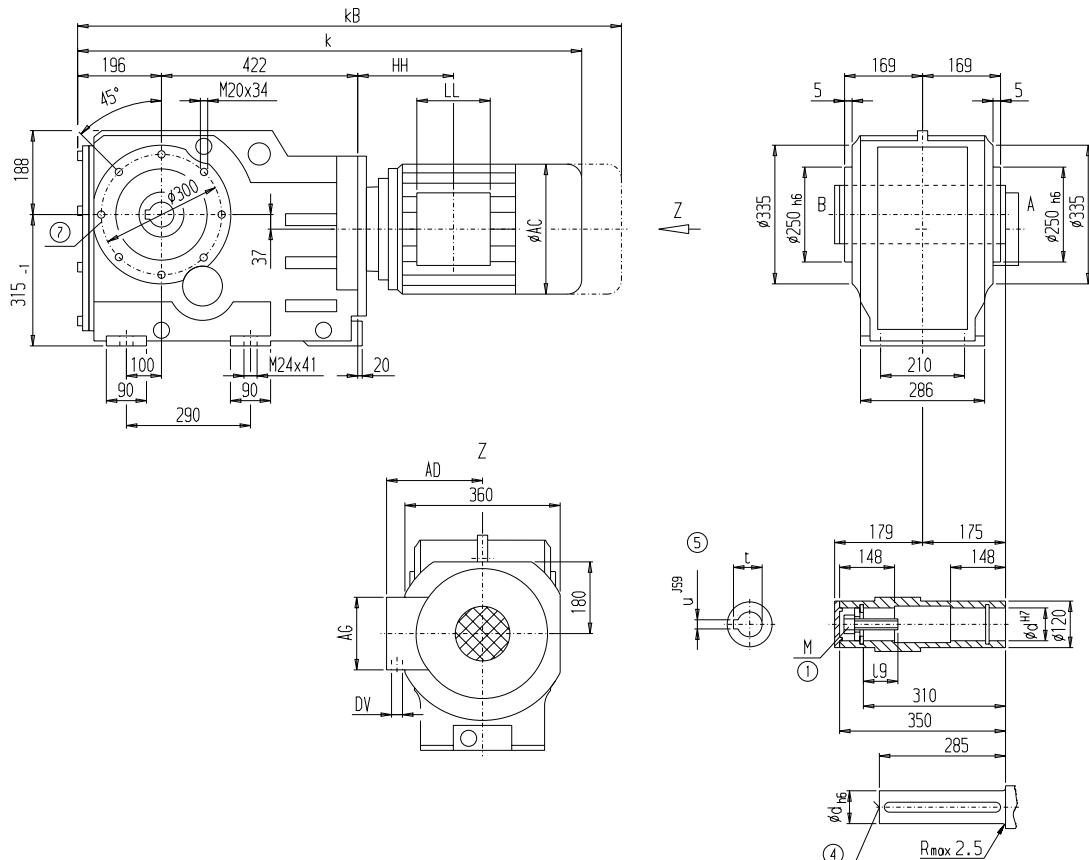
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZ148 (three-stage), shaft-mounted design with housing flange (C-type)

KAZ012



d	l9	M	t	u
90*	72.0	M24	95.4	25
80	63.5	M20	85.4	22

\*) Preferred series

Motor	KAZ148								Weight KAZ148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	940.0	1021.0	195.0	168.0	120	120	104.0	2xM32x1.5	302
LA112M	965.5	1046.5	219.0	181.0	120	120	105.5	2xM32x1.5	314
LA132S	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	323
LA132M	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	323
LA132ZM	1070.5	1172.5	259.0	195.0	140	140	145.0	2xM32x1.5	332
LA160M	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	362
LA160L	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	362
LG180ZM	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	483
LG180L	1183.5	1305.5	348.0	322.5	260	192	184.5	2xM40x1.5	453
LG180ZL	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	483
LG200L	1239.5	1365.5	385.0	301.0	260	192	214.5	2xM50x1.5	533
LG225S	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	609
LG225M	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	597
LG225ZM	1372.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	655
LG250M*	1600.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	777
LG250ZM*	1670.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	880

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

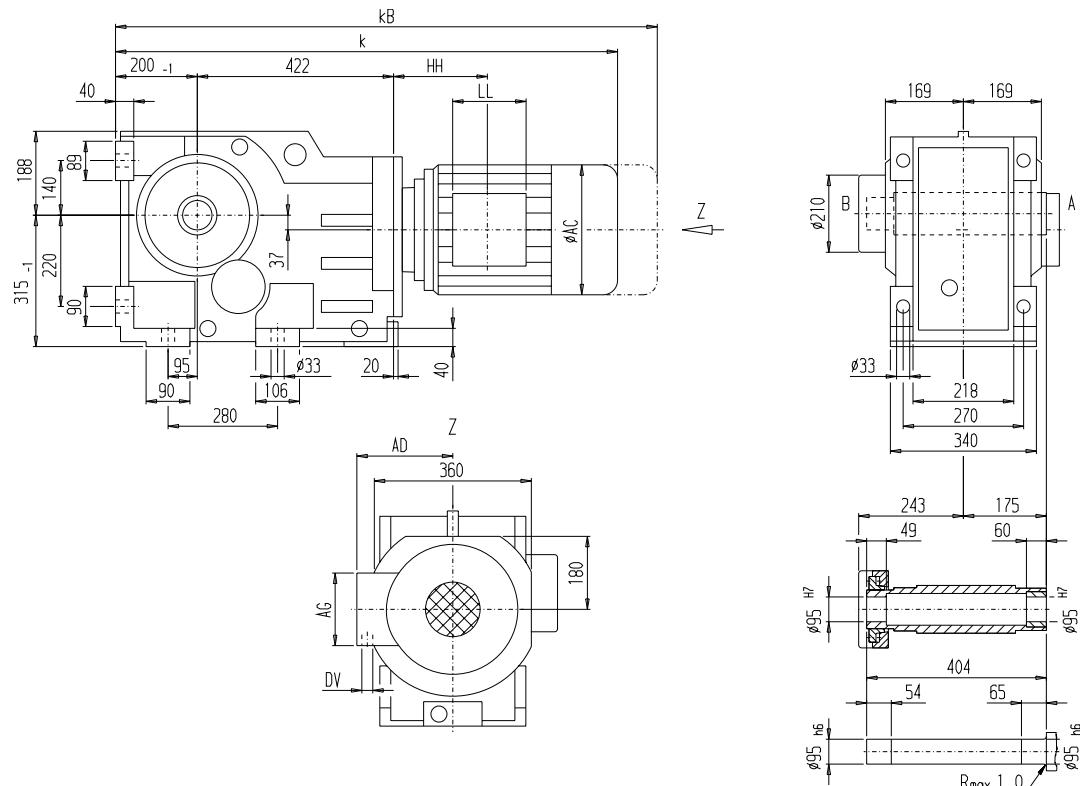
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit KAS148 (three-stage), shaft-mounted design with shrink disk

KAS012



Motor	KAS148								Weight KAS148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	944.0	1025.0	195.0	168.0	120	120	104.0	2xM32x1.5	298
LA112M	969.5	1050.5	219.0	181.0	120	120	105.5	2xM32x1.5	310
LA132S	1028.5	1130.5	259.0	195.0	140	140	145.0	2xM32x1.5	319
LA132M	1028.5	1130.5	259.0	195.0	140	140	145.0	2xM32x1.5	319
LA132ZM	1074.5	1176.5	259.0	195.0	140	140	145.0	2xM32x1.5	328
LA160M	1128.0	1246.5	313.5	227.0	165	165	167.5	2xM40x1.5	358
LA160L	1128.0	1246.5	313.5	227.0	165	165	167.5	2xM40x1.5	358
LG180ZM	1238.5	1360.5	348.0	322.5	260	192	184.5	2xM40x1.5	479
LG180L	1187.5	1309.5	348.0	322.5	260	192	184.5	2xM40x1.5	449
LG180ZL	1238.5	1360.5	348.0	322.5	260	192	184.5	2xM40x1.5	479
LG200L	1243.5	1369.5	385.0	301.0	260	192	214.5	2xM50x1.5	529
LG225S	1316.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	605
LG225M	1316.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	593
LG225ZM	1376.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	651
LG250M*	1604.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	773
LG250ZM*	1674.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	876

\* Incl. adapter

AA On request

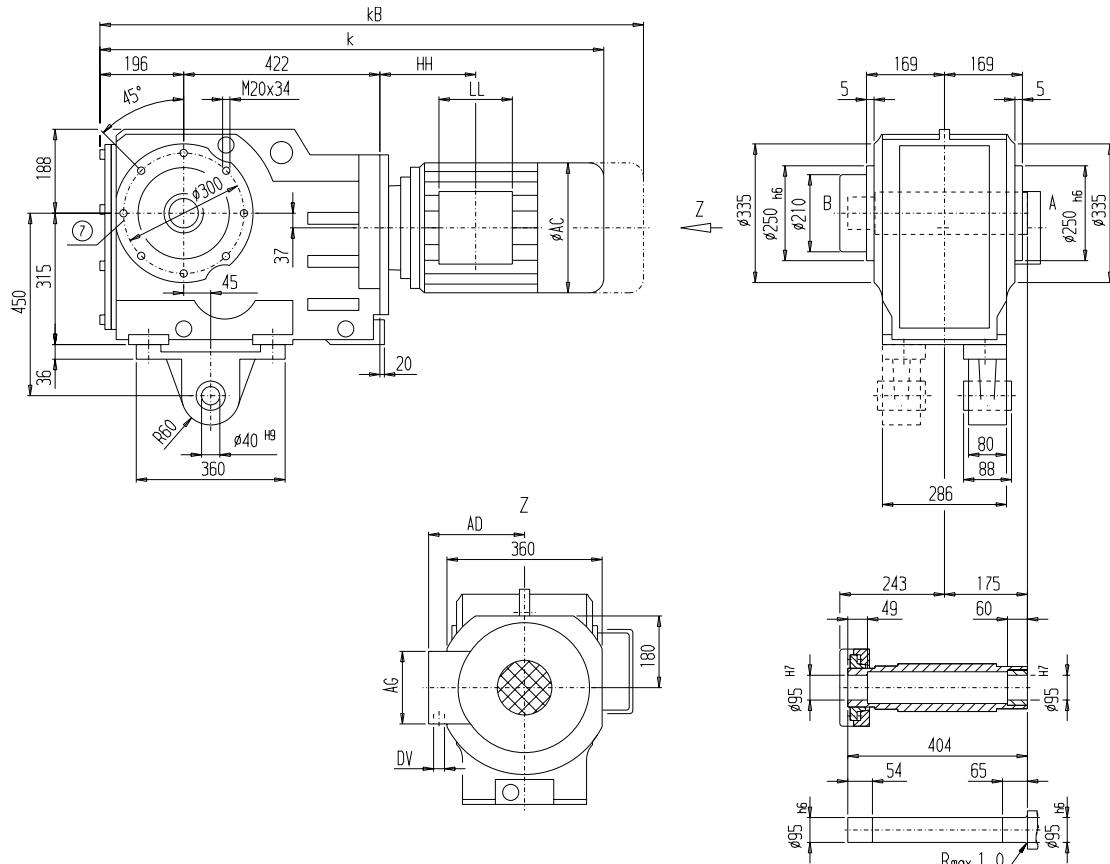
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KADS148 (three-stage), shaft-mounted design with torque arm and shrink disk

**KADS012**



Motor	KADS148								Weight KADS148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	940.0	1021.0	195.0	168.0	120	120	104.0	2xM32x1.5	326
LA112M	965.5	1046.5	219.0	181.0	120	120	105.5	2xM32x1.5	337
LA132S	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	346
LA132M	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	346
LA132ZM	1070.5	1172.5	259.0	195.0	140	140	145.0	2xM32x1.5	356
LA160M	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	386
LA160L	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	386
LG180ZM	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	507
LG180L	1183.5	1305.5	348.0	322.5	260	192	184.5	2xM40x1.5	477
LG180ZL	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	507
LG200L	1239.5	1365.5	385.0	301.0	260	192	214.5	2xM50x1.5	557
LG225S	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	633
LG225M	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	621
LG225ZM	1372.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	679
LG250M*	1600.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	801
LG250ZM*	1670.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	904

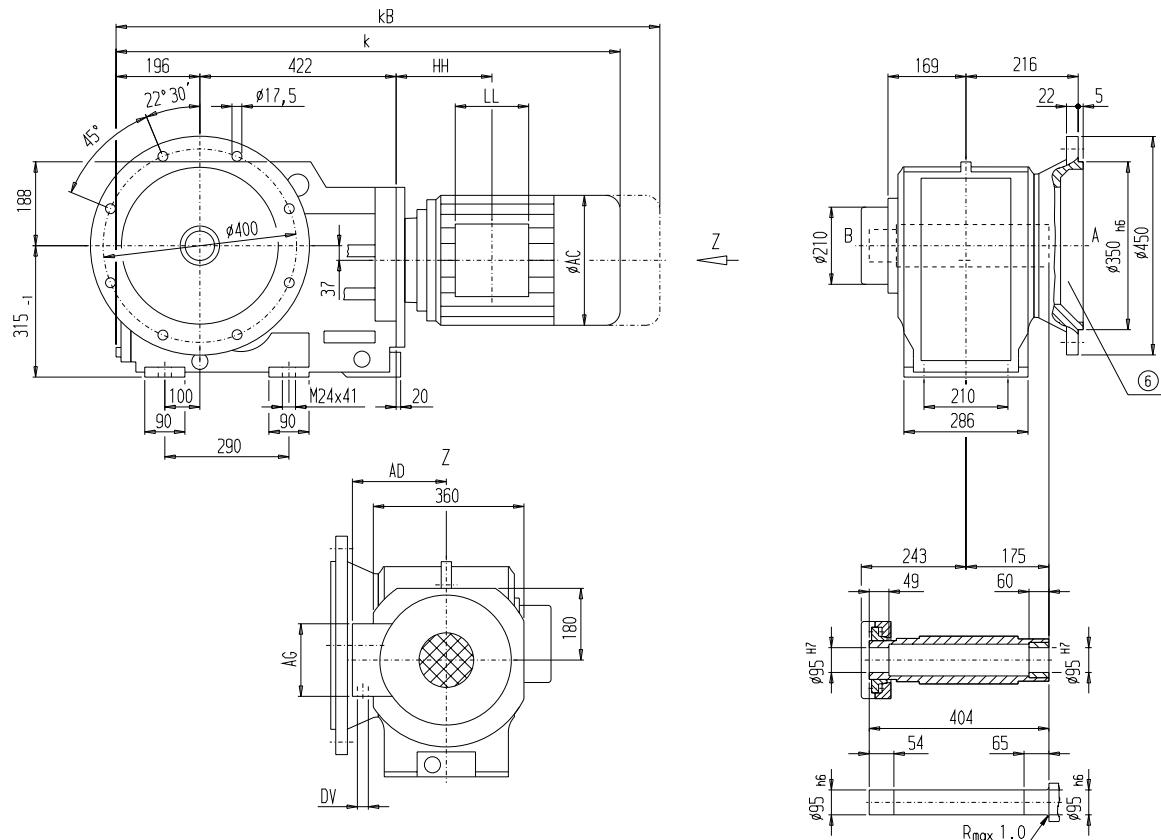
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit KAFS148 (three-stage), shaft-mounted design with flange and shrink disk

KAFS012



Motor	KAFS148								Weight KAFS148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	940.0	1021.0	195.0	168.0	120	120	104.0	2xM32x1.5	328
LA112M	965.5	1046.5	219.0	181.0	120	120	105.5	2xM32x1.5	340
LA132S	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	349
LA132M	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	349
LA132ZM	1070.5	1172.5	259.0	195.0	140	140	145.0	2xM32x1.5	358
LA160M	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	388
LA160L	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	388
LG180ZM	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	509
LG180L	1183.5	1305.5	348.0	322.5	260	192	184.5	2xM40x1.5	479
LG180ZL	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	509
LG200L	1239.5	1365.5	385.0	301.0	260	192	214.5	2xM50x1.5	559
LG225S	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	635
LG225M	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	623
LG225ZM	1372.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	681
LG250M*	1600.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	803
LG250ZM*	1670.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	906

⑥ For note, see page 4/224

\* Incl. adapter

AA On request

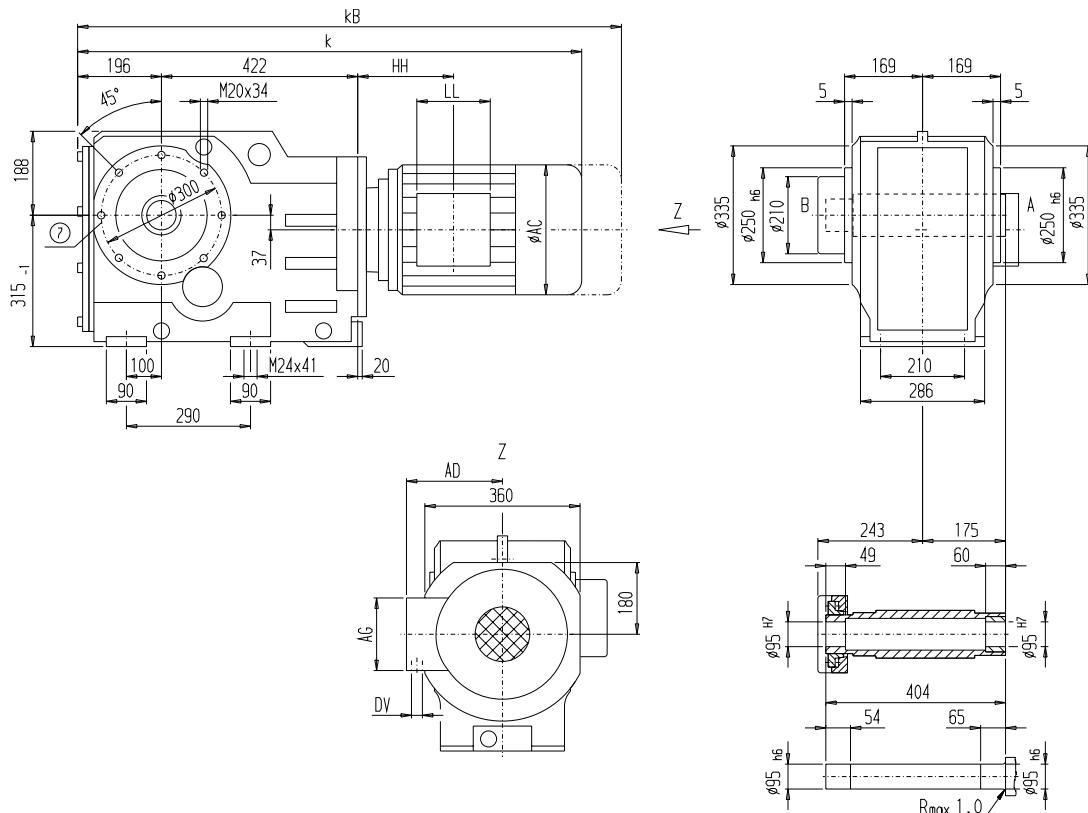
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZS148 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk

KAZS012



Motor	KAZS148								Weight KAZS148
	k	kB	AC	AD	AG	LL	HH	DV	
LA100L	940.0	1021.0	195.0	168.0	120	120	104.0	2xM32x1.5	309
LA112M	965.5	1046.5	219.0	181.0	120	120	105.5	2xM32x1.5	321
LA132S	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	330
LA132M	1024.5	1126.5	259.0	195.0	140	140	145.0	2xM32x1.5	330
LA132ZM	1070.5	1172.5	259.0	195.0	140	140	145.0	2xM32x1.5	339
LA160M	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	369
LA160L	1124.0	1242.5	313.5	227.0	165	165	167.5	2xM40x1.5	369
LG180ZM	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	490
LG180L	1183.5	1305.5	348.0	322.5	260	192	184.5	2xM40x1.5	460
LG180ZL	1234.5	1356.5	348.0	322.5	260	192	184.5	2xM40x1.5	490
LG200L	1239.5	1365.5	385.0	301.0	260	192	214.5	2xM50x1.5	540
LG225S	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	616
LG225M	1312.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	604
LG225ZM	1372.0	AA	439.0	325.0	260	192	250.0	2xM50x1.5	662
LG250M*	1600.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	784
LG250ZM*	1670.5	AA	489.0	392.0	300	236	237.5	2xM63x1.5	887

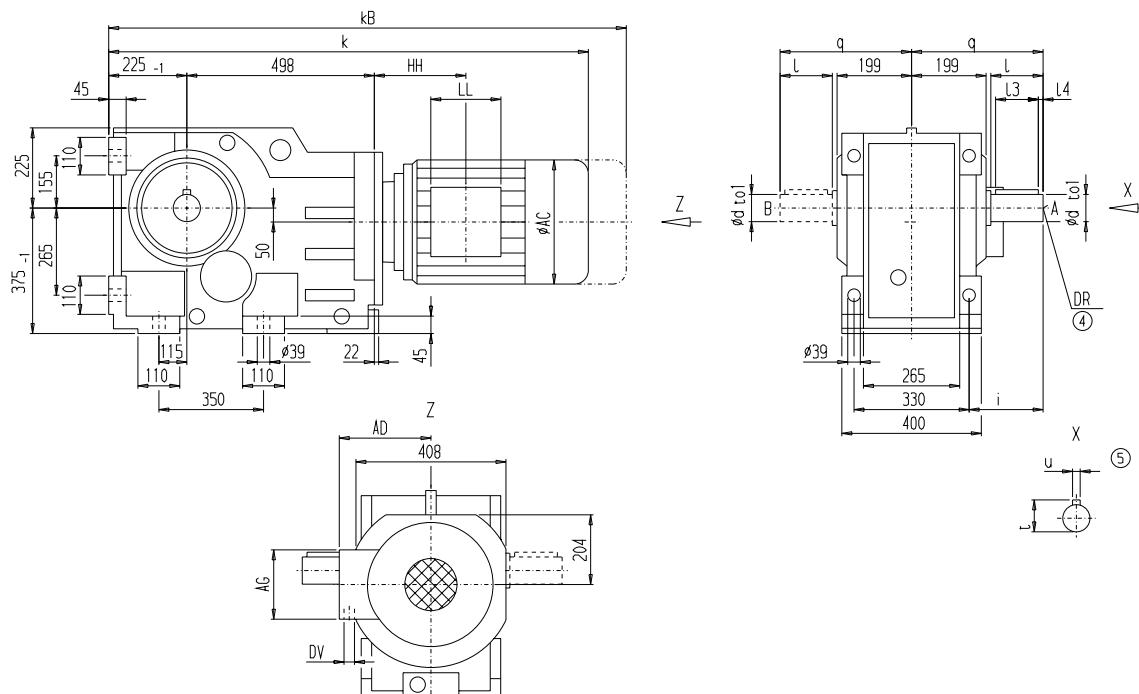
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit K168 (three-stage), housing-flange-mounted design (C-type)

K012



d	to1	I	I3	I4	t	u	i	q	DR
110	m6	210	180	15	116	28	250	415	M24x50
120*	m6	210	180	15	127	32	250	415	

Motor	K168									Weight
	k	kB	AC	AD	AG	LL	HH	DV	K168	
LA132S	1121.5	1223.5	259.0	195.0	140	140	137.0	2xM32x1.5	511	
LA132M	1121.5	1223.5	259.0	195.0	140	140	137.0	2xM32x1.5	511	
LA132ZM	1167.5	1269.5	259.0	195.0	140	140	137.0	2xM32x1.5	520	
LA160M	1221.5	1340.0	313.5	227.0	165	165	160.0	2xM40x1.5	545	
LA160L	1221.5	1340.0	313.5	227.0	165	165	160.0	2xM40x1.5	545	
LG180ZM	1332.0	1454.0	348.0	322.5	260	192	177.0	2xM40x1.5	671	
LG180L	1281.0	1403.0	348.0	322.5	260	192	177.0	2xM40x1.5	641	
LG180ZL	1332.0	1454.0	348.0	322.5	260	192	177.0	2xM40x1.5	671	
LG200L	1337.0	1463.0	385.0	301.0	260	192	207.0	2xM50x1.5	721	
LG225S	1409.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	794	
LG225M	1409.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	782	
LG225ZM	1469.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	840	
LG250M	1504.5	AA	489.0	392.0	300	236	278.0	2xM63x1.5	884	
LG250ZM	1574.5	AA	489.0	392.0	300	236	278.0	2xM63x1.5	987	
LG280S*	1780.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1115	
LG280M*	1780.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1127	
LG280ZM*	1890.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1215	

④ DIN 332

⑤ Parallel key / keyway DIN 6885

\* Incl. adapter

AA On request

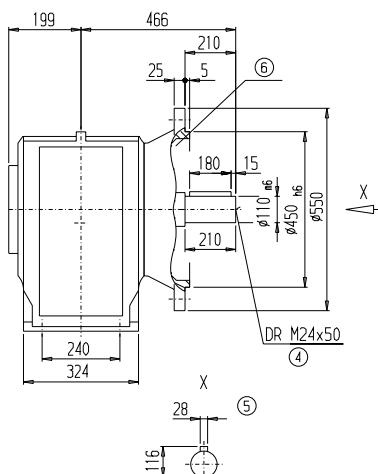
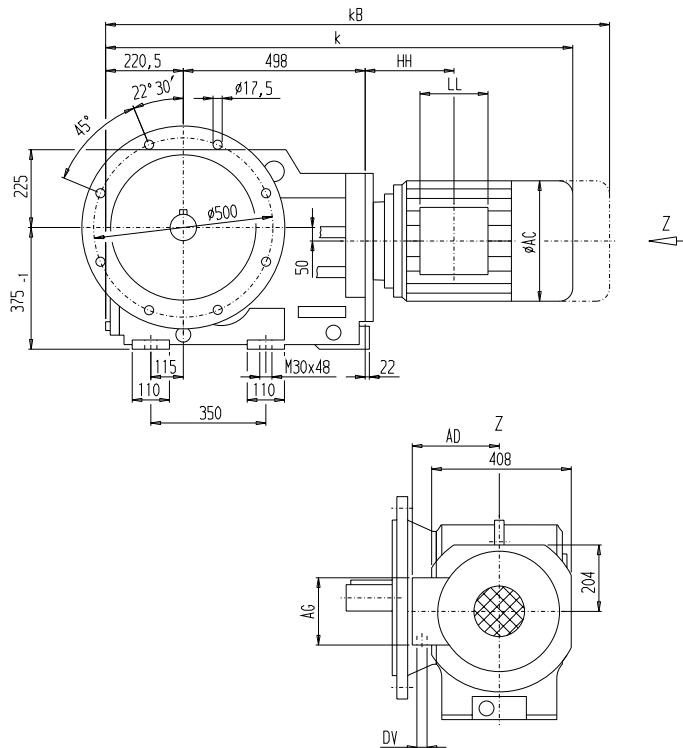
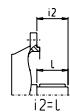
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KF168 (three-stage), flange-mounted design (A-type)

KF012



Motor	KF168									Weight KF168
	k	kB	AC	AD	AG	LL	HH	DV		
LA132S	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5		573
LA132M	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5		573
LA132ZM	1163.0	1265.0	259.0	195.0	140	140	137.0	2xM32x1.5		582
LA160M	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5		607
LA160L	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5		607
LG180ZM	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5		733
LG180L	1276.5	1398.5	348.0	322.5	260	192	177.0	2xM40x1.5		703
LG180ZL	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5		733
LG200L	1332.5	1458.5	385.0	301.0	260	192	207.0	2xM50x1.5		783
LG225S	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5		856
LG225M	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5		845
LG225ZM	1465.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5		903
LG250M	1500.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5		947
LG250ZM	1570.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5		1050
LG280S*	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5		1180
LG280M*	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5		1190
LG280ZM*	1886.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5		1278

④ DIN 332

⑥ For note, see page 4/224

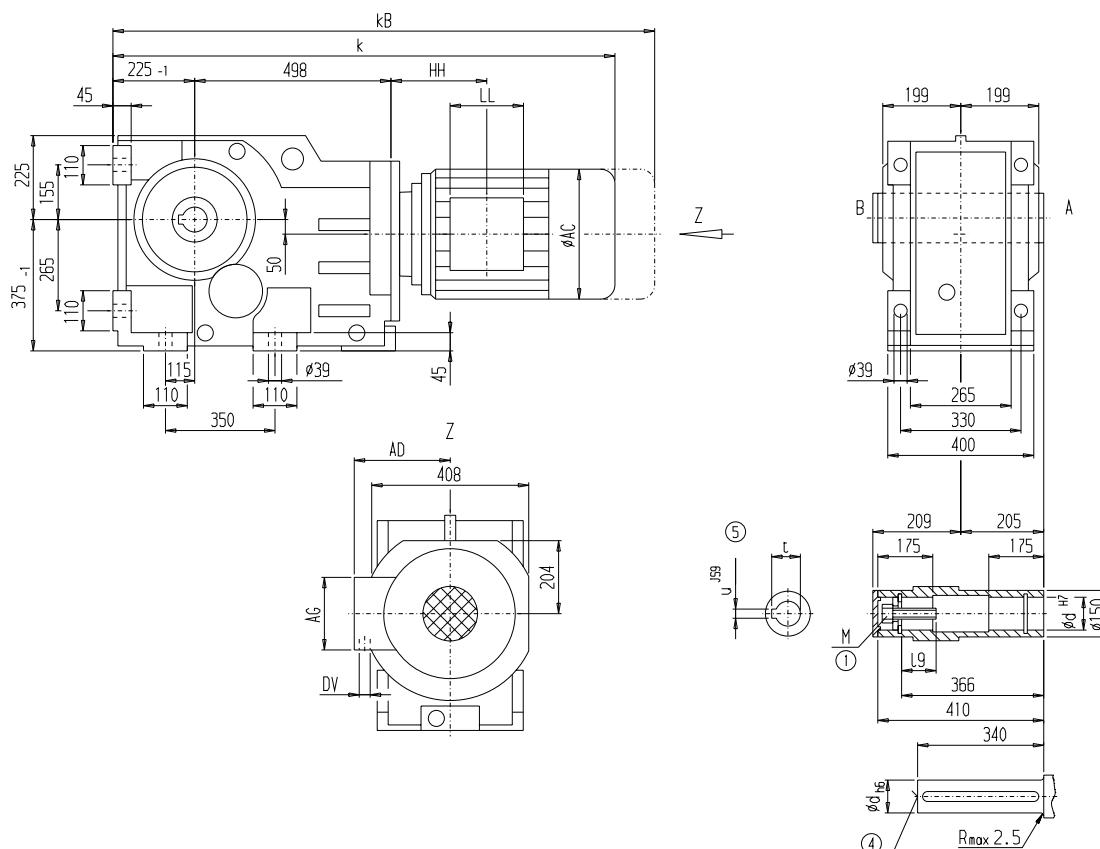
⑤ Parallel key / keyway DIN 6885

\* Incl. adapter

AA On request

#### Gear unit KA168 (three-stage), housing-flange-mounted design (C-type)

KA012



d	l9	M	t	u
110*	73	M24	116.4	28
100	72	M24	106.4	28

### **\*) Preferred series**

	KA168								Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KA168
LA132S	1121.5	1223.5	259.0	195.0	140	140	137.0	2xM32x1.5	483
LA132M	1121.5	1223.5	259.0	195.0	140	140	137.0	2xM32x1.5	483
LA132ZM	1167.5	1269.5	259.0	195.0	140	140	137.0	2xM32x1.5	492
LA160M	1221.5	1340.0	313.5	227.0	165	165	160.0	2xM40x1.5	517
LA160L	1221.5	1340.0	313.5	227.0	165	165	160.0	2xM40x1.5	517
LG180ZM	1332.0	1454.0	348.0	322.5	260	192	177.0	2xM40x1.5	643
LG180L	1281.0	1403.0	348.0	322.5	260	192	177.0	2xM40x1.5	613
LG180ZL	1332.0	1454.0	348.0	322.5	260	192	177.0	2xM40x1.5	643
LG200L	1337.0	1463.0	385.0	301.0	260	192)	207.0	2xM50x1.5	693
LG225S	1409.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	766
LG225M	1409.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	754
LG225ZM	1469.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	712
LG250M	1504.5	AA	489.0	392.0	300	236	278.0	2xM63x1.5	856
LG250ZM	1574.5	AA	489.0	392.0	300	236	278.0	2xM63x1.5	959
LG280S*	1780.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1087
LG280M*	1780.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1099
LG280ZM*	1890.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1187

④ DIN332

④ DIN352  
⑤ Parallel key / keyway DIN 6885

① EN 24014

\* Incl. adapter

AA On request

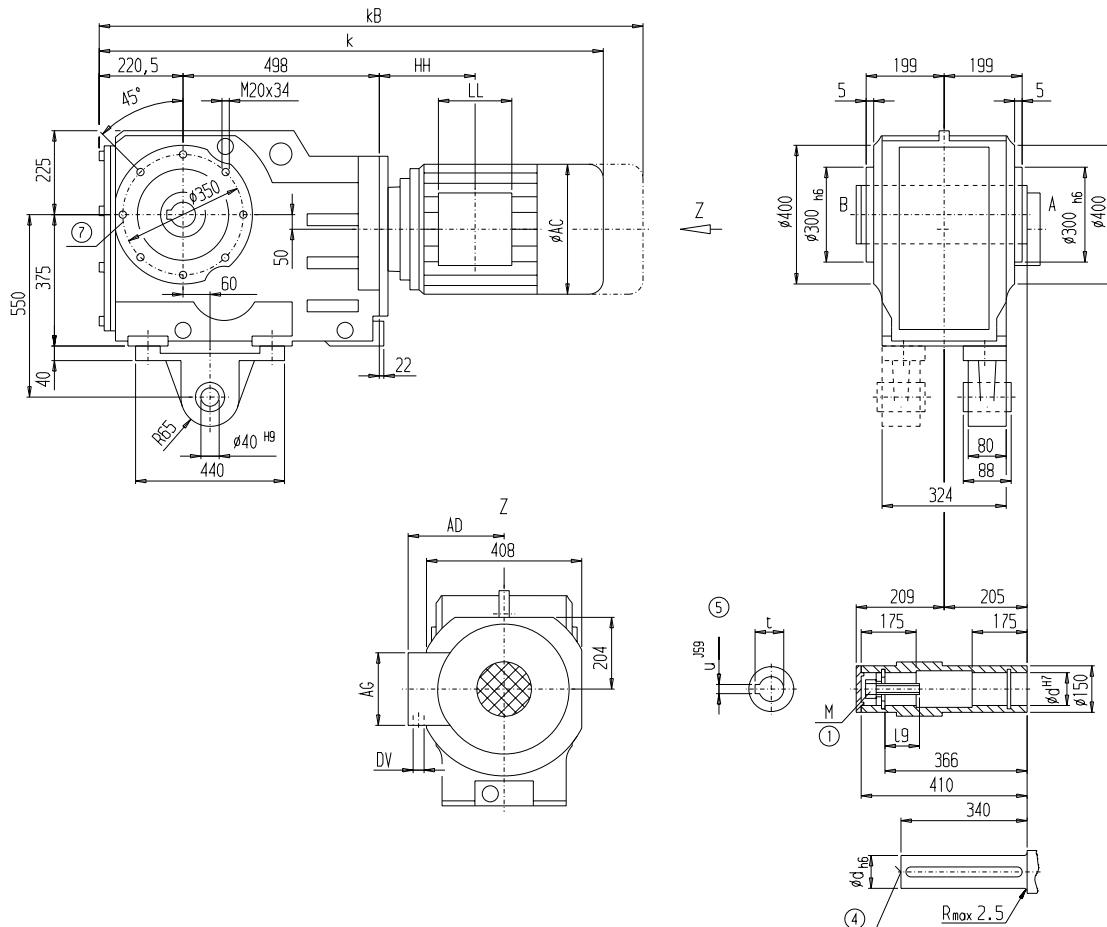
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAD168 (three-stage), shaft-mounted design with torque arm

KAD012



d	I9	M	t	u
110*	73	M24	116.4	28
100	72	M24	106.4	28

\*) Preferred series

Motor	KAD168								Weight KAD168
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	519
LA132M	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	519
LA132ZM	1163.0	1265.0	259.0	195.0	140	140	137.0	2xM32x1.5	529
LA160M	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	553
LA160L	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	553
LG180ZM	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	679
LG180L	1276.5	1398.5	348.0	322.5	260	192	177.0	2xM40x1.5	649
LG180ZL	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	679
LG200L	1332.5	1458.5	385.0	301.0	260	192	207.0	2xM50x1.5	729
LG225S	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	802
LG225M	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	791
LG225ZM	1465.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	851
LG250M	1500.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	893
LG250ZM	1570.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	996
LG280S*	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1126
LG280M*	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1136
LG280ZM*	1886.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1224

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

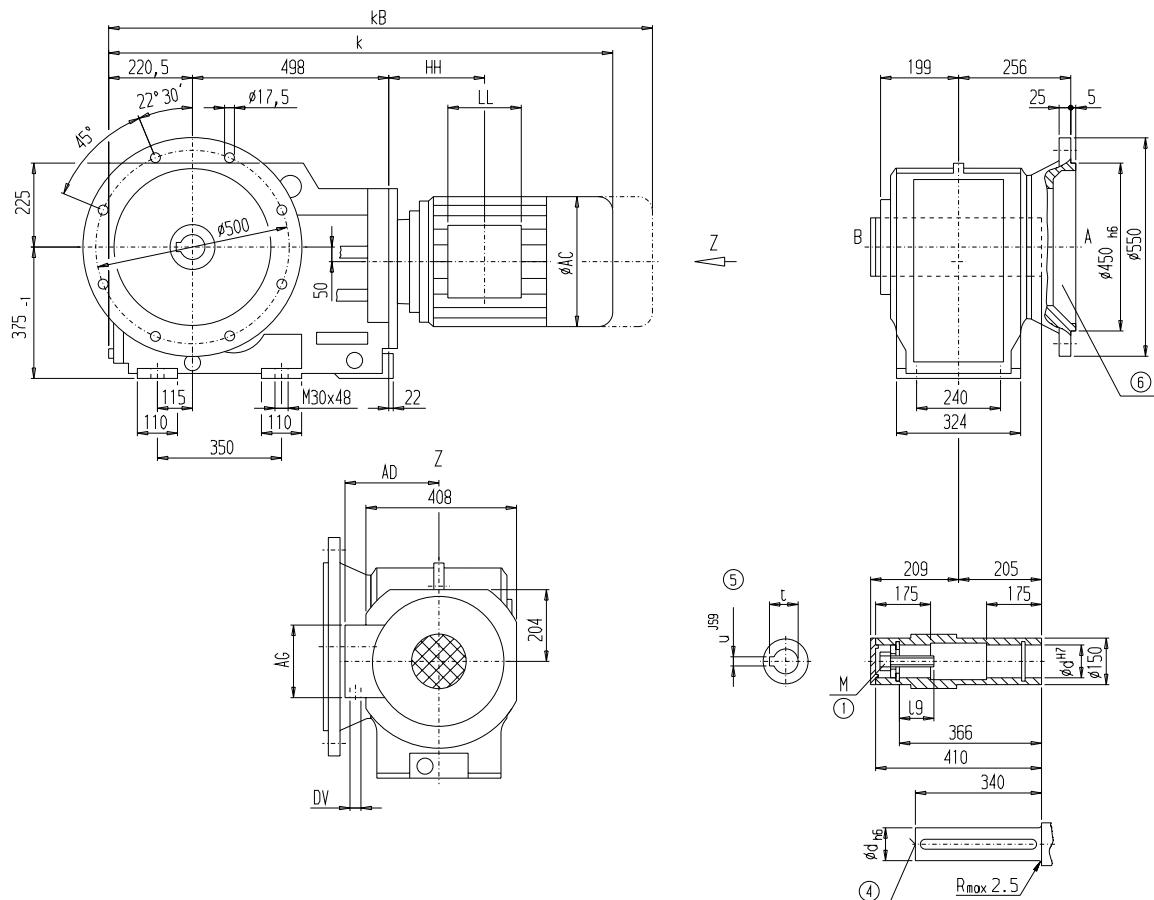
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit KAF168 (three-stage), shaft-mounted design with flange

KAF012



d	l9	M	t	u
110*	73	M24	116.4	28
100	72	M24	106.4	28

\*) Preferred series

KAF168									Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAF168
LA132S	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	528
LA132M	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	528
LA132ZM	1163.0	1265.0	259.0	195.0	140	140	137.0	2xM32x1.5	537
LA160M	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	562
LA160L	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	562
LG180ZM	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	688
LG180L	1276.5	1398.5	348.0	322.5	260	192	177.0	2xM40x1.5	658
LG180ZL	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	688
LG200L	1332.5	1458.5	385.0	301.0	260	192	207.0	2xM50x1.5	738
LG225S	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	811
LG225M	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	800
LG225ZM	1465.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	858
LG250M	1500.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	902
LG250ZM	1570.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	1005
LG280S*	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1135
LG280M*	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1145
LG280ZM*	1886.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1233

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

⑥ For note, see page 4/224

\* Incl. adapter

AA On request

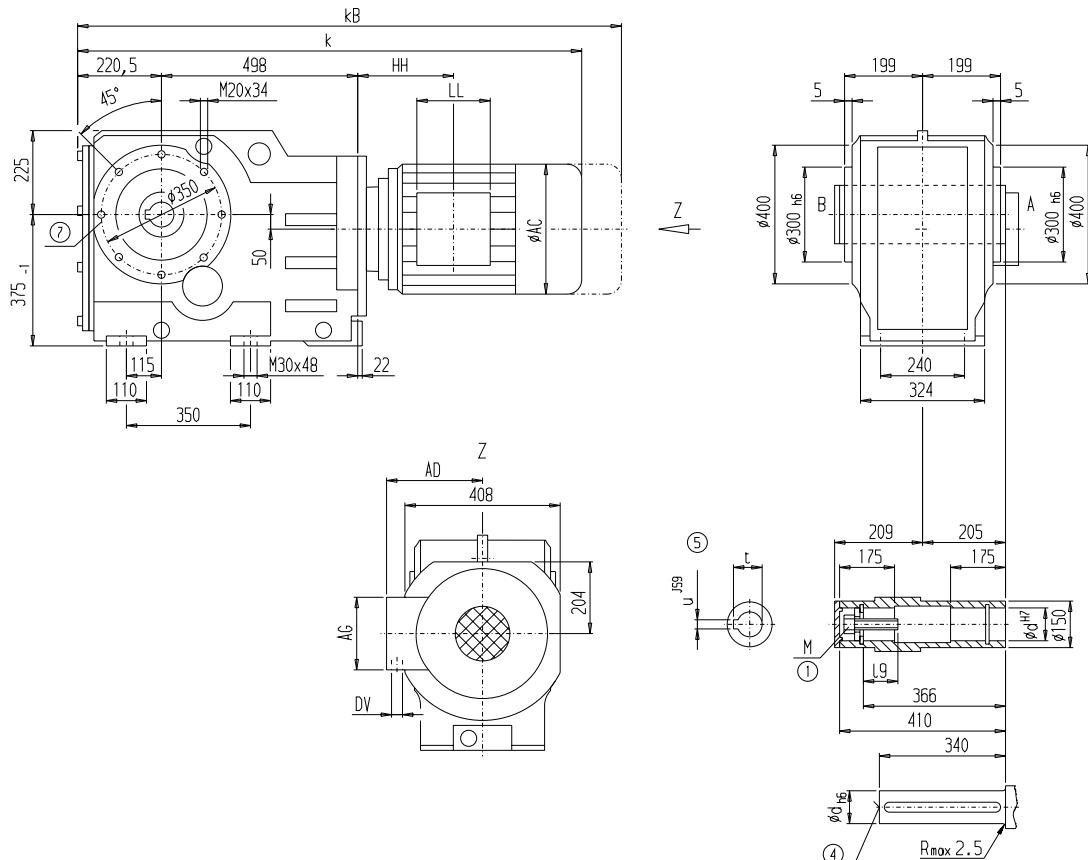
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZ168 (three-stage), shaft-mounted design with housing flange (C-type)

KAZ012



d	l9	M	t	u
110*	73	M24	116.4	28
100	72	M24	106.4	28

\*) Preferred series

Motor	KAZ168								Weight KAZ168
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	496
LA132M	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	496
LA132ZM	1163.0	1265.0	259.0	195.0	140	140	137.0	2xM32x1.5	505
LA160M	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	530
LA160L	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	530
LG180ZM	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	655
LG180L	1276.5	1398.5	348.0	322.5	260	192	177.0	2xM40x1.5	625
LG180ZL	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	655
LG200L	1332.5	1458.5	385.0	301.0	260	192	207.0	2xM50x1.5	705
LG225S	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	778
LG225M	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	767
LG225ZM	1465.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	825
LG250M	1500.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	869
LG250ZM	1570.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	972
LG280S*	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1102
LG280M*	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1112
LG280ZM*	1886.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1200

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

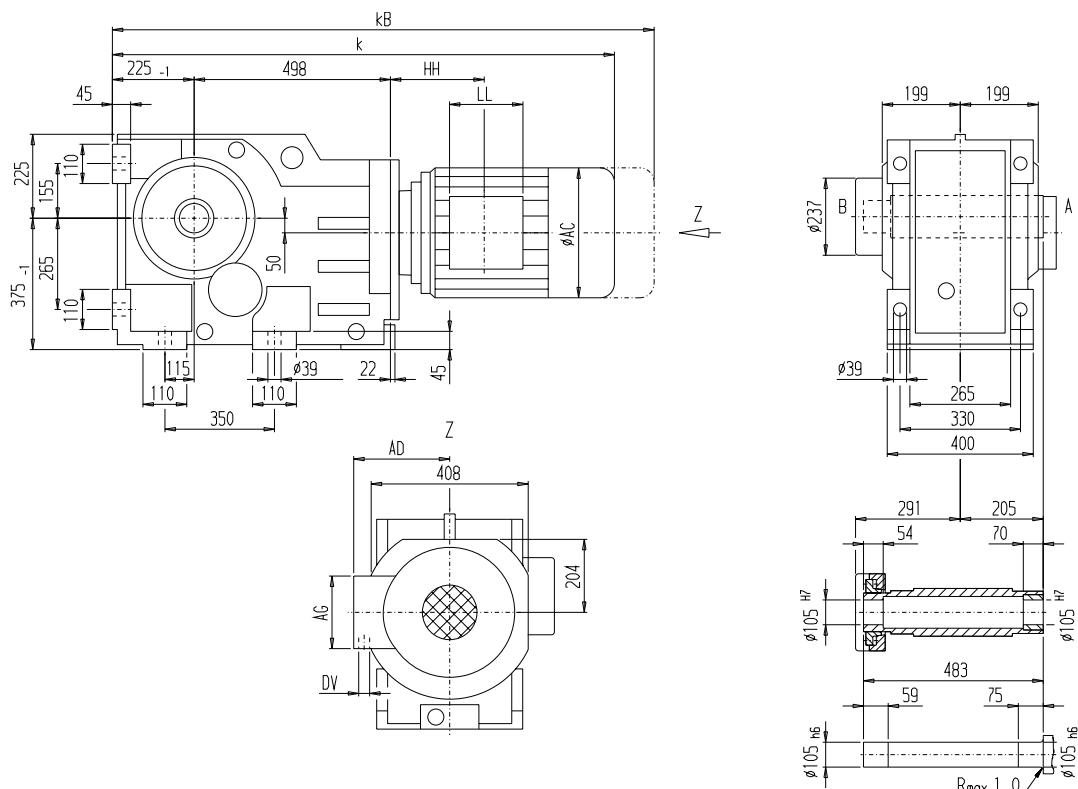
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit KAS168 (three-stage), shaft-mounted design with shrink disk

KAS012



	KAS168									Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAS168	
LA132S	1121.5	1223.5	259.0	195.0	140	140	137.0	2xM32x1.5	493	
LA132M	1121.5	1223.5	259.0	195.0	140	140	137.0	2xM32x1.5	493	
LA132ZM	1167.5	1269.5	259.0	195.0	140	140	137.0	2xM32x1.5	503	
LA160M	1221.5	1340.0	313.5	227.0	165	165	160.0	2xM40x1.5	527	
LA160L	1221.5	1340.0	313.5	227.0	165	165	160.0	2xM40x1.5	527	
LG180ZM	1332.0	1454.0	348.0	322.5	260	192	177.0	2xM40x1.5	653	
LG180L	1281.0	1403.0	348.0	322.5	260	192	177.0	2xM40x1.5	623	
LG180ZL	1332.0	1454.0	348.0	322.5	260	192	177.0	2xM40x1.5	653	
LG200L	1337.0	1463.0	385.0	301.0	260	192	207.0	2xM50x1.5	703	
LG225S	1409.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	776	
LG225M	1409.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	764	
LG225ZM	1469.5	AA	439.0	325.0	260	192	242.5	2xM50x1.5	822	
LG250M	1504.5	AA	489.0	392.0	300	236	278.0	2xM63x1.5	866	
LG250ZM	1574.5	AA	489.0	392.0	300	236	278.0	2xM63x1.5	969	
LG280S	1780.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1097	
LG280M	1780.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1109	
LG280ZM	1890.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1197	

\* Incl. adapter

AA On request

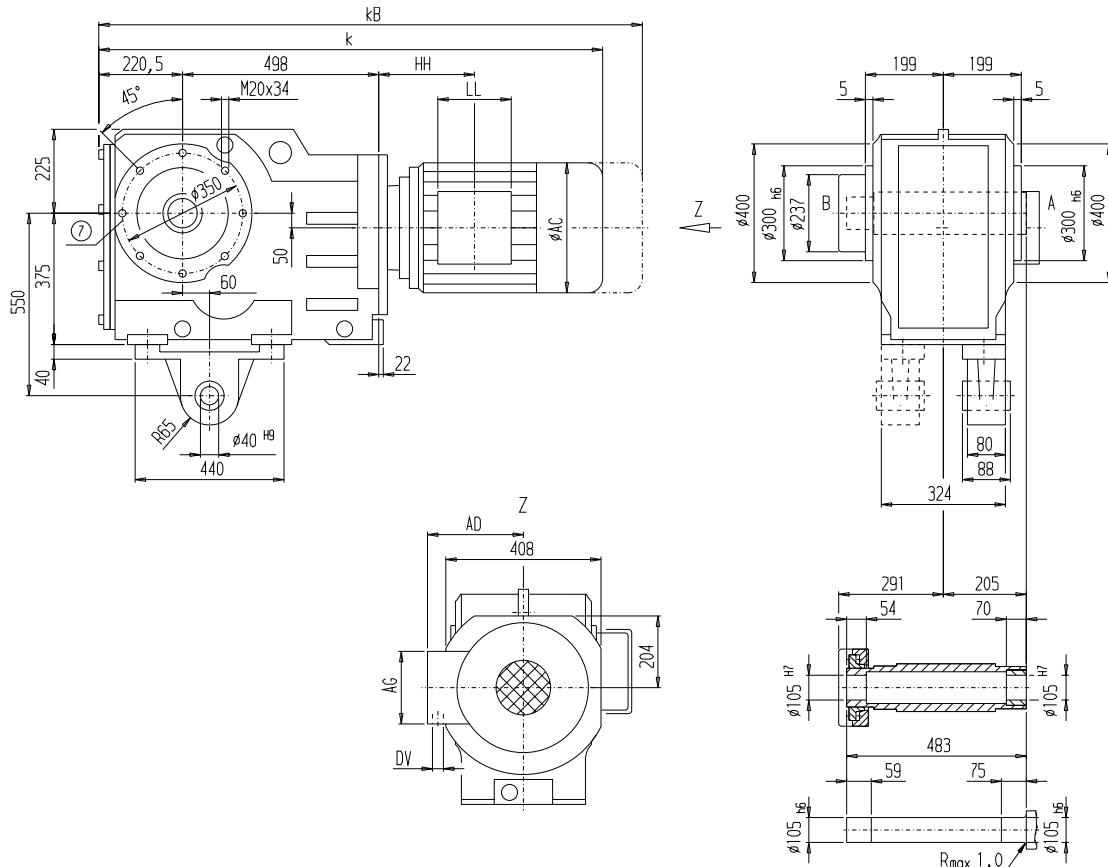
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KADS168 (three-stage), shaft-mounted design with torque arm and shrink disk

**KADS012**



Motor	k	kB	AC	AD	AG	LL	HH	DV	Weight KADS168
LA132S	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	530
LA132M	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	530
LA132ZM	1163.0	1265.0	259.0	195.0	140	140	137.0	2xM32x1.5	539
LA160M	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	564
LA160L	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	564
LG180ZM	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	689
LG180L	1276.5	1398.5	348.0	322.5	260	192	177.0	2xM40x1.5	659
LG180ZL	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	689
LG200L	1332.5	1458.5	385.0	301.0	260	192	207.0	2xM50x1.5	739
LG225S	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	812
LG225M	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	801
LG225ZM	1465.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	859
LG250M	1500.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	903
LG250ZM	1570.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	1006
LG280S	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1136
LG280M	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1146
LG280ZM	1886.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1234

⑦ For note, see page 4/225

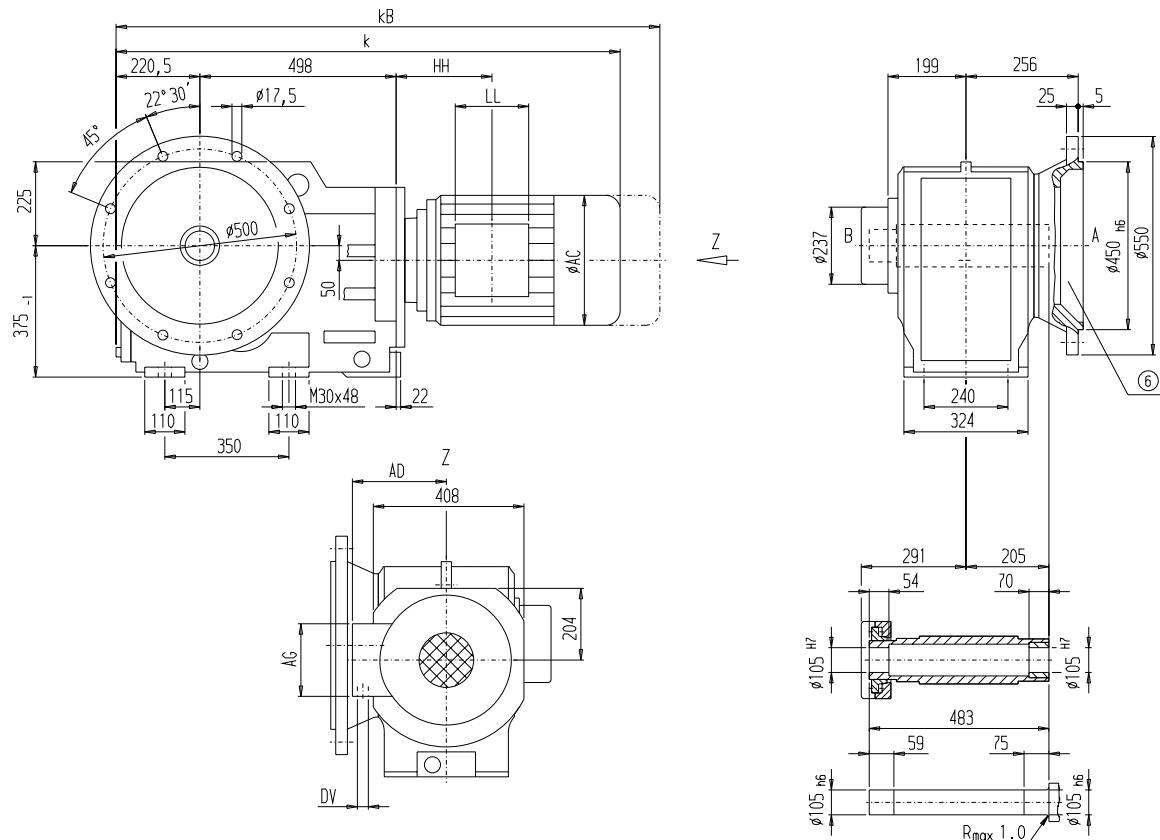
\* Incl. adapter

AA On request

Dimensions in brackets

Gear unit KAFS168 (three-stage), shaft-mounted design with flange and shrink disk

KAFS012



4

Motor	k	kB	AC	AD	AG	LL	HH	DV	Weight KAFS168
LA132S	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	538
LA132M	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	538
LA132ZM	1163.0	1265.0	259.0	195.0	140	140	137.0	2xM32x1.5	548
LA160M	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	572
LA160L	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	572
LG180ZM	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	698
LG180L	1276.5	1398.5	348.0	322.5	260	192	177.0	2xM40x1.5	668
LG180ZL	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	698
LG200L	1332.5	1458.5	385.0	301.0	260	192	207.0	2xM50x1.5	748
LG225S	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	821
LG225M	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	810
LG225ZM	1465.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	868
LG250M	1500.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	912
LG250ZM	1570.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	1015
LG280S	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1145
LG280M	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1155
LG280ZM	1886.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1243

⑥ For note, see page 4/224

\* Incl. adapter

AA On request

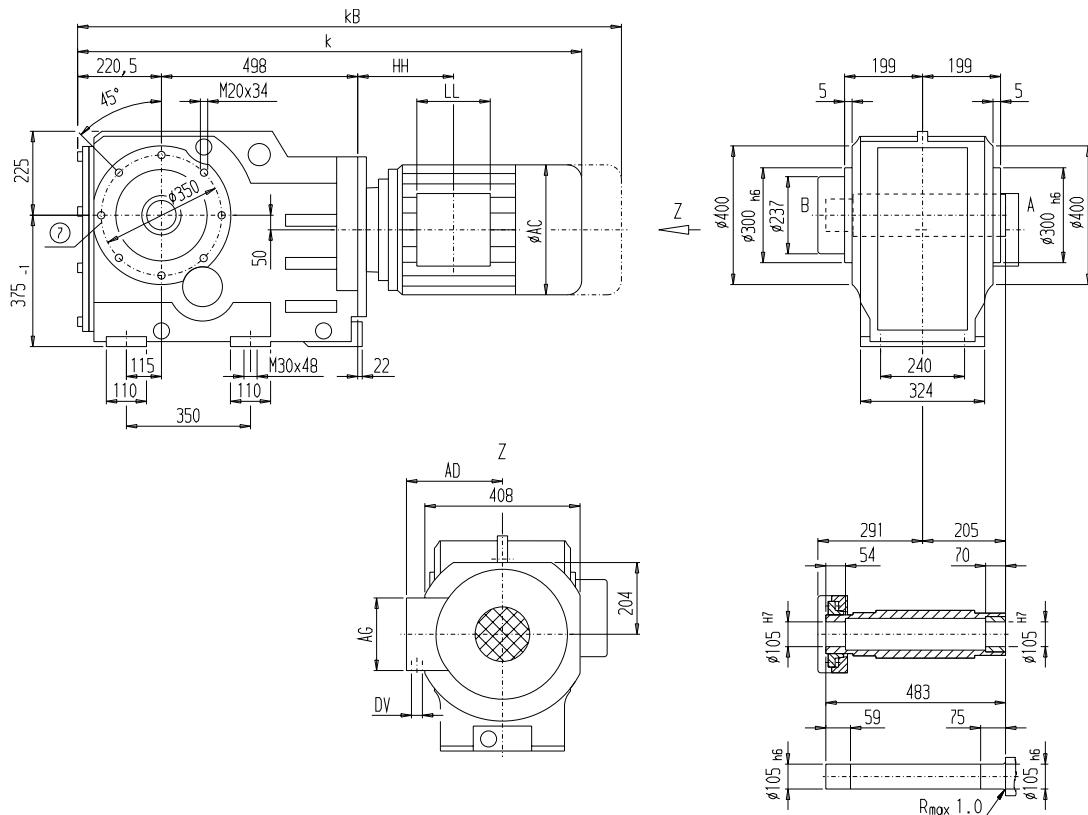
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAZS168 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk

KAZS012



Motor	k	kB	AC	AD	AG	LL	HH	DV	Weight KAZS168
LA132S	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	506
LA132M	1117.0	1219.0	259.0	195.0	140	140	137.0	2xM32x1.5	506
LA132ZM	1163.0	1265.0	259.0	195.0	140	140	137.0	2xM32x1.5	515
LA160M	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	540
LA160L	1217.0	1335.5	313.5	227.0	165	165	160.0	2xM40x1.5	540
LG180ZM	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	666
LG180L	1276.5	1398.5	348.0	322.5	260	192	177.0	2xM40x1.5	636
LG180ZL	1327.5	1449.5	348.0	322.5	260	192	177.0	2xM40x1.5	666
LG200L	1332.5	1458.5	385.0	301.0	260	192	207.0	2xM50x1.5	716
LG225S	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	789
LG225M	1405.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	778
LG225ZM	1465.0	AA	439.0	325.0	260	192	242.5	2xM50x1.5	836
LG250M	1500.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	880
LG250ZM	1570.0	AA	489.0	392.0	300	236	278.0	2xM63x1.5	983
LG280S	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1113
LG280M	1776.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1123
LG280ZM	1886.0	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1211

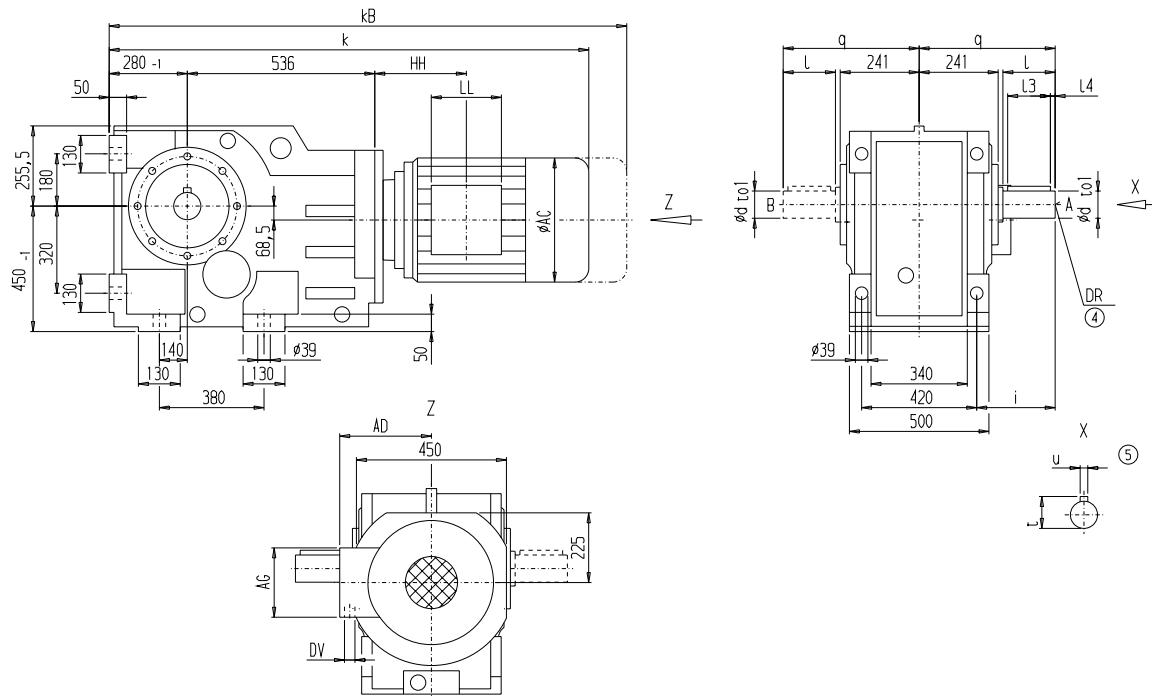
⑦ For note, see page 4/225

\* Incl. adapter

AA On request

Gear unit K188 (three-stage), housing-flange-mounted design (C-type)

K012



d	to1	I	I3	I4	t	u	i	q	DR
120	m6	210	180	15	127	32	250	460	M24x50
140*	m6	250	220	10	148	36	290	500	

\*) Preferred series

Motor	K188								Weight K188
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	777
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	777
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	787
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	811
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	811
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	937
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	907
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	937
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	987
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1059
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1047
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1105
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1149
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1252
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1278
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1384
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1472
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1578
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1658
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1803
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2205

④ DIN 332

⑤ Parallel key / keyway DIN 6885

\* Incl. adapter

AA On request

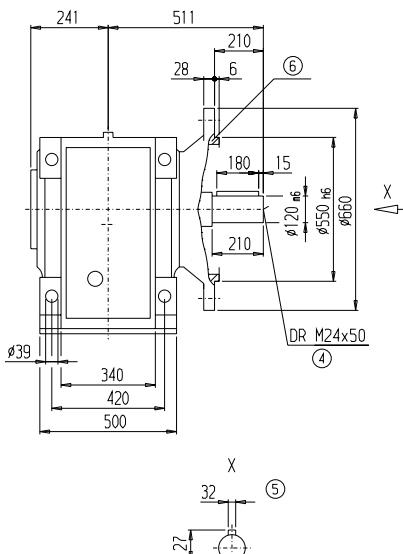
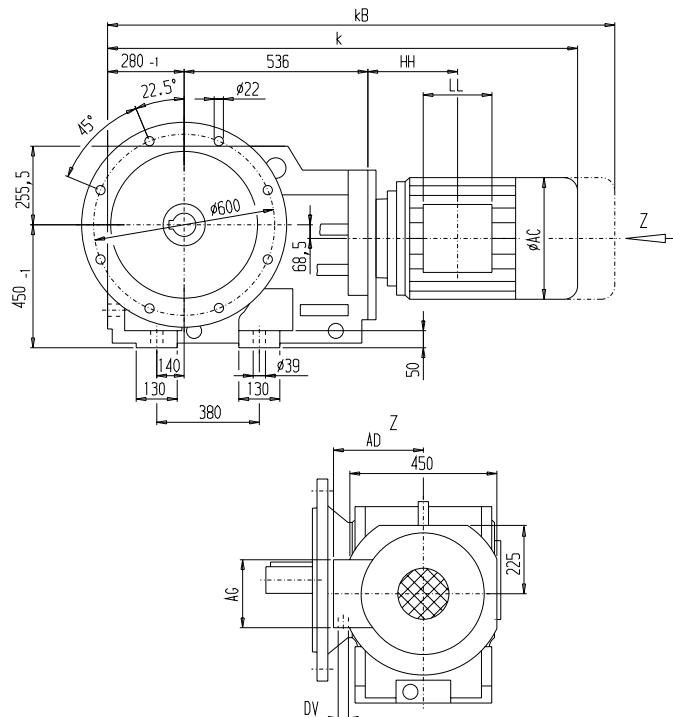
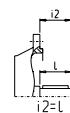
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KF188 (three-stage), flange-mounted design (A-type)

KF012



Motor	KF188								Weight KF188
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	832
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	832
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	841
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	866
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	866
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	991
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	961
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	991
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	1041
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1113
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1101
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1159
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1203
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1306
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1332
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1438
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1526
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1632
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1712
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1857
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2259

④ DIN 332

⑥ For note, see page 4/224

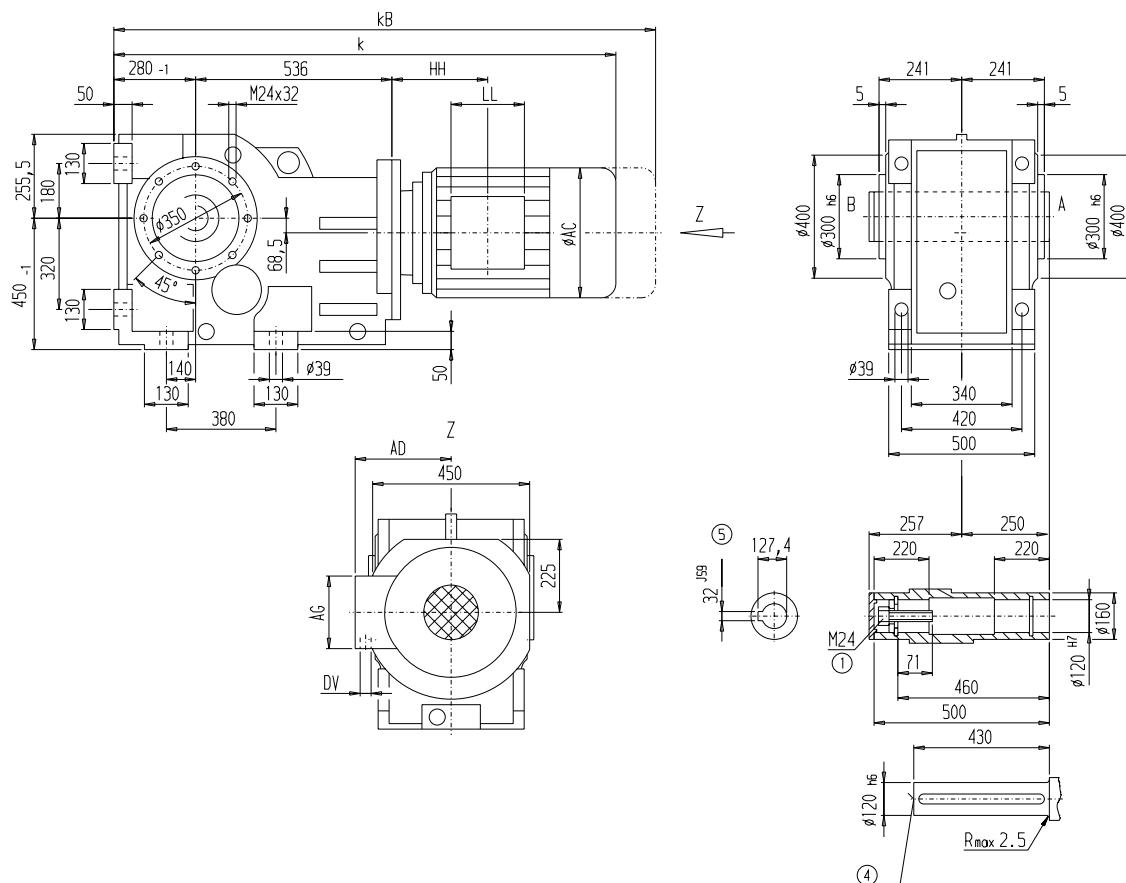
⑤ Parallel key / keyway DIN 6885

\* Incl. adapter

AA On request

Gear unit KA188 (three-stage), housing-flange-mounted design (C-type)

KA012



Motor	KA188								Weight KA188
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	674
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	674
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	683
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	707
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	707
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	833
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	803
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	833
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	883
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	955
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	943
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1001
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1045
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1148
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1174
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1280
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1368
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1474
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1554
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1699
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2101

④ DIN332

① EN 24014

\* Incl. adapter

AA On request

⑤ Parallel key / keyway DIN 6885

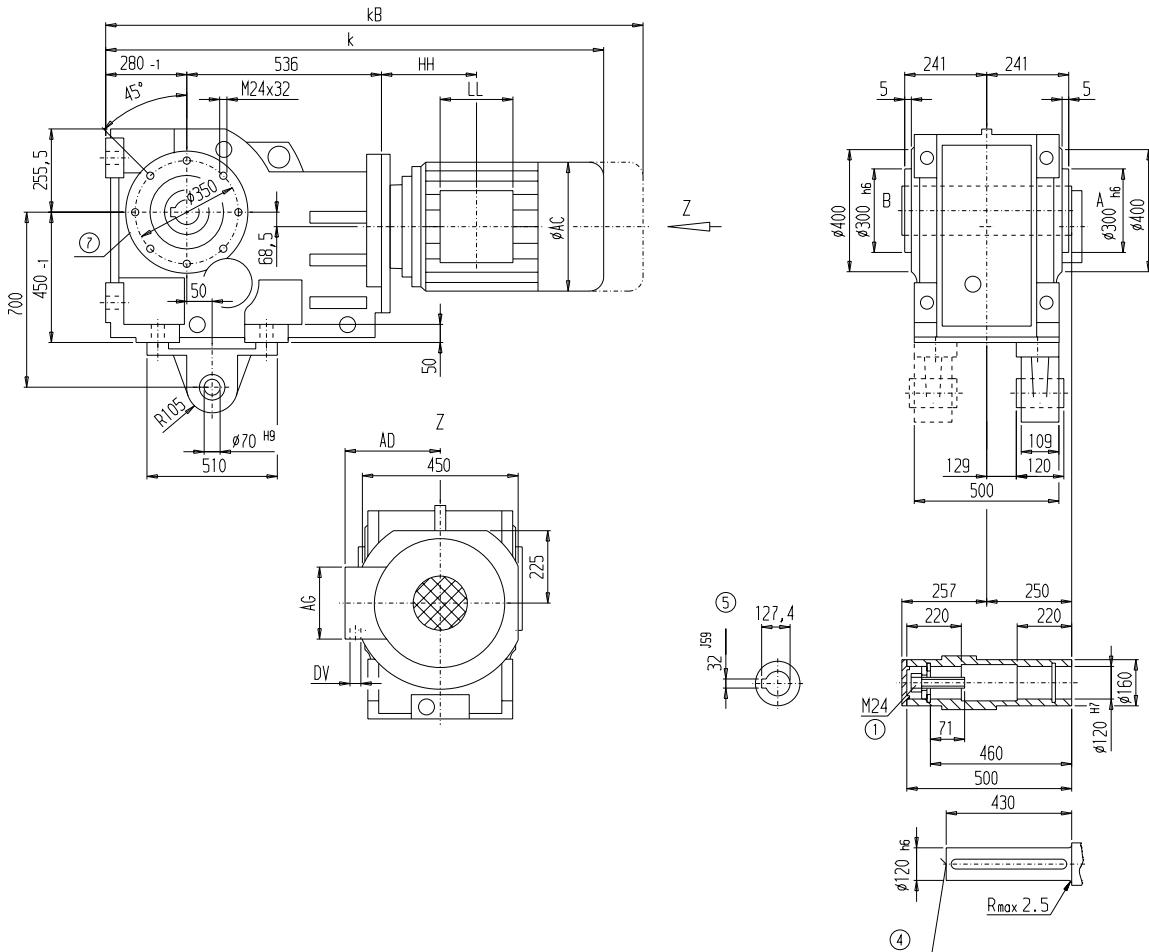
# Geared motors

## Bevel helical geared motors

### Dimensions

Gear unit KAD188 (three-stage), shaft-mounted design with torque arm

KAD012



**Gear unit KAD188 (three-stage), shaft-mounted design with torque arm (continued)**

**KAD012**

Motor	KAD188								Weight KAD188
	k	KB	AC	AD	AG	LL	HH	DV	
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	697
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	697
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	706
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	731
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	731
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	856
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	826
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	856
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	906
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	978
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	966
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1024
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1068
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1171
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1197
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1303
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1391
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1497
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1577
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1722
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2124

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

⑦ For note, see page 4/225

\* Incl. adapter

AA On request

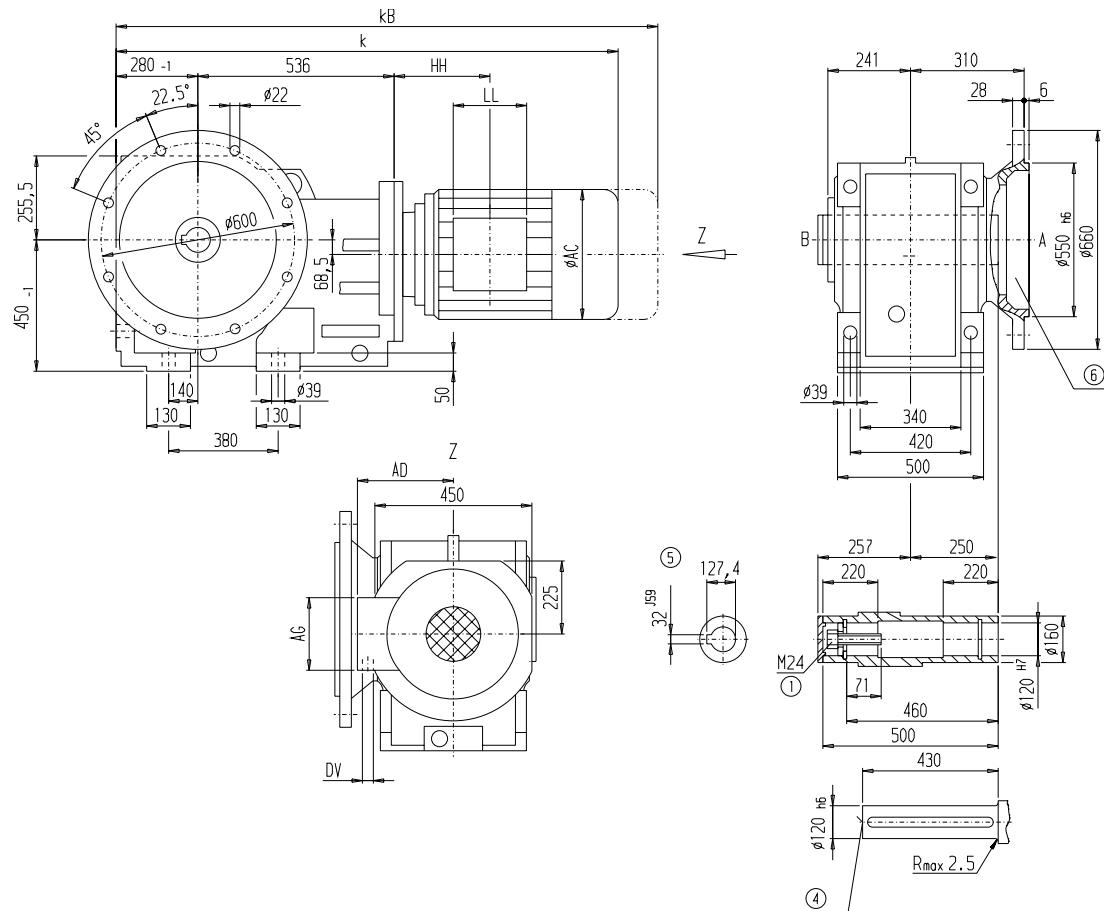
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAF188 (three-stage), shaft-mounted design with flange

KAF012



**Gear unit KAF188 (three-stage), shaft-mounted design with flange (continued)**

**KAF012**

Motor	KAF188								Weight KAF188
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	706
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	706
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	715
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	740
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	740
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	865
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	835
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	865
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	915
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	987
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	975
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1033
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1077
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1180
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1206
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1312
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1400
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1506
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1586
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1731
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2133

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

⑥ For note, see page 4/224

\* Incl. adapter

AA On request

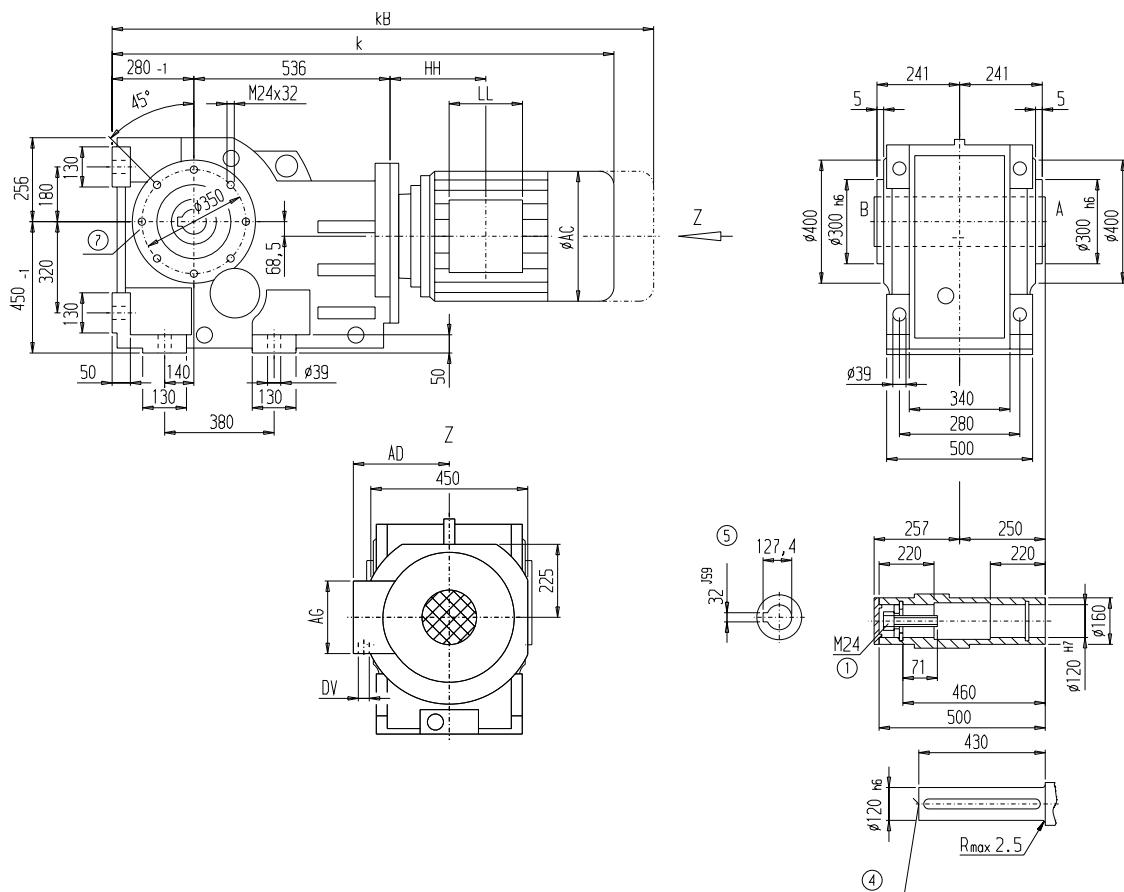
# Geared motors

## Bevel helical geared motors

## Dimensions

**Gear unit KAZ188 (three-stage), shaft-mounted design with housing flange (C-type)**

KAZ012



**Gear unit KAZ188 (three-stage), shaft-mounted design with housing flange (C-type) (continued)**

**KAZ012**

Motor	KAZ188								Weight KAZ188
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	674
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	674
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	683
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	707
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	707
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	833
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	803
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	833
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	883
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	954
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	943
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1001
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1045
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1148
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1174
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1280
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1368
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1474
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1554
LG315M*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1699
LG315M*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2101

④ DIN332

⑤ Parallel key / keyway DIN 6885

① EN 24014

⑦ For note, see page 4/225

\* Incl. adapter

AA On request

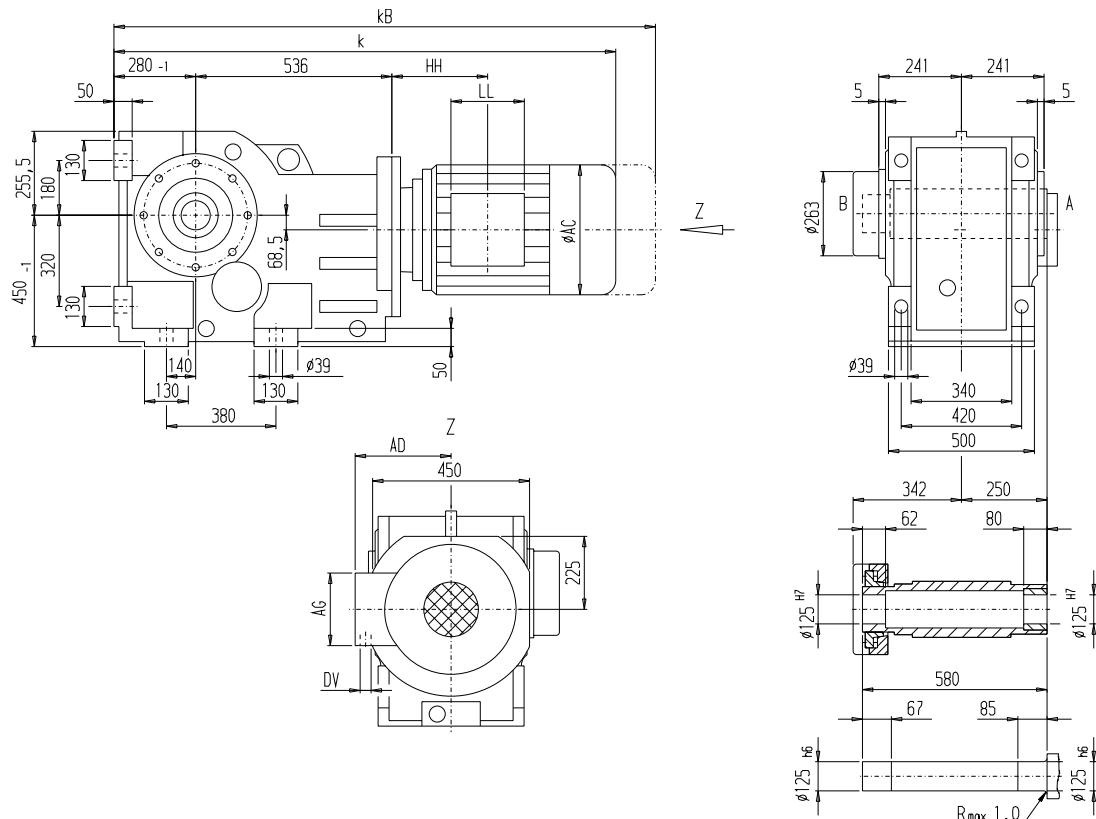
# Geared motors

## Bevel helical geared motors

## Dimensions

#### **Gear unit KAS188 (three-stage), shaft-mounted design with shrink disk**

KAS012



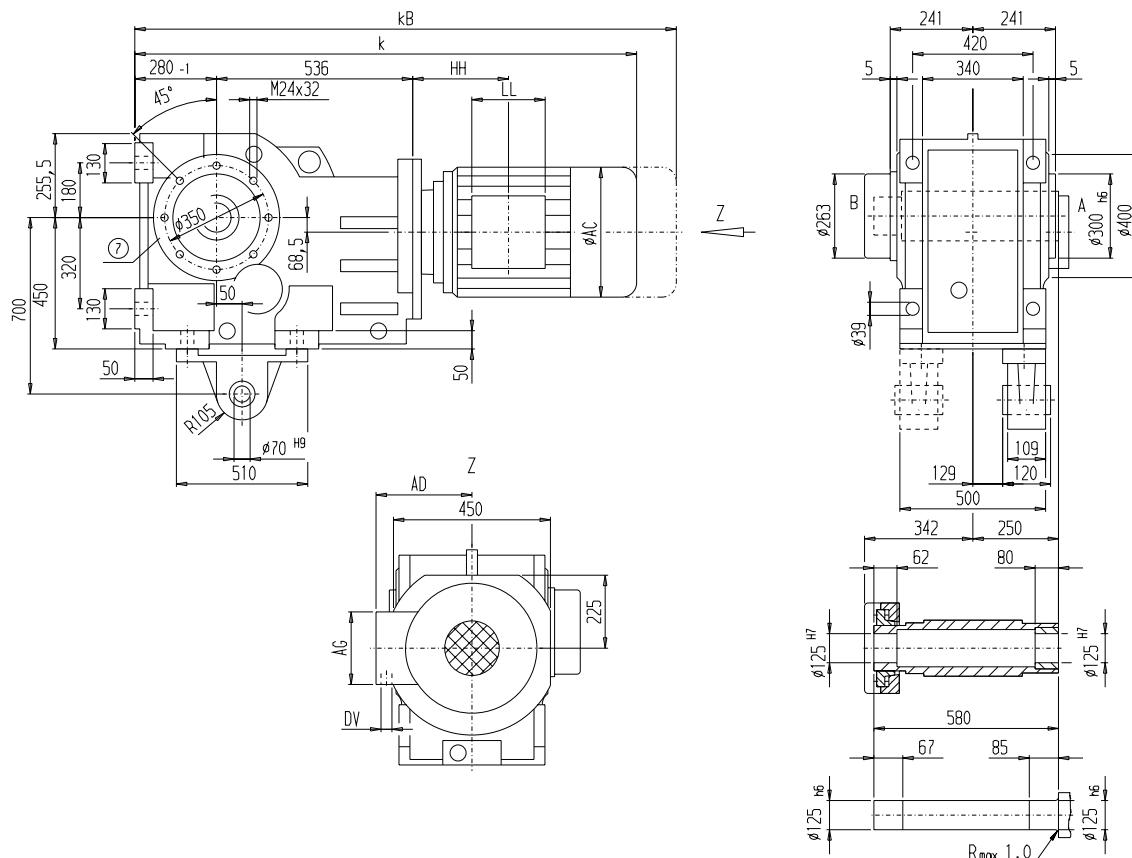
	KAS188								Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAS188
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	684
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	684
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	693
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	718
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	718
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	843
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	813
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	843
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	893
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	965
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	953
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1011
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1055
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1158
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1184
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1290
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1378
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1484
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1564
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1709
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2111

\* Incl. adapter

AA On request

**Gear unit KADS188 (three-stage), shaft-mounted design with torque arm and shrink disk**

**KADS012**



Motor	KADS188								Weight KADS188
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	708
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	708
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	717
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	741
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	741
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	867
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	837
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	867
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	917
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	989
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	977
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1035
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1079
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1182
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1208
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1314
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1402
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1508
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1588
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1733
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2135

⑦ For note, see page 4/225

\* Incl. adapter

AA On request

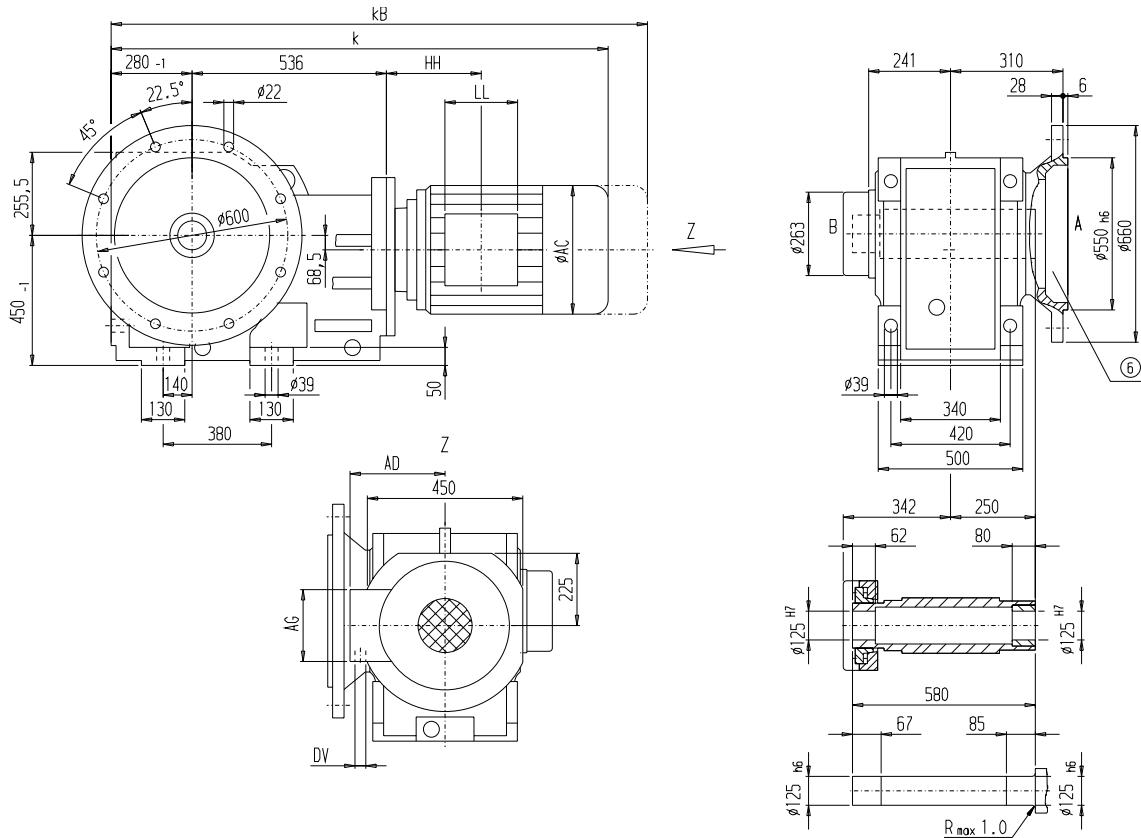
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Gear unit KAFS188 (three-stage), shaft-mounted design with flange and shrink disk

KAFS012



Motor	KAFS188								Weight KAFS188
	k	kB	AC	AD	AG	LL	HH	DV	
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	716
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	716
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	725
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	750
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	750
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	875
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	845
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	875
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	925
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	997
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	985
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1043
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1087
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1190
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1216
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1322
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1410
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1516
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1596
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1741
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2143

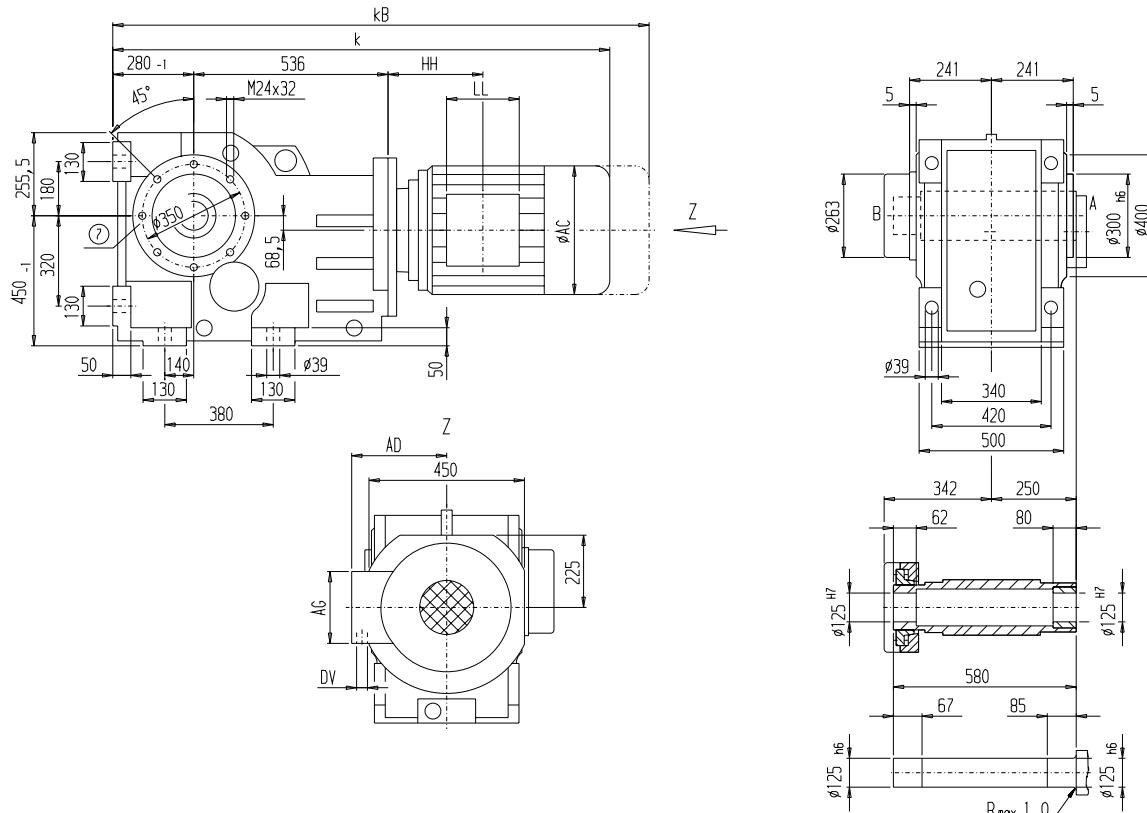
⑥For note, see page 4/224

\* Incl. adapter

AA On request

#### **Gear unit KAZS188 (three-stage), shaft-mounted design with housing flange (C-type) and shrink disk**

KAZS012



KAZS188									Weight
Motor	k	kB	AC	AD	AG	LL	HH	DV	KAZS188
LA132S	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	684
LA132M	1200.0	1302.0	259.0	195.0	140	140	122.5	2xM32x1.5	684
LA132ZM	1246.0	1348.0	259.0	195.0	140	140	122.5	2xM32x1.5	693
LA160M	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	718
LA160L	1300.0	1418.5	313.5	227.0	165	165	145.5	2xM40x1.5	718
LG180ZM	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	843
LG180L	1359.5	1481.5	348.0	322.5	260	192	162.5	2xM40x1.5	813
LG180ZL	1410.5	1532.5	348.0	322.5	260	192	162.5	2xM40x1.5	843
LG200L	1415.5	1541.5	385.0	301.0	260	192	192.5	2xM50x1.5	893
LG225S	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	965
LG225M	1488.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	953
LG225ZM	1548.0	AA	439.0	325.0	260	192	228.0	2xM50x1.5	1011
LG250M	1583.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1055
LG250ZM	1653.0	AA	489.0	392.0	300	236	263.5	2xM63x1.5	1158
LG280S*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1184
LG280M*	1859.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1290
LG280ZM*	1969.5	AA	540.0	432.0	300	236	252.5	2xM63x1.5	1378
LG315S*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1484
LG315M*	2047.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1564
LG315L*	2207.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	1709
LG315ZL*	2347.5	AA	610.0	495.0	379	307	285.5	2xM63x1.5	2111

<sup>⑥</sup> For note, see page 4/225

\* Incl. adapter

AA On request

# Geared motors

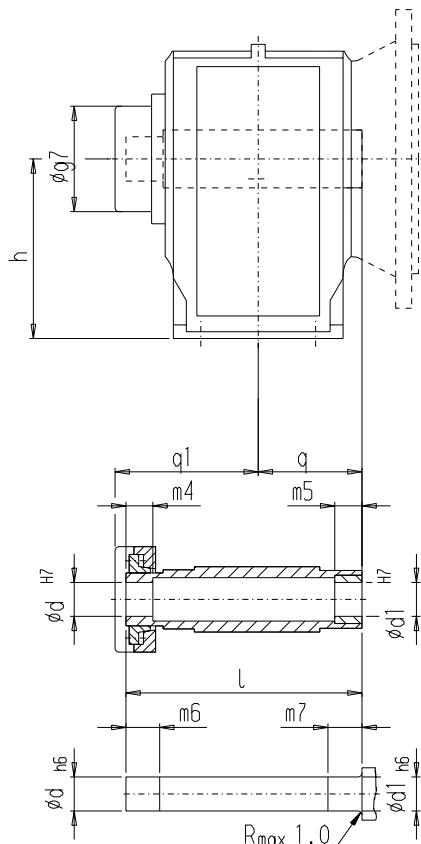
## Bevel helical geared motors

### Dimensions

#### Offset hollow shafts with shrink disk

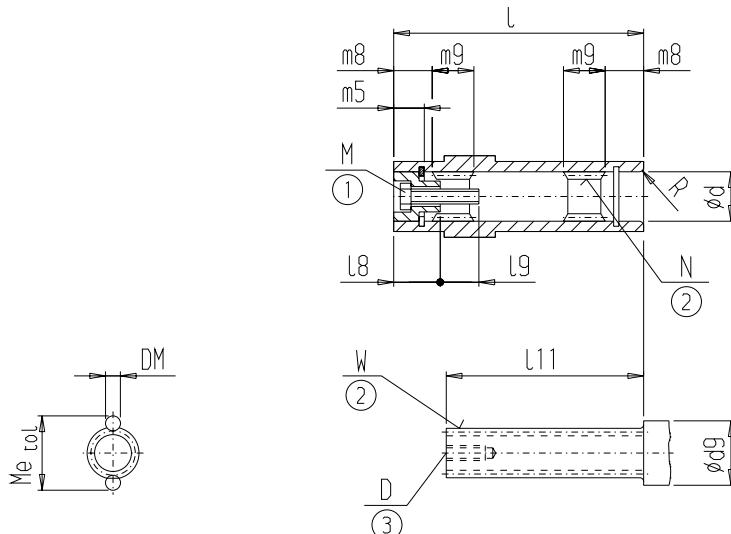
Optional hollow shafts for bevel helical gear unit with shrink disk

**K.A.S**



Gear unit	d	d1	l	m4	m5	m6	m7	q1	q	g7	h
KAS/KAFS38	30	31	146	22	20	27	25	94	60	77	100
KAS/KAFS48	40	41	177	25	20	30	25	109	75	93	112
KAS/KAFS68	50	51	209	27	20	32	25	126	90	112	140
KAS/KAFS88	60	61	241	29	30	34	35	144	105	132	180
KAS/KAFS108	70	71	280	30	40	35	45	168	120	144	212
KAS/KAFS128	80	81	345	40	50	45	55	207	150	180	265
KAS/KAFS148	95	96	404	49	60	54	65	243	175	210	315
KAS/KAFS168	105	106	483	54	70	59	75	291	205	237	375
KAS/KAFS188	125	126	580	62	80	67	85	342	250	263	450

**Shaft-mounted design with splined shaft in acc. with DIN 5480**



Gear unit	d	l	d9 min.	l11	W	D	R	m8	m9
BA.T38	30	140	45	115	W30x1.25x30x22 8f	M10	R3	20.0	30
KA.T38	35	120	45	95	W35x1.25x30x26 8f	M10	R2	17.0	27
KA.T48	40	150	52	120	W40x2x30x18 8f	M12	R3	22.0	34
KA.T68	55	180	65	142	W50x2x30x24 8f	M16	R2	21.0	40
KA.T88	65	210	80	172	W60x2x30x28 8f	M16	R2	22.5	49
KA.T108	72	240	85	201	W70x2x30x34 8f	M20	R2	22.5	56
KA.T128	90	300	105	257	W80x3x30x25 8f	M20	R2	24.0	71
KA.T148	90	350	110	306	W90x3x30x28 8f	M20	R3	25.0	88
KA.T168	110	410	130	350	W110x3x30x35 8f	M24	R3	32.0	99
KA.T188	135	500	145	445	W130x5x30x24 8f	M24	R4	42.0	120

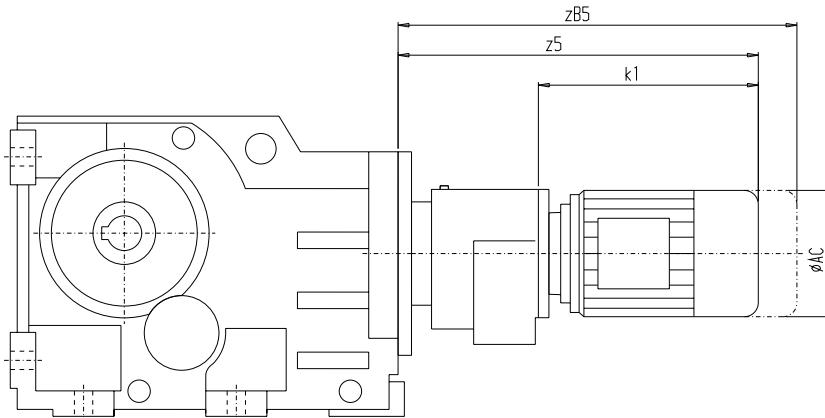
Gear unit	N	m5	l8	l9	M	DM	Me	tol
BA.T38	N30x1.25x30x22 9H	12.0	18	27.0	M10x35	2.75	33.015	-0.056
KA.T38	N35x1.25x30x26 9H	12.0	18	27.0	M10x35	2.50	37.423	-0.041
KA.T48	N40x2x30x18 9H	14.0	20	37.0	M12x45	4.50	45.083	-0.043
KA.T68	N50x2x30x24 9H	16.0	23	49.5	M16x55	4.00	54.156	-0.049
KA.T88	N60x2x30x28 9H	16.5	26	46.5	M16x55	4.00	63.918	-0.053
KA.T108	N70x2x30x34 9H	16.5	28	51.0	M20x60	4.00	74.181	-0.057
KA.T128	N80x3x30x25 9H	17.0	31	46.0	M20x60	6.00	85.856	-0.053
KA.T148	N90x3x30x28 9H	17.0	31	51.0	M20x60	6.00	95.911	-0.053
KA.T168	N110x3x30x35 9H	20.0	41	65.5	M24x80	6.00	115.998	-0.061
KA.T188	N130x5x30x24 9H	20.0	50	35.5	M24x60	10.00	139.848	-0.061

# Geared motors

## Bevel helical geared motors

### Dimensions

#### Bevel helical dual gear unit

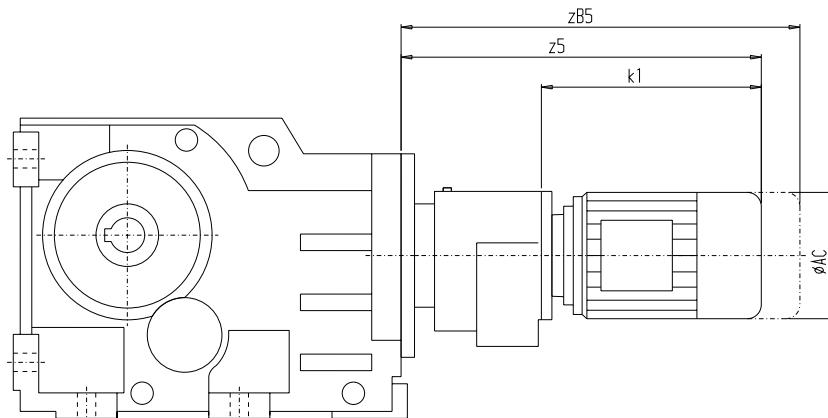


4

Gear unit		AC	z5	zB5	k1
K38 - Z28	LA71	139	363.0	418.0	202.5
	LA71Z	139	382.0	437.0	221.5
	LA90S	174	460.0	531.0	299.5
	LA90ZS	174	505.0	576.0	344.5
	LA90L	174	460.0	531.0	299.5
	LA90ZL	174	505.0	576.0	344.5
	LA100L	195	542.0	623.0	381.5
	LA100ZL	195	612.0	693.0	451.5
K38 - D28	LA71	139	363.0	418.0	202.5
	LA71Z	139	382.0	437.0	221.5
	LA90S	174	460.0	531.0	299.5
	LA90ZS	174	505.0	576.0	344.5
	LA90L	174	460.0	531.0	299.5
	LA90ZL	174	505.0	576.0	344.5
K48 - Z28	LA71	139	363.0	418.0	202.5
	LA71Z	139	382.0	437.0	221.5
	LA90S	174	460.0	531.0	299.5
	LA90ZS	174	505.0	576.0	344.5
	LA90L	174	460.0	531.0	299.5
	LA90ZL	174	505.0	576.0	344.5
	LA100L	195	542.0	623.0	381.5
	LA100ZL	195	612.0	693.0	451.5
K48 - D28	LA71	139	363.0	418.0	202.5
	LA71Z	139	382.0	437.0	221.5
	LA90S	174	460.0	531.0	299.5
	LA90ZS	174	505.0	576.0	344.5
	LA90L	174	460.0	531.0	299.5
	LA90ZL	174	505.0	576.0	344.5
K68 - Z28	LA71	139	357.5	412.5	202.5
	LA71Z	139	376.5	431.5	221.5
	LA90S	174	454.5	525.5	299.5
	LA90ZS	174	499.5	570.5	344.5
	LA90L	174	454.5	525.5	299.5
	LA90ZL	174	499.5	570.5	344.5
	LA100L	195	536.5	617.5	381.5
	LA100ZL	195	606.5	687.5	451.5

Gear unit		AC	z5	zB5	k1
K68 - D28	LA71	139.0	357.5	412.5	202.5
	LA71Z	139.0	376.5	431.5	221.5
	LA90S	174.0	454.5	525.5	299.5
	LA90ZS	174.0	499.5	570.5	344.5
	LA90L	174.0	454.5	525.5	299.5
	LA90ZL	174.0	499.5	570.5	344.5
K88 - Z28	LA71	139.0	351.5	406.5	202.5
	LA71Z	139.0	370.5	425.5	221.5
	LA90S	174.0	448.5	519.5	299.5
	LA90ZS	174.0	493.5	564.5	344.5
	LA90L	174.0	448.5	519.5	299.5
	LA90ZL	174.0	493.5	564.5	344.5
K88 - D28	LA71	139.0	351.5	406.5	202.5
	LA71Z	139.0	370.5	425.5	221.5
	LA90S	174.0	448.5	519.5	299.5
	LA90ZS	174.0	493.5	564.5	344.5
	LA90L	174.0	448.5	519.5	299.5
	LA90ZL	174.0	493.5	564.5	344.5
K108 - Z38	LA71	139.0	465.5	520.5	258.5
	LA71Z	139.0	484.5	539.5	277.5
	LA80	156.5	502.5	566.0	295.5
	LA90S	174.0	533.5	604.5	326.5
	LA90ZS	174.0	578.5	649.5	371.5
	LA90L	174.0	533.5	604.5	326.5
	LA90ZL	174.0	578.5	649.5	371.5
	LA100L	195.0	579.5	660.5	372.5
	LA100ZL	195.0	649.5	730.5	442.5
	LA112M	219.0	609.0	690.0	402.0
	LA112ZM	219.0	637.0	718.0	430.0

**Bevel helical dual gear unit (continued)**



Gear unit		AC	z5	zB5	k1
K108 - D38	LA71	139.0	480.5	535.5	273.5
	LA71Z	139.0	499.5	554.5	292.5
	LA80	156.5	517.5	581.0	310.5
	LA90S	174.0	548.5	619.5	341.5
	LA90ZS	174.0	593.5	664.5	386.5
	LA90L	174.0	548.5	619.5	341.5
	LA90ZL	174.0	593.5	664.5	386.5
K108 - Z48	LA71	139.0	544.5	599.5	253.0
	LA71Z	139.0	563.5	618.5	272.0
	LA80	156.5	581.5	645.0	290.0
	LA90S	174.0	612.5	683.5	321.0
	LA90ZS	174.0	657.5	728.5	366.0
	LA90L	174.0	612.5	683.5	321.0
	LA90ZL	174.0	657.5	728.5	366.0
	LA100L	195.0	658.5	739.5	367.0
	LA100ZL	195.0	728.5	809.5	437.0
	LA112M	219.0	687.5	768.5	396.0
	LA112ZM	219.0	715.5	796.5	424.0
	LA132S	259.0	749.5	851.5	458.0
	LA132ZS	259.0	795.5	897.5	504.0
	LA132M	259.0	749.5	851.5	458.0
	LA132ZM	259.0	795.5	897.5	504.0
K128 - Z38	LA71	139.0	458.5	513.5	258.5
	LA71Z	139.0	477.5	532.5	277.5
	LA80	156.5	495.5	559.0	295.5
	LA90S	174.0	526.5	597.5	326.5
	LA90ZS	174.0	571.5	642.5	371.5
	LA90L	174.0	526.5	597.5	326.5
	LA90ZL	174.0	571.5	642.5	371.5
	LA100L	195.0	572.5	653.5	372.5
	LA100ZL	195.0	642.5	723.5	442.5
	LA112M	219.0	602.0	683.0	402.0
	LA112ZM	219.0	630.0	711.0	430.0

Gear unit		AC	z5	zB5	k1
K128 - D38	LA71	139.0	473.5	528.5	273.5
	LA71Z	139.0	492.5	547.5	292.5
	LA80	156.5	510.5	574.0	310.5
	LA90S	174.0	541.5	612.5	341.5
	LA90ZS	174.0	586.5	657.5	386.5
	LA90L	174.0	541.5	612.5	341.5
	LA90ZL	174.0	586.5	657.5	386.5
K128 - Z48	LA71	139.0	532.0	587.0	253.0
	LA71Z	139.0	551.0	606.0	272.0
	LA80	156.5	569.0	632.5	290.0
	LA90S	174.0	600.0	671.0	321.0
	LA90ZS	174.0	645.0	716.0	366.0
	LA90L	174.0	600.0	671.0	321.0
	LA90ZL	174.0	645.0	716.0	366.0
	LA100L	195.0	646.0	727.0	367.0
	LA100ZL	195.0	716.0	797.0	437.0
	LA112M	219.0	675.0	756.0	396.0
	LA112ZM	219.0	703.0	784.0	424.0
	LA132S	259.0	737.0	839.0	458.0
	LA132ZS	259.0	783.0	885.0	504.0
	LA132M	259.0	737.0	839.0	458.0
	LA132ZM	259.0	783.0	885.0	504.0
K148 - Z38	LA71	139.0	454.0	509.0	258.5
	LA71Z	139.0	473.0	528.0	277.5
	LA80	156.5	491.0	554.5	295.5
	LA90S	174.0	522.0	593.0	326.5
	LA90ZS	174.0	567.0	638.0	371.5
	LA90L	174.0	522.0	593.0	326.5
	LA90ZL	174.0	567.0	638.0	371.5
	LA100L	195.0	568.0	649.0	372.5
	LA100ZL	195.0	638.0	719.0	442.5
	LA112M	219.0	597.5	678.5	402.0
	LA112ZM	219.0	625.5	706.5	430.0

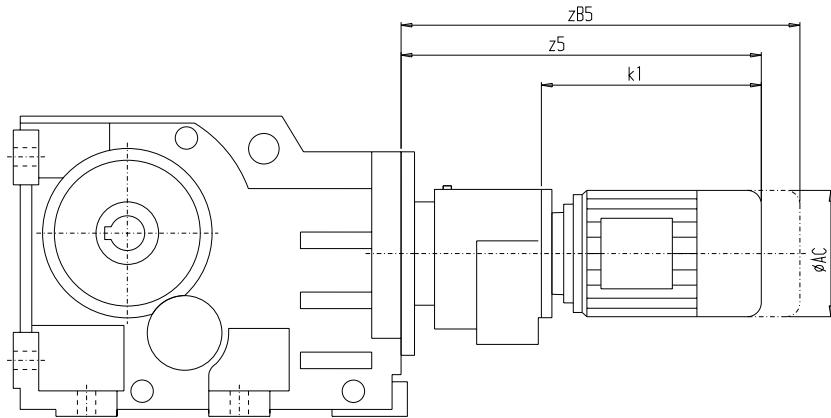
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Bevel helical dual gear unit (continued)

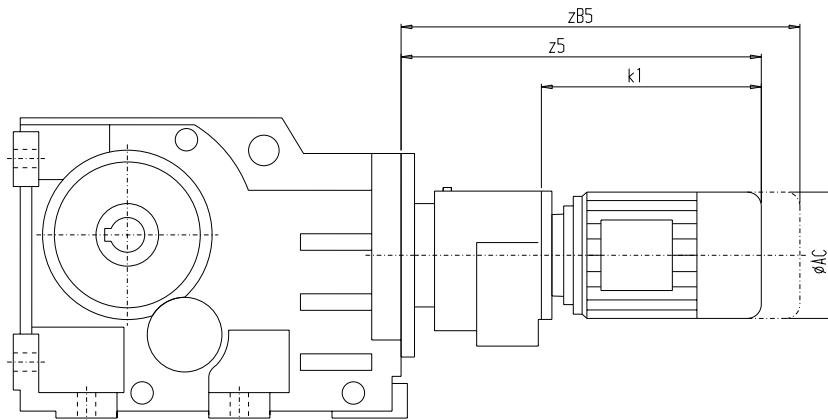
4



Gear unit		AC	z5	zB5	k1
K148 - D38	LA71	139.0	469.0	524.0	273.5
	LA71Z	139.0	488.0	543.0	292.5
	LA80	156.5	506.0	569.5	310.5
	LA90S	174.0	537.0	608.0	341.5
	LA90ZS	174.0	582.0	653.0	386.5
	LA90L	174.0	537.0	608.0	341.5
	LA90ZL	174.0	582.0	653.0	386.5
K148 - Z68	LA71	139.0	590.5	645.5	247.0
	LA71Z	139.0	609.5	664.5	266.0
	LA80	156.5	627.5	691.0	284.0
	LA90S	174.0	658.5	729.5	315.0
	LA90ZS	174.0	703.5	774.5	360.0
	LA90L	174.0	658.5	729.5	315.0
	LA90ZL	174.0	703.5	774.5	360.0
	LA100L	195.0	704.5	785.5	361.0
	LA100ZL	195.0	774.5	855.5	431.0
	LA112M	219.0	731.5	812.5	388.0
	LA112ZM	219.0	759.5	840.5	416.0
	LA132S	259.0	791.5	893.5	448.0
	LA132ZS	259.0	837.5	939.5	494.0
	LA132M	259.0	791.5	893.5	448.0
	LA132ZM	259.0	837.5	939.5	494.0
LA160	LA160M	313.5	894.0	1012.5	550.5
	LA160ZM	313.5	942.0	1060.5	598.5
	LA160L	313.5	894.0	1012.5	550.5
	LA160ZL	313.5	942.0	1060.5	598.5

Gear unit		AC	z5	zB5	k1
K168 - Z48	LA71	139.0	513.5	568.5	253
	LA71Z	139.0	532.5	587.5	272
	LA80	156.5	550.5	614.0	290
	LA90S	174.0	581.5	652.5	321
	LA90ZS	174.0	626.5	697.5	366
	LA90L	174.0	581.5	652.5	321
	LA90ZL	174.0	626.5	697.5	366
	LA100L	195.0	627.5	708.5	367
	LA100ZL	195.0	697.5	778.5	437
	LA112M	219.0	656.5	737.5	396
	LA112ZM	219.0	684.5	765.5	424
	LA132S	259.0	718.5	820.5	458
	LA132ZS	259.0	764.5	866.5	504
K168 - D48	LA132M	259.0	718.5	820.5	458
	LA132ZM	259.0	764.5	866.5	504
	LA71	139.0	530.5	585.5	270
	LA71Z	139.0	549.5	604.5	289
	LA80	156.5	567.5	631.0	307
	LA90S	174.0	598.5	669.5	338
	LA90ZS	174.0	643.5	714.5	383
	LA90L	174.0	598.5	669.5	338
LA100	LA90ZL	174.0	643.5	714.5	383
	LA100L	195.0	644.5	725.5	384
LA100ZL	LA100ZL	195.0	714.5	795.5	454

Bevel helical dual gear unit (continued)



Gear unit		AC	z5	zB5	k1
K168 - Z68	LA71	139.0	599.5	654.5	247.0
	LA71Z	139.0	618.5	673.5	266.0
	LA80	156.5	636.5	700.0	284.0
	LA90S	174.0	667.5	738.5	315.0
	LA90ZS	174.0	712.5	783.5	360.0
	LA90L	174.0	667.5	738.5	315.0
	LA90ZL	174.0	712.5	783.5	360.0
	LA100L	195.0	713.5	794.5	361.0
	LA100ZL	195.0	783.5	864.5	431.0
	LA112M	219.0	740.5	821.5	388.0
	LA112ZM	219.0	768.5	849.5	416.0
	LA132S	259.0	800.5	902.5	448.0
	LA132ZS	259.0	846.5	948.5	494.0
	LA132M	259.0	800.5	902.5	448.0
	LA132ZM	259.0	846.5	948.5	494.0
	LA160M	313.5	903.0	1021.5	550.5
	LA160ZM	313.5	951.0	1069.5	598.5
	LA160L	313.5	903.0	1021.5	550.5
	LA160ZL	313.5	951.0	1069.5	598.5
K188 - Z68	LA71	139.0	568.5	623.5	247.0
	LA71Z	139.0	587.5	642.5	266.0
	LA80	156.5	605.5	669.0	284.0
	LA90S	174.0	636.5	707.5	315.0
	LA90ZS	174.0	681.5	752.5	360.0
	LA90L	174.0	636.5	707.5	315.0
	LA90ZL	174.0	681.5	752.5	360.0
	LA100L	195.0	682.5	763.5	361.0
	LA100ZL	195.0	752.5	833.5	431.0
	LA112M	219.0	709.5	790.5	388.0
	LA112ZM	219.0	737.5	818.5	416.0
	LA132S	259.0	769.5	871.5	448.0
	LA132ZS	259.0	815.5	917.5	494.0
	LA132M	259.0	769.5	871.5	448.0
	LA132ZM	259.0	815.5	917.5	494.0
	LA160M	313.5	872.0	990.5	550.5
	LA160ZM	313.5	920.0	1038.5	598.5
	LA160L	313.5	872.0	990.5	550.5
	LA160ZL	313.5	920.0	1038.5	598.5

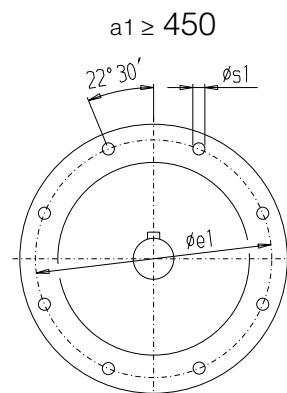
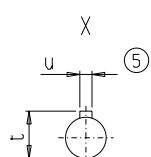
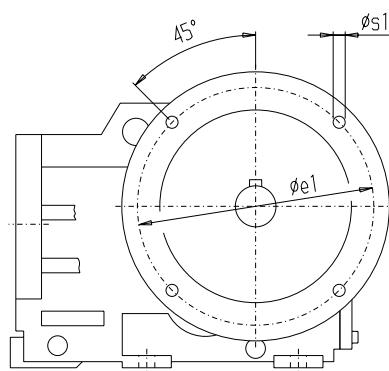
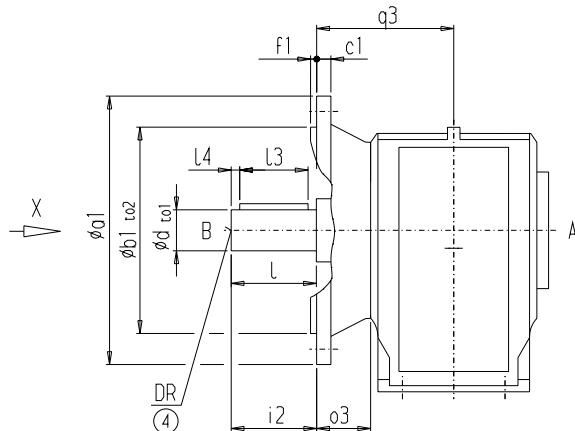
Gear unit		AC	z5	zB5	k1
K188 - D68	LA71	139.0	587.0	642.0	265.5
	LA71Z	139.0	606.0	661.0	284.5
	LA80	156.5	624.0	687.5	302.5
	LA90S	174.0	655.0	726.0	333.5
	LA90ZS	174.0	700.0	771.0	378.5
	LA90L	174.0	655.0	726.0	333.5
	LA90ZL	174.0	700.0	771.0	378.5
	LA100L	195.0	701.0	782.0	379.5
	LA100ZL	195.0	771.0	852.0	449.5
	LA90S	174.0	776.5	847.5	300.0
	LA90ZS	174.0	821.5	892.5	345.0
	LA90L	174.0	776.5	847.5	300.0
	LA90ZL	174.0	821.5	892.5	345.0
	LA100L	195.0	820.0	901.0	343.5
	LA100ZL	195.0	890.0	971.0	413.5
	LA112M	219.0	846.0	927.0	369.5
	LA112ZM	219.0	874.0	955.0	397.5
	LA132S	259.0	906.0	1008.0	429.5
	LA132ZS	259.0	952.0	1054.0	475.5
K188 - Z88	LA132M	259.0	906.0	1008.0	429.5
	LA132ZM	259.0	952.0	1054.0	475.5
	LA160M	313.5	1010.5	1129.0	534.0
	LA160ZM	313.5	1058.5	1177.0	582.0
	LA160L	313.5	1010.5	1129.0	534.0
	LA160ZL	313.5	1058.5	1177.0	582.0

# Geared motors

## Bevel helical geared motors

### Dimensions

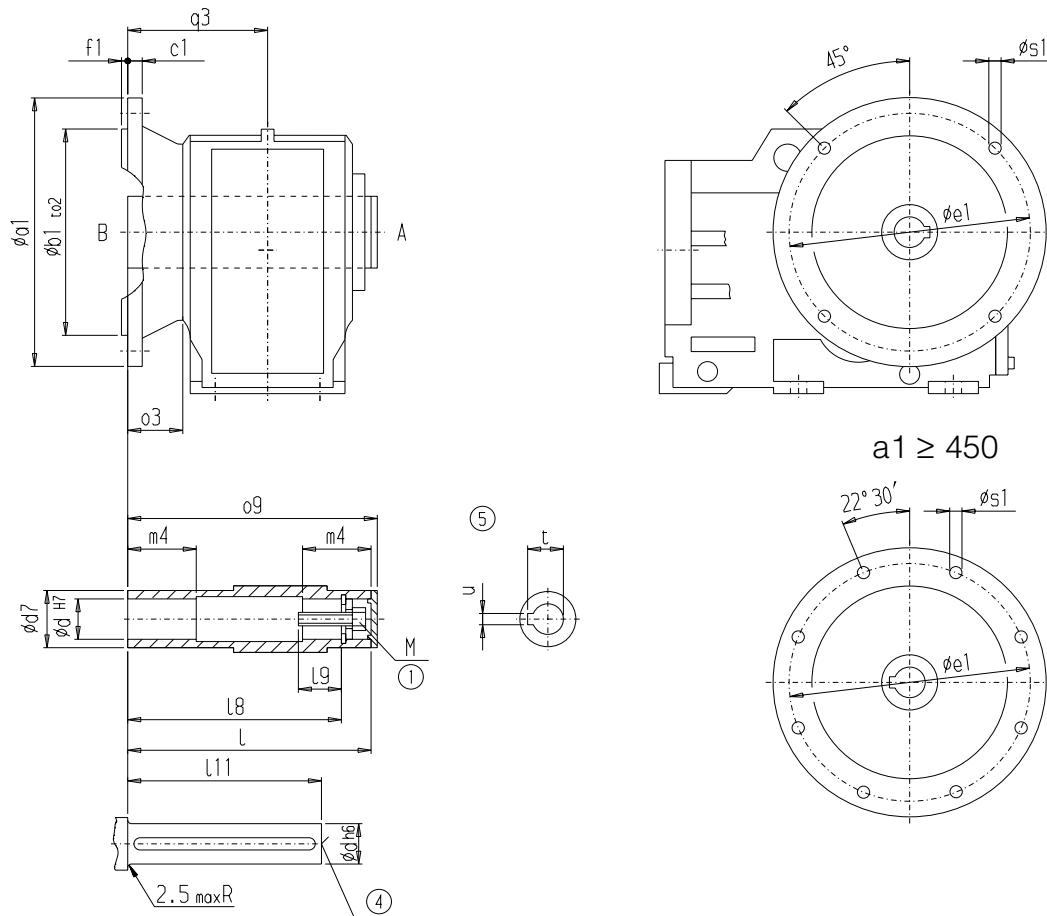
#### Flange design for mixers / agitators



Gear unit	a1	b1	to2	c1	e1	f1	s1	o3	q3	i2
KM88	300	230	j6	20	265	4	13.5	120	216.5	140
KM108	350	250	h6	20	300	5	17.5	135	246.0	170
KM128	450	350	h6	25	400	5	17.5	165	306.0	170
KM148	450	350	h6	25	400	5	17.5	185	349.0	210
KM168	550	450	h6	28	500	5	17.5	210	404.0	210

Gear unit	d	to1	l	l3	l4	t	u	DR	Weight
KM88	70	m6	140	110	15	74.5	20	M20x42	84
KM108	80	m6	170	125	20	85.0	22	M20x42	150
KM128	90	m6	170	140	15	95.0	25	M24x50	248
KM148	100	m6	210	180	15	106.0	28	M24x50	357
KM168	120	m6	210	180	15	127.0	32	M24x50	584

Shaft-mounted design with flange for mixers / agitators



Gear unit	a1	b1	to2	c1	e1	f1	s1	o3	q3	o9
KAM88	300	230	j6	20	265	4	13.5	120	216.5	324.0
KAM108	350	250	h6	20	300	5	17.5	135	246.0	369.5
KAM128	450	350	h6	25	400	5	17.5	165	306.0	458.0
KAM148	450	350	h6	25	400	5	17.5	185	349.0	526.0
KAM168	550	450	h6	28	500	5	17.5	210	404.0	611.0

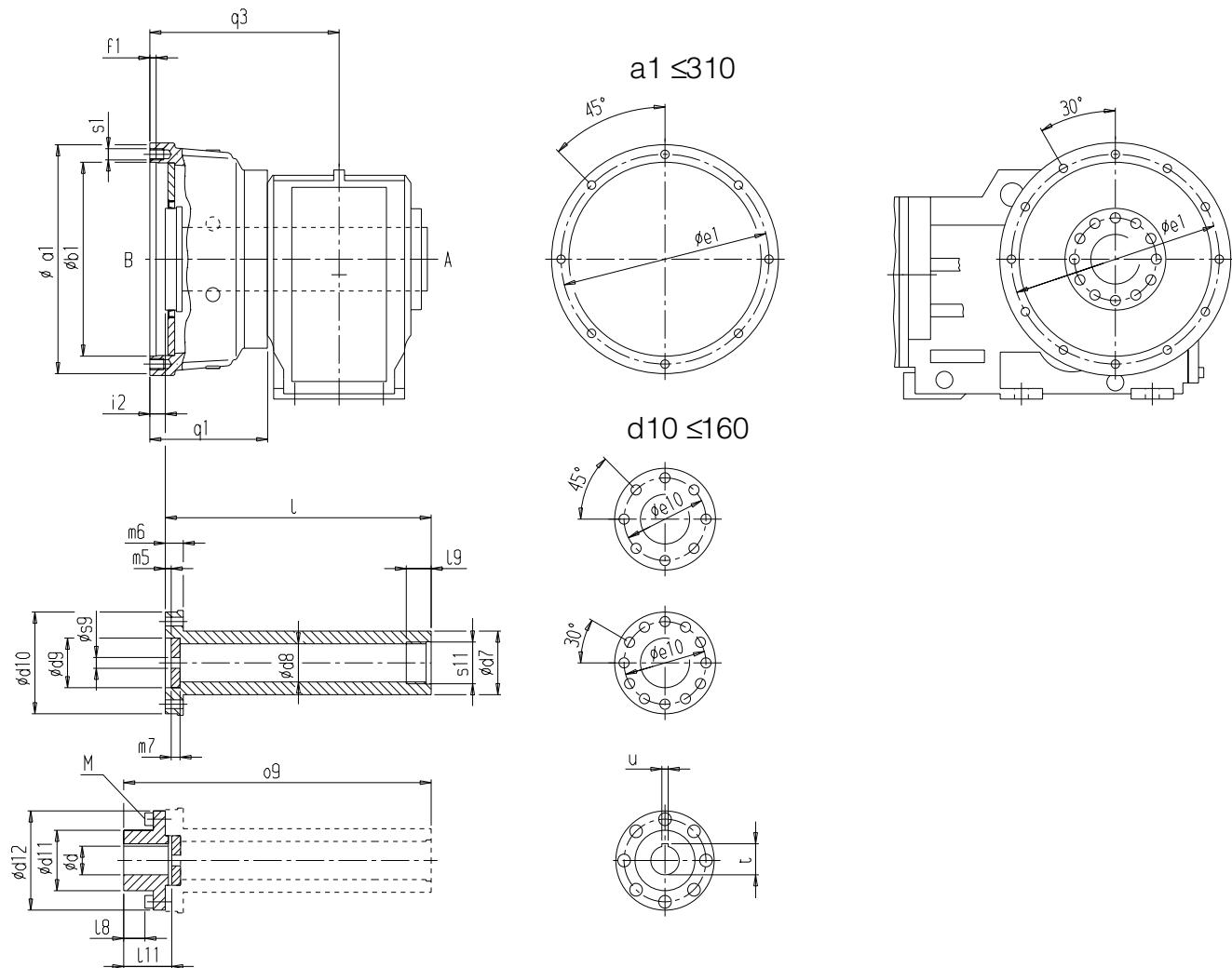
Gear unit	d	d7	I	m4	l8	l9	l11	t	u	M	Weight
KAM88	60	80	321	78	291	54.0	275	64.4	18	M20	76
KAM108	70	95	366	93	334	63.5	310	74.9	20	M20	137
KAM128	80	110	456	123	419	63.5	395	85.4	22	M20	228
KAM148	90	120	524	148	484	72.0	460	95.4	25	M24	329
KAM168	110	150	609	175	565	73.0	540	116.4	28	M24	539

# Geared motors

## Bevel helical geared motors

### Dimensions

#### Flange design for extruder drives



Gear unit	a1	b1	e1	f1	s1	q1	i2	q3
KAE68	260	220	+046 / 0	236	10	M12x17	147.5	15.0
KAE88	310	255	+052 / 0	280	10	M16x22	171.0	15.5
KAE108	360	305	+052 / 0	330	10	M16x22	188.0	23.0
KAE128	420	345	+057 / 0	380	10	M20x27	206.0	25.0
KAE148	450	360	+057 / 0	400	10	M24x32	225.0	27.0
KAE168	510	420	+063 / 0	460	15	M24x32	262.0	38.0

**Flange design for extruder flange (continued)**

Gear unit	d	l11	d7	d8	l9	s11	o9	d10	m6	e10
							l	d12		
KAE 68	20	48	65	38	30	M42x2	349.0	105	14	88
	25						305.0	104		
	30									
KAE 88	30	58	80	49	39	M56x2	410.5	130	23	110
	35						357.0	129		
	40									
KAE 108	40	71	95	60	39	M64x2	462.0	160	25	130
	45						396.0	156		
	50									
KAE 128	45	87	110	71	49	M80x3	554.0	175	31	150
	50						472.0	174		
	60									
KAE 148	60	95	120	88	52	M95x3	626.0	190	33	160
	70						537.0	189		
	75									
KAE 168	70	105	150	104	57	M110x3	722.0	230	42	195
	80						623.0	229		
	90									

Gear unit	d	d9	s9	m7	d11	m5	l8	M	t	u
KAE 68	20	48	+025 / 0	11	11	65	4.0	20.0	M10x25	22.8 6
	25									28.3 8
	30									33.3 8
KAE 88	30	63	+030 / 0	17	12	80	4.5	23.5	M12x35	33.3 8
	35									38.3 10
	40									43.3 12
KAE 108	40	78	+030 / 0	17	14	95	5.0	31.0	M16x40	43.3 12
	45									48.8 14
	50									53.8 14
KAE 128	45	88	+035 / 0	22	17	110	5.0	42.0	M16x45	48.8 14
	50									53.8 14
	60									64.4 18
KAE 148	60	105	+035 / 0	22	20	120	6.0	45.0	M16x55	64.4 18
	70									74.9 20
	75									79.9 20
KAE 168	70	125	+040 / 0	25	22	150	6.0	49.0	M20x55	74.9 20
	80									85.4 22
	90									95.4 25

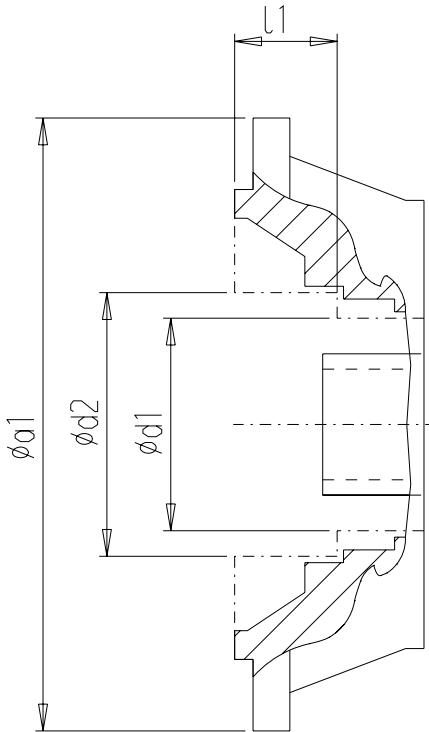
# Geared motors

## Bevel helical geared motors

### Dimensions

#### Inside contour of the flange-mounted design (A-type)

Design notes for the customer's interface, e.g. plug-in shaft for hollow shaft design



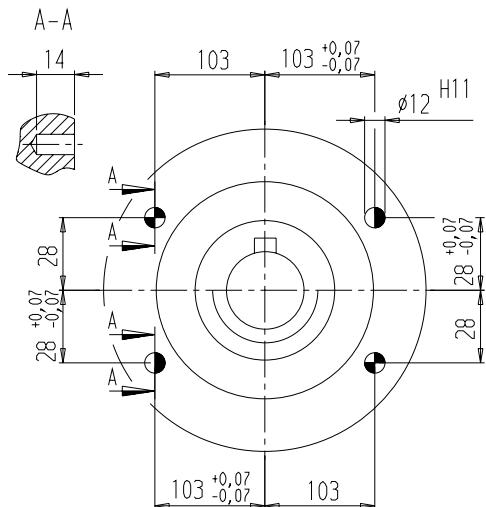
Gear unit	a1	d1	d2	l1
B.F.28	120	70	72	24.0
B.F.28	160	70	103	8.5
B.F.38	160	95	98	27.0
B.F.38	200	84	90	22.5
K.F.38	160	70	77	20.0
K.F.48	200	84	90	22.5
K.F.68	250	96	96	–
K.F.88	300	126	138	31.0
K.F.108	350	176	185	32.0
K.F.128	450	226	234	38.5
K.F.148	450	246	262	34.0
K.F.168	550	296	313	39.0
K.F.188	660	296	296	–

## Pin holes

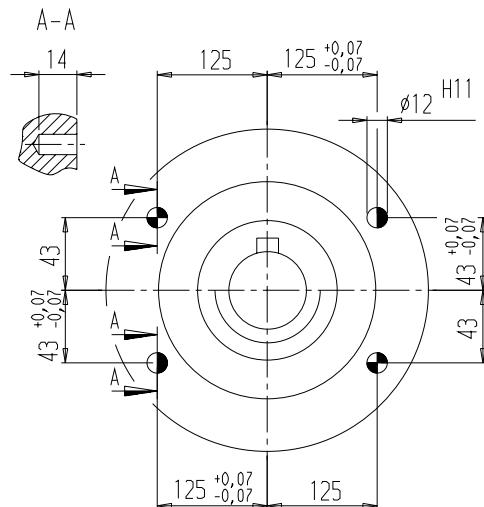
In the case of sizes K.Z.108B - 188B, the customer's interface can be pinned on the housing flange (C-type).

The output flanges have been designed to ensure the reliable transmission of the permissible torques and radial forces by the bolt connections.

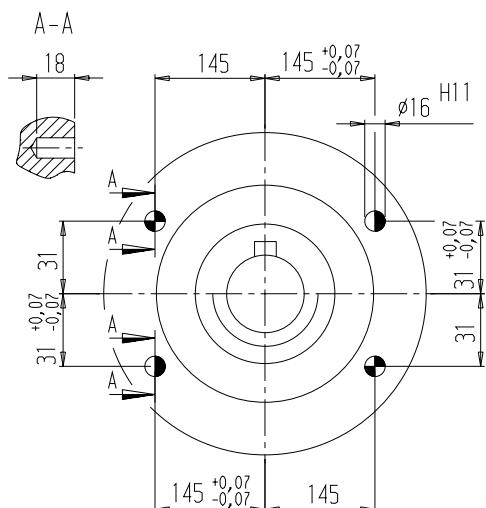
K.Z.108



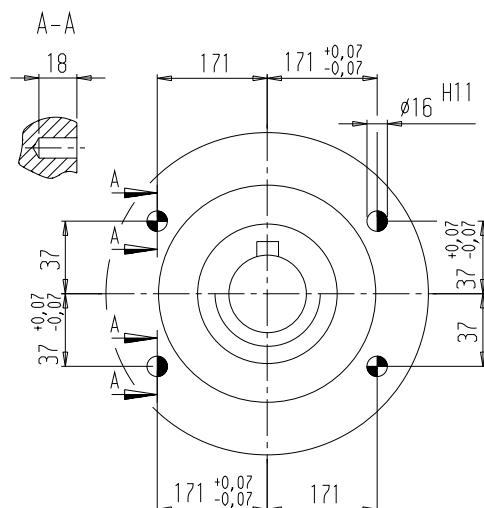
K.Z.128



K.Z.148



K.Z.168, K.Z.188



- Spring pins, heavy-duty design, to DIN 1481: Use pin holes provided in the housing flange.
  - Cylindrical grooved pins with chamfer to DIN EN 28740/ISO 8740: Drill connecting component together with housing.

# Geared motors

## Bevel helical geared motors

Notes

4