

Helical geared motors



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MOTOX Geared Motors

Helical geared motors

Orientation

Overview



Helical gearbox E



Helical gearbox D/Z

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

MOTOX helical gearboxes are designed for continuous duty. The gearbox 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, dust and water from entering it. All the gear wheels 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.

MOTOX helical gearboxes are of 1-stage, 2-stage and 3-stage design. The MOTOX helical gearbox series can be supplied in foot-mounted or flange-mounted design for mounting in any position. Flange housings can be supplied with an integrated housing flange (C type). Combined foot / flange-mounted design or foot-mounted housings with housing flange are available on request.

Overview (continued)

The helical gearboxes are designated as follows:

Gearbox type:

(-) Helical gearboxes

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

Type:

Shaft (-) Solid shaft

Mounting (-) Foot-mounted design
F Flange-mounted design (A-type)
Z Housing flange (C-type)
R Agitator flange
K Cooling tower flange ¹⁾

Connections (-) Feather key

Special features **W** Reduced-backlash version

Type of intermediate gearbox

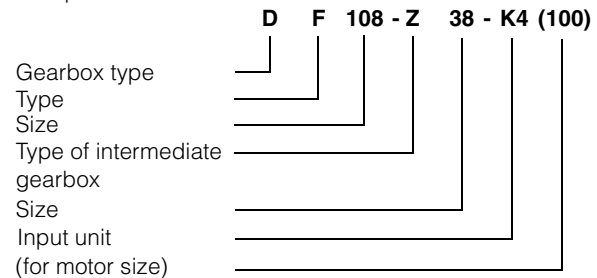
(-) Helical gearboxes

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

Input unit

- K2** Coupling lantern with flexible coupling for connecting an IEC motor
- K2TC** Coupling lantern with flexible coupling for connecting a NEMA motor ¹⁾
- K4** Short coupling lantern with clamp connection for connecting an IEC motor
- K5** Short coupling lantern with clamp connection for connecting a NEMA motor ¹⁾
- KQ** Lantern for servomotor with feather key and zero-backlash flexible coupling for connecting a servomotor
- KQS** Lantern for servomotor without feather key and zero-backlash flexible coupling for connecting a servomotor
- A** Input unit with free input shaft
- A5** Input unit with free input shaft (NEMA design) ¹⁾
- P** Input unit with free input shaft and piggy back for connecting an IEC motor
- P5** Input unit with free input shaft and piggy back for connecting a NEMA motor ¹⁾
- PS** Input unit with free input shaft and piggy back with protection cover

Example:



The series currently comprises 11 sizes for D and Z gearboxes and 7 sizes for E gearboxes.

E gearboxes are available as 1-stage, Z gearboxes as 2-stage and D gearboxes as 3-stage.

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

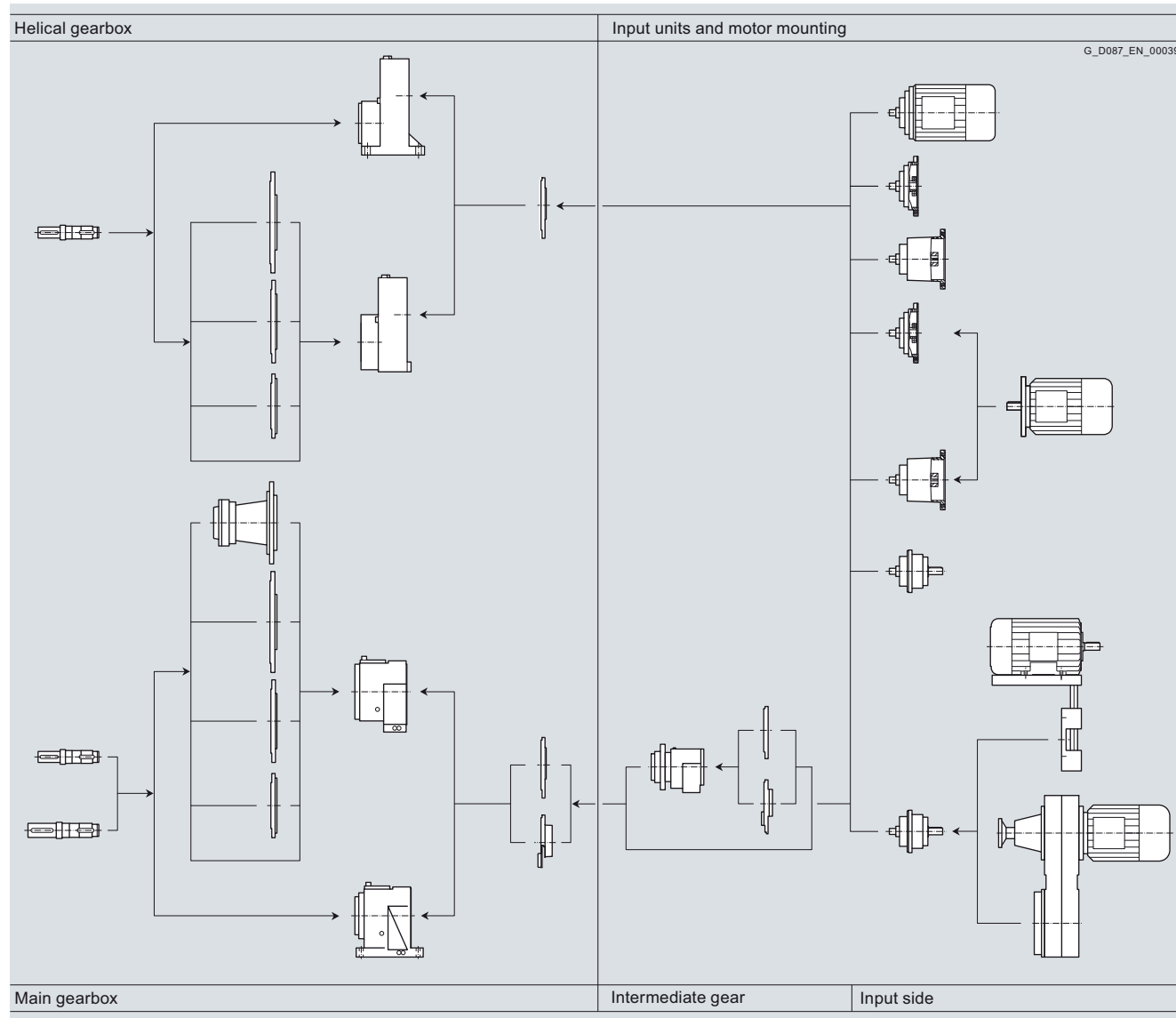
MOTOX Geared Motors

Helical geared motors

Orientation

Modular system

2



Use

MOTOX helical geared motors have a high efficiency and are characterized by their very low noise emission.

The geared motors offer high economical efficiency with their favorable price and low maintenance expenses.

The housings offer a wide range of mounting options due to their flange-mounted or foot-mounted designs.

Oil quantities

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

Permissible radial force F_{Rperm}

1-stage helical gearboxes – standard bearing arrangement

Gearbox type	d mm	l mm	y mm	z mm	a kNmm	b mm	Direction of rotation when viewing the output shaft	F_{Rperm} in N with $x = l/2$ for output speeds n_2 in rpm					
								≤ 183	≤ 229	≤ 287	≤ 358	≤ 448	≤ 502
E.38	20	40	105	85	70.9	24.0	Left	4 070	3 722	3 209	2 978	2 358	1 918
					93.3		Right	4 227	3 805	2 603	2 423	1 657	1 152
E.48	25	50	114	89	45.7	24.0	Left	3 687	3 174	2 823	2 283	1 992	1 744
					93.9		Right	3 888	3 437	2 801	1 352	854	441
E.68	30	60	155	125	165.0	29.5	Left	7 175	6 052	4 468	3 606	2 441	2 055
					257.0		Right	6 098	4 813	2 931	2 021	713	327
E.88	40	80	171	131	668.0	32.5	Left	8 403	7 543	6 430	5 764	4 886	4 645
					755.0		Right	8 778	7 976	6 850	5 635	3 496	3 080
E.108	50	100	194	144	904.0	36.5	Left	11 241	9 759	7 901	7 118	5 017	4 933
					1 063.0		Right	9 104	7 169	4 979	4 356	1 797	1 944
E.128	60	120	228	168	2 064.0	36.5	Left	15 781	13 912	12 554	11 239	10 100	9 566
					2 277.0		Right	16 567	14 537	12 052	9 416	7 235	6 307
E.148	70	140	260	190	2 344.0	46.5	Left	19 286	17 125	15 100	13 777	10 937	10 977
					2 688.0		Right	19 631	15 610	11 864	10 015	5 915	6 451

Gearbox type	d mm	l mm	y mm	z mm	a kNmm	b mm	Direction of rotation when viewing the output shaft	F_{Rperm} in N with $x = l/2$ for output speeds n_2 in rpm					
								≤ 562	≤ 629	≤ 705	≤ 789	≤ 884	≤ 990
E.38	20	40	105	85	70.9	24.0	Left	1 900	1 641	1 233	991	–	–
					93.3		Right	1 199	942	455	221	–	–
E.48	25	50	114	89	45.7	24.0	Left	1 688	1 663	1 712	1 752	1 666	–
					93.9		Right	475	554	719	869	846	–
E.68	30	60	155	125	165.0	29.5	Left	1 948	1 787	1 662	1 799	1 811	1 736
					257.0		Right	304	232	211	495	627	656
E.88	40	80	171	131	668.0	32.5	Left	4 424	4 113	3 911	3 891	–	–
					755.0		Right	2 756	2 175	1 879	2 055	–	–
E.108	50	100	194	144	904.0	36.5	Left	4 350	3 950	3 921	–	–	–
					1 063.0		Right	1 331	1 007	1 213	–	–	–
E.128	60	120	228	168	2 064.0	36.5	Left	9 171	8 876	8 586	8 298	7 980	7 623
					2 277.0		Right	5 696	5 443	5 283	5 191	4 950	4 681
E.148	70	140	260	190	2 344.0	46.5	Left	10 977	10 156	9 758	9 587	–	–
					2 688.0		Right	6 874	6 079	5 883	6 028	–	–

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 "Configuring guide" for more information on calculating the permissible radial force.

MOTOX Geared Motors

Helical geared motors

General technical data

Permissible radial force F_{Rperm} (continued)

2-stage and 3-stage helical gearboxes – standard bearing arrangement

Gearbox type	d mm	l mm	y mm	z mm	a kNmm	b mm	F_{Rperm} in N with $x = l/2$ for output speeds n_2 in rpm Direction of rotation when viewing the output shaft								
								≤ 16	≤ 25	≤ 40	≤ 63	≤ 100	≤ 160	≤ 250	≤ 400
D./Z.18	20	40	91.0	71.0	51.2	12	Left	1 600	1 600	1 600	1 600	1 600	1 600	1 550	1 420
							Right	1 600	1 600	1 600	1 600	1 600	1 600	1 480	1 370
D./Z.F18	20	40	99.0	79.0	57.2	20	Left	1 430	1 430	1 430	1 430	1 430	1 430	1 420	1 310
							Right	1 430	1 430	1 430	1 430	1 430	1 430	1 360	1 260
D./Z.28	25	50	104.0	79.0	129.5	12	Left	2 890	2 890	2 890	2 890	1 650	960	1 130	1 070
							Right	3 420	3 420	3 420	3 420	2 190	1 500	1 620	1 490
D./Z.F28	25	50	110.0	85.0	129.5	18	Left	2 540	2 540	2 540	2 540	1 450	850	990	940
							Right	3 012	3 012	3 012	3 012	1 930	1 320	1 430	1 310
D./Z.38	30	60	111.0	81.0	210.0	16	Left	4 565	4 565	4 560	3 230	1 990	1 580	1 110	1 020
							Right	4 565	4 565	4 565	3 880	2 630	2 200	1 730	1 560
	25	50	106.0	81.0	169.0	0	Left	6 760	6 310	5 010	3 570	2 180	1 740	1 230	1 110
							Right	6 760	6 010	5 080	4 140	2 890	2 430	1 910	1 710
D./Z.48	40	80	145.0	105.0	499.0	19	Left	8 457	8 457	7 480	5 470	4 150	3 400	3 020	2 350
							Right	8 457	8 457	7 600	6 300	5 130	4 280	3 690	2 950
	30	60	135.0	105.0	265.0	0	Left	8 833	8 833	8 670	6 450	4 850	3 970	3 520	2 740
							Right	8 833	8 833	8 170	6 760	5 630	4 860	4 310	3 460
D./Z.68	50	100	179.5	129.5	943.0	23	Left	12 917	12 917	10 820	7 690	4 970	3 670	3 380	3 010
							Right	12 917	12 917	12 520	9 380	6 710	5 270	4 760	3 880
	40	80	170.0	129.5	564.0	0	Left	14 100	14 100	12 230	8 650	5 630	4 180	3 810	3 390
							Right	14 100	14 100	14 100	10 600	7 580	5 960	5 400	4 380
D./Z.88	60	120	219.0	159.0	1 533.0	21	Left	18 925	18 925	18 925	18 925	16 330	14 060	11 770	11 300
							Right	18 925	18 925	18 925	18 710	15 100	12 960	11 310	10 630
	50	100	209.0	159.0	1 150.0	0	Left	23 000	23 000	23 000	21 010	17 110	14 700	12 830	12 000
							Right	23 000	23 000	23 000	19 630	15 850	13 600	11 880	11 140
D./Z.108	70	140	259.0	189.0	2 328.0	29	Left	23 515	23 515	23 515	23 515	20 860	15 920	13 780	14 760
							Right	23 515	23 515	23 515	22 340	18 830	14 350	13 280	13 690
	60	120	249.0	189.0	2 113.0	0	Left	35 216	35 216	30 120	25 340	21 740	16 980	15 170	15 400
							Right	35 216	33 940	28 090	23 210	19 610	14 940	13 820	14 220
D./Z.128	90	170	320.5	235.5	5 181.0	30	Left	45 052	45 052	36 770	31 220	26 070	22 270	18 010	19 340
							Right	45 052	44 170	34 000	28 490	23 260	19 750	15 860	18 050
	70	140	305.5	235.5	3 120.0	0	Left	44 571	44 571	38 510	32 740	27 300	23 360	18 880	20 280
							Right	44 571	44 571	35 740	29 790	24 420	20 690	16 680	18 920
D./Z.148	100	210	361.0	256.0	6 900.0	33	Left	50 000	50 000	45 040	38 930	31 140	27 200	23 760	21 590
							Right	50 000	50 000	41 490	35 280	27 600	23 660	20 600	19 330
	90	170	341.0	256.0	6 359.0	0	Left	67 600	61 030	47 700	41 090	32 920	28 780	25 140	22 870
							Right	63 750	58 650	43 850	37 450	29 170	25 030	21 780	20 410
D./Z.168	120	210	420.5	315.5	11 652	30	Left	86 311	86 311	86 311	86 311	86 311	86 311	86 311	86 311
							Right	86 311	86 311	86 311	86 311	86 311	86 311	86 311	86 311
	100	210	420.5	315.5	7 958.0	0	Left	75 790	75 790	75 790	75 790	75 790	75 790	75 790	75 790
							Right	75 790	75 790	75 790	75 790	75 790	75 790	75 790	75 790
D./Z.188	120	210	445.5	340.5	16 920	36	Left	120 000	120 000	120 000	120 000	87 920	101 570	114 610	–
							Right	120 000	120 000	120 000	120 000	106 270	116 020	120 000	–

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 "Configuring guide" for more information on calculating the permissible radial force.

Permissible radial force F_{Rperm} (continued)

2-stage and 3-stage helical gearboxes – radially reinforced bearing arrangement

Gearbox type	d mm	l mm	y mm	z mm	a kNmm	b mm	Direction of rotation when viewing the output shaft	F_{Rperm} in N with $x = l/2$ for output speeds n_2 in rpm							
								≤ 16	≤ 25	≤ 40	≤ 63	≤ 100	≤ 160	≤ 250	≤ 400
D./Z.68	50	100	179.5	129.5	943	23	Left	12 917	12 917	12 917	12 917	12 917	12 917	12 917	12 917
							Right	12 917	12 917	12 917	12 917	12 917	12 917	12 917	12 917
	40	80	170.0	129.5	564	0	Left	14 100	14 100	14 100	14 100	14 100	14 100	14 100	14 100
							Right	14 100	14 100	14 100	14 100	14 100	14 100	14 100	14 100
D./Z.88	60	120	219.0	159.0	1 533	21	Left	18 925	18 925	18 925	18 925	18 820	16 250	12 320	13 710
							Right	18 925	18 925	18 925	18 925	18 925	18 925	14 570	15 540
	50	100	209.0	159.0	1 150	0	Left	23 000	23 000	23 000	23 000	20 990	18 130	13 740	15 290
							Right	23 000	23 000	23 000	23 000	23 000	21 180	16 250	17 330
D./Z.108	70	140	259.0	189.0	2 328	29	Left	23 515	23 515	23 515	23 515	23 515	15 970	13 870	21 240
							Right	23 515	23 515	23 515	23 515	23 515	20 780	18 680	23 515
	60	120	249.0	189.0	2 113	0	Left	35 216	35 216	35 216	34 530	27 240	17 390	15 080	23 240
							Right	35 216	35 216	35 216	35 216	32 630	22 790	20 530	26 160
D./Z.128	90	170	320.5	235.5	5 181	30	Left	45 052	45 052	45 052	45 052	45 052	45 052	42 010	45 052
							Right	45 052	45 052	45 052	45 052	45 052	45 052	44 110	45 052
	70	140	305.5	235.5	3 120	0	Left	44 571	44 571	44 571	44 571	44 571	44 571	44 571	44 571
							Right	44 571	44 571	44 571	44 571	44 571	44 571	44 571	44 571
D./Z.148	100	210	361.0	256.0	6 900	33	Left	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000
							Right	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000
	90	170	341.0	256.0	6 359	0	Left	74 811	74 811	74 811	74 811	74 811	74 811	66 220	60 710
							Right	74 811	74 811	74 811	74 811	74 811	71 170	62 530	58 280
D./Z.168	120	210	420.5	315.5	11 652	30	Left	86 311	86 311	86 311	86 311	86 311	86 311	86 311	86 311
							Right	86 311	86 311	86 311	86 311	86 311	86 311	86 311	86 311
	100	210	420.5	315.5	7 958	0	Left	75 790	75 790	75 790	75 790	75 790	75 790	75 790	75 790
							Right	75 790	75 790	75 790	75 790	75 790	75 790	75 790	75 790
D./Z.188	120	210	445.5	340.5	16 920	36	Left	120 000	120 000	120 000	120 000	87 920	101 570	114 610	–
							Right	120 000	120 000	120 000	120 000	106 270	116 020	120 000	–

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 "Configuring guide" for more information on calculating the permissible radial force.

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

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 rating 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 rating P_{Motor} kW (50 Hz)	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.09	D.48-LA71M8						
	3.0	285	1.6	208.77	★ 2KJ1203 - ■CE13 - ■■S1	P02	27
	3.4	253	1.8	185.66	2KJ1203 - ■CE13 - ■■R1	P02	27
	3.9	220	2.0	161.05	★ 2KJ1203 - ■CE13 - ■■Q1	P02	27
	D.38-LA71M8						
	3.3	262	0.84	191.75	★ 2KJ1202 - ■CE13 - ■■S1	P02	18
	3.7	232	0.95	170.24	2KJ1202 - ■CE13 - ■■R1	P02	18
	4.2	204	1.1	149.26	★ 2KJ1202 - ■CE13 - ■■Q1	P02	18
	D.38-LA71B6						
	4.7	184	1.2	191.75	★ 2KJ1202 - ■CB13 - ■■S1	P01	18
	5.3	163	1.3	170.24	2KJ1202 - ■CB13 - ■■R1	P01	18
	6.0	143	1.5	149.26	★ 2KJ1202 - ■CB13 - ■■Q1	P01	18
	6.7	128	1.7	133.57	2KJ1202 - ■CB13 - ■■P1	P01	18
0.12	D.188-D48-LA71B4						
	0.05	15 788	1.3	28 260	2KJ1236 - ■CB13 - ■■J1		604
	0.06	12 656	1.6	22 654	2KJ1236 - ■CB13 - ■■G1		604
	0.06	13 965	1.4	24 996	★ 2KJ1236 - ■CB13 - ■■H1		604
	0.07	11 172	1.8	19 997	★ 2KJ1236 - ■CB13 - ■■F1		604
	0.08	10 078	2.0	18 039	2KJ1236 - ■CB13 - ■■E1		604
	D.168-D48-LA71B4						
	0.05	15 652	0.89	28 017	★ 2KJ1234 - ■CB13 - ■■F1		460
	0.06	12 807	1.1	22 923	★ 2KJ1234 - ■CB13 - ■■D1		460
	0.06	14 120	0.99	25 274	2KJ1234 - ■CB13 - ■■E1		460
	0.07	11 668	1.2	20 886	2KJ1234 - ■CB13 - ■■C1		460
	D.168-Z48-LA71B4						
	0.08	10 003	1.4	17 519	2KJ1232 - ■CB13 - ■■A2		459
	0.09	8 852	1.6	15 504	★ 2KJ1232 - ■CB13 - ■■X1		459
	0.10	8 047	1.7	14 094	2KJ1232 - ■CB13 - ■■W1		459
	0.11	7 229	1.9	12 661	★ 2KJ1232 - ■CB13 - ■■V1		459
	D.148-D38-LA71B4						
	0.08	9 926	0.81	17 767	2KJ1230 - ■CB13 - ■■C1		284
	D.148-Z38-LA71B4						
	0.09	8 467	0.94	14 830	2KJ1228 - ■CB13 - ■■X1		283
	0.11	7 530	1.1	13 188	2KJ1228 - ■CB13 - ■■W1		283
	0.12	6 532	1.2	11 440	2KJ1228 - ■CB13 - ■■V1		283
	0.13	6 103	1.3	10 689	2KJ1228 - ■CB13 - ■■U1		283
	0.15	5 368	1.5	9 401	2KJ1228 - ■CB13 - ■■T1		283
	0.17	4 701	1.7	8 233	2KJ1228 - ■CB13 - ■■S1		283
	0.19	4 158	1.9	7 282	2KJ1228 - ■CB13 - ■■R1		283

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.12	D.128-Z38-LA71B4						
	0.13	6 007	0.85	10 521	2KJ1225 - ■CB13 - ■■W1		198
	0.15	5 211	0.98	9 127	★ 2KJ1225 - ■CB13 - ■■V1		198
	0.16	4 869	1.0	8 528	2KJ1225 - ■CB13 - ■■U1		198
	0.19	4 282	1.2	7 500	★ 2KJ1225 - ■CB13 - ■■T1		198
	0.21	3 751	1.4	6 569	2KJ1225 - ■CB13 - ■■S1		198
	0.24	3 317	1.5	5 810	★ 2KJ1225 - ■CB13 - ■■R1		198
	0.27	3 007	1.7	5 266	2KJ1225 - ■CB13 - ■■Q1		198
	0.30	2 654	1.9	4 648	★ 2KJ1225 - ■CB13 - ■■P1		198
	D.108-Z38-LA71B4						
	0.22	3 556	0.87	6 228	2KJ1223 - ■CB13 - ■■F2		127
	0.25	3 208	0.97	5 618	2KJ1223 - ■CB13 - ■■E2		127
	0.28	2 910	1.1	5 096	2KJ1223 - ■CB13 - ■■D2		127
	0.30	2 651	1.2	4 643	2KJ1223 - ■CB13 - ■■C2		127
	0.33	2 424	1.3	4 246	2KJ1223 - ■CB13 - ■■B2		127
	0.37	2 168	1.4	3 797	2KJ1223 - ■CB13 - ■■A2		127
	0.39	2 069	1.5	3 624	2KJ1223 - ■CB13 - ■■X1		127
	0.43	1 840	1.7	3 223	2KJ1223 - ■CB13 - ■■W1		127
	0.50	1 596	1.9	2 796	2KJ1223 - ■CB13 - ■■V1		127
	D.88-Z28-LA71B4						
	0.39	2 041	0.82	3 574	2KJ1218 - ■CB13 - ■■A2		76
	0.45	1 778	0.94	3 114	★ 2KJ1218 - ■CB13 - ■■X1		76
	0.50	1 597	1.1	2 797	2KJ1218 - ■CB13 - ■■W1		76
	0.55	1 442	1.2	2 525	★ 2KJ1218 - ■CB13 - ■■V1		76
	0.61	1 307	1.3	2 290	2KJ1218 - ■CB13 - ■■U1		76
	0.67	1 190	1.4	2 084	★ 2KJ1218 - ■CB13 - ■■T1		76
	0.76	1 052	1.6	1 842	2KJ1218 - ■CB13 - ■■S1		76
	0.82	971	1.7	1 701	★ 2KJ1218 - ■CB13 - ■■R1		76
	0.96	836	2.0	1 465	2KJ1218 - ■CB13 - ■■Q1		76
	D.68-Z28-LA71B4						
	0.84	955	0.84	1 672	2KJ1214 - ■CB13 - ■■S1		46
	0.91	882	0.91	1 544	★ 2KJ1214 - ■CB13 - ■■R1		46
	1.1	759	1.1	1 329	2KJ1214 - ■CB13 - ■■Q1		46
	1.2	690	1.2	1 208	★ 2KJ1214 - ■CB13 - ■■P1		46
	1.3	627	1.3	1 098	★ 2KJ1214 - ■CB13 - ■■N1		46
	1.4	569	1.4	996	2KJ1214 - ■CB13 - ■■M1		46
	1.5	517	1.5	906	★ 2KJ1214 - ■CB13 - ■■L1		46
	1.7	457	1.7	801	2KJ1214 - ■CB13 - ■■K1		46
	1.9	423	1.9	740	★ 2KJ1214 - ■CB13 - ■■J1		46
	D.68-LA71MB8						
	2.3	499	1.6	281.01	2KJ1204 - ■CF13 - ■■U1	P02	46
	2.6	442	1.8	248.68	★ 2KJ1204 - ■CF13 - ■■T1	P02	46
	2.9	402	2.0	226.07	2KJ1204 - ■CF13 - ■■S1	P02	46

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.12	D.48-Z28-LA71B4						
	1.6	505	0.89	885	2KJ1212 - ■CB13 - ■■Q1		29
	1.7	460	0.98	805	★ 2KJ1212 - ■CB13 - ■■P1		29
	1.9	417	1.1	731	★ 2KJ1212 - ■CB13 - ■■N1		29
	2.1	379	1.2	663	2KJ1212 - ■CB13 - ■■M1		29
	2.3	344	1.3	603	★ 2KJ1212 - ■CB13 - ■■L1		29
	2.6	305	1.5	534	2KJ1212 - ■CB13 - ■■K1		29
	2.8	281	1.6	493	★ 2KJ1212 - ■CB13 - ■■J1		29
	D.48-LA71MB8						
	3.1	371	1.2	208.77	★ 2KJ1203 - ■CF13 - ■■S1	P02	27
	3.5	330	1.4	185.66	2KJ1203 - ■CF13 - ■■R1	P02	27
	D.48-LA71C6						
	4.1	278	1.6	208.77	★ 2KJ1203 - ■CC13 - ■■S1	P01	27
	4.6	247	1.8	185.66	2KJ1203 - ■CC13 - ■■R1	P01	27
	5.3	215	2.1	161.05	★ 2KJ1203 - ■CC13 - ■■Q1	P01	27
	Z.38-Z28-LA71B4						
	3.0	268	0.82	464	★ 2KJ1112 - ■CB13 - ■■H1		20
	D.38-LA71MB8						
	4.3	265	0.83	149.26	★ 2KJ1202 - ■CF13 - ■■Q1	P02	18
	D.38-LA71C6						
	4.5	256	0.86	191.75	★ 2KJ1202 - ■CC13 - ■■S1	P01	18
	5.1	227	0.97	170.24	2KJ1202 - ■CC13 - ■■R1	P01	18
	5.8	199	1.1	149.26	★ 2KJ1202 - ■CC13 - ■■Q1	P01	18
	6.4	178	1.2	133.57	2KJ1202 - ■CC13 - ■■P1	P01	18
	D.38-LA71B4						
	7.3	157	1.4	191.75	★ 2KJ1202 - ■CB13 - ■■S1		18
	8.2	139	1.6	170.24	2KJ1202 - ■CB13 - ■■R1		18
	9.4	122	1.8	149.26	★ 2KJ1202 - ■CB13 - ■■Q1		18
	10.5	109	2.0	133.57	2KJ1202 - ■CB13 - ■■P1		18
	D.28-LA71B4						
	6.7	170	0.82	207.96	★ 2KJ1201 - ■CB13 - ■■M1		10
	7.8	146	0.96	178.66	2KJ1201 - ■CB13 - ■■L1		10
	8.5	135	1.0	164.48	★ 2KJ1201 - ■CB13 - ■■K1		10
	9.4	122	1.1	149.53	2KJ1201 - ■CB13 - ■■J1		10
	10.6	108	1.3	132.35	★ 2KJ1201 - ■CB13 - ■■H1		10
	12.6	91	1.5	110.86	2KJ1201 - ■CB13 - ■■G1		10
	14.8	77	1.8	94.52	★ 2KJ1201 - ■CB13 - ■■F1		10
	17.4	66	2.1	80.34	★ 2KJ1201 - ■CB13 - ■■E1		10
	20	57	2.4	69.82	2KJ1201 - ■CB13 - ■■D1		10
	23	50	2.8	60.77	★ 2KJ1201 - ■CB13 - ■■C1		10
	Z.28-LA71B4						
	27	42	3.3	51.35	2KJ1101 - ■CB13 - ■■C2		10
	32	35	3.9	43.3	★ 2KJ1101 - ■CB13 - ■■B2		10
	36	32	4.4	38.45	2KJ1101 - ■CB13 - ■■A2		10

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.12	Z.28-LA71B4						
	42	28	5.1	33.71	★ 2KJ1101 - ■CB13 - ■■X1		10
	46	25	5.7	30.16	2KJ1101 - ■CB13 - ■■W1		10
	52	22	6.4	26.77	★ 2KJ1101 - ■CB13 - ■■V1		10
	60	19	7.3	23.46	2KJ1101 - ■CB13 - ■■U1		10
	68	17	8.3	20.63	★ 2KJ1101 - ■CB13 - ■■T1		10
	75	15	9.2	18.63	2KJ1101 - ■CB13 - ■■S1		10
	86	13	10.5	16.24	★ 2KJ1101 - ■CB13 - ■■R1		10
	96	12	11.7	14.58	2KJ1101 - ■CB13 - ■■Q1		10
	106	11	13.0	13.17	★ 2KJ1101 - ■CB13 - ■■P1		10
	117	9.8	14.3	11.94	2KJ1101 - ■CB13 - ■■N1		10
	D.18-LA71B4						
	10.2	112	0.8	136.71	★ 2KJ1200 - ■CB13 - ■■L1		9
	11.3	102	0.88	124.29	2KJ1200 - ■CB13 - ■■K1		9
	12.7	90	1.0	110.01	★ 2KJ1200 - ■CB13 - ■■J1		9
	15.2	75	1.2	92.14	2KJ1200 - ■CB13 - ■■H1		9
	17.8	64	1.4	78.56	★ 2KJ1200 - ■CB13 - ■■G1		9
	21	55	1.6	66.78	★ 2KJ1200 - ■CB13 - ■■F1		9
	24	48	1.9	58.03	2KJ1200 - ■CB13 - ■■E1		9
	28	41	2.2	50.51	★ 2KJ1200 - ■CB13 - ■■D1		9
	Z.18-LA71B4						
	32	35	2.5	43.15	2KJ1100 - ■CB13 - ■■U1		9
	38	30	3.0	37.23	★ 2KJ1100 - ■CB13 - ■■T1		9
	44	26	3.4	31.98	2KJ1100 - ■CB13 - ■■S1		9
	48	24	3.7	29.45	★ 2KJ1100 - ■CB13 - ■■R1		9
	52	22	4.1	26.77	2KJ1100 - ■CB13 - ■■Q1		9
	59	19	4.6	23.69	★ 2KJ1100 - ■CB13 - ■■P1		9
	70	16	5.5	19.85	2KJ1100 - ■CB13 - ■■N1		9
	83	14	6.5	16.92	★ 2KJ1100 - ■CB13 - ■■M1		9
	97	12	7.6	14.38	★ 2KJ1100 - ■CB13 - ■■L1		9
	112	10	8.8	12.5	2KJ1100 - ■CB13 - ■■K1		9
	129	8.9	9.8	10.88	★ 2KJ1100 - ■CB13 - ■■J1		9
	143	8	10.3	9.81	2KJ1100 - ■CB13 - ■■H1		9
	162	7.1	11.3	8.66	2KJ1100 - ■CB13 - ■■G1		9
	189	6.1	9.1	7.42	★ 2KJ1100 - ■CB13 - ■■F1		9
	217	5.3	10.0	6.45	2KJ1100 - ■CB13 - ■■E1		9
	250	4.6	11.1	5.61	★ 2KJ1100 - ■CB13 - ■■D1		9
	277	4.1	11.8	5.06	2KJ1100 - ■CB13 - ■■C1		9
	313	3.7	13.4	4.47	2KJ1100 - ■CB13 - ■■B1		9
0.18	D.188-D48-LA71C4						
	0.06	21 556	0.93	22 654	2KJ1236 - ■CC13 - ■■G1		604
	0.06	23 784	0.84	24 996	★ 2KJ1236 - ■CC13 - ■■H1		604
	0.07	19 027	1.1	19 997	★ 2KJ1236 - ■CC13 - ■■F1		604
	0.08	15 568	1.3	16 361	★ 2KJ1236 - ■CC13 - ■■D1		604

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.18	D.188-D48-LA71C4						
	0.08	17 164	1.2	18 039	2KJ1236 - ■ CC13 - ■■ E1		604
	0.09	14 184	1.4	14 907	2KJ1236 - ■ CC13 - ■■ C1		604
	D.188-Z48-LA71C4						
	0.11	12 159	1.6	12 504	2KJ1235 - ■ CC13 - ■■ X1		603
	0.12	10 761	1.9	11 066	★ 2KJ1235 - ■ CC13 - ■■ W1		603
	D.168-Z48-LA71C4						
	0.08	17 036	0.82	17 519	2KJ1232 - ■ CC13 - ■■ A2		459
	0.09	15 077	0.93	15 504	★ 2KJ1232 - ■ CC13 - ■■ X1		459
	0.10	13 705	1.0	14 094	2KJ1232 - ■ CC13 - ■■ W1		459
	0.11	12 312	1.1	12 661	★ 2KJ1232 - ■ CC13 - ■■ V1		459
	0.13	10 554	1.3	10 853	2KJ1232 - ■ CC13 - ■■ U1		459
	0.14	9 548	1.5	9 819	★ 2KJ1232 - ■ CC13 - ■■ T1		459
	0.15	8 814	1.6	9 064	2KJ1232 - ■ CC13 - ■■ S1		459
	0.17	7 664	1.8	7 881	★ 2KJ1232 - ■ CC13 - ■■ R1		459
	0.19	6 959	2.0	7 156	2KJ1232 - ■ CC13 - ■■ Q1		459
	D.148-Z38-LA71C4						
	0.15	9 142	0.88	9 401	2KJ1228 - ■ CC13 - ■■ T1		283
	0.17	8 006	1.0	8 233	2KJ1228 - ■ CC13 - ■■ S1		283
	0.19	7 081	1.1	7 282	2KJ1228 - ■ CC13 - ■■ R1		283
	0.21	6 418	1.2	6 600	2KJ1228 - ■ CC13 - ■■ Q1		283
	0.24	5 665	1.4	5 826	2KJ1228 - ■ CC13 - ■■ P1		283
	0.26	5 111	1.6	5 256	2KJ1228 - ■ CC13 - ■■ N1		283
	0.29	4 636	1.7	4 767	2KJ1228 - ■ CC13 - ■■ M1		283
	0.32	4 223	1.9	4 343	2KJ1228 - ■ CC13 - ■■ L1		283
	D.128-Z38-LA71C4						
	0.21	6 388	0.8	6 569	2KJ1225 - ■ CC13 - ■■ S1		198
	0.24	5 650	0.9	5 810	★ 2KJ1225 - ■ CC13 - ■■ R1		198
	0.26	5 121	1.0	5 266	2KJ1225 - ■ CC13 - ■■ Q1		198
	0.30	4 520	1.1	4 648	★ 2KJ1225 - ■ CC13 - ■■ P1		198
	0.33	4 077	1.3	4 193	2KJ1225 - ■ CC13 - ■■ N1		198
	0.36	3 698	1.4	3 803	★ 2KJ1225 - ■ CC13 - ■■ M1		198
	0.40	3 369	1.5	3 465	2KJ1225 - ■ CC13 - ■■ L1		198
	0.43	3 082	1.7	3 169	★ 2KJ1225 - ■ CC13 - ■■ K1		198
	0.48	2 756	1.9	2 834	2KJ1225 - ■ CC13 - ■■ J1		198
	0.53	2 530	2.0	2 602	★ 2KJ1225 - ■ CC13 - ■■ H1		198
	D.108-Z38-LA71C4						
	0.36	3 692	0.84	3 797	2KJ1223 - ■ CC13 - ■■ A2		127
	0.38	3 524	0.88	3 624	2KJ1223 - ■ CC13 - ■■ X1		127
	0.42	3 134	0.99	3 223	2KJ1223 - ■ CC13 - ■■ W1		127
	0.49	2 719	1.1	2 796	2KJ1223 - ■ CC13 - ■■ V1		127
	0.52	2 540	1.2	2 612	2KJ1223 - ■ CC13 - ■■ U1		127
	0.60	2 234	1.4	2 297	2KJ1223 - ■ CC13 - ■■ T1		127
	0.68	1 957	1.6	2 012	2KJ1223 - ■ CC13 - ■■ S1		127

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.18	D.108-Z38-LA71C4						
	0.77	1 731	1.8	1 780	2KJ1223 - ■ CC13 - ■■ R1		127
	0.85	1 569	2.0	1 613	2KJ1223 - ■ CC13 - ■■ Q1		127
	D.88-Z28-LA71C4						
	0.66	2 027	0.83	2 084	★ 2KJ1218 - ■ CC13 - ■■ T1		76
	0.74	1 791	0.94	1 842	2KJ1218 - ■ CC13 - ■■ S1		76
	0.8	1 654	1.0	1 701	★ 2KJ1218 - ■ CC13 - ■■ R1		76
	0.94	1 425	1.2	1 465	2KJ1218 - ■ CC13 - ■■ Q1		76
	1.0	1 294	1.3	1 331	★ 2KJ1218 - ■ CC13 - ■■ P1		76
	1.1	1 177	1.4	1 210	★ 2KJ1218 - ■ CC13 - ■■ N1		76
	1.2	1 067	1.6	1 097	2KJ1218 - ■ CC13 - ■■ M1		76
	1.4	971	1.7	999	★ 2KJ1218 - ■ CC13 - ■■ L1		76
	1.6	859	2.0	883	2KJ1218 - ■ CC13 - ■■ K1		76
	D.68-Z28-LA71C4						
	1.4	969	0.83	996	2KJ1214 - ■ CC13 - ■■ M1		46
	1.5	881	0.91	906	★ 2KJ1214 - ■ CC13 - ■■ L1		46
	1.7	779	1.0	801	2KJ1214 - ■ CC13 - ■■ K1		46
	1.9	720	1.1	740	★ 2KJ1214 - ■ CC13 - ■■ J1		46
	2.2	619	1.3	637	2KJ1214 - ■ CC13 - ■■ H1		46
	D.68-LA80S8						
	2.4	716	1.1	281.01	2KJ1204 - ■ DB13 - ■■ U1	P02	50
	2.7	633	1.3	248.68	★ 2KJ1204 - ■ DB13 - ■■ T1	P02	50
	D.68-LA71S6						
	3.0	568	1.4	281.01	2KJ1204 - ■ CD13 - ■■ U1	P01	46
	3.4	503	1.6	248.68	★ 2KJ1204 - ■ CD13 - ■■ T1	P01	46
	3.8	457	1.7	226.07	2KJ1204 - ■ CD13 - ■■ S1	P01	46
	4.2	411	1.9	203.09	★ 2KJ1204 - ■ CD13 - ■■ R1	P01	46
	D.48-Z28-LA71C4						
	2.6	519	0.87	534	2KJ1212 - ■ CC13 - ■■ K1		29
	2.8	479	0.94	493	★ 2KJ1212 - ■ CC13 - ■■ J1		29
	D.48-LA80S8						
	3.2	532	0.85	208.77	★ 2KJ1203 - ■ DB13 - ■■ S1	P02	31
	3.6	473	0.95	185.66	2KJ1203 - ■ DB13 - ■■ R1	P02	31
	D.48-LA71S6						
	4.1	422	1.1	208.77	★ 2KJ1203 - ■ CD13 - ■■ S1	P01	27
	4.6	375	1.2	185.66	2KJ1203 - ■ CD13 - ■■ R1	P01	27
	5.3	326	1.4	161.05	★ 2KJ1203 - ■ CD13 - ■■ Q1	P01	27
	5.6	304	1.5	150.48	2KJ1203 - ■ CD13 - ■■ P1	P01	27
	D.48-LA71C4						
	6.6	262	1.7	208.77	★ 2KJ1203 - ■ CC13 - ■■ S1		27
	7.4	233	1.9	185.66	2KJ1203 - ■ CC13 - ■■ R1		27
	D.38-LA71S6						
	6.4	270	0.81	133.57	2KJ1202 - ■ CD13 - ■■ P1	P01	18

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.18	D.38-LA71C4						
	7.1	241	0.91	191.75	★ 2KJ1202 - ■ CC13 - ■■ S1		18
	8.0	214	1.0	170.24	2KJ1202 - ■ CC13 - ■■ R1		18
	9.2	187	1.2	149.26	★ 2KJ1202 - ■ CC13 - ■■ Q1		18
	10.3	168	1.3	133.57	2KJ1202 - ■ CC13 - ■■ P1		18
	11.6	149	1.5	118.55	★ 2KJ1202 - ■ CC13 - ■■ N1		18
	13.2	130	1.7	103.89	2KJ1202 - ■ CC13 - ■■ M1		18
	15.0	115	1.9	91.34	★ 2KJ1202 - ■ CC13 - ■■ L1		18
	16.6	104	2.1	82.52	2KJ1202 - ■ CC13 - ■■ K1		18
	D.28-LA71C4						
	10.4	166	0.84	132.35	★ 2KJ1201 - ■ CC13 - ■■ H1		10
	12.4	139	1.0	110.86	2KJ1201 - ■ CC13 - ■■ G1		10
	14.5	119	1.2	94.52	★ 2KJ1201 - ■ CC13 - ■■ F1		10
	17.1	101	1.4	80.34	★ 2KJ1201 - ■ CC13 - ■■ E1		10
	19.6	88	1.6	69.82	2KJ1201 - ■ CC13 - ■■ D1		10
	22	76	1.8	60.77	★ 2KJ1201 - ■ CC13 - ■■ C1		10
	Z.28-LA71C4						
	27	64	2.2	51.35	2KJ1101 - ■ CC13 - ■■ C2		10
	32	54	2.6	43.3	★ 2KJ1101 - ■ CC13 - ■■ B2		10
	36	48	2.9	38.45	2KJ1101 - ■ CC13 - ■■ A2		10
	41	42	3.3	33.71	★ 2KJ1101 - ■ CC13 - ■■ X1		10
	45	38	3.7	30.16	2KJ1101 - ■ CC13 - ■■ W1		10
	51	34	4.2	26.77	★ 2KJ1101 - ■ CC13 - ■■ V1		10
	58	29	4.8	23.46	2KJ1101 - ■ CC13 - ■■ U1		10
	66	26	5.4	20.63	★ 2KJ1101 - ■ CC13 - ■■ T1		10
	74	23	6.0	18.63	2KJ1101 - ■ CC13 - ■■ S1		10
	84	20	6.9	16.24	★ 2KJ1101 - ■ CC13 - ■■ R1		10
	94	18	7.7	14.58	2KJ1101 - ■ CC13 - ■■ Q1		10
	104	16	8.5	13.17	★ 2KJ1101 - ■ CC13 - ■■ P1		10
	115	15	9.3	11.94	2KJ1101 - ■ CC13 - ■■ N1		10
	126	14	10.3	10.87	★ 2KJ1101 - ■ CC13 - ■■ M1		10
	143	12	11.6	9.61	2KJ1101 - ■ CC13 - ■■ L1		10
	154	11	12.6	8.87	★ 2KJ1101 - ■ CC13 - ■■ K1		10
	179	9.6	14.2	7.64	2KJ1101 - ■ CC13 - ■■ J1		10
	217	7.9	12.0	6.31	★ 2KJ1101 - ■ CC13 - ■■ G1		10
	240	7.2	13.0	5.72	2KJ1101 - ■ CC13 - ■■ F1		10
	263	6.5	14.1	5.21	★ 2KJ1101 - ■ CC13 - ■■ E1		10
	D.18-LA71C4						
	17.4	99	0.91	78.56	★ 2KJ1200 - ■ CC13 - ■■ G1		9
	20	84	1.1	66.78	★ 2KJ1200 - ■ CC13 - ■■ F1		9
	24	73	1.2	58.03	2KJ1200 - ■ CC13 - ■■ E1		9
	27	63	1.4	50.51	★ 2KJ1200 - ■ CC13 - ■■ D1		9

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.18	Z.18-LA71C4						
	32	54	1.7	43.15	2KJ1100 - ■ CC13 - ■■ U1		9
	37	47	1.9	37.23	★ 2KJ1100 - ■ CC13 - ■■ T1		9
	43	40	2.2	31.98	2KJ1100 - ■ CC13 - ■■ S1		9
	46	37	2.4	29.45	★ 2KJ1100 - ■ CC13 - ■■ R1		9
	51	34	2.7	26.77	2KJ1100 - ■ CC13 - ■■ Q1		9
	58	30	3.0	23.69	★ 2KJ1100 - ■ CC13 - ■■ P1		9
	69	25	3.6	19.85	2KJ1100 - ■ CC13 - ■■ N1		9
	81	21	4.2	16.92	★ 2KJ1100 - ■ CC13 - ■■ M1		9
	95	18	5.0	14.38	★ 2KJ1100 - ■ CC13 - ■■ L1		9
	110	16	5.7	12.5	2KJ1100 - ■ CC13 - ■■ K1		9
	126	14	6.4	10.88	★ 2KJ1100 - ■ CC13 - ■■ J1		9
	140	12	6.7	9.81	2KJ1100 - ■ CC13 - ■■ H1		9
	158	11	7.4	8.66	2KJ1100 - ■ CC13 - ■■ G1		9
	185	9.3	5.9	7.42	★ 2KJ1100 - ■ CC13 - ■■ F1		9
	212	8.1	6.5	6.45	2KJ1100 - ■ CC13 - ■■ E1		9
	244	7	7.2	5.61	★ 2KJ1100 - ■ CC13 - ■■ D1		9
	271	6.3	7.7	5.06	2KJ1100 - ■ CC13 - ■■ C1		9
	306	5.6	8.7	4.47	2KJ1100 - ■ CC13 - ■■ B1		9
	383	4.5	10.2	3.58	★ 2KJ1100 - ■ CC13 - ■■ A1		9
	E.38-LA71C4						
	147	12	2.7	9.33	★ 2KJ1001 - ■ CC13 - ■■ S1		13
	165	10	3.1	8.3	2KJ1001 - ■ CC13 - ■■ R1		13
	190	9	4.2	7.2	★ 2KJ1001 - ■ CC13 - ■■ Q1		13
0.25	D.188-D48-LA71S4						
	0.08	23 171	0.86	16 361	★ 2KJ1236 - ■ CD13 - ■■ D1		604
	0.09	21 112	0.95	14 907	2KJ1236 - ■ CD13 - ■■ C1		604
	D.188-Z48-LA71S4						
	0.11	18 098	1.1	12 504	2KJ1235 - ■ CD13 - ■■ X1		603
	0.12	16 016	1.2	11 066	★ 2KJ1235 - ■ CD13 - ■■ W1		603
	0.15	13 080	1.5	9 037	★ 2KJ1235 - ■ CD13 - ■■ V1		603
	0.17	11 211	1.8	7 746	2KJ1235 - ■ CD13 - ■■ U1		603
	0.19	10 143	2.0	7 008	★ 2KJ1235 - ■ CD13 - ■■ T1		603
	D.168-Z48-LA71S4						
	0.12	15 708	0.89	10 853	2KJ1232 - ■ CD13 - ■■ U1		459
	0.14	14 212	0.99	9 819	★ 2KJ1232 - ■ CD13 - ■■ T1		459
	0.15	13 119	1.1	9 064	2KJ1232 - ■ CD13 - ■■ S1		459
	0.17	11 407	1.2	7 881	★ 2KJ1232 - ■ CD13 - ■■ R1		459
	0.19	10 357	1.4	7 156	2KJ1232 - ■ CD13 - ■■ Q1		459
	0.21	9 457	1.5	6 534	★ 2KJ1232 - ■ CD13 - ■■ P1		459
	0.22	8 677	1.6	5 995	2KJ1232 - ■ CD13 - ■■ N1		459
	0.24	7 994	1.8	5 523	★ 2KJ1232 - ■ CD13 - ■■ M1		459
	0.27	7 260	1.9	5 016	2KJ1232 - ■ CD13 - ■■ L1		459

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.25							
D.148-Z38-LA71S4							
0.20		9 553	0.84	6 600	2KJ1228 - ■ CD13 - ■■ Q1		283
0.23		8 432	0.95	5 826	2KJ1228 - ■ CD13 - ■■ P1		283
0.26		7 607	1.1	5 256	2KJ1228 - ■ CD13 - ■■ N1		283
0.28		6 900	1.2	4 767	2KJ1228 - ■ CD13 - ■■ M1		283
0.31		6 286	1.3	4 343	2KJ1228 - ■ CD13 - ■■ L1		283
0.34		5 749	1.4	3 972	2KJ1228 - ■ CD13 - ■■ K1		283
0.38		5 141	1.6	3 552	2KJ1228 - ■ CD13 - ■■ J1		283
0.41		4 720	1.7	3 261	2KJ1228 - ■ CD13 - ■■ H1		283
0.46		4 254	1.9	2 939	2KJ1228 - ■ CD13 - ■■ G1		283
D.128-Z38-LA71S4							
0.32		6 069	0.84	4 193	2KJ1225 - ■ CD13 - ■■ N1		198
0.36		5 504	0.93	3 803	★ 2KJ1225 - ■ CD13 - ■■ M1		198
0.39		5 015	1.0	3 465	2KJ1225 - ■ CD13 - ■■ L1		198
0.43		4 587	1.1	3 169	★ 2KJ1225 - ■ CD13 - ■■ K1		198
0.48		4 102	1.2	2 834	2KJ1225 - ■ CD13 - ■■ J1		198
0.52		3 766	1.4	2 602	★ 2KJ1225 - ■ CD13 - ■■ H1		198
0.58		3 394	1.5	2 345	2KJ1225 - ■ CD13 - ■■ G1		198
0.67		2 911	1.8	2 011	★ 2KJ1225 - ■ CD13 - ■■ E1		198
0.67		2 919	1.7	2 017	★ 2KJ1225 - ■ CD13 - ■■ F1		198
0.75		2 602	2.0	1 798	2KJ1225 - ■ CD13 - ■■ D1		198
D.108-Z38-LA71S4							
0.52		3 780	0.82	2 612	2KJ1223 - ■ CD13 - ■■ U1		127
0.59		3 325	0.93	2 297	2KJ1223 - ■ CD13 - ■■ T1		127
0.67		2 912	1.1	2 012	2KJ1223 - ■ CD13 - ■■ S1		127
0.76		2 576	1.2	1 780	2KJ1223 - ■ CD13 - ■■ R1		127
0.84		2 335	1.3	1 613	2KJ1223 - ■ CD13 - ■■ Q1		127
0.95		2 061	1.5	1 424	2KJ1223 - ■ CD13 - ■■ P1		127
1.1		1 858	1.7	1 284	2KJ1223 - ■ CD13 - ■■ N1		127
1.2		1 686	1.8	1 165	2KJ1223 - ■ CD13 - ■■ M1		127
1.3		1 536	2.0	1 061	2KJ1223 - ■ CD13 - ■■ L1		127
D.88-Z28-LA71S4							
1.0		1 926	0.87	1 331	★ 2KJ1218 - ■ CD13 - ■■ P1		76
1.1		1 751	0.96	1 210	★ 2KJ1218 - ■ CD13 - ■■ N1		76
1.2		1 588	1.1	1 097	2KJ1218 - ■ CD13 - ■■ M1		76
1.4		1 446	1.2	999	★ 2KJ1218 - ■ CD13 - ■■ L1		76
1.5		1 278	1.3	883	2KJ1218 - ■ CD13 - ■■ K1		76
1.7		1 180	1.4	815	★ 2KJ1218 - ■ CD13 - ■■ J1		76
1.9		1 016	1.7	702	2KJ1218 - ■ CD13 - ■■ H1		76
2.1		936	1.8	647	★ 2KJ1218 - ■ CD13 - ■■ G1		76
D.88-LA80M8							
2.3		1 047	1.6	300.41	★ 2KJ1205 - ■ DC13 - ■■ V1	P02	82
2.5		944	1.8	270.9	2KJ1205 - ■ DC13 - ■■ U1	P02	82
2.8		851	2.0	244.29	★ 2KJ1205 - ■ DC13 - ■■ T1	P02	82

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.25	D.88-LA71M6						
	2.9	834	2.0	300.41	★ 2KJ1205 - ■CE13 - ■■V1	P01	78
	D.68-Z28-LA71S4						
	2.1	922	0.87	637	2KJ1214 - ■CD13 - ■■H1		46
	2.2	879	0.91	607	★ 2KJ1214 - ■CD13 - ■■G1		46
	D.68-LA80M8						
	2.4	979	0.82	281.01	2KJ1204 - ■DC13 - ■■U1	P02	50
	2.8	867	0.92	248.68	★ 2KJ1204 - ■DC13 - ■■T1	P02	50
	D.68-LA71M6						
	3.1	780	1.0	281.01	2KJ1204 - ■CE13 - ■■U1	P01	46
	3.5	690	1.2	248.68	★ 2KJ1204 - ■CE13 - ■■T1	P01	46
	3.8	628	1.3	226.07	2KJ1204 - ■CE13 - ■■S1	P01	46
	4.2	564	1.4	203.09	★ 2KJ1204 - ■CE13 - ■■R1	P01	46
	D.68-LA71S4						
	4.8	497	1.6	281.01	2KJ1204 - ■CD13 - ■■U1		46
	5.4	440	1.8	248.68	★ 2KJ1204 - ■CD13 - ■■T1		46
	6.0	400	2.0	226.07	2KJ1204 - ■CD13 - ■■S1		46
	D.48-LA71M6						
	4.6	515	0.87	185.66	2KJ1203 - ■CE13 - ■■R1	P01	27
	5.3	447	1.0	161.05	★ 2KJ1203 - ■CE13 - ■■Q1	P01	27
	5.7	418	1.1	150.48	2KJ1203 - ■CE13 - ■■P1	P01	27
	D.48-LA71S4						
	6.5	369	1.2	208.77	★ 2KJ1203 - ■CD13 - ■■S1		27
	7.3	328	1.4	185.66	2KJ1203 - ■CD13 - ■■R1		27
	8.4	285	1.6	161.05	★ 2KJ1203 - ■CD13 - ■■Q1		27
	9.0	266	1.7	150.48	2KJ1203 - ■CD13 - ■■P1		27
	10.2	234	1.9	132.34	★ 2KJ1203 - ■CD13 - ■■N1		27
	11.6	205	2.2	115.91	2KJ1203 - ■CD13 - ■■M1		27
	D.38-LA71S4						
	9.0	264	0.83	149.26	★ 2KJ1202 - ■CD13 - ■■Q1		18
	10.1	236	0.93	133.57	2KJ1202 - ■CD13 - ■■P1		18
	11.4	210	1.0	118.55	★ 2KJ1202 - ■CD13 - ■■N1		18
	13.0	184	1.2	103.89	2KJ1202 - ■CD13 - ■■M1		18
	14.8	162	1.4	91.34	★ 2KJ1202 - ■CD13 - ■■L1		18
	16.4	146	1.5	82.52	2KJ1202 - ■CD13 - ■■K1		18
	18.8	127	1.7	71.91	★ 2KJ1202 - ■CD13 - ■■J1		18
	21	114	1.9	64.58	2KJ1202 - ■CD13 - ■■H1		18
	23	103	2.1	58.3	★ 2KJ1202 - ■CD13 - ■■G1		18
	26	94	2.4	52.86	2KJ1202 - ■CD13 - ■■F1		18
	D.28-LA71S4						
	14.3	167	0.84	94.52	★ 2KJ1201 - ■CD13 - ■■F1		10
	16.8	142	0.99	80.34	★ 2KJ1201 - ■CD13 - ■■E1		10
	19.3	123	1.1	69.82	2KJ1201 - ■CD13 - ■■D1		10
	22	107	1.3	60.77	★ 2KJ1201 - ■CD13 - ■■C1		10

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.25	Z.28-LA71S4						
	26	91	1.5	51.35	2KJ1101 - ■CD13 - ■■C2		10
	31	77	1.8	43.3	★ 2KJ1101 - ■CD13 - ■■B2		10
	35	68	2.1	38.45	2KJ1101 - ■CD13 - ■■A2		10
	40	60	2.3	33.71	★ 2KJ1101 - ■CD13 - ■■X1		10
	45	53	2.6	30.16	2KJ1101 - ■CD13 - ■■W1		10
	50	47	3.0	26.77	★ 2KJ1101 - ■CD13 - ■■V1		10
	58	42	3.4	23.46	2KJ1101 - ■CD13 - ■■U1		10
	65	36	3.8	20.63	★ 2KJ1101 - ■CD13 - ■■T1		10
	72	33	4.2	18.63	2KJ1101 - ■CD13 - ■■S1		10
	83	29	4.9	16.24	★ 2KJ1101 - ■CD13 - ■■R1		10
	93	26	5.4	14.58	2KJ1101 - ■CD13 - ■■Q1		10
	103	23	6.0	13.17	★ 2KJ1101 - ■CD13 - ■■P1		10
	113	21	6.6	11.94	2KJ1101 - ■CD13 - ■■N1		10
	124	19	7.3	10.87	★ 2KJ1101 - ■CD13 - ■■M1		10
	140	17	8.2	9.61	2KJ1101 - ■CD13 - ■■L1		10
	152	16	8.9	8.87	★ 2KJ1101 - ■CD13 - ■■K1		10
	177	14	10.1	7.64	2KJ1101 - ■CD13 - ■■J1		10
	195	12	10.8	6.94	★ 2KJ1101 - ■CD13 - ■■H1		10
	214	11	8.5	6.31	★ 2KJ1101 - ■CD13 - ■■G1		10
	236	10	9.2	5.72	2KJ1101 - ■CD13 - ■■F1		10
	259	9.2	10.0	5.21	★ 2KJ1101 - ■CD13 - ■■E1		10
	293	8.1	10.8	4.6	2KJ1101 - ■CD13 - ■■D1		10
	318	7.5	12.0	4.25	★ 2KJ1101 - ■CD13 - ■■C1		10
	369	6.5	12.4	3.66	2KJ1101 - ■CD13 - ■■B1		10
	405	5.9	13.1	3.33	★ 2KJ1101 - ■CD13 - ■■A1		10
	D.18-LA71S4						
	23	103	0.88	58.03	2KJ1200 - ■CD13 - ■■E1		9
	27	89	1.0	50.51	★ 2KJ1200 - ■CD13 - ■■D1		9
	Z.18-LA71S4						
	31	76	1.2	43.15	2KJ1100 - ■CD13 - ■■U1		9
	36	66	1.4	37.23	★ 2KJ1100 - ■CD13 - ■■T1		9
	42	57	1.6	31.98	2KJ1100 - ■CD13 - ■■S1		9
	46	52	1.7	29.45	★ 2KJ1100 - ■CD13 - ■■R1		9
	50	47	1.9	26.77	2KJ1100 - ■CD13 - ■■Q1		9
	57	42	2.1	23.69	★ 2KJ1100 - ■CD13 - ■■P1		9
	68	35	2.6	19.85	2KJ1100 - ■CD13 - ■■N1		9
	80	30	3.0	16.92	★ 2KJ1100 - ■CD13 - ■■M1		9
	94	25	3.5	14.38	★ 2KJ1100 - ■CD13 - ■■L1		9
	108	22	4.1	12.5	2KJ1100 - ■CD13 - ■■K1		9
	124	19	4.5	10.88	★ 2KJ1100 - ■CD13 - ■■J1		9
	138	17	4.8	9.81	2KJ1100 - ■CD13 - ■■H1		9
	156	15	5.2	8.66	2KJ1100 - ■CD13 - ■■G1		9
	182	13	4.2	7.42	★ 2KJ1100 - ■CD13 - ■■F1		9

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.25	Z.18-LA71S4						
	209	11	4.6	6.45	2KJ1100 - ■CD13 - ■■E1		9
	241	9.9	5.1	5.61 ★	2KJ1100 - ■CD13 - ■■D1		9
	267	8.9	5.5	5.06	2KJ1100 - ■CD13 - ■■C1		9
	302	7.9	6.2	4.47	2KJ1100 - ■CD13 - ■■B1		9
	377	6.3	7.3	3.58 ★	2KJ1100 - ■CD13 - ■■A1		9
	E.48-LA71S4						
	119	20	2.8	11.3	2KJ1002 - ■CD13 - ■■U1		16
	149	16	4.0	9.09	2KJ1002 - ■CD13 - ■■S1		16
	E.38-LA71S4						
	145	16	1.9	9.33 ★	2KJ1001 - ■CD13 - ■■S1		13
	163	15	2.2	8.3	2KJ1001 - ■CD13 - ■■R1		13
	188	13	3.0	7.2 ★	2KJ1001 - ■CD13 - ■■Q1		13
	201	12	4.0	6.73	2KJ1001 - ■CD13 - ■■P1		13
0.37	D.188-Z48-LA71M4						
	0.12	24 391	0.82	11 066 ★	2KJ1235 - ■CE13 - ■■W1		603
	0.15	19 919	1.0	9 037 ★	2KJ1235 - ■CE13 - ■■V1		603
	0.18	17 073	1.2	7 746	2KJ1235 - ■CE13 - ■■U1		603
	0.20	15 447	1.3	7 008 ★	2KJ1235 - ■CE13 - ■■T1		603
	0.21	14 259	1.4	6 469	2KJ1235 - ■CE13 - ■■S1		603
	0.24	12 398	1.6	5 625 ★	2KJ1235 - ■CE13 - ■■R1		603
	0.27	11 257	1.8	5 107	2KJ1235 - ■CE13 - ■■Q1		603
	0.29	10 278	1.9	4 663 ★	2KJ1235 - ■CE13 - ■■P1		603
	D.168-Z48-LA71M4						
	0.17	17 371	0.81	7 881 ★	2KJ1232 - ■CE13 - ■■R1		459
	0.19	15 773	0.89	7 156	2KJ1232 - ■CE13 - ■■Q1		459
	0.21	14 402	0.97	6 534 ★	2KJ1232 - ■CE13 - ■■P1		459
	0.23	13 214	1.1	5 995	2KJ1232 - ■CE13 - ■■N1		459
	0.25	12 174	1.2	5 523 ★	2KJ1232 - ■CE13 - ■■M1		459
	0.27	11 056	1.3	5 016	2KJ1232 - ■CE13 - ■■L1		459
	0.3	10 071	1.4	4 569 ★	2KJ1232 - ■CE13 - ■■K1		459
	0.33	9 227	1.5	4 186	2KJ1232 - ■CE13 - ■■J1		459
	0.37	8 233	1.7	3 735 ★	2KJ1232 - ■CE13 - ■■H1		459
	D.148-Z38-LA71M4						
	0.32	9 573	0.84	4 343	2KJ1228 - ■CE13 - ■■L1		283
	0.34	8 755	0.91	3 972	2KJ1228 - ■CE13 - ■■K1		283
	0.39	7 829	1.0	3 552	2KJ1228 - ■CE13 - ■■J1		283
	0.42	7 188	1.1	3 261	2KJ1228 - ■CE13 - ■■H1		283
	0.47	6 478	1.2	2 939	2KJ1228 - ■CE13 - ■■G1		283
	0.54	5 557	1.4	2 521	2KJ1228 - ■CE13 - ■■E1		283
	0.54	5 572	1.4	2 528	2KJ1228 - ■CE13 - ■■F1		283
	0.61	4 968	1.6	2 254	2KJ1228 - ■CE13 - ■■D1		283
	0.66	4 563	1.8	2 070	2KJ1228 - ■CE13 - ■■C1		283
	0.74	4 111	1.9	1 865	2KJ1228 - ■CE13 - ■■B1		283

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.37	D.128-Z48-LA71M4						
	1.1	2 801	1.8	1 271	2KJ1227 - ■CE13 - ■■P1		208
	1.2	2 570	2.0	1 166	2KJ1227 - ■CE13 - ■■N1		208
	D.128-Z38-LA71M4						
	0.48	6 247	0.82	2 834	2KJ1225 - ■CE13 - ■■J1		198
	0.53	5 735	0.89	2 602	★ 2KJ1225 - ■CE13 - ■■H1		198
	0.58	5 169	0.99	2 345	2KJ1225 - ■CE13 - ■■G1		198
	0.68	4 433	1.2	2 011	★ 2KJ1225 - ■CE13 - ■■E1		198
	0.68	4 446	1.1	2 017	★ 2KJ1225 - ■CE13 - ■■F1		198
	0.76	3 963	1.3	1 798	2KJ1225 - ■CE13 - ■■D1		198
	0.83	3 639	1.4	1 651	★ 2KJ1225 - ■CE13 - ■■C1		198
	0.92	3 280	1.6	1 488	2KJ1225 - ■CE13 - ■■B1		198
	1.1	2 821	1.8	1 280	★ 2KJ1225 - ■CE13 - ■■A1		198
	D.108-Z38-LA71M4						
	0.85	3 555	0.87	1 613	2KJ1223 - ■CE13 - ■■Q1		127
	0.96	3 139	0.99	1 424	2KJ1223 - ■CE13 - ■■P1		127
	1.1	2 830	1.1	1 284	2KJ1223 - ■CE13 - ■■N1		127
	1.2	2 568	1.2	1 165	2KJ1223 - ■CE13 - ■■M1		127
	1.3	2 339	1.3	1 061	2KJ1223 - ■CE13 - ■■L1		127
	1.4	2 140	1.4	971	2KJ1223 - ■CE13 - ■■K1		127
	1.6	1 913	1.6	868	2KJ1223 - ■CE13 - ■■J1		127
	1.7	1 757	1.8	797	2KJ1223 - ■CE13 - ■■H1		127
	D.108-LA90SA8						
	1.9	1 881	1.6	359.3	2KJ1206 - ■EB13 - ■■V1	P02	133
	2.1	1 702	1.8	325.21	★ 2KJ1206 - ■EB13 - ■■U1	P02	133
	D.88-Z28-LA71M4						
	1.6	1 946	0.86	883	2KJ1218 - ■CE13 - ■■K1		76
	1.7	1 796	0.94	815	★ 2KJ1218 - ■CE13 - ■■J1		76
	2.0	1 547	1.1	702	2KJ1218 - ■CE13 - ■■H1		76
	2.1	1 426	1.2	647	★ 2KJ1218 - ■CE13 - ■■G1		76
	D.88-LA90SA8						
	2.2	1 573	1.1	300.41	★ 2KJ1205 - ■EB13 - ■■V1	P02	85
	2.5	1 418	1.2	270.9	2KJ1205 - ■EB13 - ■■U1	P02	85
	2.8	1 279	1.3	244.29	★ 2KJ1205 - ■EB13 - ■■T1	P02	85
	D.88-LA80S6						
	3.1	1 154	1.5	300.41	★ 2KJ1205 - ■DB13 - ■■V1	P01	82
	3.4	1 040	1.6	270.9	2KJ1205 - ■DB13 - ■■U1	P01	82
	3.8	938	1.8	244.29	★ 2KJ1205 - ■DB13 - ■■T1	P01	82
	4.3	821	2.0	213.64	2KJ1205 - ■DB13 - ■■S1	P01	82
	D.68-LA80S6						
	3.7	955	0.84	248.68	★ 2KJ1204 - ■DB13 - ■■T1	P01	50
	4.1	868	0.92	226.07	2KJ1204 - ■DB13 - ■■S1	P01	50
	4.5	780	1.0	203.09	★ 2KJ1204 - ■DB13 - ■■R1	P01	50

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.37	D.68-LA71M4						
	4.9	725	1.1	281.01	2KJ1204 - ■CE13 - ■■U1		46
	5.5	641	1.2	248.68	★ 2KJ1204 - ■CE13 - ■■T1		46
	6.1	583	1.4	226.07	2KJ1204 - ■CE13 - ■■S1		46
	6.7	524	1.5	203.09	★ 2KJ1204 - ■CE13 - ■■R1		46
	7.9	449	1.8	174.08	2KJ1204 - ■CE13 - ■■Q1		46
	8.7	406	2.0	157.5	★ 2KJ1204 - ■CE13 - ■■P1		46
	9.4	375	2.1	145.38	2KJ1204 - ■CE13 - ■■N1		46
	D.48-LA71M4						
	6.6	538	0.84	208.77	★ 2KJ1203 - ■CE13 - ■■S1		27
	7.4	479	0.94	185.66	2KJ1203 - ■CE13 - ■■R1		27
	8.5	415	1.1	161.05	★ 2KJ1203 - ■CE13 - ■■Q1		27
	9.1	388	1.2	150.48	2KJ1203 - ■CE13 - ■■P1		27
	10.4	341	1.3	132.34	★ 2KJ1203 - ■CE13 - ■■N1		27
	11.8	299	1.5	115.91	2KJ1203 - ■CE13 - ■■M1		27
	13.4	264	1.7	102.52	★ 2KJ1203 - ■CE13 - ■■L1		27
	14.7	240	1.9	92.91	2KJ1203 - ■CE13 - ■■K1		27
	16.7	212	2.1	82.02	★ 2KJ1203 - ■CE13 - ■■J1		27
	Z.48-LA71M4						
	27	132	2.2	51.28	2KJ1103 - ■CE13 - ■■A2		27
	D.38-LA71M4						
	13.2	268	0.82	103.89	2KJ1202 - ■CE13 - ■■M1		18
	15.0	236	0.93	91.34	★ 2KJ1202 - ■CE13 - ■■L1		18
	16.6	213	1.0	82.52	2KJ1202 - ■CE13 - ■■K1		18
	19.1	185	1.2	71.91	★ 2KJ1202 - ■CE13 - ■■J1		18
	21	167	1.3	64.58	2KJ1202 - ■CE13 - ■■H1		18
	24	150	1.5	58.3	★ 2KJ1202 - ■CE13 - ■■G1		18
	26	136	1.6	52.86	2KJ1202 - ■CE13 - ■■F1		18
	Z.38-LA71M4						
	31	114	1.9	44.12	★ 2KJ1102 - ■CE13 - ■■A2		17
	35	101	2.1	39.24	2KJ1102 - ■CE13 - ■■X1		17
	40	88	2.5	34.04	★ 2KJ1102 - ■CE13 - ■■W1		17
	43	82	2.7	31.8	2KJ1102 - ■CE13 - ■■V1		17
	D.28-LA71M4						
	22	157	0.89	60.77	★ 2KJ1201 - ■CE13 - ■■C1		10
	Z.28-LA71M4						
	27	132	1.1	51.35	2KJ1101 - ■CE13 - ■■C2		10
	32	112	1.3	43.3	★ 2KJ1101 - ■CE13 - ■■B2		10
	36	99	1.4	38.45	2KJ1101 - ■CE13 - ■■A2		10
	41	87	1.6	33.71	★ 2KJ1101 - ■CE13 - ■■X1		10
	45	78	1.8	30.16	2KJ1101 - ■CE13 - ■■W1		10
	51	69	2.0	26.77	★ 2KJ1101 - ■CE13 - ■■V1		10
	58	60	2.3	23.46	2KJ1101 - ■CE13 - ■■U1		10
	66	53	2.6	20.63	★ 2KJ1101 - ■CE13 - ■■T1		10

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.37	Z.28-LA71M4						
	74	48	2.9	18.63	2KJ1101 - ■CE13 - ■■S1		10
	84	42	3.3	16.24 ★	2KJ1101 - ■CE13 - ■■R1		10
	Z.18-LA71M4						
	32	111	0.81	43.15	2KJ1100 - ■CE13 - ■■U1		9
	37	96	0.94	37.23 ★	2KJ1100 - ■CE13 - ■■T1		9
	43	82	1.1	31.98	2KJ1100 - ■CE13 - ■■S1		9
	46	76	1.2	29.45 ★	2KJ1100 - ■CE13 - ■■R1		9
	51	69	1.3	26.77	2KJ1100 - ■CE13 - ■■Q1		9
	58	61	1.5	23.69 ★	2KJ1100 - ■CE13 - ■■P1		9
	69	51	1.8	19.85	2KJ1100 - ■CE13 - ■■N1		9
	81	44	2.1	16.92 ★	2KJ1100 - ■CE13 - ■■M1		9
	95	37	2.4	14.38 ★	2KJ1100 - ■CE13 - ■■L1		9
	110	32	2.8	12.5	2KJ1100 - ■CE13 - ■■K1		9
	126	28	3.1	10.88 ★	2KJ1100 - ■CE13 - ■■J1		9
	140	25	3.3	9.81	2KJ1100 - ■CE13 - ■■H1		9
	158	22	3.6	8.66	2KJ1100 - ■CE13 - ■■G1		9
	185	19	2.9	7.42 ★	2KJ1100 - ■CE13 - ■■F1		9
	212	17	3.2	6.45	2KJ1100 - ■CE13 - ■■E1		9
	244	14	3.5	5.61 ★	2KJ1100 - ■CE13 - ■■D1		9
	271	13	3.8	5.06	2KJ1100 - ■CE13 - ■■C1		9
	306	12	4.3	4.47	2KJ1100 - ■CE13 - ■■B1		9
	383	9.2	5.0	3.58 ★	2KJ1100 - ■CE13 - ■■A1		9
	E.68-LA71M4						
	110	32	2.5	12.4 ★	2KJ1003 - ■CE13 - ■■W1		26
	123	29	3.2	11.18	2KJ1003 - ■CE13 - ■■V1		26
	136	26	3.7	10.08 ★	2KJ1003 - ■CE13 - ■■U1		26
	E.48-LA71M4						
	121	29	1.9	11.3	2KJ1002 - ■CE13 - ■■U1		16
	137	26	3.1	10 ★	2KJ1002 - ■CE13 - ■■T1		16
	151	23	2.7	9.09	2KJ1002 - ■CE13 - ■■S1		16
	168	21	4.0	8.17 ★	2KJ1002 - ■CE13 - ■■R1		16
	E.38-LA71M4						
	147	24	1.3	9.33 ★	2KJ1001 - ■CE13 - ■■S1		13
	165	21	1.5	8.3	2KJ1001 - ■CE13 - ■■R1		13
	190	19	2.0	7.2 ★	2KJ1001 - ■CE13 - ■■Q1		13
	204	17	2.8	6.73	2KJ1001 - ■CE13 - ■■P1		13
	231	15	3.5	5.92 ★	2KJ1001 - ■CE13 - ■■N1		13
0.55	D.188-Z48-LA71ZMP4						
	0.20	23 625	0.85	7 008 ★	2KJ1235 - ■CG13 - ■■T1		603
	0.21	21 808	0.92	6 469	2KJ1235 - ■CG13 - ■■S1		603
	0.24	18 962	1.1	5 625 ★	2KJ1235 - ■CG13 - ■■R1		603
	0.27	17 216	1.2	5 107	2KJ1235 - ■CG13 - ■■Q1		603
	0.29	15 719	1.3	4 663 ★	2KJ1235 - ■CG13 - ■■P1		603

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.55	D.188-Z48-LA71ZMP4						
	0.32	14 425	1.4	4 279	2KJ1235 - ■CG13 - ■■N1		603
	0.35	13 289	1.5	3 942	★ 2KJ1235 - ■CG13 - ■■M1		603
	0.38	12 068	1.7	3 580	2KJ1235 - ■CG13 - ■■L1		603
	0.42	10 993	1.8	3 261	★ 2KJ1235 - ■CG13 - ■■K1		603
	0.46	10 073	2.0	2 988	2KJ1235 - ■CG13 - ■■J1		603
	D.168-Z48-LA71ZMP4						
	0.27	16 909	0.83	5 016	2KJ1232 - ■CG13 - ■■L1		459
	0.30	15 402	0.91	4 569	★ 2KJ1232 - ■CG13 - ■■K1		459
	0.33	14 111	0.99	4 186	2KJ1232 - ■CG13 - ■■J1		459
	0.37	12 591	1.1	3 735	★ 2KJ1232 - ■CG13 - ■■H1		459
	0.59	7 818	1.8	2 319	★ 2KJ1232 - ■CG13 - ■■D1		459
	D.148-Z48-LA71ZMP4						
	0.84	5 498	1.5	1 631	2KJ1231 - ■CG13 - ■■N1		292
	0.91	5 063	1.6	1 502	2KJ1231 - ■CG13 - ■■M1		292
	1	4 598	1.7	1 364	2KJ1231 - ■CG13 - ■■L1		292
	1.1	4 190	1.9	1 243	2KJ1231 - ■CG13 - ■■K1		292
	D.148-Z38-LA71ZMP4						
	0.47	9 908	0.81	2 939	2KJ1228 - ■CG13 - ■■G1		283
	0.54	8 498	0.94	2 521	2KJ1228 - ■CG13 - ■■E1		283
	0.54	8 522	0.94	2 528	2KJ1228 - ■CG13 - ■■F1		283
	0.61	7 598	1.1	2 254	2KJ1228 - ■CG13 - ■■D1		283
	0.66	6 978	1.1	2 070	2KJ1228 - ■CG13 - ■■C1		283
	0.74	6 287	1.3	1 865	2KJ1228 - ■CG13 - ■■B1		283
	0.85	5 407	1.5	1 604	2KJ1228 - ■CG13 - ■■A1		283
	D.128-Z38-LA71ZMP4						
	0.76	6 061	0.84	1 798	2KJ1225 - ■CG13 - ■■D1		198
	0.83	5 566	0.92	1 651	★ 2KJ1225 - ■CG13 - ■■C1		198
	0.92	5 016	1.0	1 488	2KJ1225 - ■CG13 - ■■B1		198
	1.1	4 315	1.2	1 280	★ 2KJ1225 - ■CG13 - ■■A1		198
	D.128-Z48-LA71ZMP4						
	1.1	4 285	1.2	1 271	2KJ1227 - ■CG13 - ■■P1		208
	1.2	3 931	1.3	1 166	2KJ1227 - ■CG13 - ■■N1		208
	1.3	3 621	1.4	1 074	2KJ1227 - ■CG13 - ■■M1		208
	1.4	3 287	1.6	975	2KJ1227 - ■CG13 - ■■L1		208
	1.5	2 997	1.7	889	2KJ1227 - ■CG13 - ■■K1		208
	1.7	2 744	1.9	814	2KJ1227 - ■CG13 - ■■J1		208
	D.108-Z38-LA71ZMP4						
	1.3	3 577	0.87	1 061	2KJ1223 - ■CG13 - ■■L1		127
	1.4	3 273	0.95	971	2KJ1223 - ■CG13 - ■■K1		127
	1.6	2 926	1.1	868	2KJ1223 - ■CG13 - ■■J1		127
	1.7	2 687	1.2	797	2KJ1223 - ■CG13 - ■■H1		127

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.55	D.108-LA90LA8						
	1.9	2 796	1.1	359.3	2KJ1206 - ■EE13 - ■■V1	P02	136
	2.1	2 531	1.2	325.21	★ 2KJ1206 - ■EE13 - ■■U1	P02	136
	2.4	2 216	1.4	284.73	2KJ1206 - ■EE13 - ■■T1	P02	136
	D.108-LA80M6						
	2.5	2 074	1.5	359.3	2KJ1206 - ■DC13 - ■■V1	P01	130
	2.8	1 877	1.7	325.21	★ 2KJ1206 - ■DC13 - ■■U1	P01	130
	3.2	1 643	1.9	284.73	2KJ1206 - ■DC13 - ■■T1	P01	130
	D.88-LA90LA8						
	2.5	2 108	0.8	270.9	2KJ1205 - ■EE13 - ■■U1	P02	88
	2.8	1 901	0.88	244.29	★ 2KJ1205 - ■EE13 - ■■T1	P02	88
	D.88-LA80M6						
	3.0	1 734	0.97	300.41	★ 2KJ1205 - ■DC13 - ■■V1	P01	82
	3.4	1 564	1.1	270.9	2KJ1205 - ■DC13 - ■■U1	P01	82
	3.7	1 410	1.2	244.29	★ 2KJ1205 - ■DC13 - ■■T1	P01	82
	4.3	1 233	1.4	213.64	2KJ1205 - ■DC13 - ■■S1	P01	82
	D.88-LA71ZMP4						
	4.6	1 152	1.5	300.41	★ 2KJ1205 - ■CG13 - ■■V1		78
	5.1	1 039	1.6	270.9	2KJ1205 - ■CG13 - ■■U1		78
	5.6	937	1.8	244.29	★ 2KJ1205 - ■CG13 - ■■T1		78
	6.4	819	2.1	213.64	2KJ1205 - ■CG13 - ■■S1		78
	D.68-LA71ZMP4						
	5.5	953	0.84	248.68	★ 2KJ1204 - ■CG13 - ■■T1		46
	6.1	867	0.92	226.07	2KJ1204 - ■CG13 - ■■S1		46
	6.7	779	1	203.09	★ 2KJ1204 - ■CG13 - ■■R1		46
	7.9	667	1.2	174.08	2KJ1204 - ■CG13 - ■■Q1		46
	8.7	604	1.3	157.5	★ 2KJ1204 - ■CG13 - ■■P1		46
	9.4	557	1.4	145.38	2KJ1204 - ■CG13 - ■■N1		46
	10.8	485	1.7	126.41	★ 2KJ1204 - ■CG13 - ■■M1		46
	11.9	440	1.8	114.78	2KJ1204 - ■CG13 - ■■L1		46
	13.1	402	2.0	104.8	★ 2KJ1204 - ■CG13 - ■■K1		46
	14.2	369	2.2	96.16	2KJ1204 - ■CG13 - ■■J1		46
	D.48-LA71ZMP4						
	10.4	507	0.89	132.34	★ 2KJ1203 - ■CG13 - ■■N1		27
	11.8	444	1.0	115.91	2KJ1203 - ■CG13 - ■■M1		27
	13.4	393	1.1	102.52	★ 2KJ1203 - ■CG13 - ■■L1		27
	14.7	356	1.3	92.91	2KJ1203 - ■CG13 - ■■K1		27
	16.7	314	1.4	82.02	★ 2KJ1203 - ■CG13 - ■■J1		27
	18.5	284	1.6	73.99	2KJ1203 - ■CG13 - ■■H1		27
	20	257	1.7	67.1	★ 2KJ1203 - ■CG13 - ■■G1		27
	22	234	1.9	61.14	2KJ1203 - ■CG13 - ■■F1		27
	27	192	2.3	50	2KJ1203 - ■CG13 - ■■D1		27
	Z.48-LA71ZMP4						
	27	197	1.5	51.28	2KJ1103 - ■CG13 - ■■A2		27

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.55	D.38-LA71ZMP4						
	19.1	276	0.8	71.91	★ 2KJ1202 - ■CG13 - ■■J1		18
	21	248	0.89	64.58	2KJ1202 - ■CG13 - ■■H1		18
	24	224	0.98	58.3	★ 2KJ1202 - ■CG13 - ■■G1		18
	26	203	1.1	52.86	2KJ1202 - ■CG13 - ■■F1		18
	Z.38-LA71ZMP4						
	31	169	1.3	44.12	★ 2KJ1102 - ■CG13 - ■■A2		17
	35	150	1.4	39.24	2KJ1102 - ■CG13 - ■■X1		17
	40	131	1.7	34.04	★ 2KJ1102 - ■CG13 - ■■W1		17
	43	122	1.8	31.8	2KJ1102 - ■CG13 - ■■V1		17
	49	107	2.1	27.97	★ 2KJ1102 - ■CG13 - ■■U1		17
	56	94	2.3	24.5	2KJ1102 - ■CG13 - ■■T1		17
	63	83	2.6	21.67	★ 2KJ1102 - ■CG13 - ■■S1		17
	70	75	2.9	19.64	2KJ1102 - ■CG13 - ■■R1		17
	Z.28-LA71ZMP4						
	32	166	0.84	43.3	★ 2KJ1101 - ■CG13 - ■■B2		10
	36	147	0.95	38.45	2KJ1101 - ■CG13 - ■■A2		10
	41	129	1.1	33.71	★ 2KJ1101 - ■CG13 - ■■X1		10
	45	116	1.2	30.16	2KJ1101 - ■CG13 - ■■W1		10
	51	103	1.4	26.77	★ 2KJ1101 - ■CG13 - ■■V1		10
	58	90	1.6	23.46	2KJ1101 - ■CG13 - ■■U1		10
	66	79	1.8	20.63	★ 2KJ1101 - ■CG13 - ■■T1		10
	74	71	2.0	18.63	2KJ1101 - ■CG13 - ■■S1		10
	84	62	2.2	16.24	★ 2KJ1101 - ■CG13 - ■■R1		10
	94	56	2.5	14.58	2KJ1101 - ■CG13 - ■■Q1		10
	104	50	2.8	13.17	★ 2KJ1101 - ■CG13 - ■■P1		10
	115	46	3.1	11.94	2KJ1101 - ■CG13 - ■■N1		10
	126	42	3.4	10.87	★ 2KJ1101 - ■CG13 - ■■M1		10
	143	37	3.8	9.61	2KJ1101 - ■CG13 - ■■L1		10
	217	24	3.9	6.31	★ 2KJ1101 - ■CG13 - ■■G1		10
	240	22	4.2	5.72	2KJ1101 - ■CG13 - ■■F1		10
	263	20	4.6	5.21	★ 2KJ1101 - ■CG13 - ■■E1		10
	298	18	5	4.6	2KJ1101 - ■CG13 - ■■D1		10
	Z.18-LA71ZMP4						
	46	113	0.8	29.45	★ 2KJ1100 - ■CG13 - ■■R1		9
	51	103	0.88	26.77	2KJ1100 - ■CG13 - ■■Q1		9
	58	91	0.99	23.69	★ 2KJ1100 - ■CG13 - ■■P1		9
	69	76	1.2	19.85	2KJ1100 - ■CG13 - ■■N1		9
	81	65	1.4	16.92	★ 2KJ1100 - ■CG13 - ■■M1		9
	95	55	1.6	14.38	★ 2KJ1100 - ■CG13 - ■■L1		9
	110	48	1.9	12.5	2KJ1100 - ■CG13 - ■■K1		9
	126	42	2.1	10.88	★ 2KJ1100 - ■CG13 - ■■J1		9
	140	38	2.2	9.81	2KJ1100 - ■CG13 - ■■H1		9
	158	33	2.4	8.66	2KJ1100 - ■CG13 - ■■G1		9

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.55	Z.18-LA71ZMP4						
	185	28	1.9	7.42	★ 2KJ1100 - ■ CG13 - ■■ F1		9
	212	25	2.1	6.45	2KJ1100 - ■ CG13 - ■■ E1		9
	244	22	2.4	5.61	★ 2KJ1100 - ■ CG13 - ■■ D1		9
	271	19	2.5	5.06	2KJ1100 - ■ CG13 - ■■ C1		9
	306	17	2.9	4.47	2KJ1100 - ■ CG13 - ■■ B1		9
	383	14	3.4	3.58	★ 2KJ1100 - ■ CG13 - ■■ A1		9
	E.68-LA71ZMP4						
	110	48	1.7	12.4	★ 2KJ1003 - ■ CG13 - ■■ W1		26
	123	43	2.1	11.18	2KJ1003 - ■ CG13 - ■■ V1		26
	136	39	2.5	10.08	★ 2KJ1003 - ■ CG13 - ■■ U1		26
	E.48-LA71ZMP4						
	121	43	1.3	11.3	2KJ1002 - ■ CG13 - ■■ U1		16
	137	38	2.1	10	★ 2KJ1002 - ■ CG13 - ■■ T1		16
	151	35	1.8	9.09	2KJ1002 - ■ CG13 - ■■ S1		16
	168	31	2.7	8.17	★ 2KJ1002 - ■ CG13 - ■■ R1		16
	196	27	3.6	7	2KJ1002 - ■ CG13 - ■■ Q1		16
	E.38-LA71ZMP4						
	147	36	0.89	9.33	★ 2KJ1001 - ■ CG13 - ■■ S1		13
	165	32	1.0	8.3	2KJ1001 - ■ CG13 - ■■ R1		13
	190	28	1.4	7.2	★ 2KJ1001 - ■ CG13 - ■■ Q1		13
	204	26	1.9	6.73	2KJ1001 - ■ CG13 - ■■ P1		13
	231	23	2.3	5.92	★ 2KJ1001 - ■ CG13 - ■■ N1		13
	264	20	3.5	5.18	2KJ1001 - ■ CG13 - ■■ M1		13
	299	18	4.4	4.58	★ 2KJ1001 - ■ CG13 - ■■ L1		13
	330	16	3.9	4.15	2KJ1001 - ■ CG13 - ■■ K1		13
	373	14	5.0	3.67	★ 2KJ1001 - ■ CG13 - ■■ J1		13
	414	13	5.1	3.31	2KJ1001 - ■ CG13 - ■■ H1		13
0.75	D.188-Z48-LA80ZMB4E						
	0.27	23 327	0.86	5 107	2KJ1235 - ■ DE13 - ■■ Q1		607
	0.30	21 299	0.94	4 663	★ 2KJ1235 - ■ DE13 - ■■ P1		607
	0.33	19 545	1.0	4 279	2KJ1235 - ■ DE13 - ■■ N1		607
	0.36	18 006	1.1	3 942	★ 2KJ1235 - ■ DE13 - ■■ M1		607
	0.39	16 352	1.2	3 580	2KJ1235 - ■ DE13 - ■■ L1		607
	0.43	14 895	1.3	3 261	★ 2KJ1235 - ■ DE13 - ■■ K1		607
	0.47	13 648	1.5	2 988	2KJ1235 - ■ DE13 - ■■ J1		607
	0.52	12 177	1.6	2 666	★ 2KJ1235 - ■ DE13 - ■■ H1		607
	0.59	10 866	1.8	2 379	2KJ1235 - ■ DE13 - ■■ G1		607
	D.168-Z48-LA80ZMB4E						
	0.38	17 060	0.82	3 735	★ 2KJ1232 - ■ DE13 - ■■ H1		463
	0.42	15 224	0.92	3 333	2KJ1232 - ■ DE13 - ■■ G1		463
	0.50	12 931	1.1	2 831	2KJ1232 - ■ DE13 - ■■ F1		463
	0.59	10 766	1.3	2 357	★ 2KJ1232 - ■ DE13 - ■■ E1		463
	0.60	10 592	1.3	2 319	★ 2KJ1232 - ■ DE13 - ■■ D1		463

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.75	D.168-Z48-LA80ZMB4E						
	0.68	9 455	1.5	2 070	2KJ1232 - ■ DE13 - ■■ C1		463
	0.80	8 030	1.7	1 758	2KJ1232 - ■ DE13 - ■■ B1		463
	D.148-Z48-LA80ZMB4E						
	0.86	7 450	1.1	1 631	2KJ1231 - ■ DE13 - ■■ N1		296
	0.93	6 861	1.2	1 502	2KJ1231 - ■ DE13 - ■■ M1		296
	1.0	6 230	1.3	1 364	2KJ1231 - ■ DE13 - ■■ L1		296
	1.1	5 678	1.4	1 243	2KJ1231 - ■ DE13 - ■■ K1		296
	1.2	5 203	1.5	1 139	2KJ1231 - ■ DE13 - ■■ J1		296
	1.4	4 641	1.7	1 016	2KJ1231 - ■ DE13 - ■■ H1		296
	1.5	4 143	1.9	907	2KJ1231 - ■ DE13 - ■■ G1		296
	D.148-Z38-LA80ZMB4E						
	0.68	9 455	0.85	2 070	2KJ1228 - ■ DE13 - ■■ C1		287
	0.75	8 519	0.94	1 865	2KJ1228 - ■ DE13 - ■■ B1		287
	0.87	7 326	1.1	1 604	2KJ1228 - ■ DE13 - ■■ A1		287
	D.128-Z48-LA80ZMB4E						
	1.1	5 805	0.88	1 271	2KJ1227 - ■ DE13 - ■■ P1		212
	1.2	5 326	0.96	1 166	2KJ1227 - ■ DE13 - ■■ N1		212
	1.3	4 906	1.0	1 074	2KJ1227 - ■ DE13 - ■■ M1		212
	1.4	4 453	1.1	975	2KJ1227 - ■ DE13 - ■■ L1		212
	1.6	4 061	1.3	889	2KJ1227 - ■ DE13 - ■■ K1		212
	1.7	3 718	1.4	814	2KJ1227 - ■ DE13 - ■■ J1		212
	1.9	3 316	1.5	726	2KJ1227 - ■ DE13 - ■■ H1		212
	2.2	2 960	1.7	648	2KJ1227 - ■ DE13 - ■■ G1		212
	D.128-Z38-LA80ZMB4E						
	1.1	5 847	0.87	1 280	★ 2KJ1225 - ■ DE13 - ■■ A1		202
	D.128-LA100LA8						
	2.5	2 825	1.8	268.16	★ 2KJ1207 - ■ FB13 - ■■ U1	P02	221
	2.8	2 590	2.0	245.93	2KJ1207 - ■ FB13 - ■■ T1	P02	221
	D.108-Z38-LA80ZMB4E						
	1.8	3 640	0.85	797	2KJ1223 - ■ DE13 - ■■ H1		131
	D.108-LA100LA8						
	2.4	2 999	1.0	284.73	2KJ1206 - ■ FB13 - ■■ T1	P02	144
	D.108-LA90SB6E						
	2.6	2 782	1.1	359.3	2KJ1206 - ■ ED13 - ■■ V1	P01	133
	2.8	2 518	1.2	325.21	★ 2KJ1206 - ■ ED13 - ■■ U1	P01	133
	3.2	2 205	1.4	284.73	2KJ1206 - ■ ED13 - ■■ T1	P01	133
	3.6	1 989	1.6	256.86	★ 2KJ1206 - ■ ED13 - ■■ S1	P01	133
	D.108-LA80ZMB4E						
	3.9	1 838	1.7	359.3	2KJ1206 - ■ DE13 - ■■ V1		130
	4.3	1 664	1.9	325.21	★ 2KJ1206 - ■ DE13 - ■■ U1		130
	D.88-LA90SB6E						
	3.4	2 098	0.80	270.9	2KJ1205 - ■ ED13 - ■■ U1	P01	85
	3.8	1 892	0.89	244.29	★ 2KJ1205 - ■ ED13 - ■■ T1	P01	85

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.75	D.88-LA90SB6E						
	4.3	1 654	1.0	213.64	2KJ1205 - ■ DE13 - ■■ S1	P01	85
	D.88-LA80ZMB4E						
	4.7	1 537	1.1	300.41	★ 2KJ1205 - ■ DE13 - ■■ V1		82
	5.2	1 386	1.2	270.9	2KJ1205 - ■ DE13 - ■■ U1		82
	5.7	1 250	1.3	244.29	★ 2KJ1205 - ■ DE13 - ■■ T1		82
	6.6	1 093	1.5	213.64	2KJ1205 - ■ DE13 - ■■ S1		82
	7.3	981	1.7	191.8	★ 2KJ1205 - ■ DE13 - ■■ R1		82
	8.0	896	1.9	175.18	2KJ1205 - ■ DE13 - ■■ Q1		82
	9.0	795	2.1	155.46	★ 2KJ1205 - ■ DE13 - ■■ P1		82
	D.68-LA80ZMB4E						
	8.0	891	0.90	174.08	2KJ1204 - ■ DE13 - ■■ Q1		50
	8.9	806	0.99	157.5	★ 2KJ1204 - ■ DE13 - ■■ P1		50
	9.6	744	1.1	145.38	2KJ1204 - ■ DE13 - ■■ N1		50
	11.1	647	1.2	126.41	★ 2KJ1204 - ■ DE13 - ■■ M1		50
	12.2	587	1.4	114.78	2KJ1204 - ■ DE13 - ■■ L1		50
	13.4	536	1.5	104.8	★ 2KJ1204 - ■ DE13 - ■■ K1		50
	14.6	492	1.6	96.16	2KJ1204 - ■ DE13 - ■■ J1		50
	15.8	453	1.8	88.59	★ 2KJ1204 - ■ DE13 - ■■ H1		50
	17.4	412	1.9	80.46	2KJ1204 - ■ DE13 - ■■ G1		50
	19.1	375	2.1	73.3	★ 2KJ1204 - ■ DE13 - ■■ F1		50
	21	343	2.3	67.14	2KJ1204 - ■ DE13 - ■■ E1		50
	Z.68-LA80ZMB4E						
	29	246	2.2	48.09	★ 2KJ1104 - ■ DE13 - ■■ X1		48
	D.48-LA80ZMB4E						
	13.7	524	0.86	102.52	★ 2KJ1203 - ■ DE13 - ■■ L1		31
	15.1	475	0.95	92.91	2KJ1203 - ■ DE13 - ■■ K1		31
	17.1	420	1.1	82.02	★ 2KJ1203 - ■ DE13 - ■■ J1		31
	18.9	379	1.2	73.99	2KJ1203 - ■ DE13 - ■■ H1		31
	21	343	1.3	67.1	★ 2KJ1203 - ■ DE13 - ■■ G1		31
	23	313	1.4	61.14	2KJ1203 - ■ DE13 - ■■ F1		31
	25	286	1.6	55.92	★ 2KJ1203 - ■ DE13 - ■■ E1		31
	28	256	1.8	50	2KJ1203 - ■ DE13 - ■■ D1		31
	Z.48-LA80ZMB4E						
	27	262	1.1	51.28	2KJ1103 - ■ DE13 - ■■ A2		31
	31	232	1.9	45.38	★ 2KJ1103 - ■ DE13 - ■■ X1		31
	34	211	2.1	41.26	2KJ1103 - ■ DE13 - ■■ W1		31
	38	190	2.4	37.06	★ 2KJ1103 - ■ DE13 - ■■ V1		31
	D.38-LA80ZMB4E						
	26	270	0.81	52.86	2KJ1202 - ■ DE13 - ■■ F1		22
	Z.38-LA80ZMB4E						
	32	226	0.97	44.12	★ 2KJ1102 - ■ DE13 - ■■ A2		21
	36	201	1.0	39.24	2KJ1102 - ■ DE13 - ■■ X1		21
	41	174	1.3	34.04	★ 2KJ1102 - ■ DE13 - ■■ W1		21

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.75	Z.38-LA80ZMB4E						
	44	163	1.4	31.8	2KJ1102 - ■ DE13 - ■■ V1		21
	50	143	1.5	27.97	★ 2KJ1102 - ■ DE13 - ■■ U1		21
	57	125	1.8	24.5	2KJ1102 - ■ DE13 - ■■ T1		21
	65	111	2.0	21.67	★ 2KJ1102 - ■ DE13 - ■■ S1		21
	71	100	2.2	19.64	2KJ1102 - ■ DE13 - ■■ R1		21
	81	89	2.5	17.33	★ 2KJ1102 - ■ DE13 - ■■ Q1		21
	90	80	2.7	15.64	2KJ1102 - ■ DE13 - ■■ P1		21
	99	72	3.0	14.18	★ 2KJ1102 - ■ DE13 - ■■ N1		21
	108	66	3.3	12.92	2KJ1102 - ■ DE13 - ■■ M1		21
	118	60	3.6	11.82	★ 2KJ1102 - ■ DE13 - ■■ L1		21
	Z.28-LA80ZMB4E						
	42	172	0.81	33.71	★ 2KJ1101 - ■ DE13 - ■■ X1		14
	46	154	0.91	30.16	2KJ1101 - ■ DE13 - ■■ W1		14
	52	137	1.0	26.77	★ 2KJ1101 - ■ DE13 - ■■ V1		14
	60	120	1.2	23.46	2KJ1101 - ■ DE13 - ■■ U1		14
	68	106	1.3	20.63	★ 2KJ1101 - ■ DE13 - ■■ T1		14
	75	95	1.5	18.63	2KJ1101 - ■ DE13 - ■■ S1		14
	86	83	1.7	16.24	★ 2KJ1101 - ■ DE13 - ■■ R1		14
	96	75	1.9	14.58	2KJ1101 - ■ DE13 - ■■ Q1		14
	106	67	2.1	13.17	★ 2KJ1101 - ■ DE13 - ■■ P1		14
	117	61	2.3	11.94	2KJ1101 - ■ DE13 - ■■ N1		14
	129	56	2.5	10.87	★ 2KJ1101 - ■ DE13 - ■■ M1		14
	146	49	2.8	9.61	2KJ1101 - ■ DE13 - ■■ L1		14
	158	45	3.1	8.87	★ 2KJ1101 - ■ DE13 - ■■ K1		14
	183	39	3.5	7.64	2KJ1101 - ■ DE13 - ■■ J1		14
	202	36	3.7	6.94	★ 2KJ1101 - ■ DE13 - ■■ H1		14
	222	32	2.9	6.31	★ 2KJ1101 - ■ DE13 - ■■ G1		14
	245	29	3.2	5.72	2KJ1101 - ■ DE13 - ■■ F1		14
	269	27	3.5	5.21	★ 2KJ1101 - ■ DE13 - ■■ E1		14
	304	24	3.7	4.6	2KJ1101 - ■ DE13 - ■■ D1		14
	329	22	4.1	4.25	★ 2KJ1101 - ■ DE13 - ■■ C1		14
	383	19	4.3	3.66	2KJ1101 - ■ DE13 - ■■ B1		14
	420	17	4.5	3.33	★ 2KJ1101 - ■ DE13 - ■■ A1		14
	E.68-LA80ZMB4E						
	113	63	1.3	12.4	★ 2KJ1003 - ■ DE13 - ■■ W1		30
	125	57	1.6	11.18	2KJ1003 - ■ DE13 - ■■ V1		30
	139	52	1.8	10.08	★ 2KJ1003 - ■ DE13 - ■■ U1		30
	159	45	3.3	8.82	2KJ1003 - ■ DE13 - ■■ T1		30
	177	40	4.2	7.92	★ 2KJ1003 - ■ DE13 - ■■ S1		30
	194	37	4.1	7.23	2KJ1003 - ■ DE13 - ■■ R1		30
	E.48-LA80ZMB4E						
	124	58	0.95	11.3	2KJ1002 - ■ DE13 - ■■ U1		20
	140	51	1.6	10	★ 2KJ1002 - ■ DE13 - ■■ T1		20

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
0.75	E.48-LA80ZMB4E						
	154	46	1.4	9.09	2KJ1002 - ■ DE13 - ■■ S1		20
	171	42	2.0	8.17 ★	2KJ1002 - ■ DE13 - ■■ R1		20
	200	36	2.7	7	2KJ1002 - ■ DE13 - ■■ Q1		20
	221	32	3.6	6.33 ★	2KJ1002 - ■ DE13 - ■■ P1		20
	239	30	4.0	5.85	2KJ1002 - ■ DE13 - ■■ N1		20
	276	26	4.6	5.08 ★	2KJ1002 - ■ DE13 - ■■ M1		20
	E.38-LA80ZMB4E						
	194	37	1.0	7.2 ★	2KJ1001 - ■ DE13 - ■■ Q1		17
	208	34	1.4	6.73	2KJ1001 - ■ DE13 - ■■ P1		17
	236	30	1.7	5.92 ★	2KJ1001 - ■ DE13 - ■■ N1		17
	270	26	2.6	5.18	2KJ1001 - ■ DE13 - ■■ M1		17
	306	23	3.3	4.58 ★	2KJ1001 - ■ DE13 - ■■ L1		17
	337	21	2.9	4.15	2KJ1001 - ■ DE13 - ■■ K1		17
	381	19	3.7	3.67 ★	2KJ1001 - ■ DE13 - ■■ J1		17
	423	17	3.8	3.31	2KJ1001 - ■ DE13 - ■■ H1		17
	467	15	5.2	3	2KJ1001 - ■ DE13 - ■■ G1		17
	513	14	5.7	2.73	2KJ1001 - ■ DE13 - ■■ F1		17
	560	13	5.7	2.5 ★	2KJ1001 - ■ DE13 - ■■ E1		17
1.1	D.188-Z48-LA90SB4E						
	0.40	23 626	0.85	3 580	2KJ1235 - ■ EM13 - ■■ L1		610
	0.44	21 521	0.93	3 261 ★	2KJ1235 - ■ EM13 - ■■ K1		610
	0.48	19 719	1.0	2 988	2KJ1235 - ■ EM13 - ■■ J1		610
	0.54	17 594	1.1	2 666 ★	2KJ1235 - ■ EM13 - ■■ H1		610
	0.60	15 700	1.3	2 379	2KJ1235 - ■ EM13 - ■■ G1		610
	0.71	13 337	1.5	2 021	2KJ1235 - ■ EM13 - ■■ F1		610
	0.86	11 100	1.8	1 682 ★	2KJ1235 - ■ EM13 - ■■ E1		610
	0.87	10 922	1.8	1 655 ★	2KJ1235 - ■ EM13 - ■■ D1		610
	D.168-Z48-LA90SB4E						
	0.61	15 555	0.90	2 357 ★	2KJ1232 - ■ EM13 - ■■ E1		466
	0.62	15 304	0.91	2 319 ★	2KJ1232 - ■ EM13 - ■■ D1		466
	0.70	13 661	1.0	2 070	2KJ1232 - ■ EM13 - ■■ C1		466
	0.82	11 602	1.2	1 758	2KJ1232 - ■ EM13 - ■■ B1		466
	0.98	9 655	1.5	1 463 ★	2KJ1232 - ■ EM13 - ■■ A1		466
	D.168-Z68-LA90SB4E						
	0.99	9 642	1.5	1 461	2KJ1233 - ■ EM13 - ■■ J1		483
	1.2	8 091	1.7	1 226	2KJ1233 - ■ EM13 - ■■ H1		483
	1.4	6 903	2.0	1 046	2KJ1233 - ■ EM13 - ■■ G1		483
	D.148-Z48-LA90SB4E						
	0.96	9 912	0.81	1 502	2KJ1231 - ■ EM13 - ■■ M1		299
	1.1	9 002	0.89	1 364	2KJ1231 - ■ EM13 - ■■ L1		299
	1.2	8 203	0.98	1 243	2KJ1231 - ■ EM13 - ■■ K1		299
	1.3	7 517	1.1	1 139	2KJ1231 - ■ EM13 - ■■ J1		299
	1.4	6 705	1.2	1 016	2KJ1231 - ■ EM13 - ■■ H1		299

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
1.1	D.148-Z48-LA90SB4E						
	1.6	5 986	1.3	907	2KJ1231 - ■ EM13 - ■■ G1		299
	1.9	5 082	1.6	770	2KJ1231 - ■ EM13 - ■■ F1		299
	D.148-LA100L8						
	2.0	5 192	1.5	336.11	2KJ1208 - ■ FL13 - ■■ W1	P02	311
	2.3	4 655	1.7	301.34 ★	2KJ1208 - ■ FL13 - ■■ V1	P02	311
	2.5	4 267	1.9	276.23	2KJ1208 - ■ FL13 - ■■ U1	P02	311
	2.7	3 935	2.0	254.7 ★	2KJ1208 - ■ FL13 - ■■ T1	P02	311
	D.128-Z48-LA90SB4E						
	1.6	5 867	0.87	889	2KJ1227 - ■ EM13 - ■■ K1		215
	1.8	5 372	0.95	814	2KJ1227 - ■ EM13 - ■■ J1		215
	2.0	4 791	1.1	726	2KJ1227 - ■ EM13 - ■■ H1		215
	2.2	4 276	1.2	648	2KJ1227 - ■ EM13 - ■■ G1		215
	D.128-LA100L8						
	2.5	4 143	1.2	268.16 ★	2KJ1207 - ■ FL13 - ■■ U1	P02	221
	2.8	3 799	1.3	245.93	2KJ1207 - ■ FL13 - ■■ T1	P02	221
	3.1	3 394	1.5	219.72 ★	2KJ1207 - ■ FL13 - ■■ S1	P02	221
	D.128-LA90ZLD6E						
	3.5	2 997	1.7	268.16 ★	2KJ1207 - ■ EQ13 - ■■ U1	P01	213
	3.8	2 748	1.9	245.93	2KJ1207 - ■ EQ13 - ■■ T1	P01	213
	D.108-LA90ZLD6E						
	2.9	3 634	0.85	325.21 ★	2KJ1206 - ■ EQ13 - ■■ U1	P01	136
	3.3	3 182	0.97	284.73	2KJ1206 - ■ EQ13 - ■■ T1	P01	136
	3.7	2 871	1.1	256.86 ★	2KJ1206 - ■ EQ13 - ■■ S1	P01	136
	D.108-LA90SB4E						
	4.0	2 621	1.2	359.3	2KJ1206 - ■ EM13 - ■■ V1		133
	4.4	2 372	1.3	325.21 ★	2KJ1206 - ■ EM13 - ■■ U1		133
	5.1	2 077	1.5	284.73	2KJ1206 - ■ EM13 - ■■ T1		133
	5.6	1 874	1.7	256.86 ★	2KJ1206 - ■ EM13 - ■■ S1		133
	6.1	1 716	1.8	235.19	2KJ1206 - ■ EM13 - ■■ R1		133
	6.9	1 526	2.0	209.21 ★	2KJ1206 - ■ EM13 - ■■ Q1		133
	D.88-LA90SB4E						
	5.3	1 976	0.85	270.9	2KJ1205 - ■ EM13 - ■■ U1		85
	5.9	1 782	0.94	244.29 ★	2KJ1205 - ■ EM13 - ■■ T1		85
	6.7	1 559	1.1	213.64	2KJ1205 - ■ EM13 - ■■ S1		85
	7.5	1 399	1.2	191.8 ★	2KJ1205 - ■ EM13 - ■■ R1		85
	8.2	1 278	1.3	175.18	2KJ1205 - ■ EM13 - ■■ Q1		85
	9.3	1 134	1.5	155.46 ★	2KJ1205 - ■ EM13 - ■■ P1		85
	10.0	1 047	1.6	143.5	2KJ1205 - ■ EM13 - ■■ N1		85
	11.1	947	1.8	129.79 ★	2KJ1205 - ■ EM13 - ■■ M1		85
	12.0	872	1.9	119.52	2KJ1205 - ■ EM13 - ■■ L1		85
	13.0	806	2.1	110.54 ★	2KJ1205 - ■ EM13 - ■■ K1		85
	14.0	749	2.2	102.61	2KJ1205 - ■ EM13 - ■■ J1		85

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
2	1.1 D.68-LA90SB4E						
	11.4	922	0.87	126.41	★ 2KJ1204 - ■ EM13 - ■■ M1		53
	12.5	837	0.96	114.78	2KJ1204 - ■ EM13 - ■■ L1		53
	13.7	765	1.0	104.8	★ 2KJ1204 - ■ EM13 - ■■ K1		53
	15	702	1.1	96.16	2KJ1204 - ■ EM13 - ■■ J1		53
	16.3	646	1.2	88.59	★ 2KJ1204 - ■ EM13 - ■■ H1		53
	17.9	587	1.4	80.46	2KJ1204 - ■ EM13 - ■■ G1		53
	19.6	535	1.5	73.3	★ 2KJ1204 - ■ EM13 - ■■ F1		53
	21	490	1.6	67.14	2KJ1204 - ■ EM13 - ■■ E1		53
	24	437	1.8	59.91	★ 2KJ1204 - ■ EM13 - ■■ D1		53
	27	390	2.1	53.47	2KJ1204 - ■ EM13 - ■■ C1		53
	Z.68-LA90SB4E						
	30	351	1.5	48.09	★ 2KJ1104 - ■ EM13 - ■■ X1		51
	34	307	2.6	42.06	2KJ1104 - ■ EM13 - ■■ W1		51
	D.48-LA90SB4E						
	19.5	540	0.83	73.99	2KJ1203 - ■ EM13 - ■■ H1		34
	22	490	0.92	67.1	★ 2KJ1203 - ■ EM13 - ■■ G1		34
	24	446	1.0	61.14	2KJ1203 - ■ EM13 - ■■ F1		34
	26	408	1.1	55.92	★ 2KJ1203 - ■ EM13 - ■■ E1		34
	29	365	1.2	50	2KJ1203 - ■ EM13 - ■■ D1		34
	Z.48-LA90SB4E						
	32	331	1.4	45.38	★ 2KJ1103 - ■ EM13 - ■■ X1		34
	35	301	1.5	41.26	2KJ1103 - ■ EM13 - ■■ W1		34
	39	270	1.7	37.06	★ 2KJ1103 - ■ EM13 - ■■ V1		34
	45	232	1.9	31.77	2KJ1103 - ■ EM13 - ■■ U1		34
	50	210	2.1	28.74	★ 2KJ1103 - ■ EM13 - ■■ T1		34
	54	194	2.3	26.53	2KJ1103 - ■ EM13 - ■■ S1		34
	62	168	2.7	23.07	★ 2KJ1103 - ■ EM13 - ■■ R1		34
	69	153	2.9	20.95	2KJ1103 - ■ EM13 - ■■ Q1		34
	75	140	3.2	19.13	★ 2KJ1103 - ■ EM13 - ■■ P1		34
	Z.38-LA90SB4E						
	42	248	0.89	34.04	★ 2KJ1102 - ■ EM13 - ■■ W1		24
	45	232	0.95	31.8	2KJ1102 - ■ EM13 - ■■ V1		24
	52	204	1.1	27.97	★ 2KJ1102 - ■ EM13 - ■■ U1		24
	59	179	1.2	24.5	2KJ1102 - ■ EM13 - ■■ T1		24
	66	158	1.4	21.67	★ 2KJ1102 - ■ EM13 - ■■ S1		24
	73	143	1.5	19.64	2KJ1102 - ■ EM13 - ■■ R1		24
	83	126	1.7	17.33	★ 2KJ1102 - ■ EM13 - ■■ Q1		24
	92	114	1.9	15.64	2KJ1102 - ■ EM13 - ■■ P1		24
	102	103	2.1	14.18	★ 2KJ1102 - ■ EM13 - ■■ N1		24
	111	94	2.3	12.92	2KJ1102 - ■ EM13 - ■■ M1		24
	122	86	2.6	11.82	★ 2KJ1102 - ■ EM13 - ■■ L1		24
	136	77	2.7	10.57	2KJ1102 - ■ EM13 - ■■ K1		24
	148	71	2.8	9.7	★ 2KJ1102 - ■ EM13 - ■■ J1		24

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
1.1	Z.38-LA90SB4E						
	165	64	3.1	8.75	2KJ1102 - ■EM13 - ■■H1		24
	191	55	3.5	7.52	★ 2KJ1102 - ■EM13 - ■■G1		24
	192	55	3.4	7.5	★ 2KJ1102 - ■EM13 - ■■F1		24
	215	49	3.7	6.71	2KJ1102 - ■EM13 - ■■D1		24
	234	45	3.8	6.16	★ 2KJ1102 - ■EM13 - ■■C1		24
	259	40	4.1	5.55	2KJ1102 - ■EM13 - ■■B1		24
	302	35	4.6	4.77	★ 2KJ1102 - ■EM13 - ■■A1		24
	Z.38-LA80ZMB2E						
	165	64	3.5	17.33	★ 2KJ1102 - ■DN13 - ■■Q1	P00	21
	183	57	3.8	15.64	2KJ1102 - ■DN13 - ■■P1	P00	21
	202	52	4.2	14.18	★ 2KJ1102 - ■DN13 - ■■N1	P00	21
	Z.28-LA90SB4E						
	61	171	0.82	23.46	2KJ1101 - ■EM13 - ■■U1		17
	70	150	0.93	20.63	★ 2KJ1101 - ■EM13 - ■■T1		17
	77	136	1.0	18.63	2KJ1101 - ■EM13 - ■■S1		17
	89	118	1.2	16.24	★ 2KJ1101 - ■EM13 - ■■R1		17
	99	106	1.3	14.58	2KJ1101 - ■EM13 - ■■Q1		17
	109	96	1.5	13.17	★ 2KJ1101 - ■EM13 - ■■P1		17
	121	87	1.6	11.94	2KJ1101 - ■EM13 - ■■N1		17
	132	79	1.8	10.87	★ 2KJ1101 - ■EM13 - ■■M1		17
	150	70	2.0	9.61	2KJ1101 - ■EM13 - ■■L1		17
	162	65	2.2	8.87	★ 2KJ1101 - ■EM13 - ■■K1		17
	188	56	2.4	7.64	2KJ1101 - ■EM13 - ■■J1		17
	207	51	2.6	6.94	★ 2KJ1101 - ■EM13 - ■■H1		17
	228	46	2.1	6.31	★ 2KJ1101 - ■EM13 - ■■G1		17
	252	42	2.2	5.72	2KJ1101 - ■EM13 - ■■F1		17
	276	38	2.4	5.21	★ 2KJ1101 - ■EM13 - ■■E1		17
	313	34	2.6	4.6	2KJ1101 - ■EM13 - ■■D1		17
	339	31	2.9	4.25	★ 2KJ1101 - ■EM13 - ■■C1		17
	393	27	3.0	3.66	2KJ1101 - ■EM13 - ■■B1		17
	432	24	3.2	3.33	★ 2KJ1101 - ■EM13 - ■■A1		17
	E.88-LA90SB4E						
	139	75	3.1	10.33	★ 2KJ1004 - ■EM13 - ■■S1		50
	152	69	3.0	9.46	2KJ1004 - ■EM13 - ■■R1		50
	171	61	4.0	8.42	★ 2KJ1004 - ■EM13 - ■■Q1		50
	E.68-LA90SB4E						
	116	90	0.9	12.4	★ 2KJ1003 - ■EM13 - ■■W1		33
	129	82	1.1	11.18	2KJ1003 - ■EM13 - ■■V1		33
	143	74	1.3	10.08	★ 2KJ1003 - ■EM13 - ■■U1		33
	163	64	2.3	8.82	2KJ1003 - ■EM13 - ■■T1		33
	182	58	2.9	7.92	★ 2KJ1003 - ■EM13 - ■■S1		33
	199	53	2.8	7.23	2KJ1003 - ■EM13 - ■■R1		33
	224	47	3.6	6.42	★ 2KJ1003 - ■EM13 - ■■P1		33

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
1.1	E.68-LA90SB4E						
	243	43	4.4	5.92	2KJ1003 - ■EM13 - ■■N1		33
	E.48-LA90SB4E						
	144	73	1.1	10	★ 2KJ1002 - ■EM13 - ■■T1		23
	158	66	0.97	9.09	2KJ1002 - ■EM13 - ■■S1		23
	176	60	1.4	8.17	★ 2KJ1002 - ■EM13 - ■■R1		23
	206	51	1.9	7	2KJ1002 - ■EM13 - ■■Q1		23
	227	46	2.5	6.33	★ 2KJ1002 - ■EM13 - ■■P1		23
	246	43	2.8	5.85	2KJ1002 - ■EM13 - ■■N1		23
	283	37	3.2	5.08	★ 2KJ1002 - ■EM13 - ■■M1		23
	312	34	3.9	4.62	2KJ1002 - ■EM13 - ■■L1		23
	342	31	4.9	4.21	★ 2KJ1002 - ■EM13 - ■■K1		23
	404	26	5.4	3.56	★ 2KJ1002 - ■EM13 - ■■H1		23
	E.38-LA90SB4E						
	214	49	0.98	6.73	2KJ1001 - ■EM13 - ■■P1		20
	243	43	1.2	5.92	★ 2KJ1001 - ■EM13 - ■■N1		20
	278	38	1.9	5.18	2KJ1001 - ■EM13 - ■■M1		20
	314	33	2.3	4.58	★ 2KJ1001 - ■EM13 - ■■L1		20
	347	30	2.0	4.15	2KJ1001 - ■EM13 - ■■K1		20
	392	27	2.6	3.67	★ 2KJ1001 - ■EM13 - ■■J1		20
	435	24	2.7	3.31	2KJ1001 - ■EM13 - ■■H1		20
	480	22	3.7	3	★ 2KJ1001 - ■EM13 - ■■G1		20
	527	20	4.0	2.73	2KJ1001 - ■EM13 - ■■F1		20
	576	18	4.0	2.5	★ 2KJ1001 - ■EM13 - ■■E1		20
	643	16	4.4	2.24	2KJ1001 - ■EM13 - ■■D1		20
	702	15	5.3	2.05	★ 2KJ1001 - ■EM13 - ■■C1		20
	778	14	6.1	1.85	2KJ1001 - ■EM13 - ■■B1		20
	906	12	6.2	1.59	★ 2KJ1001 - ■EM13 - ■■A1		20
1.5	D.188-Z68-LA90ZLB4E						
	1.2	11 342	1.8	1 251	2KJ1237 - ■EQ13 - ■■J1		630
	D.188-Z48-LA90ZLB4E						
	0.54	24 171	0.83	2 666	★ 2KJ1235 - ■EQ13 - ■■H1		613
	0.60	21 569	0.93	2 379	2KJ1235 - ■EQ13 - ■■G1		613
	0.71	18 323	1.1	2 021	2KJ1235 - ■EQ13 - ■■F1		613
	0.86	15 250	1.3	1 682	★ 2KJ1235 - ■EQ13 - ■■E1		613
	0.87	15 005	1.3	1 655	★ 2KJ1235 - ■EQ13 - ■■D1		613
	0.98	13 391	1.5	1 477	2KJ1235 - ■EQ13 - ■■C1		613
	1.1	11 378	1.8	1 255	2KJ1235 - ■EQ13 - ■■B1		613
	D.168-Z48-LA90ZLB4E						
	0.82	15 939	0.88	1 758	2KJ1232 - ■EQ13 - ■■B1		469
	0.98	13 264	1.1	1 463	★ 2KJ1232 - ■EQ13 - ■■A1		469
	D.168-Z68-LA90ZLB4E						
	0.99	13 246	1.1	1 461	2KJ1233 - ■EQ13 - ■■J1		486
	1.2	11 116	1.3	1 226	2KJ1233 - ■EQ13 - ■■H1		486

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
1.5	D.168-Z68-LA90ZLB4E						
	1.4	9 484	1.5	1 046	2KJ1233 - ■EQ13 - ■■G1		486
	D.148-Z48-LA90ZLB4E						
	1.4	9 212	0.87	1 016	2KJ1231 - ■EQ13 - ■■H1		302
	1.6	8 223	0.97	907	2KJ1231 - ■EQ13 - ■■G1		302
	1.9	6 981	1.1	770	2KJ1231 - ■EQ13 - ■■F1		302
	D.148-LA112M8						
	2.1	6 829	1.2	336.11	2KJ1208 - ■GG13 - ■■W1	P02	318
	2.3	6 123	1.3	301.34	★ 2KJ1208 - ■GG13 - ■■V1	P02	318
	2.6	5 613	1.4	276.23	2KJ1208 - ■GG13 - ■■U1	P02	318
	D.148-LA100ZLP6E						
	2.8	5 149	1.6	336.11	2KJ1208 - ■FM13 - ■■W1	P01	311
	3.1	4 617	1.7	301.34	★ 2KJ1208 - ■FM13 - ■■V1	P01	311
	3.4	4 232	1.9	276.23	2KJ1208 - ■FM13 - ■■U1	P01	311
	D.128-Z48-LA90ZLB4E						
	2.2	5 875	0.87	648	2KJ1227 - ■EQ13 - ■■G1		218
	D.128-LA112M8						
	2.6	5 449	0.94	268.16	★ 2KJ1207 - ■GG13 - ■■U1	P02	228
	2.9	4 997	1.0	245.93	2KJ1207 - ■GG13 - ■■T1	P02	228
	3.2	4 465	1.1	219.72	★ 2KJ1207 - ■GG13 - ■■S1	P02	228
	D.128-LA100ZLP6E						
	3.5	4 108	1.2	268.16	★ 2KJ1207 - ■FM13 - ■■U1	P01	221
	3.8	3 768	1.4	245.93	2KJ1207 - ■FM13 - ■■T1	P01	221
	4.3	3 366	1.5	219.72	★ 2KJ1207 - ■FM13 - ■■S1	P01	221
	4.6	3 083	1.7	201.22	2KJ1207 - ■FM13 - ■■R1	P01	221
	5.0	2 840	1.8	185.36	★ 2KJ1207 - ■FM13 - ■■Q1	P01	221
	D.128-LA90ZLB4E						
	5.4	2 668	1.9	268.16	★ 2KJ1207 - ■EQ13 - ■■U1		213
	5.9	2 446	2.1	245.93	2KJ1207 - ■EQ13 - ■■T1		213
	D.108-LA90ZLB4E						
	4.0	3 574	0.87	359.3	2KJ1206 - ■EQ13 - ■■V1		136
	4.4	3 235	0.96	325.21	★ 2KJ1206 - ■EQ13 - ■■U1		136
	5.1	2 832	1.1	284.73	2KJ1206 - ■EQ13 - ■■T1		136
	5.6	2 555	1.2	256.86	★ 2KJ1206 - ■EQ13 - ■■S1		136
	6.1	2 340	1.3	235.19	2KJ1206 - ■EQ13 - ■■R1		136
	6.9	2 081	1.5	209.21	★ 2KJ1206 - ■EQ13 - ■■Q1		136
	7.5	1 902	1.6	191.21	2KJ1206 - ■EQ13 - ■■P1		136
	8.2	1 749	1.8	175.78	★ 2KJ1206 - ■EQ13 - ■■N1		136
	8.9	1 616	1.9	162.4	2KJ1206 - ■EQ13 - ■■M1		136
	9.6	1 499	2.1	150.7	★ 2KJ1206 - ■EQ13 - ■■L1		136
	10.3	1 396	2.2	140.37	2KJ1206 - ■EQ13 - ■■K1		136
	D.88-LA90ZLB4E						
	7.5	1 908	0.88	191.8	★ 2KJ1205 - ■EQ13 - ■■R1		88
	8.2	1 743	0.96	175.18	2KJ1205 - ■EQ13 - ■■Q1		88

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
1.5	D.88-LA90ZLB4E						
	9.3	1 547	1.1	155.46	★ 2KJ1205 - ■EQ13 - ■■P1		88
	10.0	1 428	1.2	143.5	2KJ1205 - ■EQ13 - ■■N1		88
	11.1	1 291	1.3	129.79	★ 2KJ1205 - ■EQ13 - ■■M1		88
	12.0	1 189	1.4	119.52	2KJ1205 - ■EQ13 - ■■L1		88
	13.0	1 100	1.5	110.54	★ 2KJ1205 - ■EQ13 - ■■K1		88
	14.0	1 021	1.6	102.61	2KJ1205 - ■EQ13 - ■■J1		88
	15.9	901	1.9	90.53	★ 2KJ1205 - ■EQ13 - ■■H1		88
	17.2	831	2.0	83.58	2KJ1205 - ■EQ13 - ■■G1		88
	19.2	745	2.3	74.88	★ 2KJ1205 - ■EQ13 - ■■F1		88
	21	687	2.4	69.05	2KJ1205 - ■EQ13 - ■■E1		88
	D.68-LA90ZLB4E						
	15.0	957	0.84	96.16	2KJ1204 - ■EQ13 - ■■J1		56
	16.3	881	0.91	88.59	★ 2KJ1204 - ■EQ13 - ■■H1		56
	17.9	800	1.0	80.46	2KJ1204 - ■EQ13 - ■■G1		56
	19.6	729	1.1	73.3	★ 2KJ1204 - ■EQ13 - ■■F1		56
	21	668	1.2	67.14	2KJ1204 - ■EQ13 - ■■E1		56
	24	596	1.3	59.91	★ 2KJ1204 - ■EQ13 - ■■D1		56
	27	532	1.5	53.47	2KJ1204 - ■EQ13 - ■■C1		56
	Z.68-LA90ZLB4E						
	30	478	1.1	48.09	★ 2KJ1104 - ■EQ13 - ■■X1		54
	34	418	1.9	42.06	2KJ1104 - ■EQ13 - ■■W1		54
	38	376	2.1	37.76	★ 2KJ1104 - ■EQ13 - ■■V1		54
	42	343	2.3	34.49	2KJ1104 - ■EQ13 - ■■U1		54
	47	304	2.6	30.6	★ 2KJ1104 - ■EQ13 - ■■T1		54
	51	281	2.8	28.25	2KJ1104 - ■EQ13 - ■■S1		54
	D.48-LA90ZLB4E						
	26	556	0.81	55.92	★ 2KJ1203 - ■EQ13 - ■■E1		37
	29	497	0.90	50	2KJ1203 - ■EQ13 - ■■D1		37
	Z.48-LA90ZLB4E						
	32	451	1.0	45.38	★ 2KJ1103 - ■EQ13 - ■■X1		37
	35	410	1.1	41.26	2KJ1103 - ■EQ13 - ■■W1		37
	39	369	1.2	37.06	★ 2KJ1103 - ■EQ13 - ■■V1		37
	45	316	1.4	31.77	2KJ1103 - ■EQ13 - ■■U1		37
	50	286	1.6	28.74	★ 2KJ1103 - ■EQ13 - ■■T1		37
	54	264	1.7	26.53	2KJ1103 - ■EQ13 - ■■S1		37
	62	229	2.0	23.07	★ 2KJ1103 - ■EQ13 - ■■R1		37
	69	208	2.2	20.95	2KJ1103 - ■EQ13 - ■■Q1		37
	75	190	2.4	19.13	★ 2KJ1103 - ■EQ13 - ■■P1		37
	82	175	2.6	17.55	2KJ1103 - ■EQ13 - ■■N1		37
	89	161	2.7	16.17	★ 2KJ1103 - ■EQ13 - ■■M1		37
	98	146	2.9	14.68	2KJ1103 - ■EQ13 - ■■L1		37
	108	133	3.1	13.38	★ 2KJ1103 - ■EQ13 - ■■K1		37
	118	122	3.3	12.25	2KJ1103 - ■EQ13 - ■■J1		37

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
1.5	Z.48-LA90ZLB4E						
	132	109	3.6	10.93	★ 2KJ1103 - ■EQ13 - ■■H1		37
	148	97	3.9	9.76	2KJ1103 - ■EQ13 - ■■G1		37
	212	68	4.0	6.79	★ 2KJ1103 - ■EQ13 - ■■D1		37
	238	60	4.5	6.06	2KJ1103 - ■EQ13 - ■■C1		37
	Z.38-LA90ZLB4E						
	59	244	0.9	24.5	2KJ1102 - ■EQ13 - ■■T1		27
	66	216	1.0	21.67	★ 2KJ1102 - ■EQ13 - ■■S1		27
	73	195	1.1	19.64	2KJ1102 - ■EQ13 - ■■R1		27
	83	172	1.3	17.33	★ 2KJ1102 - ■EQ13 - ■■Q1		27
	92	156	1.4	15.64	2KJ1102 - ■EQ13 - ■■P1		27
	102	141	1.6	14.18	★ 2KJ1102 - ■EQ13 - ■■N1		27
	111	129	1.7	12.92	2KJ1102 - ■EQ13 - ■■M1		27
	122	118	1.9	11.82	★ 2KJ1102 - ■EQ13 - ■■L1		27
	136	105	2.0	10.57	2KJ1102 - ■EQ13 - ■■K1		27
	148	96	2.1	9.7	★ 2KJ1102 - ■EQ13 - ■■J1		27
	165	87	2.2	8.75	2KJ1102 - ■EQ13 - ■■H1		27
	191	75	2.5	7.52	★ 2KJ1102 - ■EQ13 - ■■G1		27
	192	75	2.5	7.5	★ 2KJ1102 - ■EQ13 - ■■F1		27
	215	67	2.7	6.71	2KJ1102 - ■EQ13 - ■■D1		27
	234	61	2.8	6.16	★ 2KJ1102 - ■EQ13 - ■■C1		27
	259	55	3.0	5.55	2KJ1102 - ■EQ13 - ■■B1		27
	302	48	3.4	4.77	★ 2KJ1102 - ■EQ13 - ■■A1		27
	Z.38-LA90SB2E						
	167	86	2.6	17.33	★ 2KJ1102 - ■EM13 - ■■Q1	P00	24
	185	78	2.8	15.64	2KJ1102 - ■EM13 - ■■P1	P00	24
	204	70	3.1	14.18	★ 2KJ1102 - ■EM13 - ■■N1	P00	24
	224	64	3.4	12.92	2KJ1102 - ■EM13 - ■■M1	P00	24
	245	59	3.8	11.82	★ 2KJ1102 - ■EM13 - ■■L1	P00	24
	273	52	4.0	10.57	2KJ1102 - ■EM13 - ■■K1	P00	24
	298	48	4.2	9.7	★ 2KJ1102 - ■EM13 - ■■J1	P00	24
	330	43	4.5	8.75	2KJ1102 - ■EM13 - ■■H1	P00	24
	384	37	5.1	7.52	★ 2KJ1102 - ■EM13 - ■■G1	P00	24
	385	37	5.0	7.5	★ 2KJ1102 - ■EM13 - ■■F1	P00	24
	431	33	5.4	6.71	2KJ1102 - ■EM13 - ■■D1	P00	24
	469	30	5.6	6.16	★ 2KJ1102 - ■EM13 - ■■C1	P00	24
	Z.28-LA90ZLB4E						
	89	162	0.87	16.24	★ 2KJ1101 - ■EQ13 - ■■R1		20
	99	145	0.97	14.58	2KJ1101 - ■EQ13 - ■■Q1		20
	109	131	1.1	13.17	★ 2KJ1101 - ■EQ13 - ■■P1		20
	121	119	1.2	11.94	2KJ1101 - ■EQ13 - ■■N1		20
	132	108	1.3	10.87	★ 2KJ1101 - ■EQ13 - ■■M1		20
	150	96	1.5	9.61	2KJ1101 - ■EQ13 - ■■L1		20
	162	88	1.6	8.87	★ 2KJ1101 - ■EQ13 - ■■K1		20

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
1.5	Z.28-LA90ZLB4E						
	188	76	1.8	7.64	2KJ1101 - ■EQ13 - ■■J1		20
	207	69	1.9	6.94	★ 2KJ1101 - ■EQ13 - ■■H1		20
	228	63	1.5	6.31	★ 2KJ1101 - ■EQ13 - ■■G1		20
	252	57	1.6	5.72	2KJ1101 - ■EQ13 - ■■F1		20
	276	52	1.8	5.21	★ 2KJ1101 - ■EQ13 - ■■E1		20
	313	46	1.9	4.6	2KJ1101 - ■EQ13 - ■■D1		20
	339	42	2.1	4.25	★ 2KJ1101 - ■EQ13 - ■■C1		20
	393	36	2.2	3.66	2KJ1101 - ■EQ13 - ■■B1		20
	432	33	2.3	3.33	★ 2KJ1101 - ■EQ13 - ■■A1		20
	E.88-LA90ZLB4E						
	139	103	2.2	10.33	★ 2KJ1004 - ■EQ13 - ■■S1		53
	152	94	2.2	9.46	2KJ1004 - ■EQ13 - ■■R1		53
	171	84	2.9	8.42	★ 2KJ1004 - ■EQ13 - ■■Q1		53
	187	76	3.2	7.69	2KJ1004 - ■EQ13 - ■■P1		53
	204	70	4.1	7.07	★ 2KJ1004 - ■EQ13 - ■■N1		53
	238	60	4.6	6.06	★ 2KJ1004 - ■EQ13 - ■■L1		53
	E.68-LA90ZLB4E						
	129	111	0.83	11.18	2KJ1003 - ■EQ13 - ■■V1		36
	143	100	0.95	10.08	★ 2KJ1003 - ■EQ13 - ■■U1		36
	163	88	1.7	8.82	2KJ1003 - ■EQ13 - ■■T1		36
	182	79	2.2	7.92	★ 2KJ1003 - ■EQ13 - ■■S1		36
	199	72	2.1	7.23	2KJ1003 - ■EQ13 - ■■R1		36
	224	64	2.7	6.42	★ 2KJ1003 - ■EQ13 - ■■P1		36
	243	59	3.2	5.92	2KJ1003 - ■EQ13 - ■■N1		36
	269	53	4.1	5.36	★ 2KJ1003 - ■EQ13 - ■■M1		36
	292	49	4.6	4.93	2KJ1003 - ■EQ13 - ■■L1		36
	316	45	4.8	4.56	★ 2KJ1003 - ■EQ13 - ■■K1		36
	E.48-LA90ZLB4E						
	144	100	0.8	10	★ 2KJ1002 - ■EQ13 - ■■T1		26
	176	81	1.0	8.17	★ 2KJ1002 - ■EQ13 - ■■R1		26
	206	70	1.4	7	2KJ1002 - ■EQ13 - ■■Q1		26
	227	63	1.8	6.33	★ 2KJ1002 - ■EQ13 - ■■P1		26
	246	58	2.1	5.85	2KJ1002 - ■EQ13 - ■■N1		26
	283	50	2.4	5.08	★ 2KJ1002 - ■EQ13 - ■■M1		26
	312	46	2.8	4.62	2KJ1002 - ■EQ13 - ■■L1		26
	342	42	3.6	4.21	★ 2KJ1002 - ■EQ13 - ■■K1		26
	372	38	4.2	3.87	2KJ1002 - ■EQ13 - ■■J1		26
	404	35	4.0	3.56	★ 2KJ1002 - ■EQ13 - ■■H1		26
	444	32	4.7	3.24	2KJ1002 - ■EQ13 - ■■G1		26
	E.38-LA90ZLB4E						
	243	59	0.9	5.92	★ 2KJ1001 - ■EQ13 - ■■N1		23
	278	52	1.4	5.18	2KJ1001 - ■EQ13 - ■■M1		23

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
1.5	E.38-LA90ZLB4E						
	314	46	1.7	4.58	★ 2KJ1001 - ■EQ13 - ■■L1		23
	347	41	1.5	4.15	2KJ1001 - ■EQ13 - ■■K1		23
	392	36	1.9	3.67	★ 2KJ1001 - ■EQ13 - ■■J1		23
	435	33	2.0	3.31	2KJ1001 - ■EQ13 - ■■H1		23
	480	30	2.7	3	★ 2KJ1001 - ■EQ13 - ■■G1		23
	527	27	2.9	2.73	2KJ1001 - ■EQ13 - ■■F1		23
	576	25	2.9	2.5	★ 2KJ1001 - ■EQ13 - ■■E1		23
	643	22	3.2	2.24	2KJ1001 - ■EQ13 - ■■D1		23
	702	20	3.9	2.05	★ 2KJ1001 - ■EQ13 - ■■C1		23
	778	18	4.5	1.85	2KJ1001 - ■EQ13 - ■■B1		23
	906	16	4.6	1.59	★ 2KJ1001 - ■EQ13 - ■■A1		23
2.2	D.188-Z48-LA100ZLP4E						
	0.85	22 590	0.89	1 682	★ 2KJ1235 - ■FM13 - ■■E1		621
	0.87	22 228	0.9	1 655	★ 2KJ1235 - ■FM13 - ■■D1		621
	0.97	19 837	1.0	1 477	2KJ1235 - ■FM13 - ■■C1		621
	1.1	16 855	1.2	1 255	2KJ1235 - ■FM13 - ■■B1		621
	1.4	14 022	1.4	1 044	★ 2KJ1235 - ■FM13 - ■■A1		621
	D.188-Z68-LA100ZLP4E						
	1.1	16 802	1.2	1 251	2KJ1237 - ■FM13 - ■■J1		638
	1.4	14 102	1.4	1 050	2KJ1237 - ■FM13 - ■■H1		638
	1.6	12 034	1.7	896	★ 2KJ1237 - ■FM13 - ■■G1		638
	1.9	10 019	2.0	746	2KJ1237 - ■FM13 - ■■F1		638
	D.168-Z68-LA100ZLP4E						
	1.2	16 466	0.85	1 226	2KJ1233 - ■FM13 - ■■H1		494
	1.4	14 048	1.0	1 046	2KJ1233 - ■FM13 - ■■G1		494
	1.6	11 698	1.2	871	2KJ1233 - ■FM13 - ■■F1		494
	D.168-LA132S8						
	2.0	10 253	1.4	341.61	★ 2KJ1210 - ■HE13 - ■■U1	P02	499
	2.2	9 407	1.5	313.41	2KJ1210 - ■HE13 - ■■T1	P02	499
	2.4	8 681	1.6	289.23	★ 2KJ1210 - ■HE13 - ■■S1	P02	499
	2.6	8 053	1.7	268.29	2KJ1210 - ■HE13 - ■■R1	P02	499
	D.148-LA132S8						
	2.3	9 045	0.88	301.34	★ 2KJ1208 - ■HE13 - ■■V1	P02	328
	2.5	8 291	0.96	276.23	2KJ1208 - ■HE13 - ■■U1	P02	328
	2.7	7 645	1.0	254.7	★ 2KJ1208 - ■HE13 - ■■T1	P02	328
	D.148-LA112ZMP6E						
	2.8	7 394	1.1	336.11	2KJ1208 - ■GJ13 - ■■W1	P01	318
	3.2	6 629	1.2	301.34	★ 2KJ1208 - ■GJ13 - ■■V1	P01	318
	3.5	6 077	1.3	276.23	2KJ1208 - ■GJ13 - ■■U1	P01	318
	3.7	5 603	1.4	254.7	★ 2KJ1208 - ■GJ13 - ■■T1	P01	318
	4.0	5 193	1.5	236.05	2KJ1208 - ■GJ13 - ■■S1	P01	318

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
2.2	D.148-LA100ZLP4E						
	4.3	4 921	1.6	336.11	2KJ1208 - ■ FM13 - ■■ W1		311
	4.8	4 412	1.8	301.34	★ 2KJ1208 - ■ FM13 - ■■ V1		311
	5.2	4 044	2.0	276.23	2KJ1208 - ■ FM13 - ■■ U1		311
	5.6	3 729	2.1	254.7	★ 2KJ1208 - ■ FM13 - ■■ T1		311
	D.128-LA112ZMP6E						
	3.6	5 900	0.86	268.16	★ 2KJ1207 - ■ GJ13 - ■■ U1	P01	228
	3.9	5 410	0.94	245.93	2KJ1207 - ■ GJ13 - ■■ T1	P01	228
	4.3	4 834	1.1	219.72	★ 2KJ1207 - ■ GJ13 - ■■ S1	P01	228
	4.7	4 427	1.2	201.22	2KJ1207 - ■ GJ13 - ■■ R1	P01	228
	5.2	4 078	1.3	185.36	★ 2KJ1207 - ■ GJ13 - ■■ Q1	P01	228
	D.128-LA100ZLP4E						
	5.4	3 926	1.3	268.16	★ 2KJ1207 - ■ FM13 - ■■ U1		221
	5.8	3 601	1.4	245.93	2KJ1207 - ■ FM13 - ■■ T1		221
	6.5	3 217	1.6	219.72	★ 2KJ1207 - ■ FM13 - ■■ S1		221
	7.1	2 946	1.7	201.22	2KJ1207 - ■ FM13 - ■■ R1		221
	7.7	2 714	1.9	185.36	★ 2KJ1207 - ■ FM13 - ■■ Q1		221
	8.4	2 513	2.0	171.62	2KJ1207 - ■ FM13 - ■■ P1		221
	D.108-LA100ZLP4E						
	5.6	3 761	0.82	256.86	★ 2KJ1206 - ■ FM13 - ■■ S1		144
	6.1	3 443	0.90	235.19	2KJ1206 - ■ FM13 - ■■ R1		144
	6.9	3 063	1.0	209.21	★ 2KJ1206 - ■ FM13 - ■■ Q1		144
	7.5	2 800	1.1	191.21	2KJ1206 - ■ FM13 - ■■ P1		144
	8.2	2 574	1.2	175.78	★ 2KJ1206 - ■ FM13 - ■■ N1		144
	8.8	2 378	1.3	162.4	2KJ1206 - ■ FM13 - ■■ M1		144
	9.5	2 206	1.4	150.7	★ 2KJ1206 - ■ FM13 - ■■ L1		144
	10.2	2 055	1.5	140.37	2KJ1206 - ■ FM13 - ■■ K1		144
	11.3	1 858	1.7	126.9	★ 2KJ1206 - ■ FM13 - ■■ J1		144
	12.3	1 711	1.8	116.83	2KJ1206 - ■ FM13 - ■■ H1		144
	13.7	1 538	2.0	105.08	★ 2KJ1206 - ■ FM13 - ■■ G1		144
	14.8	1 419	2.2	96.94	2KJ1206 - ■ FM13 - ■■ F1		144
	D.88-LA100ZLP4E						
	10.0	2 101	0.80	143.5	2KJ1205 - ■ FM13 - ■■ N1		96
	11.1	1 900	0.88	129.79	★ 2KJ1205 - ■ FM13 - ■■ M1		96
	12.0	1 750	0.96	119.52	2KJ1205 - ■ FM13 - ■■ L1		96
	13.0	1 618	1.0	110.54	★ 2KJ1205 - ■ FM13 - ■■ K1		96
	14.0	1 502	1.1	102.61	2KJ1205 - ■ FM13 - ■■ J1		96
	15.9	1 325	1.3	90.53	★ 2KJ1205 - ■ FM13 - ■■ H1		96
	17.2	1 224	1.4	83.58	2KJ1205 - ■ FM13 - ■■ G1		96
	19.2	1 096	1.5	74.88	★ 2KJ1205 - ■ FM13 - ■■ F1		96
	21	1 011	1.7	69.05	2KJ1205 - ■ FM13 - ■■ E1		96
	25	848	2.0	57.93	2KJ1205 - ■ FM13 - ■■ D1		96

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
2.2	Z.88-LA100ZLP4E						
	28	743	2.0	50.73	2KJ1105 - ■ FM13 - ■■ B2		94
	31	670	2.5	45.76	★ 2KJ1105 - ■ FM13 - ■■ A2		94
	D.68-LA100ZLP4E						
	21	983	0.81	67.14	2KJ1204 - ■ FM13 - ■■ E1		64
	24	877	0.91	59.91	★ 2KJ1204 - ■ FM13 - ■■ D1		64
	27	783	1.0	53.47	2KJ1204 - ■ FM13 - ■■ C1		64
	Z.68-LA100ZLP4E						
	34	616	1.3	42.06	2KJ1104 - ■ FM13 - ■■ W1		62
	38	553	1.4	37.76	★ 2KJ1104 - ■ FM13 - ■■ V1		62
	42	505	1.6	34.49	2KJ1104 - ■ FM13 - ■■ U1		62
	47	448	1.8	30.6	★ 2KJ1104 - ■ FM13 - ■■ T1		62
	51	414	1.9	28.25	2KJ1104 - ■ FM13 - ■■ S1		62
	56	374	2.1	25.55	★ 2KJ1104 - ■ FM13 - ■■ R1		62
	61	345	2.3	23.53	2KJ1104 - ■ FM13 - ■■ Q1		62
	66	319	2.5	21.76	★ 2KJ1104 - ■ FM13 - ■■ P1		62
	71	296	2.7	20.2	2KJ1104 - ■ FM13 - ■■ N1		62
	80	261	3.1	17.82	★ 2KJ1104 - ■ FM13 - ■■ M1		62
	87	241	3.3	16.45	2KJ1104 - ■ FM13 - ■■ L1		62
	D.48-LA100ZLP4E						
	40	521	0.86	35.59	2KJ1203 - ■ FM13 - ■■ A1		45
	Z.48-LA100ZLP4E						
	45	465	0.97	31.77	2KJ1103 - ■ FM13 - ■■ U1		45
	50	421	1.1	28.74	★ 2KJ1103 - ■ FM13 - ■■ T1		45
	54	388	1.2	26.53	2KJ1103 - ■ FM13 - ■■ S1		45
	62	338	1.3	23.07	★ 2KJ1103 - ■ FM13 - ■■ R1		45
	68	307	1.5	20.95	2KJ1103 - ■ FM13 - ■■ Q1		45
	75	280	1.6	19.13	★ 2KJ1103 - ■ FM13 - ■■ P1		45
	82	257	1.8	17.55	2KJ1103 - ■ FM13 - ■■ N1		45
	89	237	1.8	16.17	★ 2KJ1103 - ■ FM13 - ■■ M1		45
	98	215	2.0	14.68	2KJ1103 - ■ FM13 - ■■ L1		45
	107	196	2.1	13.38	★ 2KJ1103 - ■ FM13 - ■■ K1		45
	117	179	2.2	12.25	2KJ1103 - ■ FM13 - ■■ J1		45
	131	160	2.4	10.93	★ 2KJ1103 - ■ FM13 - ■■ H1		45
	147	143	2.7	9.76	2KJ1103 - ■ FM13 - ■■ G1		45
	173	121	3.0	8.29	2KJ1103 - ■ FM13 - ■■ F1		45
	208	101	3.4	6.9	★ 2KJ1103 - ■ FM13 - ■■ E1		45
	211	99	2.7	6.79	★ 2KJ1103 - ■ FM13 - ■■ D1		45
	237	89	3.0	6.06	2KJ1103 - ■ FM13 - ■■ C1		45
	279	75	3.6	5.15	2KJ1103 - ■ FM13 - ■■ B1		45
	335	63	4.1	4.28	★ 2KJ1103 - ■ FM13 - ■■ A1		45
	Z.48-LA90ZLB2E						
	151	139	3.2	19.13	★ 2KJ1103 - ■ EQ13 - ■■ P1	P00	37
	165	128	3.5	17.55	2KJ1103 - ■ EQ13 - ■■ N1	P00	37

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
2.2	Z.48-LA90ZLB2E						
	179	118	3.7	16.17	★ 2KJ1103 - ■EQ13 - ■■M1	P00	37
	197	107	3.9	14.68	2KJ1103 - ■EQ13 - ■■L1	P00	37
	216	97	4.2	13.38	★ 2KJ1103 - ■EQ13 - ■■K1	P00	37
	236	89	4.5	12.25	2KJ1103 - ■EQ13 - ■■J1	P00	37
	426	49	5.5	6.79	★ 2KJ1103 - ■EQ13 - ■■D1	P00	37
	Z.38-LA100ZLP4E						
	83	254	0.87	17.33	★ 2KJ1102 - ■FM13 - ■■Q1		35
	92	229	0.96	15.64	2KJ1102 - ■FM13 - ■■P1		35
	101	208	1.1	14.18	★ 2KJ1102 - ■FM13 - ■■N1		35
	111	189	1.2	12.92	2KJ1102 - ■FM13 - ■■M1		35
	121	173	1.3	11.82	★ 2KJ1102 - ■FM13 - ■■L1		35
	136	155	1.4	10.57	2KJ1102 - ■FM13 - ■■K1		35
	148	142	1.4	9.7	★ 2KJ1102 - ■FM13 - ■■J1		35
	164	128	1.5	8.75	2KJ1102 - ■FM13 - ■■H1		35
	191	110	1.7	7.5	★ 2KJ1102 - ■FM13 - ■■F1		35
	191	110	1.7	7.52	★ 2KJ1102 - ■FM13 - ■■G1		35
	214	98	1.8	6.71	2KJ1102 - ■FM13 - ■■D1		35
	233	90	1.9	6.16	★ 2KJ1102 - ■FM13 - ■■C1		35
	259	81	2.0	5.55	2KJ1102 - ■FM13 - ■■B1		35
	301	70	2.3	4.77	★ 2KJ1102 - ■FM13 - ■■A1		35
	Z.38-LA90ZLB2E						
	167	126	1.7	17.33	★ 2KJ1102 - ■EQ13 - ■■Q1	P00	27
	185	114	1.9	15.64	2KJ1102 - ■EQ13 - ■■P1	P00	27
	204	103	2.1	14.18	★ 2KJ1102 - ■EQ13 - ■■N1	P00	27
	224	94	2.3	12.92	2KJ1102 - ■EQ13 - ■■M1	P00	27
	245	86	2.6	11.82	★ 2KJ1102 - ■EQ13 - ■■L1	P00	27
	273	77	2.7	10.57	2KJ1102 - ■EQ13 - ■■K1	P00	27
	298	70	2.8	9.7	★ 2KJ1102 - ■EQ13 - ■■J1	P00	27
	330	64	3.1	8.75	2KJ1102 - ■EQ13 - ■■H1	P00	27
	384	55	3.5	7.52	★ 2KJ1102 - ■EQ13 - ■■G1	P00	27
	385	54	3.4	7.5	★ 2KJ1102 - ■EQ13 - ■■F1	P00	27
	431	49	3.7	6.71	2KJ1102 - ■EQ13 - ■■D1	P00	27
	469	45	3.8	6.16	★ 2KJ1102 - ■EQ13 - ■■C1	P00	27
	521	40	4.1	5.55	2KJ1102 - ■EQ13 - ■■B1	P00	27
	606	35	4.6	4.77	★ 2KJ1102 - ■EQ13 - ■■A1	P00	27
	E.128-LA100ZLP4E						
	142	148	3.7	10.14	★ 2KJ1006 - ■FM13 - ■■T1		119
	E.88-LA100ZLP4E						
	139	151	1.5	10.33	★ 2KJ1004 - ■FM13 - ■■S1		61
	152	139	1.5	9.46	2KJ1004 - ■FM13 - ■■R1		61
	170	123	2.0	8.42	★ 2KJ1004 - ■FM13 - ■■Q1		61
	187	113	2.2	7.69	2KJ1004 - ■FM13 - ■■P1		61
	203	104	2.8	7.07	★ 2KJ1004 - ■FM13 - ■■N1		61

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
2.2	E.88-LA100ZLP4E						
	220	96	3.1	6.53	2KJ1004 - ■ FM13 - ■■ M1		61
	237	89	3.2	6.06	★ 2KJ1004 - ■ FM13 - ■■ L1		61
	254	83	3.9	5.65	2KJ1004 - ■ FM13 - ■■ K1		61
	281	75	4.9	5.11	★ 2KJ1004 - ■ FM13 - ■■ J1		61
	E.68-LA100ZLP4E						
	163	129	1.2	8.82	2KJ1003 - ■ FM13 - ■■ T1		44
	181	116	1.5	7.92	★ 2KJ1003 - ■ FM13 - ■■ S1		44
	198	106	1.4	7.23	2KJ1003 - ■ FM13 - ■■ R1		44
	224	94	1.8	6.42	★ 2KJ1003 - ■ FM13 - ■■ P1		44
	242	87	2.2	5.92	2KJ1003 - ■ FM13 - ■■ N1		44
	268	78	2.8	5.36	★ 2KJ1003 - ■ FM13 - ■■ M1		44
	291	72	3.1	4.93	2KJ1003 - ■ FM13 - ■■ L1		44
	315	67	3.3	4.56	★ 2KJ1003 - ■ FM13 - ■■ K1		44
	338	62	3.7	4.24	2KJ1003 - ■ FM13 - ■■ J1		44
	384	55	4.2	3.74	★ 2KJ1003 - ■ FM13 - ■■ H1		44
	416	50	4.8	3.45	2KJ1003 - ■ FM13 - ■■ G1		44
	464	45	5.5	3.09	★ 2KJ1003 - ■ FM13 - ■■ F1		44
	E.48-LA100ZLP4E						
	205	102	0.95	7	2KJ1002 - ■ FM13 - ■■ Q1		34
	227	93	1.2	6.33	★ 2KJ1002 - ■ FM13 - ■■ P1		34
	245	86	1.4	5.85	2KJ1002 - ■ FM13 - ■■ N1		34
	282	74	1.6	5.08	★ 2KJ1002 - ■ FM13 - ■■ M1		34
	311	68	1.9	4.62	2KJ1002 - ■ FM13 - ■■ L1		34
	341	62	2.4	4.21	★ 2KJ1002 - ■ FM13 - ■■ K1		34
	371	57	2.8	3.87	2KJ1002 - ■ FM13 - ■■ J1		34
	403	52	2.7	3.56	★ 2KJ1002 - ■ FM13 - ■■ H1		34
	443	47	3.2	3.24	2KJ1002 - ■ FM13 - ■■ G1		34
	486	43	3.9	2.95	★ 2KJ1002 - ■ FM13 - ■■ F1		34
	531	40	4.0	2.7	2KJ1002 - ■ FM13 - ■■ E1		34
	595	35	4.3	2.41	★ 2KJ1002 - ■ FM13 - ■■ D1		34
	667	32	4.3	2.15	2KJ1002 - ■ FM13 - ■■ C1		34
	784	27	4.3	1.83	2KJ1002 - ■ FM13 - ■■ B1		34
	944	22	4.5	1.52	★ 2KJ1002 - ■ FM13 - ■■ A1		34
	E.38-LA100ZLP4E						
	277	76	0.92	5.18	2KJ1001 - ■ FM13 - ■■ M1		31
	313	67	1.2	4.58	★ 2KJ1001 - ■ FM13 - ■■ L1		31
	346	61	1.0	4.15	2KJ1001 - ■ FM13 - ■■ K1		31
	391	54	1.3	3.67	★ 2KJ1001 - ■ FM13 - ■■ J1		31
	434	48	1.3	3.31	2KJ1001 - ■ FM13 - ■■ H1		31
	478	44	1.8	3	★ 2KJ1001 - ■ FM13 - ■■ G1		31
	526	40	2.0	2.73	2KJ1001 - ■ FM13 - ■■ F1		31
	574	37	2.0	2.5	★ 2KJ1001 - ■ FM13 - ■■ E1		31
	641	33	2.2	2.24	2KJ1001 - ■ FM13 - ■■ D1		31

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
2.2	E.38-LA100ZLP4E						
	700	30	2.7	2.05	★ 2KJ1001 - ■ FM13 - ■■ C1		31
	776	27	3.0	1.85	2KJ1001 - ■ FM13 - ■■ B1		31
	903	23	3.1	1.59	★ 2KJ1001 - ■ FM13 - ■■ A1		31
3	D.188-Z68-LA100ZLD4E						
	1.1	22 996	0.87	1 251	2KJ1237 - ■ FP13 - ■■ J1		638
	1.4	19 301	1.0	1 050	2KJ1237 - ■ FP13 - ■■ H1		638
	1.6	16 470	1.2	896	★ 2KJ1237 - ■ FP13 - ■■ G1		638
	1.9	13 713	1.5	746	2KJ1237 - ■ FP13 - ■■ F1		638
	2.3	11 378	1.8	619	★ 2KJ1237 - ■ FP13 - ■■ E1		638
	2.6	10 037	2.0	546	2KJ1237 - ■ FP13 - ■■ D1		638
	D.188-Z48-LA100ZLD4E						
	1.1	23 069	0.87	1 255	2KJ1235 - ■ FP13 - ■■ B1		621
	1.4	19 191	1.0	1 044	★ 2KJ1235 - ■ FP13 - ■■ A1		621
	D.188-LA132MA8						
	2.9	9 979	2.0	243.82	2KJ1211 - ■ HG13 - ■■ N1	P02	652
	D.168-Z68-LA100ZLD4E						
	1.6	16 011	0.87	871	2KJ1233 - ■ FP13 - ■■ F1		494
	D.168-LA132MA8						
	2.0	13 982	1.0	341.61	★ 2KJ1210 - ■ HG13 - ■■ U1	P02	507
	2.2	12 827	1.1	313.41	2KJ1210 - ■ HG13 - ■■ T1	P02	507
	2.4	11 838	1.2	289.23	★ 2KJ1210 - ■ HG13 - ■■ S1	P02	507
	2.6	10 981	1.3	268.29	2KJ1210 - ■ HG13 - ■■ R1	P02	507
	D.168-LA132SB6E						
	2.8	10 302	1.4	341.61	★ 2KJ1210 - ■ HF13 - ■■ U1	P01	507
	3.0	9 452	1.5	313.41	2KJ1210 - ■ HF13 - ■■ T1	P01	507
	3.3	8 723	1.6	289.23	★ 2KJ1210 - ■ HF13 - ■■ S1	P01	507
	3.5	8 091	1.7	268.29	2KJ1210 - ■ HF13 - ■■ R1	P01	507
	3.8	7 632	1.8	253.08	★ 2KJ1210 - ■ HF13 - ■■ Q1	P01	507
	4.0	7 139	2.0	236.72	2KJ1210 - ■ HF13 - ■■ P1	P01	507
	D.148-LA132SB6E						
	3.2	9 088	0.88	301.34	★ 2KJ1208 - ■ HF13 - ■■ V1	P01	336
	3.4	8 331	0.96	276.23	2KJ1208 - ■ HF13 - ■■ U1	P01	336
	3.7	7 681	1.0	254.7	★ 2KJ1208 - ■ HF13 - ■■ T1	P01	336
	4.0	7 119	1.1	236.05	2KJ1208 - ■ HF13 - ■■ S1	P01	336
	D.148-LA100ZLD4E						
	4.3	6 710	1.2	336.11	2KJ1208 - ■ FP13 - ■■ W1		311
	4.8	6 016	1.3	301.34	★ 2KJ1208 - ■ FP13 - ■■ V1		311
	5.2	5 515	1.5	276.23	2KJ1208 - ■ FP13 - ■■ U1		311
	5.6	5 085	1.6	254.7	★ 2KJ1208 - ■ FP13 - ■■ T1		311
	6.1	4 713	1.7	236.05	2KJ1208 - ■ FP13 - ■■ S1		311
	6.4	4 481	1.8	224.43	★ 2KJ1208 - ■ FP13 - ■■ R1		311
	6.8	4 188	1.9	209.76	2KJ1208 - ■ FP13 - ■■ Q1		311

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
3	D.128-LA132SB6E						
	4.7	6 068	0.84	201.22	2KJ1207 - ■ HF13 - ■■ R1	P01	246
	5.1	5 590	0.91	185.36	★ 2KJ1207 - ■ HF13 - ■■ Q1	P01	246
	D.128-LA100ZLD4E						
	5.4	5 354	0.95	268.16	★ 2KJ1207 - ■ FP13 - ■■ U1		221
	5.8	4 910	1.0	245.93	2KJ1207 - ■ FP13 - ■■ T1		221
	6.5	4 387	1.2	219.72	★ 2KJ1207 - ■ FP13 - ■■ S1		221
	7.1	4 017	1.3	201.22	2KJ1207 - ■ FP13 - ■■ R1		221
	7.7	3 701	1.4	185.36	★ 2KJ1207 - ■ FP13 - ■■ Q1		221
	8.4	3 426	1.5	171.62	2KJ1207 - ■ FP13 - ■■ P1		221
	9.0	3 186	1.6	159.6	★ 2KJ1207 - ■ FP13 - ■■ N1		221
	9.6	2 975	1.7	148.99	2KJ1207 - ■ FP13 - ■■ M1		221
	10.8	2 661	1.9	133.3	★ 2KJ1207 - ■ FP13 - ■■ L1		221
	11.6	2 466	2.1	123.53	2KJ1207 - ■ FP13 - ■■ K1		221
	D.108-LA100ZLD4E						
	7.5	3 818	0.81	191.21	2KJ1206 - ■ FP13 - ■■ P1		144
	8.2	3 509	0.88	175.78	★ 2KJ1206 - ■ FP13 - ■■ N1		144
	8.8	3 242	0.96	162.4	2KJ1206 - ■ FP13 - ■■ M1		144
	9.5	3 009	1.0	150.7	★ 2KJ1206 - ■ FP13 - ■■ L1		144
	10.2	2 803	1.1	140.37	2KJ1206 - ■ FP13 - ■■ K1		144
	11.3	2 534	1.2	126.9	★ 2KJ1206 - ■ FP13 - ■■ J1		144
	12.3	2 333	1.3	116.83	2KJ1206 - ■ FP13 - ■■ H1		144
	13.7	2 098	1.5	105.08	★ 2KJ1206 - ■ FP13 - ■■ G1		144
	14.8	1 935	1.6	96.94	2KJ1206 - ■ FP13 - ■■ F1		144
	17.5	1 640	1.9	82.14	2KJ1206 - ■ FP13 - ■■ E1		144
	20	1 429	2.2	71.59	★ 2KJ1206 - ■ FP13 - ■■ D1		144
	Z.108-LA100ZLD4E						
	24	1 179	2	59.05	★ 2KJ1106 - ■ FP13 - ■■ E2		140
	26	1 081	2.1	54.15	2KJ1106 - ■ FP13 - ■■ D2		140
	D.88-LA100ZLD4E						
	14.0	2 049	0.82	102.61	2KJ1205 - ■ FP13 - ■■ J1		96
	15.9	1 807	0.93	90.53	★ 2KJ1205 - ■ FP13 - ■■ H1		96
	17.2	1 669	1.0	83.58	2KJ1205 - ■ FP13 - ■■ G1		96
	19.2	1 495	1.1	74.88	★ 2KJ1205 - ■ FP13 - ■■ F1		96
	21	1 379	1.2	69.05	2KJ1205 - ■ FP13 - ■■ E1		96
	25	1 157	1.5	57.93	2KJ1205 - ■ FP13 - ■■ D1		96
	Z.88-LA100ZLD4E						
	28	1 013	1.4	50.73	2KJ1105 - ■ FP13 - ■■ B2		94
	31	914	1.8	45.76	★ 2KJ1105 - ■ FP13 - ■■ A2		94
	34	837	2.0	41.9	2KJ1105 - ■ FP13 - ■■ X1		94
	38	744	2.3	37.27	★ 2KJ1105 - ■ FP13 - ■■ W1		94
	42	680	2.5	34.07	2KJ1105 - ■ FP13 - ■■ V1		94
	46	625	2.7	31.32	★ 2KJ1105 - ■ FP13 - ■■ U1		94

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
3	Z.68-LA100ZLD4E						
	34	840	0.95	42.06	2KJ1104 - ■FP13 - ■■W1		62
	38	754	1.1	37.76	★ 2KJ1104 - ■FP13 - ■■V1		62
	42	689	1.2	34.49	2KJ1104 - ■FP13 - ■■U1		62
	47	611	1.3	30.6	★ 2KJ1104 - ■FP13 - ■■T1		62
	51	564	1.4	28.25	2KJ1104 - ■FP13 - ■■S1		62
	56	510	1.6	25.55	★ 2KJ1104 - ■FP13 - ■■R1		62
	61	470	1.7	23.53	2KJ1104 - ■FP13 - ■■Q1		62
	66	434	1.8	21.76	★ 2KJ1104 - ■FP13 - ■■P1		62
	71	403	2.0	20.2	2KJ1104 - ■FP13 - ■■N1		62
	80	356	2.2	17.82	★ 2KJ1104 - ■FP13 - ■■M1		62
	87	328	2.4	16.45	2KJ1104 - ■FP13 - ■■L1		62
	97	294	2.7	14.74	★ 2KJ1104 - ■FP13 - ■■K1		62
	106	271	2.9	13.59	2KJ1104 - ■FP13 - ■■J1		62
	126	228	3.4	11.4	2KJ1104 - ■FP13 - ■■H1		62
	147	194	3.8	9.73	★ 2KJ1104 - ■FP13 - ■■G1		62
	242	118	4.1	5.93	2KJ1104 - ■FP13 - ■■D1		62
	284	101	4.8	5.06	★ 2KJ1104 - ■FP13 - ■■C1		62
	Z.48-LA100ZLD4E						
	54	530	0.85	26.53	2KJ1103 - ■FP13 - ■■S1		45
	62	461	0.98	23.07	★ 2KJ1103 - ■FP13 - ■■R1		45
	68	418	1.1	20.95	2KJ1103 - ■FP13 - ■■Q1		45
	75	382	1.2	19.13	★ 2KJ1103 - ■FP13 - ■■P1		45
	82	350	1.3	17.55	2KJ1103 - ■FP13 - ■■N1		45
	89	323	1.3	16.17	★ 2KJ1103 - ■FP13 - ■■M1		45
	98	293	1.4	14.68	2KJ1103 - ■FP13 - ■■L1		45
	107	267	1.5	13.38	★ 2KJ1103 - ■FP13 - ■■K1		45
	117	245	1.6	12.25	2KJ1103 - ■FP13 - ■■J1		45
	131	218	1.8	10.93	★ 2KJ1103 - ■FP13 - ■■H1		45
	147	195	2.0	9.76	2KJ1103 - ■FP13 - ■■G1		45
	173	166	2.2	8.29	2KJ1103 - ■FP13 - ■■F1		45
	208	138	2.5	6.9	★ 2KJ1103 - ■FP13 - ■■E1		45
	211	136	2.0	6.79	★ 2KJ1103 - ■FP13 - ■■D1		45
	237	121	2.2	6.06	2KJ1103 - ■FP13 - ■■C1		45
	279	103	2.6	5.15	2KJ1103 - ■FP13 - ■■B1		45
	335	86	3.0	4.28	★ 2KJ1103 - ■FP13 - ■■A1		45
	Z.48-LA100ZLB2E						
	151	190	2.4	19.13	★ 2KJ1103 - ■FM13 - ■■P1		45
	165	174	2.6	17.55	2KJ1103 - ■FM13 - ■■N1		45
	179	160	2.7	16.17	★ 2KJ1103 - ■FM13 - ■■M1		45
	197	146	2.9	14.68	2KJ1103 - ■FM13 - ■■L1		45
	216	133	3.1	13.38	★ 2KJ1103 - ■FM13 - ■■K1		45
	236	121	3.3	12.25	2KJ1103 - ■FM13 - ■■J1		45
	264	108	3.6	10.93	★ 2KJ1103 - ■FM13 - ■■H1		45

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
3	Z.48-LA100ZLB2E						
	296	97	3.9	9.76	2KJ1103 - ■ FM13 - ■■ G1	P00	45
	349	82	4.4	8.29	2KJ1103 - ■ FM13 - ■■ F1	P00	45
	419	68	5.0	6.9 ★	2KJ1103 - ■ FM13 - ■■ E1	P00	45
	426	67	4.0	6.79 ★	2KJ1103 - ■ FM13 - ■■ D1	P00	45
	477	60	4.5	6.06	2KJ1103 - ■ FM13 - ■■ C1	P00	45
	561	51	5.3	5.15	2KJ1103 - ■ FM13 - ■■ B1	P00	45
	675	42	6.1	4.28 ★	2KJ1103 - ■ FM13 - ■■ A1	P00	45
	Z.38-LA100ZLD4E						
	111	258	0.85	12.92	2KJ1102 - ■ FP13 - ■■ M1		35
	121	236	0.93	11.82 ★	2KJ1102 - ■ FP13 - ■■ L1		35
	136	211	1.0	10.57	2KJ1102 - ■ FP13 - ■■ K1		35
	148	194	1.0	9.7 ★	2KJ1102 - ■ FP13 - ■■ J1		35
	164	175	1.1	8.75	2KJ1102 - ■ FP13 - ■■ H1		35
	191	150	1.2	7.5 ★	2KJ1102 - ■ FP13 - ■■ F1		35
	191	150	1.3	7.52 ★	2KJ1102 - ■ FP13 - ■■ G1		35
	214	134	1.3	6.71	2KJ1102 - ■ FP13 - ■■ D1		35
	233	123	1.4	6.16 ★	2KJ1102 - ■ FP13 - ■■ C1		35
	259	111	1.5	5.55	2KJ1102 - ■ FP13 - ■■ B1		35
	301	95	1.7	4.77 ★	2KJ1102 - ■ FP13 - ■■ A1		35
	Z.38-LA100ZLB2E						
	167	172	1.3	17.33 ★	2KJ1102 - ■ FM13 - ■■ Q1	P00	35
	185	155	1.4	15.64	2KJ1102 - ■ FM13 - ■■ P1	P00	35
	204	141	1.6	14.18 ★	2KJ1102 - ■ FM13 - ■■ N1	P00	35
	224	128	1.7	12.92	2KJ1102 - ■ FM13 - ■■ M1	P00	35
	245	117	1.9	11.82 ★	2KJ1102 - ■ FM13 - ■■ L1	P00	35
	273	105	2.0	10.57	2KJ1102 - ■ FM13 - ■■ K1	P00	35
	298	96	2.1	9.7 ★	2KJ1102 - ■ FM13 - ■■ J1	P00	35
	330	87	2.2	8.75	2KJ1102 - ■ FM13 - ■■ H1	P00	35
	384	74	2.5	7.52 ★	2KJ1102 - ■ FM13 - ■■ G1	P00	35
	385	74	2.5	7.5 ★	2KJ1102 - ■ FM13 - ■■ F1	P00	35
	431	66	2.7	6.71	2KJ1102 - ■ FM13 - ■■ D1	P00	35
	469	61	2.8	6.16 ★	2KJ1102 - ■ FM13 - ■■ C1	P00	35
	521	55	3.0	5.55	2KJ1102 - ■ FM13 - ■■ B1	P00	35
	606	47	3.4	4.77 ★	2KJ1102 - ■ FM13 - ■■ A1	P00	35
	Z.28-LA100ZLD4E						
	188	153	0.89	7.64	2KJ1101 - ■ FP13 - ■■ J1		28
	207	139	0.95	6.94 ★	2KJ1101 - ■ FP13 - ■■ H1		28
	251	114	0.81	5.72	2KJ1101 - ■ FP13 - ■■ F1		28
	275	104	0.88	5.21 ★	2KJ1101 - ■ FP13 - ■■ E1		28
	312	92	0.96	4.6	2KJ1101 - ■ FP13 - ■■ D1		28
	338	85	1.1	4.25 ★	2KJ1101 - ■ FP13 - ■■ C1		28
	392	73	1.1	3.66	2KJ1101 - ■ FP13 - ■■ B1		28
	431	66	1.2	3.33 ★	2KJ1101 - ■ FP13 - ■■ A1		28

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
3	E.128-LA100ZLD4E						
	142	202	2.7	10.14	★ 2KJ1006 - ■FP13 - ■■T1		119
	153	188	3.1	9.4	2KJ1006 - ■FP13 - ■■S1		119
	161	178	3.6	8.94	★ 2KJ1006 - ■FP13 - ■■R1		119
	E.88-LA100ZLD4E						
	139	206	1.1	10.33	★ 2KJ1004 - ■FP13 - ■■S1		61
	152	189	1.1	9.46	2KJ1004 - ■FP13 - ■■R1		61
	170	168	1.5	8.42	★ 2KJ1004 - ■FP13 - ■■Q1		61
	187	154	1.6	7.69	2KJ1004 - ■FP13 - ■■P1		61
	203	141	2.1	7.07	★ 2KJ1004 - ■FP13 - ■■N1		61
	220	130	2.3	6.53	2KJ1004 - ■FP13 - ■■M1		61
	237	121	2.3	6.06	★ 2KJ1004 - ■FP13 - ■■L1		61
	254	113	2.8	5.65	2KJ1004 - ■FP13 - ■■K1		61
	281	102	3.6	5.11	★ 2KJ1004 - ■FP13 - ■■J1		61
	305	94	4.1	4.7	2KJ1004 - ■FP13 - ■■H1		61
	339	84	4.7	4.23	★ 2KJ1004 - ■FP13 - ■■G1		61
	368	78	4.9	3.9	2KJ1004 - ■FP13 - ■■F1		61
	E.68-LA100ZLD4E						
	163	176	0.85	8.82	2KJ1003 - ■FP13 - ■■T1		44
	181	158	1.1	7.92	★ 2KJ1003 - ■FP13 - ■■S1		44
	198	144	1.0	7.23	2KJ1003 - ■FP13 - ■■R1		44
	224	128	1.3	6.42	★ 2KJ1003 - ■FP13 - ■■P1		44
	242	118	1.6	5.92	2KJ1003 - ■FP13 - ■■N1		44
	268	107	2.1	5.36	★ 2KJ1003 - ■FP13 - ■■M1		44
	291	98	2.3	4.93	2KJ1003 - ■FP13 - ■■L1		44
	315	91	2.4	4.56	★ 2KJ1003 - ■FP13 - ■■K1		44
	338	85	2.7	4.24	2KJ1003 - ■FP13 - ■■J1		44
	384	75	3.1	3.74	★ 2KJ1003 - ■FP13 - ■■H1		44
	416	69	3.5	3.45	2KJ1003 - ■FP13 - ■■G1		44
	464	62	4.1	3.09	★ 2KJ1003 - ■FP13 - ■■F1		44
	504	57	4.4	2.85	2KJ1003 - ■FP13 - ■■E1		44
	600	48	4.8	2.39	2KJ1003 - ■FP13 - ■■D1		44
	703	41	5.2	2.04	★ 2KJ1003 - ■FP13 - ■■C1		44
	844	34	5.2	1.7	2KJ1003 - ■FP13 - ■■B1		44
	1 018	28	5.3	1.41	★ 2KJ1003 - ■FP13 - ■■A1		44
	E.48-LA100ZLD4E						
	227	126	0.91	6.33	★ 2KJ1002 - ■FP13 - ■■P1		34
	245	117	1.0	5.85	2KJ1002 - ■FP13 - ■■N1		34
	282	101	1.2	5.08	★ 2KJ1002 - ■FP13 - ■■M1		34
	311	92	1.4	4.62	2KJ1002 - ■FP13 - ■■L1		34
	341	84	1.8	4.21	★ 2KJ1002 - ■FP13 - ■■K1		34
	371	77	2.1	3.87	2KJ1002 - ■FP13 - ■■J1		34
	403	71	2.0	3.56	★ 2KJ1002 - ■FP13 - ■■H1		34
	443	65	2.3	3.24	2KJ1002 - ■FP13 - ■■G1		34

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
3	E.48-LA100ZLD4E						
	486	59	2.9	2.95	★ 2KJ1002 - ■FP13 - ■■F1		34
	531	54	3.0	2.7	2KJ1002 - ■FP13 - ■■E1		34
	595	48	3.1	2.41	★ 2KJ1002 - ■FP13 - ■■D1		34
	667	43	3.1	2.15	2KJ1002 - ■FP13 - ■■C1		34
	784	36	3.1	1.83	2KJ1002 - ■FP13 - ■■B1		34
	944	30	3.3	1.52	★ 2KJ1002 - ■FP13 - ■■A1		34
	E.38-LA100ZLD4E						
	313	91	0.85	4.58	★ 2KJ1001 - ■FP13 - ■■L1		31
	391	73	0.96	3.67	★ 2KJ1001 - ■FP13 - ■■J1		31
	434	66	0.98	3.31	2KJ1001 - ■FP13 - ■■H1		31
	478	60	1.3	3	★ 2KJ1001 - ■FP13 - ■■G1		31
	526	54	1.5	2.73	2KJ1001 - ■FP13 - ■■F1		31
	574	50	1.5	2.5	★ 2KJ1001 - ■FP13 - ■■E1		31
	641	45	1.6	2.24	2KJ1001 - ■FP13 - ■■D1		31
	700	41	2.0	2.05	★ 2KJ1001 - ■FP13 - ■■C1		31
	776	37	2.2	1.85	2KJ1001 - ■FP13 - ■■B1		31
	903	32	2.3	1.59	★ 2KJ1001 - ■FP13 - ■■A1		31
4	D.188-Z68-LA112ZMP4E						
	1.6	21 939	0.91	896	★ 2KJ1237 - ■GJ13 - ■■G1		645
	1.9	18 266	1.1	746	2KJ1237 - ■GJ13 - ■■F1		645
	2.3	15 157	1.3	619	★ 2KJ1237 - ■GJ13 - ■■E1		645
	2.6	13 369	1.5	546	2KJ1237 - ■GJ13 - ■■D1		645
	D.188-LA160M8						
	2.9	13 026	1.5	243.82	2KJ1211 - ■JE13 - ■■N1	P02	676
	3.2	11 763	1.7	220.17	2KJ1211 - ■JE13 - ■■M1	P02	676
	3.5	11 024	1.8	206.34	2KJ1211 - ■JE13 - ■■L1	P02	676
	D.188-LA132ZMB6E						
	3.9	9 804	2.0	243.82	2KJ1211 - ■HJ13 - ■■N1	P01	652
	D.168-LA132ZMB6E						
	2.8	13 736	1.0	341.61	★ 2KJ1210 - ■HJ13 - ■■U1	P01	507
	3.0	12 602	1.1	313.41	2KJ1210 - ■HJ13 - ■■T1	P01	507
	3.3	11 630	1.2	289.23	★ 2KJ1210 - ■HJ13 - ■■S1	P01	507
	3.5	10 788	1.3	268.29	2KJ1210 - ■HJ13 - ■■R1	P01	507
	3.8	10 176	1.4	253.08	★ 2KJ1210 - ■HJ13 - ■■Q1	P01	507
	4.0	9 519	1.5	236.72	2KJ1210 - ■HJ13 - ■■P1	P01	507
	D.148-LA132ZMB6E						
	4.0	9 492	0.84	236.05	2KJ1208 - ■HJ13 - ■■S1	P01	336
	D.148-LA112ZMP4E						
	4.3	8 916	0.9	336.11	2KJ1208 - ■GJ13 - ■■W1		318
	4.8	7 994	1.0	301.34	★ 2KJ1208 - ■GJ13 - ■■V1		318
	5.2	7 328	1.1	276.23	2KJ1208 - ■GJ13 - ■■U1		318
	5.7	6 757	1.2	254.7	★ 2KJ1208 - ■GJ13 - ■■T1		318
	6.1	6 262	1.3	236.05	2KJ1208 - ■GJ13 - ■■S1		318

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
4	D.148-LA112ZMP4E						
	6.4	5 954	1.3	224.43	★ 2KJ1208 - ■ GJ13 - ■■ R1		318
	6.9	5 564	1.4	209.76	2KJ1208 - ■ GJ13 - ■■ Q1		318
	7.8	4 908	1.6	185.03	★ 2KJ1208 - ■ GJ13 - ■■ P1		318
	8.3	4 630	1.7	174.53	2KJ1208 - ■ GJ13 - ■■ N1		318
	9.2	4 148	1.9	156.38	★ 2KJ1208 - ■ GJ13 - ■■ M1		318
	10.0	3 830	2.1	144.39	2KJ1208 - ■ GJ13 - ■■ L1		318
	D.128-LA112ZMP4E						
	6.6	5 829	0.87	219.72	★ 2KJ1207 - ■ GJ13 - ■■ S1		228
	7.2	5 338	0.96	201.22	2KJ1207 - ■ GJ13 - ■■ R1		228
	7.8	4 917	1.0	185.36	★ 2KJ1207 - ■ GJ13 - ■■ Q1		228
	8.4	4 553	1.1	171.62	2KJ1207 - ■ GJ13 - ■■ P1		228
	9.0	4 234	1.2	159.6	★ 2KJ1207 - ■ GJ13 - ■■ N1		228
	9.7	3 952	1.3	148.99	2KJ1207 - ■ GJ13 - ■■ M1		228
	10.8	3 536	1.4	133.3	★ 2KJ1207 - ■ GJ13 - ■■ L1		228
	11.7	3 277	1.6	123.53	2KJ1207 - ■ GJ13 - ■■ K1		228
	12.7	3 004	1.7	113.24	★ 2KJ1207 - ■ GJ13 - ■■ J1		228
	13.9	2 754	1.9	103.8	2KJ1207 - ■ GJ13 - ■■ H1		228
	16.3	2 347	2.2	88.46	2KJ1207 - ■ GJ13 - ■■ G1		228
	D.108-LA112ZMP4E						
	10.3	3 724	0.83	140.37	2KJ1206 - ■ GJ13 - ■■ K1		151
	11.3	3 366	0.92	126.9	★ 2KJ1206 - ■ GJ13 - ■■ J1		151
	12.3	3 099	1.0	116.83	2KJ1206 - ■ GJ13 - ■■ H1		151
	13.7	2 788	1.1	105.08	★ 2KJ1206 - ■ GJ13 - ■■ G1		151
	14.9	2 572	1.2	96.94	2KJ1206 - ■ GJ13 - ■■ F1		151
	17.5	2 179	1.4	82.14	2KJ1206 - ■ GJ13 - ■■ E1		151
	20	1 899	1.6	71.59	★ 2KJ1206 - ■ GJ13 - ■■ D1		151
	24	1 616	1.9	60.9	2KJ1206 - ■ GJ13 - ■■ C1		151
	Z.108-LA112ZMP4E						
	24	1 566	1.5	59.05	★ 2KJ1106 - ■ GJ13 - ■■ E2		147
	27	1 436	1.6	54.15	2KJ1106 - ■ GJ13 - ■■ D2		147
	30	1 283	2.4	48.38	★ 2KJ1106 - ■ GJ13 - ■■ C2		147
	D.88-LA112ZMP4E						
	19.2	1 986	0.85	74.88	★ 2KJ1205 - ■ GJ13 - ■■ F1		103
	21	1 832	0.92	69.05	2KJ1205 - ■ GJ13 - ■■ E1		103
	25	1 537	1.1	57.93	2KJ1205 - ■ GJ13 - ■■ D1		103
	Z.88-LA112ZMP4E						
	32	1 214	1.4	45.76	★ 2KJ1105 - ■ GJ13 - ■■ A2		101
	34	1 112	1.5	41.9	2KJ1105 - ■ GJ13 - ■■ X1		101
	39	989	1.7	37.27	★ 2KJ1105 - ■ GJ13 - ■■ W1		101
	42	904	1.9	34.07	2KJ1105 - ■ GJ13 - ■■ V1		101
	46	831	2.0	31.32	★ 2KJ1105 - ■ GJ13 - ■■ U1		101
	50	767	2.2	28.93	2KJ1105 - ■ GJ13 - ■■ T1		101
	54	712	2.4	26.85	★ 2KJ1105 - ■ GJ13 - ■■ S1		101

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
4	Z.88-LA112ZMP4E						
	58	663	2.5	25.01	2KJ1105 - ■ GJ13 - ■■ R1		101
	64	600	2.8	22.61	★ 2KJ1105 - ■ GJ13 - ■■ Q1		101
	69	552	3.0	20.81	2KJ1105 - ■ GJ13 - ■■ P1		101
	Z.68-LA112ZMP4E						
	38	1 002	0.80	37.76	★ 2KJ1104 - ■ GJ13 - ■■ V1		69
	42	915	0.87	34.49	2KJ1104 - ■ GJ13 - ■■ U1		69
	47	812	0.99	30.6	★ 2KJ1104 - ■ GJ13 - ■■ T1		69
	51	749	1.1	28.25	2KJ1104 - ■ GJ13 - ■■ S1		69
	56	678	1.2	25.55	★ 2KJ1104 - ■ GJ13 - ■■ R1		69
	61	624	1.3	23.53	2KJ1104 - ■ GJ13 - ■■ Q1		69
	66	577	1.4	21.76	★ 2KJ1104 - ■ GJ13 - ■■ P1		69
	71	536	1.5	20.2	2KJ1104 - ■ GJ13 - ■■ N1		69
	81	473	1.7	17.82	★ 2KJ1104 - ■ GJ13 - ■■ M1		69
	88	436	1.8	16.45	2KJ1104 - ■ GJ13 - ■■ L1		69
	98	391	2.0	14.74	★ 2KJ1104 - ■ GJ13 - ■■ K1		69
	106	361	2.2	13.59	2KJ1104 - ■ GJ13 - ■■ J1		69
	126	302	2.6	11.4	2KJ1104 - ■ GJ13 - ■■ H1		69
	148	258	2.9	9.73	★ 2KJ1104 - ■ GJ13 - ■■ G1		69
	178	215	3.3	8.11	2KJ1104 - ■ GJ13 - ■■ F1		69
	214	178	3.6	6.72	★ 2KJ1104 - ■ GJ13 - ■■ E1		69
	243	157	3.1	5.93	2KJ1104 - ■ GJ13 - ■■ D1		69
	285	134	3.6	5.06	★ 2KJ1104 - ■ GJ13 - ■■ C1		69
	341	112	4.2	4.22	2KJ1104 - ■ GJ13 - ■■ B1		69
	413	93	4.5	3.49	★ 2KJ1104 - ■ GJ13 - ■■ A1		69
	Z.68-LA112ZMP2E						
	163	234	3.4	17.82	★ 2KJ1104 - ■ GJ13 - ■■ M1	P00	69
	177	216	3.7	16.45	2KJ1104 - ■ GJ13 - ■■ L1	P00	69
	197	194	4.1	14.74	★ 2KJ1104 - ■ GJ13 - ■■ K1	P00	69
	214	179	4.5	13.59	2KJ1104 - ■ GJ13 - ■■ J1	P00	69
	Z.48-LA112ZMP4E						
	69	556	0.81	20.95	2KJ1103 - ■ GJ13 - ■■ Q1		52
	75	507	0.89	19.13	★ 2KJ1103 - ■ GJ13 - ■■ P1		52
	82	466	0.97	17.55	2KJ1103 - ■ GJ13 - ■■ N1		52
	89	429	1.0	16.17	★ 2KJ1103 - ■ GJ13 - ■■ M1		52
	98	389	1.1	14.68	2KJ1103 - ■ GJ13 - ■■ L1		52
	108	355	1.2	13.38	★ 2KJ1103 - ■ GJ13 - ■■ K1		52
	118	325	1.2	12.25	2KJ1103 - ■ GJ13 - ■■ J1		52
	132	290	1.3	10.93	★ 2KJ1103 - ■ GJ13 - ■■ H1		52
	148	259	1.5	9.76	2KJ1103 - ■ GJ13 - ■■ G1		52
	174	220	1.6	8.29	2KJ1103 - ■ GJ13 - ■■ F1		52
	209	183	1.9	6.9	★ 2KJ1103 - ■ GJ13 - ■■ E1		52
	212	180	1.5	6.79	★ 2KJ1103 - ■ GJ13 - ■■ D1		52
	238	161	1.7	6.06	2KJ1103 - ■ GJ13 - ■■ C1		52

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
4	Z.48-LA112ZMP4E						
	280	137	2.0	5.15	2KJ1103 - ■ GJ13 - ■■ B1		52
	336	114	2.3	4.28	★ 2KJ1103 - ■ GJ13 - ■■ A1		52
	Z.48-LA112ZMP2E						
	152	252	1.8	19.13	★ 2KJ1103 - ■ GJ13 - ■■ P1	P00	52
	166	231	1.9	17.55	2KJ1103 - ■ GJ13 - ■■ N1	P00	52
	180	213	2.0	16.17	★ 2KJ1103 - ■ GJ13 - ■■ M1	P00	52
	198	193	2.2	14.68	2KJ1103 - ■ GJ13 - ■■ L1	P00	52
	217	176	2.3	13.38	★ 2KJ1103 - ■ GJ13 - ■■ K1	P00	52
	237	161	2.5	12.25	2KJ1103 - ■ GJ13 - ■■ J1	P00	52
	266	144	2.7	10.93	★ 2KJ1103 - ■ GJ13 - ■■ H1	P00	52
	298	128	3.0	9.76	2KJ1103 - ■ GJ13 - ■■ G1	P00	52
	350	109	3.3	8.29	2KJ1103 - ■ GJ13 - ■■ F1	P00	52
	421	91	3.7	6.9	★ 2KJ1103 - ■ GJ13 - ■■ E1	P00	52
	428	89	3.0	6.79	★ 2KJ1103 - ■ GJ13 - ■■ D1	P00	52
	479	80	3.4	6.06	2KJ1103 - ■ GJ13 - ■■ C1	P00	52
	564	68	4.0	5.15	2KJ1103 - ■ GJ13 - ■■ B1	P00	52
	679	56	4.6	4.28	★ 2KJ1103 - ■ GJ13 - ■■ A1	P00	52
	Z.38-LA112ZMP4E						
	165	232	0.84	8.75	2KJ1102 - ■ GJ13 - ■■ H1		42
	191	199	0.95	7.52	★ 2KJ1102 - ■ GJ13 - ■■ G1		42
	192	199	0.93	7.5	★ 2KJ1102 - ■ GJ13 - ■■ F1		42
	215	178	1.0	6.71	2KJ1102 - ■ GJ13 - ■■ D1		42
	234	163	1.0	6.16	★ 2KJ1102 - ■ GJ13 - ■■ C1		42
	259	147	1.1	5.55	2KJ1102 - ■ GJ13 - ■■ B1		42
	302	127	1.3	4.77	★ 2KJ1102 - ■ GJ13 - ■■ A1		42
	Z.38-LA112ZMP2E						
	168	228	0.97	17.33	★ 2KJ1102 - ■ GJ13 - ■■ Q1	P00	42
	186	206	1.1	15.64	2KJ1102 - ■ GJ13 - ■■ P1	P00	42
	205	186	1.2	14.18	★ 2KJ1102 - ■ GJ13 - ■■ N1	P00	42
	225	170	1.3	12.92	2KJ1102 - ■ GJ13 - ■■ M1	P00	42
	246	155	1.4	11.82	★ 2KJ1102 - ■ GJ13 - ■■ L1	P00	42
	275	139	1.5	10.57	2KJ1102 - ■ GJ13 - ■■ K1	P00	42
	299	128	1.6	9.7	★ 2KJ1102 - ■ GJ13 - ■■ J1	P00	42
	332	115	1.7	8.75	2KJ1102 - ■ GJ13 - ■■ H1	P00	42
	386	99	1.9	7.52	★ 2KJ1102 - ■ GJ13 - ■■ G1	P00	42
	387	99	1.9	7.5	★ 2KJ1102 - ■ GJ13 - ■■ F1	P00	42
	433	88	2.0	6.71	2KJ1102 - ■ GJ13 - ■■ D1	P00	42
	472	81	2.1	6.16	★ 2KJ1102 - ■ GJ13 - ■■ C1	P00	42
	523	73	2.3	5.55	2KJ1102 - ■ GJ13 - ■■ B1	P00	42
	609	63	2.6	4.77	★ 2KJ1102 - ■ GJ13 - ■■ A1	P00	42
	E.128-LA112ZMP4E						
	142	269	2.0	10.14	★ 2KJ1006 - ■ GJ13 - ■■ T1		126
	153	249	2.3	9.4	2KJ1006 - ■ GJ13 - ■■ S1		126

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
4	E.128-LA112ZMP4E						
	161	237	2.7	8.94	★ 2KJ1006 - ■ GJ13 - ■■ R1		126
	172	222	3.2	8.35	2KJ1006 - ■ GJ13 - ■■ Q1		126
	195	196	4.2	7.37	★ 2KJ1006 - ■ GJ13 - ■■ P1		126
	E.108-LA112ZMP4E						
	264	145	4.6	5.46	★ 2KJ1005 - ■ GJ13 - ■■ K1		89
	E.88-LA112ZMP4E						
	139	274	0.84	10.33	★ 2KJ1004 - ■ GJ13 - ■■ S1		68
	152	251	0.84	9.46	2KJ1004 - ■ GJ13 - ■■ R1		68
	171	223	1.1	8.42	★ 2KJ1004 - ■ GJ13 - ■■ Q1		68
	187	204	1.2	7.69	2KJ1004 - ■ GJ13 - ■■ P1		68
	204	188	1.5	7.07	★ 2KJ1004 - ■ GJ13 - ■■ N1		68
	221	173	1.7	6.53	2KJ1004 - ■ GJ13 - ■■ M1		68
	238	161	1.7	6.06	★ 2KJ1004 - ■ GJ13 - ■■ L1		68
	255	150	2.1	5.65	2KJ1004 - ■ GJ13 - ■■ K1		68
	282	136	2.7	5.11	★ 2KJ1004 - ■ GJ13 - ■■ J1		68
	306	125	3.1	4.7	2KJ1004 - ■ GJ13 - ■■ H1		68
	340	112	3.6	4.23	★ 2KJ1004 - ■ GJ13 - ■■ G1		68
	369	103	3.7	3.9	2KJ1004 - ■ GJ13 - ■■ F1		68
	436	88	5.1	3.3	2KJ1004 - ■ GJ13 - ■■ E1		68
	500	76	5.7	2.88	★ 2KJ1004 - ■ GJ13 - ■■ D1		68
	E.68-LA112ZMP4E						
	182	210	0.81	7.92	★ 2KJ1003 - ■ GJ13 - ■■ S1		51
	224	170	1.0	6.42	★ 2KJ1003 - ■ GJ13 - ■■ P1		51
	243	157	1.2	5.92	2KJ1003 - ■ GJ13 - ■■ N1		51
	269	142	1.5	5.36	★ 2KJ1003 - ■ GJ13 - ■■ M1		51
	292	131	1.7	4.93	2KJ1003 - ■ GJ13 - ■■ L1		51
	316	121	1.8	4.56	★ 2KJ1003 - ■ GJ13 - ■■ K1		51
	340	112	2.0	4.24	2KJ1003 - ■ GJ13 - ■■ J1		51
	385	99	2.3	3.74	★ 2KJ1003 - ■ GJ13 - ■■ H1		51
	417	92	2.6	3.45	2KJ1003 - ■ GJ13 - ■■ G1		51
	466	82	3.0	3.09	★ 2KJ1003 - ■ GJ13 - ■■ F1		51
	505	76	3.3	2.85	2KJ1003 - ■ GJ13 - ■■ E1		51
	603	63	3.6	2.39	2KJ1003 - ■ GJ13 - ■■ D1		51
	706	54	3.9	2.04	★ 2KJ1003 - ■ GJ13 - ■■ C1		51
	847	45	3.9	1.7	2KJ1003 - ■ GJ13 - ■■ B1		51
	1 021	37	4.0	1.41	★ 2KJ1003 - ■ GJ13 - ■■ A1		51
	E.48-LA112ZMP4E						
	283	135	0.89	5.08	★ 2KJ1002 - ■ GJ13 - ■■ M1		41
	312	123	1.1	4.62	2KJ1002 - ■ GJ13 - ■■ L1		41
	342	112	1.3	4.21	★ 2KJ1002 - ■ GJ13 - ■■ K1		41
	372	103	1.6	3.87	2KJ1002 - ■ GJ13 - ■■ J1		41
	404	94	1.5	3.56	★ 2KJ1002 - ■ GJ13 - ■■ H1		41
	444	86	1.7	3.24	2KJ1002 - ■ GJ13 - ■■ G1		41

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
4	E.48-LA112ZMP4E						
	488	78	2.2	2.95	★ 2KJ1002 - ■ GJ13 - ■■ F1		41
	533	72	2.2	2.7	2KJ1002 - ■ GJ13 - ■■ E1		41
	598	64	2.3	2.41	★ 2KJ1002 - ■ GJ13 - ■■ D1		41
	670	57	2.4	2.15	2KJ1002 - ■ GJ13 - ■■ C1		41
	787	48	2.4	1.83	2KJ1002 - ■ GJ13 - ■■ B1		41
	947	40	2.5	1.52	★ 2KJ1002 - ■ GJ13 - ■■ A1		41
	E.38-LA112ZMP4E						
	480	80	1.0	3	★ 2KJ1001 - ■ GJ13 - ■■ G1		38
	527	72	1.1	2.73	2KJ1001 - ■ GJ13 - ■■ F1		38
	702	54	1.5	2.05	★ 2KJ1001 - ■ GJ13 - ■■ C1		38
	778	49	1.7	1.85	2KJ1001 - ■ GJ13 - ■■ B1		38
	906	42	1.7	1.59	★ 2KJ1001 - ■ GJ13 - ■■ A1		38
5.5	D.188-Z68-LA132SP4E						
	1.9	25 081	0.8	746	2KJ1237 - ■ HG13 - ■■ F1		663
	2.3	20 811	0.96	619	★ 2KJ1237 - ■ HG13 - ■■ E1		663
	2.6	18 357	1.1	546	2KJ1237 - ■ HG13 - ■■ D1		663
	D.188-LA160MB8						
	2.9	18 038	1.1	243.82	2KJ1211 - ■ JF13 - ■■ N1	P02	676
	3.2	16 288	1.2	220.17	2KJ1211 - ■ JF13 - ■■ M1	P02	676
	3.4	15 265	1.3	206.34	2KJ1211 - ■ JF13 - ■■ L1	P02	676
	D.188-LA132ZMD6E						
	3.9	13 340	1.5	243.82	2KJ1211 - ■ HK13 - ■■ N1	P01	652
	4.4	12 046	1.7	220.17	2KJ1211 - ■ HK13 - ■■ M1	P01	652
	4.7	11 290	1.8	206.34	2KJ1211 - ■ HK13 - ■■ L1	P01	652
	5.4	9 697	2.1	177.23	★ 2KJ1211 - ■ HK13 - ■■ K1	P01	652
	D.168-LA132ZMD6E						
	3.1	17 148	0.82	313.41	2KJ1210 - ■ HK13 - ■■ T1	P01	507
	3.3	15 825	0.88	289.23	★ 2KJ1210 - ■ HK13 - ■■ S1	P01	507
	3.6	14 679	0.95	268.29	2KJ1210 - ■ HK13 - ■■ R1	P01	507
	3.8	13 847	1.0	253.08	★ 2KJ1210 - ■ HK13 - ■■ Q1	P01	507
	D.168-LA132SP4E						
	4.2	12 417	1.1	341.61	★ 2KJ1210 - ■ HG13 - ■■ U1		507
	4.6	11 392	1.2	313.41	2KJ1210 - ■ HG13 - ■■ T1		507
	5.0	10 513	1.3	289.23	★ 2KJ1210 - ■ HG13 - ■■ S1		507
	5.4	9 752	1.4	268.29	2KJ1210 - ■ HG13 - ■■ R1		507
	5.7	9 199	1.5	253.08	★ 2KJ1210 - ■ HG13 - ■■ Q1		507
	6.1	8 605	1.6	236.72	2KJ1210 - ■ HG13 - ■■ P1		507
	6.9	7 651	1.8	210.49	★ 2KJ1210 - ■ HG13 - ■■ N1		507
	7.3	7 223	1.9	198.71	2KJ1210 - ■ HG13 - ■■ M1		507
	D.148-LA132SP4E						
	5.2	10 041	0.80	276.23	2KJ1208 - ■ HG13 - ■■ U1		336
	5.7	9 258	0.86	254.7	★ 2KJ1208 - ■ HG13 - ■■ T1		336
	6.1	8 580	0.93	236.05	2KJ1208 - ■ HG13 - ■■ S1		336

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
5.5	D.148-LA132SP4E						
	6.4	8 158	0.98	224.43	★ 2KJ1208 - ■ HG13 - ■■ R1		336
	6.9	7 625	1.0	209.76	2KJ1208 - ■ HG13 - ■■ Q1		336
	7.8	6 726	1.2	185.03	★ 2KJ1208 - ■ HG13 - ■■ P1		336
	8.3	6 344	1.3	174.53	2KJ1208 - ■ HG13 - ■■ N1		336
	9.2	5 684	1.4	156.38	★ 2KJ1208 - ■ HG13 - ■■ M1		336
	10.0	5 249	1.5	144.39	2KJ1208 - ■ HG13 - ■■ L1		336
	11.7	4 484	1.8	123.37	2KJ1208 - ■ HG13 - ■■ K1		336
	13.0	4 053	2.0	111.5	★ 2KJ1208 - ■ HG13 - ■■ J1		336
	13.5	3 905	2.0	107.42	2KJ1208 - ■ HG13 - ■■ H1		336
Z.148-LA132SP4E							
	25	2 090	2.2	57.5	2KJ1108 - ■ HG13 - ■■ B2		324
D.128-LA132SP4E							
	8.4	6 238	0.82	171.62	2KJ1207 - ■ HG13 - ■■ P1		246
	9.1	5 801	0.88	159.6	★ 2KJ1207 - ■ HG13 - ■■ N1		246
	9.7	5 416	0.94	148.99	2KJ1207 - ■ HG13 - ■■ M1		246
	10.8	4 845	1.1	133.3	★ 2KJ1207 - ■ HG13 - ■■ L1		246
	11.7	4 490	1.1	123.53	2KJ1207 - ■ HG13 - ■■ K1		246
	12.8	4 116	1.2	113.24	★ 2KJ1207 - ■ HG13 - ■■ J1		246
	13.9	3 773	1.4	103.8	2KJ1207 - ■ HG13 - ■■ H1		246
	16.3	3 215	1.6	88.46	2KJ1207 - ■ HG13 - ■■ G1		246
	18.5	2 837	1.8	78.06	★ 2KJ1207 - ■ HG13 - ■■ F1		246
	22	2 415	2.1	66.43	2KJ1207 - ■ HG13 - ■■ E1		246
	25	2 092	2.4	57.56	★ 2KJ1207 - ■ HG13 - ■■ D1		246
Z.128-LA132SP4E							
	33	1 606	2.0	44.19	★ 2KJ1107 - ■ HG13 - ■■ D2		237
	35	1 489	2.1	40.96	2KJ1107 - ■ HG13 - ■■ C2		237
D.108-LA132SP4E							
	13.8	3 820	0.81	105.08	★ 2KJ1206 - ■ HG13 - ■■ G1		169
	14.9	3 524	0.88	96.94	2KJ1206 - ■ HG13 - ■■ F1		169
	17.6	2 986	1.0	82.14	2KJ1206 - ■ HG13 - ■■ E1		169
	20	2 602	1.2	71.59	★ 2KJ1206 - ■ HG13 - ■■ D1		169
	24	2 214	1.4	60.9	2KJ1206 - ■ HG13 - ■■ C1		169
Z.108-LA132SP4E							
	30	1 759	1.8	48.38	★ 2KJ1106 - ■ HG13 - ■■ C2		165
	33	1 611	1.9	44.31	2KJ1106 - ■ HG13 - ■■ B2		165
	35	1 484	2.1	40.82	★ 2KJ1106 - ■ HG13 - ■■ A2		165
	38	1 374	2.3	37.79	2KJ1106 - ■ HG13 - ■■ X1		165
	41	1 277	2.4	35.14	★ 2KJ1106 - ■ HG13 - ■■ W1		165
	44	1 193	2.6	32.81	2KJ1106 - ■ HG13 - ■■ V1		165
D.88-LA132SP4E							
	25	2 106	0.80	57.93	2KJ1205 - ■ HG13 - ■■ D1		121
	29	1 796	0.94	49.42	★ 2KJ1205 - ■ HG13 - ■■ C1		121
	35	1 497	1.1	41.19	2KJ1205 - ■ HG13 - ■■ B1		121

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
5.5	Z.88-LA132SP4E						
	39	1 355	1.2	37.27	★ 2KJ1105 - ■ HG13 - ■■ W1		119
	42	1 238	1.4	34.07	2KJ1105 - ■ HG13 - ■■ V1		119
	46	1 138	1.5	31.32	★ 2KJ1105 - ■ HG13 - ■■ U1		119
	50	1 052	1.6	28.93	2KJ1105 - ■ HG13 - ■■ T1		119
	54	976	1.7	26.85	★ 2KJ1105 - ■ HG13 - ■■ S1		119
	58	909	1.8	25.01	2KJ1105 - ■ HG13 - ■■ R1		119
	64	822	2.0	22.61	★ 2KJ1105 - ■ HG13 - ■■ Q1		119
	69	756	2.2	20.81	2KJ1105 - ■ HG13 - ■■ P1		119
	77	680	2.5	18.72	★ 2KJ1105 - ■ HG13 - ■■ N1		119
	84	628	2.7	17.27	2KJ1105 - ■ HG13 - ■■ M1		119
	99	532	3.0	14.63	2KJ1105 - ■ HG13 - ■■ L1		119
	113	463	3.3	12.75	★ 2KJ1105 - ■ HG13 - ■■ K1		119
	133	394	3.7	10.85	2KJ1105 - ■ HG13 - ■■ J1		119
	325	162	4.9	4.45	★ 2KJ1105 - ■ HG13 - ■■ C1		119
	381	138	5.4	3.79	★ 2KJ1105 - ■ HG13 - ■■ B1		119
	Z.68-LA132SP4E						
	57	929	0.86	25.55	★ 2KJ1104 - ■ HG13 - ■■ R1		87
	61	855	0.94	23.53	2KJ1104 - ■ HG13 - ■■ Q1		87
	66	791	1.0	21.76	★ 2KJ1104 - ■ HG13 - ■■ P1		87
	72	734	1.1	20.2	2KJ1104 - ■ HG13 - ■■ N1		87
	81	648	1.2	17.82	★ 2KJ1104 - ■ HG13 - ■■ M1		87
	88	598	1.3	16.45	2KJ1104 - ■ HG13 - ■■ L1		87
	98	536	1.5	14.74	★ 2KJ1104 - ■ HG13 - ■■ K1		87
	106	494	1.6	13.59	2KJ1104 - ■ HG13 - ■■ J1		87
	127	414	1.9	11.4	2KJ1104 - ■ HG13 - ■■ H1		87
	149	354	2.1	9.73	★ 2KJ1104 - ■ HG13 - ■■ G1		87
	178	295	2.4	8.11	2KJ1104 - ■ HG13 - ■■ F1		87
	215	244	2.7	6.72	★ 2KJ1104 - ■ HG13 - ■■ E1		87
	244	216	2.3	5.93	2KJ1104 - ■ HG13 - ■■ D1		87
	286	184	2.6	5.06	★ 2KJ1104 - ■ HG13 - ■■ C1		87
	342	153	3.1	4.22	2KJ1104 - ■ HG13 - ■■ B1		87
	414	127	3.3	3.49	★ 2KJ1104 - ■ HG13 - ■■ A1		87
	Z.68-LA132SB2E						
	164	319	2.5	17.82	★ 2KJ1104 - ■ HF13 - ■■ M1	P00	79
	178	295	2.7	16.45	2KJ1104 - ■ HF13 - ■■ L1	P00	79
	199	264	3.0	14.74	★ 2KJ1104 - ■ HF13 - ■■ K1	P00	79
	216	244	3.3	13.59	2KJ1104 - ■ HF13 - ■■ J1	P00	79
	257	204	3.8	11.4	2KJ1104 - ■ HF13 - ■■ H1	P00	79
	301	174	4.3	9.73	★ 2KJ1104 - ■ HF13 - ■■ G1	P00	79
	361	145	4.8	8.11	2KJ1104 - ■ HF13 - ■■ F1	P00	79
	436	120	5.4	6.72	★ 2KJ1104 - ■ HF13 - ■■ E1	P00	79
	494	106	4.6	5.93	2KJ1104 - ■ HF13 - ■■ D1	P00	79
	579	91	5.3	5.06	★ 2KJ1104 - ■ HF13 - ■■ C1	P00	79

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
5.5	Z.68-LA132SB2E						
	694	76	6.2	4.22	2KJ1104 - ■ HF13 - ■■ B1	P00	79
	Z.48-LA132SP4E						
	108	486	0.84	13.38	★ 2KJ1103 - ■ HG13 - ■■ K1		70
	118	445	0.90	12.25	2KJ1103 - ■ HG13 - ■■ J1		70
	132	397	0.98	10.93	★ 2KJ1103 - ■ HG13 - ■■ H1		70
	148	355	1.1	9.76	2KJ1103 - ■ HG13 - ■■ G1		70
	174	301	1.2	8.29	2KJ1103 - ■ HG13 - ■■ F1		70
	209	251	1.4	6.9	★ 2KJ1103 - ■ HG13 - ■■ E1		70
	213	247	1.1	6.79	★ 2KJ1103 - ■ HG13 - ■■ D1		70
	238	220	1.2	6.06	2KJ1103 - ■ HG13 - ■■ C1		70
	281	187	1.4	5.15	2KJ1103 - ■ HG13 - ■■ B1		70
	338	156	1.7	4.28	★ 2KJ1103 - ■ HG13 - ■■ A1		70
	Z.48-LA132SB2E						
	153	343	1.3	19.13	★ 2KJ1103 - ■ HF13 - ■■ P1	P00	62
	167	315	1.4	17.55	2KJ1103 - ■ HF13 - ■■ N1	P00	62
	181	290	1.5	16.17	★ 2KJ1103 - ■ HF13 - ■■ M1	P00	62
	200	263	1.6	14.68	2KJ1103 - ■ HF13 - ■■ L1	P00	62
	219	240	1.7	13.38	★ 2KJ1103 - ■ HF13 - ■■ K1	P00	62
	239	220	1.8	12.25	2KJ1103 - ■ HF13 - ■■ J1	P00	62
	268	196	2.0	10.93	★ 2KJ1103 - ■ HF13 - ■■ H1	P00	62
	300	175	2.2	9.76	2KJ1103 - ■ HF13 - ■■ G1	P00	62
	353	149	2.4	8.29	2KJ1103 - ■ HF13 - ■■ F1	P00	62
	425	124	2.7	6.9	★ 2KJ1103 - ■ HF13 - ■■ E1	P00	62
	432	122	2.2	6.79	★ 2KJ1103 - ■ HF13 - ■■ D1	P00	62
	483	109	2.5	6.06	2KJ1103 - ■ HF13 - ■■ C1	P00	62
	569	92	2.9	5.15	2KJ1103 - ■ HF13 - ■■ B1	P00	62
	685	77	3.4	4.28	★ 2KJ1103 - ■ HF13 - ■■ A1	P00	62
	E.148-LA132SP4E						
	106	497	1.2	13.67	★ 2KJ1007 - ■ HG13 - ■■ U1		168
	115	456	1.3	12.54	2KJ1007 - ■ HG13 - ■■ T1		168
	125	421	1.6	11.57	★ 2KJ1007 - ■ HG13 - ■■ S1		168
	135	390	1.9	10.73	2KJ1007 - ■ HG13 - ■■ R1		168
	143	368	2.2	10.13	★ 2KJ1007 - ■ HG13 - ■■ Q1		168
	153	344	2.7	9.47	2KJ1007 - ■ HG13 - ■■ P1		168
	172	306	3.3	8.42	★ 2KJ1007 - ■ HG13 - ■■ N1		168
	182	289	3.7	7.95	2KJ1007 - ■ HG13 - ■■ M1		168
	202	260	4.3	7.14	★ 2KJ1007 - ■ HG13 - ■■ L1		168
	E.128-LA132SP4E						
	143	369	1.5	10.14	★ 2KJ1006 - ■ HG13 - ■■ T1		144
	154	342	1.7	9.4	2KJ1006 - ■ HG13 - ■■ S1		144
	162	325	2.0	8.94	★ 2KJ1006 - ■ HG13 - ■■ R1		144
	173	304	2.3	8.35	2KJ1006 - ■ HG13 - ■■ Q1		144
	196	268	3.0	7.37	★ 2KJ1006 - ■ HG13 - ■■ P1		144

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
5.5	E.128-LA132SP4E						
	208	253	3.5	6.95	2KJ1006 - ■ HG13 - ■■ N1		144
	232	226	4.1	6.23	★ 2KJ1006 - ■ HG13 - ■■ M1		144
	251	209	4.6	5.75	2KJ1006 - ■ HG13 - ■■ L1		144
	E.108-LA132SP4E						
	265	198	3.3	5.46	★ 2KJ1005 - ■ HG13 - ■■ K1		107
	289	182	3.7	5	2KJ1005 - ■ HG13 - ■■ J1		107
	339	155	4.6	4.26	2KJ1005 - ■ HG13 - ■■ H1		107
	E.88-LA132SP4E						
	172	306	0.80	8.42	★ 2KJ1004 - ■ HG13 - ■■ Q1		86
	188	280	0.88	7.69	2KJ1004 - ■ HG13 - ■■ P1		86
	204	257	1.1	7.07	★ 2KJ1004 - ■ HG13 - ■■ N1		86
	E.68-LA132SP4E						
	221	237	1.3	6.53	2KJ1004 - ■ HG13 - ■■ M1		86
	238	220	1.3	6.06	★ 2KJ1004 - ■ HG13 - ■■ L1		86
	256	205	1.6	5.65	2KJ1004 - ■ HG13 - ■■ K1		86
	E.48-LA132SP4E						
	283	186	2.0	5.11	★ 2KJ1004 - ■ HG13 - ■■ J1		86
	307	171	2.3	4.7	2KJ1004 - ■ HG13 - ■■ H1		86
	342	154	2.6	4.23	★ 2KJ1004 - ■ HG13 - ■■ G1		86
	E.68-LA132SP4E						
	371	142	2.7	3.9	2KJ1004 - ■ HG13 - ■■ F1		86
	438	120	3.8	3.3	2KJ1004 - ■ HG13 - ■■ E1		86
	502	105	4.2	2.88	★ 2KJ1004 - ■ HG13 - ■■ D1		86
	E.48-LA132SP4E						
	590	89	4.7	2.45	2KJ1004 - ■ HG13 - ■■ C1		86
	691	76	5.5	2.09	★ 2KJ1004 - ■ HG13 - ■■ B1		86
	845	62	5.7	1.71	★ 2KJ1004 - ■ HG13 - ■■ A1		86
	E.68-LA132SP4E						
	244	215	0.88	5.92	2KJ1003 - ■ HG13 - ■■ N1		69
	270	195	1.1	5.36	★ 2KJ1003 - ■ HG13 - ■■ M1		69
	293	179	1.3	4.93	2KJ1003 - ■ HG13 - ■■ L1		69
	E.48-LA132SP4E						
	317	166	1.3	4.56	★ 2KJ1003 - ■ HG13 - ■■ K1		69
	341	154	1.5	4.24	2KJ1003 - ■ HG13 - ■■ J1		69
	386	136	1.7	3.74	★ 2KJ1003 - ■ HG13 - ■■ H1		69
	E.48-LA132SP4E						
	419	125	1.9	3.45	2KJ1003 - ■ HG13 - ■■ G1		69
	468	112	2.2	3.09	★ 2KJ1003 - ■ HG13 - ■■ F1		69
	507	104	2.4	2.85	2KJ1003 - ■ HG13 - ■■ E1		69
	E.48-LA132SP4E						
	605	87	2.6	2.39	2KJ1003 - ■ HG13 - ■■ D1		69
	708	74	2.8	2.04	★ 2KJ1003 - ■ HG13 - ■■ C1		69
	850	62	2.8	1.7	2KJ1003 - ■ HG13 - ■■ B1		69
	E.48-LA132SP4E						
	1 025	51	2.9	1.41	★ 2KJ1003 - ■ HG13 - ■■ A1		69
	E.48-LA132SP4E						
	343	153	0.98	4.21	★ 2KJ1002 - ■ HG13 - ■■ K1		59
	373	141	1.1	3.87	2KJ1002 - ■ HG13 - ■■ J1		59
	406	129	1.1	3.56	★ 2KJ1002 - ■ HG13 - ■■ H1		59
	E.48-LA132SP4E						
	446	118	1.3	3.24	2KJ1002 - ■ HG13 - ■■ G1		59

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
5.5	E.48-LA132SP4E						
	490	107	1.6	2.95	★ 2KJ1002 - ■ HG13 - ■■ F1		59
	535	98	1.6	2.7	2KJ1002 - ■ HG13 - ■■ E1		59
	600	88	1.7	2.41	★ 2KJ1002 - ■ HG13 - ■■ D1		59
	672	78	1.7	2.15	2KJ1002 - ■ HG13 - ■■ C1		59
	790	66	1.7	1.83	2KJ1002 - ■ HG13 - ■■ B1		59
	951	55	1.8	1.52	★ 2KJ1002 - ■ HG13 - ■■ A1		59
7.5	D.188-Z68-LA132ZMP4E						
	2.7	24 896	0.80	546	2KJ1237 - ■ HK13 - ■■ D1		663
	D.188-LA160LB8						
	2.9	24 425	0.82	243.82	2KJ1211 - ■ JJ13 - ■■ N1	P02	688
	3.2	22 055	0.91	220.17	2KJ1211 - ■ JJ13 - ■■ M1	P02	688
	3.5	20 670	0.97	206.34	2KJ1211 - ■ JJ13 - ■■ L1	P02	688
	D.188-LA160MD6E						
	4.0	18 097	1.1	243.82	2KJ1211 - ■ JJ13 - ■■ N1	P01	688
	4.4	16 342	1.2	220.17	2KJ1211 - ■ JJ13 - ■■ M1	P01	688
	4.7	15 315	1.3	206.34	2KJ1211 - ■ JJ13 - ■■ L1	P01	688
	5.4	13 155	1.5	177.23	★ 2KJ1211 - ■ JJ13 - ■■ K1	P01	688
	D.188-LA132ZMP4E						
	6.0	12 002	1.7	243.82	2KJ1211 - ■ HK13 - ■■ N1		652
	6.6	10 838	1.8	220.17	2KJ1211 - ■ HK13 - ■■ M1		652
	7.1	10 157	2.0	206.34	2KJ1211 - ■ HK13 - ■■ L1		652
	D.168-LA132ZMP4E						
	4.3	16 816	0.83	341.61	★ 2KJ1210 - ■ HK13 - ■■ U1		507
	4.6	15 428	0.91	313.41	2KJ1210 - ■ HK13 - ■■ T1		507
	5.0	14 238	0.98	289.23	★ 2KJ1210 - ■ HK13 - ■■ S1		507
	5.4	13 207	1.1	268.29	2KJ1210 - ■ HK13 - ■■ R1		507
	5.7	12 458	1.1	253.08	★ 2KJ1210 - ■ HK13 - ■■ Q1		507
	6.1	11 653	1.2	236.72	2KJ1210 - ■ HK13 - ■■ P1		507
	6.9	10 362	1.4	210.49	★ 2KJ1210 - ■ HK13 - ■■ N1		507
	7.3	9 782	1.4	198.71	2KJ1210 - ■ HK13 - ■■ M1		507
	8.2	8 781	1.6	178.38	★ 2KJ1210 - ■ HK13 - ■■ L1		507
	8.9	8 059	1.7	163.72	2KJ1210 - ■ HK13 - ■■ K1		507
	10.3	6 955	2	141.28	2KJ1210 - ■ HK13 - ■■ J1		507
	D.148-LA132ZMP4E						
	7.9	9 108	0.88	185.03	★ 2KJ1208 - ■ HK13 - ■■ P1		336
	8.3	8 592	0.93	174.53	2KJ1208 - ■ HK13 - ■■ N1		336
	9.3	7 698	1.0	156.38	★ 2KJ1208 - ■ HK13 - ■■ M1		336
	10.1	7 108	1.1	144.39	2KJ1208 - ■ HK13 - ■■ L1		336
	11.8	6 073	1.3	123.37	2KJ1208 - ■ HK13 - ■■ K1		336
	13.0	5 489	1.5	111.5	★ 2KJ1208 - ■ HK13 - ■■ J1		336
	13.5	5 288	1.5	107.42	2KJ1208 - ■ HK13 - ■■ H1		336
	15.7	4 574	1.7	92.91	2KJ1208 - ■ HK13 - ■■ G1		336
	18.0	3 989	2.0	81.04	★ 2KJ1208 - ■ HK13 - ■■ F1		336

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
7.5	D.148-LA132ZMP4E						
	21	3 414	2.3	69.36	★ 2KJ1208 - ■ HK13 - ■■ E1		336
	Z.148-LA132ZMP4E						
	25	2 831	1.6	57.5	2KJ1108 - ■ HK13 - ■■ B2		324
	D.128-LA132ZMP4E						
	11.8	6 081	0.84	123.53	2KJ1207 - ■ HK13 - ■■ K1		246
	12.8	5 574	0.91	113.24	★ 2KJ1207 - ■ HK13 - ■■ J1		246
	14.0	5 110	1.0	103.8	2KJ1207 - ■ HK13 - ■■ H1		246
	16.4	4 355	1.2	88.46	2KJ1207 - ■ HK13 - ■■ G1		246
	18.6	3 843	1.3	78.06	★ 2KJ1207 - ■ HK13 - ■■ F1		246
	22	3 270	1.6	66.43	2KJ1207 - ■ HK13 - ■■ E1		246
	25	2 833	1.8	57.56	★ 2KJ1207 - ■ HK13 - ■■ D1		246
	30	2 385	2.1	48.44	★ 2KJ1207 - ■ HK13 - ■■ C1		246
	33	2 152	2.4	43.71	2KJ1207 - ■ HK13 - ■■ B1		246
	Z.128-LA132ZMP4E						
	33	2 175	1.5	44.19	★ 2KJ1107 - ■ HK13 - ■■ D2		237
	36	2 016	1.6	40.96	2KJ1107 - ■ HK13 - ■■ C2		237
	D.108-LA132ZMP4E						
	20	3 524	0.88	71.59	★ 2KJ1206 - ■ HK13 - ■■ D1		169
	24	2 998	1.0	60.9	2KJ1206 - ■ HK13 - ■■ C1		169
	Z.108-LA132ZMP4E						
	30	2 382	1.3	48.38	★ 2KJ1106 - ■ HK13 - ■■ C2		165
	33	2 181	1.4	44.31	2KJ1106 - ■ HK13 - ■■ B2		165
	36	2 009	1.5	40.82	★ 2KJ1106 - ■ HK13 - ■■ A2		165
	38	1 860	1.7	37.79	2KJ1106 - ■ HK13 - ■■ X1		165
	41	1 730	1.8	35.14	★ 2KJ1106 - ■ HK13 - ■■ W1		165
	44	1 615	1.9	32.81	2KJ1106 - ■ HK13 - ■■ V1		165
	50	1 445	2.1	29.35	★ 2KJ1106 - ■ HK13 - ■■ U1		165
	54	1 339	2.3	27.2	2KJ1106 - ■ HK13 - ■■ T1		165
	58	1 228	2.5	24.94	★ 2KJ1106 - ■ HK13 - ■■ S1		165
	64	1 125	2.8	22.86	2KJ1106 - ■ HK13 - ■■ R1		165
	75	959	3.2	19.48	2KJ1106 - ■ HK13 - ■■ Q1		165
	278	258	4.4	5.24	★ 2KJ1106 - ■ HK13 - ■■ D1		165
	D.88-LA132ZMP4E						
	35	2 028	0.83	41.19	2KJ1205 - ■ HK13 - ■■ B1		121
	Z.88-LA132ZMP4E						
	39	1 835	0.92	37.27	★ 2KJ1105 - ■ HK13 - ■■ W1		119
	43	1 677	1.0	34.07	2KJ1105 - ■ HK13 - ■■ V1		119
	46	1 542	1.1	31.32	★ 2KJ1105 - ■ HK13 - ■■ U1		119
	50	1 424	1.2	28.93	2KJ1105 - ■ HK13 - ■■ T1		119
	54	1 322	1.3	26.85	★ 2KJ1105 - ■ HK13 - ■■ S1		119
	58	1 231	1.4	25.01	2KJ1105 - ■ HK13 - ■■ R1		119
	64	1 113	1.5	22.61	★ 2KJ1105 - ■ HK13 - ■■ Q1		119
	70	1 024	1.6	20.81	2KJ1105 - ■ HK13 - ■■ P1		119

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
7.5	Z.88-LA132ZMP4E						
	78	922	1.8	18.72	★ 2KJ1105 - ■ HK13 - ■■ N1		119
	84	850	2.0	17.27	2KJ1105 - ■ HK13 - ■■ M1		119
	100	720	2.2	14.63	2KJ1105 - ■ HK13 - ■■ L1		119
	114	628	2.5	12.75	★ 2KJ1105 - ■ HK13 - ■■ K1		119
	134	534	2.8	10.85	2KJ1105 - ■ HK13 - ■■ J1		119
	157	456	3.0	9.26	★ 2KJ1105 - ■ HK13 - ■■ H1		119
	192	374	3.5	7.59	★ 2KJ1105 - ■ HK13 - ■■ G1		119
	209	343	3.7	6.96	2KJ1105 - ■ HK13 - ■■ F1		119
	245	292	4.1	5.94	★ 2KJ1105 - ■ HK13 - ■■ E1		119
	299	240	4.6	4.87	★ 2KJ1105 - ■ HK13 - ■■ D1		119
	327	219	3.7	4.45	★ 2KJ1105 - ■ HK13 - ■■ C1		119
	384	187	4.0	3.79	★ 2KJ1105 - ■ HK13 - ■■ B1		119
	468	153	4.3	3.11	★ 2KJ1105 - ■ HK13 - ■■ A1		119
	Z.88-LA132ZSD2E						
	157	458	3.7	18.72	★ 2KJ1105 - ■ HJ13 - ■■ N1	P00	119
	170	422	4.0	17.27	2KJ1105 - ■ HJ13 - ■■ M1	P00	119
	Z.68-LA132ZMP4E						
	72	994	0.80	20.2	2KJ1104 - ■ HK13 - ■■ N1		87
	82	877	0.91	17.82	★ 2KJ1104 - ■ HK13 - ■■ M1		87
	88	810	0.99	16.45	2KJ1104 - ■ HK13 - ■■ L1		87
	99	726	1.1	14.74	★ 2KJ1104 - ■ HK13 - ■■ K1		87
	107	669	1.2	13.59	2KJ1104 - ■ HK13 - ■■ J1		87
	128	561	1.4	11.4	2KJ1104 - ■ HK13 - ■■ H1		87
	150	479	1.6	9.73	★ 2KJ1104 - ■ HK13 - ■■ G1		87
	179	399	1.8	8.11	2KJ1104 - ■ HK13 - ■■ F1		87
	217	331	2.0	6.72	★ 2KJ1104 - ■ HK13 - ■■ E1		87
	245	292	1.7	5.93	2KJ1104 - ■ HK13 - ■■ D1		87
	288	249	1.9	5.06	★ 2KJ1104 - ■ HK13 - ■■ C1		87
	345	208	2.3	4.22	2KJ1104 - ■ HK13 - ■■ B1		87
	417	172	2.4	3.49	★ 2KJ1104 - ■ HK13 - ■■ A1		87
	Z.68-LA132ZSD2E						
	164	436	1.8	17.82	★ 2KJ1104 - ■ HJ13 - ■■ M1	P00	87
	178	402	2.0	16.45	2KJ1104 - ■ HJ13 - ■■ L1	P00	87
	199	360	2.2	14.74	★ 2KJ1104 - ■ HJ13 - ■■ K1	P00	87
	216	332	2.4	13.59	2KJ1104 - ■ HJ13 - ■■ J1	P00	87
	257	279	2.8	11.4	2KJ1104 - ■ HJ13 - ■■ H1	P00	87
	301	238	3.1	9.73	★ 2KJ1104 - ■ HJ13 - ■■ G1	P00	87
	361	198	3.5	8.11	2KJ1104 - ■ HJ13 - ■■ F1	P00	87
	436	164	4.0	6.72	★ 2KJ1104 - ■ HJ13 - ■■ E1	P00	87
	494	145	3.4	5.93	2KJ1104 - ■ HJ13 - ■■ D1	P00	87
	579	124	3.9	5.06	★ 2KJ1104 - ■ HJ13 - ■■ C1	P00	87
	694	103	4.6	4.22	2KJ1104 - ■ HJ13 - ■■ B1	P00	87
	840	85	4.9	3.49	★ 2KJ1104 - ■ HJ13 - ■■ A1	P00	87

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
7.5	Z.48-LA132ZMP4E						
	176	408	0.88	8.29	2KJ1103 - ■ HK13 - ■■ F1		70
	211	340	1.0	6.9	★ 2KJ1103 - ■ HK13 - ■■ E1		70
	214	334	0.81	6.79	★ 2KJ1103 - ■ HK13 - ■■ D1		70
	240	298	0.91	6.06	2KJ1103 - ■ HK13 - ■■ C1		70
	283	254	1.1	5.15	2KJ1103 - ■ HK13 - ■■ B1		70
	340	211	1.2	4.28	★ 2KJ1103 - ■ HK13 - ■■ A1		70
	Z.48-LA132ZSD2E						
	153	468	0.96	19.13	★ 2KJ1103 - ■ HJ13 - ■■ P1	P00	70
	167	429	1.0	17.55	2KJ1103 - ■ HJ13 - ■■ N1	P00	70
	181	395	1.1	16.17	★ 2KJ1103 - ■ HJ13 - ■■ M1	P00	70
	200	359	1.2	14.68	2KJ1103 - ■ HJ13 - ■■ L1	P00	70
	219	327	1.3	13.38	★ 2KJ1103 - ■ HJ13 - ■■ K1	P00	70
	239	299	1.3	12.25	2KJ1103 - ■ HJ13 - ■■ J1	P00	70
	268	267	1.5	10.93	★ 2KJ1103 - ■ HJ13 - ■■ H1	P00	70
	300	239	1.6	9.76	2KJ1103 - ■ HJ13 - ■■ G1	P00	70
	353	203	1.8	8.29	2KJ1103 - ■ HJ13 - ■■ F1	P00	70
	425	169	2.0	6.9	★ 2KJ1103 - ■ HJ13 - ■■ E1	P00	70
	432	166	1.6	6.79	★ 2KJ1103 - ■ HJ13 - ■■ D1	P00	70
	483	148	1.8	6.06	2KJ1103 - ■ HJ13 - ■■ C1	P00	70
	569	126	2.1	5.15	2KJ1103 - ■ HJ13 - ■■ B1	P00	70
	685	105	2.5	4.28	★ 2KJ1103 - ■ HJ13 - ■■ A1	P00	70
	E.148-LA132ZMP4E						
	106	673	0.89	13.67	★ 2KJ1007 - ■ HK13 - ■■ U1		168
	116	617	0.97	12.54	2KJ1007 - ■ HK13 - ■■ T1		168
	126	570	1.2	11.57	★ 2KJ1007 - ■ HK13 - ■■ S1		168
	136	528	1.4	10.73	2KJ1007 - ■ HK13 - ■■ R1		168
	144	499	1.6	10.13	★ 2KJ1007 - ■ HK13 - ■■ Q1		168
	154	466	2.0	9.47	2KJ1007 - ■ HK13 - ■■ P1		168
	173	414	2.4	8.42	★ 2KJ1007 - ■ HK13 - ■■ N1		168
	183	391	2.7	7.95	2KJ1007 - ■ HK13 - ■■ M1		168
	204	351	3.2	7.14	★ 2KJ1007 - ■ HK13 - ■■ L1		168
	222	322	3.6	6.55	2KJ1007 - ■ HK13 - ■■ K1		168
	E.128-LA132ZMP4E						
	143	499	1.1	10.14	★ 2KJ1006 - ■ HK13 - ■■ T1		144
	155	463	1.3	9.4	2KJ1006 - ■ HK13 - ■■ S1		144
	163	440	1.5	8.94	★ 2KJ1006 - ■ HK13 - ■■ R1		144
	174	411	1.7	8.35	2KJ1006 - ■ HK13 - ■■ Q1		144
	197	363	2.2	7.37	★ 2KJ1006 - ■ HK13 - ■■ P1		144
	209	342	2.6	6.95	2KJ1006 - ■ HK13 - ■■ N1		144
	234	307	3.0	6.23	★ 2KJ1006 - ■ HK13 - ■■ M1		144
	253	283	3.4	5.75	2KJ1006 - ■ HK13 - ■■ L1		144
	296	242	4.0	4.91	2KJ1006 - ■ HK13 - ■■ K1		144
	328	219	4.6	4.44	★ 2KJ1006 - ■ HK13 - ■■ J1		144

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
7.5	E.128-LA132ZMP4E						
	340	211	4.7	4.28	2KJ1006 - ■ HK13 - ■ ■ H1		144
	E.108-LA132ZMP4E						
	266	269	2.5	5.46 ★	2KJ1005 - ■ HK13 - ■ ■ K1		107
	291	246	2.8	5	2KJ1005 - ■ HK13 - ■ ■ J1		107
	342	210	3.4	4.26	2KJ1005 - ■ HK13 - ■ ■ H1		107
	387	185	3.2	3.76 ★	2KJ1005 - ■ HK13 - ■ ■ G1		107
	455	158	4.7	3.2	2KJ1005 - ■ HK13 - ■ ■ F1		107
	525	136	4.9	2.77 ★	2KJ1005 - ■ HK13 - ■ ■ E1		107
	624	115	5.9	2.33 ★	2KJ1005 - ■ HK13 - ■ ■ C1		107
	690	104	6.0	2.11	2KJ1005 - ■ HK13 - ■ ■ B1		107
	804	89	6.2	1.81 ★	2KJ1005 - ■ HK13 - ■ ■ A1		107
	E.88-LA132ZMP4E						
	206	348	0.83	7.07 ★	2KJ1004 - ■ HK13 - ■ ■ N1		86
	223	321	0.93	6.53	2KJ1004 - ■ HK13 - ■ ■ M1		86
	240	298	0.94	6.06 ★	2KJ1004 - ■ HK13 - ■ ■ L1		86
	258	278	1.2	5.65	2KJ1004 - ■ HK13 - ■ ■ K1		86
	285	252	1.5	5.11 ★	2KJ1004 - ■ HK13 - ■ ■ J1		86
	310	231	1.7	4.7	2KJ1004 - ■ HK13 - ■ ■ H1		86
	344	208	1.9	4.23 ★	2KJ1004 - ■ HK13 - ■ ■ G1		86
	373	192	2.0	3.9	2KJ1004 - ■ HK13 - ■ ■ F1		86
	441	162	2.8	3.3	2KJ1004 - ■ HK13 - ■ ■ E1		86
	505	142	3.1	2.88 ★	2KJ1004 - ■ HK13 - ■ ■ D1		86
	594	121	3.5	2.45	2KJ1004 - ■ HK13 - ■ ■ C1		86
	696	103	4.1	2.09 ★	2KJ1004 - ■ HK13 - ■ ■ B1		86
	851	84	4.2	1.71 ★	2KJ1004 - ■ HK13 - ■ ■ A1		86
	E.68-LA132ZMP4E						
	271	264	0.83	5.36 ★	2KJ1003 - ■ HK13 - ■ ■ M1		69
	295	243	0.93	4.93	2KJ1003 - ■ HK13 - ■ ■ L1		69
	319	224	0.98	4.56 ★	2KJ1003 - ■ HK13 - ■ ■ K1		69
	343	209	1.1	4.24	2KJ1003 - ■ HK13 - ■ ■ J1		69
	389	184	1.2	3.74 ★	2KJ1003 - ■ HK13 - ■ ■ H1		69
	422	170	1.4	3.45	2KJ1003 - ■ HK13 - ■ ■ G1		69
	471	152	1.6	3.09 ★	2KJ1003 - ■ HK13 - ■ ■ F1		69
	511	140	1.8	2.85	2KJ1003 - ■ HK13 - ■ ■ E1		69
	609	118	2.0	2.39	2KJ1003 - ■ HK13 - ■ ■ D1		69
	713	100	2.1	2.04 ★	2KJ1003 - ■ HK13 - ■ ■ C1		69
	856	84	2.1	1.7	2KJ1003 - ■ HK13 - ■ ■ B1		69
	1 032	69	2.2	1.41 ★	2KJ1003 - ■ HK13 - ■ ■ A1		69
	E.48-LA132ZMP4E						
	376	191	0.84	3.87	2KJ1002 - ■ HK13 - ■ ■ J1		59
	409	175	0.80	3.56 ★	2KJ1002 - ■ HK13 - ■ ■ H1		59
	449	159	0.94	3.24	2KJ1002 - ■ HK13 - ■ ■ G1		59
	493	145	1.2	2.95 ★	2KJ1002 - ■ HK13 - ■ ■ F1		59
	539	133	1.2	2.7	2KJ1002 - ■ HK13 - ■ ■ E1		59

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
9.2	D.188-LA160MB4E						
	6.0	14 723	1.4	243.82	2KJ1211 - ■JP13 - ■■N1		676
	6.6	13 295	1.5	220.17	2KJ1211 - ■JP13 - ■■M1		676
	7.1	12 460	1.6	206.34	2KJ1211 - ■JP13 - ■■L1		676
	8.2	10 702	1.9	177.23	★ 2KJ1211 - ■JP13 - ■■K1		676
	D.168-LA160MB4E						
	5.7	15 282	0.92	253.08	★ 2KJ1210 - ■JP13 - ■■Q1		531
	6.1	14 294	0.98	236.72	2KJ1210 - ■JP13 - ■■P1		531
	6.9	12 710	1.1	210.49	★ 2KJ1210 - ■JP13 - ■■N1		531
	7.3	11 999	1.2	198.71	2KJ1210 - ■JP13 - ■■M1		531
	8.2	10 771	1.3	178.38	★ 2KJ1210 - ■JP13 - ■■L1		531
	8.9	9 886	1.4	163.72	2KJ1210 - ■JP13 - ■■K1		531
	10.3	8 531	1.6	141.28	2KJ1210 - ■JP13 - ■■J1		531
	11.8	7 463	1.9	123.59	2KJ1210 - ■JP13 - ■■H1		531
	13.5	6 490	2.2	107.48	2KJ1210 - ■JP13 - ■■G1		531
	D.148-LA160MB4E						
	9.3	9 443	0.85	156.38	★ 2KJ1208 - ■JP13 - ■■M1		360
	10.1	8 719	0.92	144.39	2KJ1208 - ■JP13 - ■■L1		360
	11.8	7 450	1.1	123.37	2KJ1208 - ■JP13 - ■■K1		360
	13.0	6 733	1.2	111.5	★ 2KJ1208 - ■JP13 - ■■J1		360
	13.5	6 487	1.2	107.42	2KJ1208 - ■JP13 - ■■H1		360
	15.7	5 610	1.4	92.91	2KJ1208 - ■JP13 - ■■G1		360
	18.0	4 894	1.6	81.04	★ 2KJ1208 - ■JP13 - ■■F1		360
	21	4 188	1.9	69.36	★ 2KJ1208 - ■JP13 - ■■E1		360
	23	3 751	2.1	62.12	2KJ1208 - ■JP13 - ■■D1		360
	Z.148-LA160MB4E						
	27	3 275	2.4	54.24	★ 2KJ1108 - ■JP13 - ■■A2		348
	D.128-LA160MB4E						
	14.0	6 268	0.81	103.8	2KJ1207 - ■JP13 - ■■H1		270
	16.4	5 342	0.95	88.46	2KJ1207 - ■JP13 - ■■G1		270
	18.6	4 714	1.1	78.06	★ 2KJ1207 - ■JP13 - ■■F1		270
	22	4 011	1.3	66.43	2KJ1207 - ■JP13 - ■■E1		270
	25	3 476	1.5	57.56	★ 2KJ1207 - ■JP13 - ■■D1		270
	30	2 925	1.7	48.44	★ 2KJ1207 - ■JP13 - ■■C1		270
	33	2 639	1.9	43.71	2KJ1207 - ■JP13 - ■■B1		270
	Z.128-LA160MB4E						
	37	2 351	2.2	38.94	★ 2KJ1107 - ■JP13 - ■■B2		261
	40	2 197	2.3	36.39	2KJ1107 - ■JP13 - ■■A2		261
	45	1 939	2.6	32.11	★ 2KJ1107 - ■JP13 - ■■X1		261
	48	1 828	2.8	30.28	2KJ1107 - ■JP13 - ■■W1		261
	D.108-LA160MB4E						
	24	3 677	0.84	60.9	2KJ1206 - ■JP13 - ■■C1		193
	28	3 138	0.99	51.97	★ 2KJ1206 - ■JP13 - ■■B1		193
	34	2 573	1.2	42.61	★ 2KJ1206 - ■JP13 - ■■A1		193

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
9.2							
Z.108-LA160MB4E							
41	2 122	1.5	35.14	★	2KJ1106 - JP13 - W1		189
44	1 981	1.6	32.81		2KJ1106 - JP13 - V1		189
50	1 772	1.7	29.35	★	2KJ1106 - JP13 - U1		189
54	1 642	1.9	27.2		2KJ1106 - JP13 - T1		189
58	1 506	2.1	24.94	★	2KJ1106 - JP13 - S1		189
64	1 380	2.2	22.86		2KJ1106 - JP13 - R1		189
75	1 176	2.6	19.48		2KJ1106 - JP13 - Q1		189
85	1 038	3.0	17.19	★	2KJ1106 - JP13 - P1		189
100	883	3.5	14.63		2KJ1106 - JP13 - N1		189
205	429	4.2	7.1	★	2KJ1106 - JP13 - H1		189
227	387	4.5	6.41		2KJ1106 - JP13 - G1		189
278	316	3.6	5.24	★	2KJ1106 - JP13 - D1		189
330	266	4.3	4.41	★	2KJ1106 - JP13 - C1		189
366	240	4.7	3.98		2KJ1106 - JP13 - B1		189
425	207	5.2	3.42	★	2KJ1106 - JP13 - A1		189
Z.88-LA160MB4E							
54	1 621	1.0	26.85	★	2KJ1105 - JP13 - S1		143
58	1 510	1.1	25.01		2KJ1105 - JP13 - R1		143
64	1 365	1.2	22.61	★	2KJ1105 - JP13 - Q1		143
70	1 257	1.3	20.81		2KJ1105 - JP13 - P1		143
78	1 130	1.5	18.72	★	2KJ1105 - JP13 - N1		143
84	1 043	1.6	17.27		2KJ1105 - JP13 - M1		143
100	883	1.8	14.63		2KJ1105 - JP13 - L1		143
114	770	2.0	12.75	★	2KJ1105 - JP13 - K1		143
134	655	2.2	10.85		2KJ1105 - JP13 - J1		143
157	559	2.5	9.26	★	2KJ1105 - JP13 - H1		143
192	458	2.8	7.59	★	2KJ1105 - JP13 - G1		143
209	420	3.0	6.96		2KJ1105 - JP13 - F1		143
245	359	3.3	5.94	★	2KJ1105 - JP13 - E1		143
299	294	3.8	4.87	★	2KJ1105 - JP13 - D1		143
327	269	3.0	4.45	★	2KJ1105 - JP13 - C1		143
384	229	3.2	3.79	★	2KJ1105 - JP13 - B1		143
468	188	3.5	3.11	★	2KJ1105 - JP13 - A1		143
Z.68-LA160MB4E							
88	993	0.81	16.45		2KJ1104 - JP13 - L1		111
99	890	0.90	14.74	★	2KJ1104 - JP13 - K1		111
107	821	0.97	13.59		2KJ1104 - JP13 - J1		111
128	688	1.1	11.4		2KJ1104 - JP13 - H1		111
150	588	1.3	9.73	★	2KJ1104 - JP13 - G1		111
179	490	1.4	8.11		2KJ1104 - JP13 - F1		111
217	406	1.6	6.72	★	2KJ1104 - JP13 - E1		111
245	358	1.4	5.93		2KJ1104 - JP13 - D1		111
288	306	1.6	5.06	★	2KJ1104 - JP13 - C1		111

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
9.2	Z.68-LA160MB4E						
	345	255	1.8	4.22	2KJ1104 - ■JP13 - ■■B1		111
	417	211	2.0	3.49	★ 2KJ1104 - ■JP13 - ■■A1		111
	E.148-LA160MB4E						
	144	612	1.3	10.13	★ 2KJ1007 - ■JP13 - ■■Q1		192
	154	572	1.6	9.47	2KJ1007 - ■JP13 - ■■P1		192
	173	508	2.0	8.42	★ 2KJ1007 - ■JP13 - ■■N1		192
	183	480	2.2	7.95	2KJ1007 - ■JP13 - ■■M1		192
	204	431	2.6	7.14	★ 2KJ1007 - ■JP13 - ■■L1		192
	222	396	2.9	6.55	2KJ1007 - ■JP13 - ■■K1		192
	258	341	4.0	5.65	2KJ1007 - ■JP13 - ■■J1		192
	295	298	4.7	4.94	2KJ1007 - ■JP13 - ■■H1		192
	338	260	5.1	4.3	2KJ1007 - ■JP13 - ■■G1		192
	E.128-LA160MB4E						
	163	540	1.2	8.94	★ 2KJ1006 - ■JP13 - ■■R1		168
	174	504	1.4	8.35	2KJ1006 - ■JP13 - ■■Q1		168
	197	445	1.8	7.37	★ 2KJ1006 - ■JP13 - ■■P1		168
	209	420	2.1	6.95	2KJ1006 - ■JP13 - ■■N1		168
	234	376	2.5	6.23	★ 2KJ1006 - ■JP13 - ■■M1		168
	253	347	2.8	5.75	2KJ1006 - ■JP13 - ■■L1		168
	296	296	3.2	4.91	2KJ1006 - ■JP13 - ■■K1		168
	328	268	3.7	4.44	★ 2KJ1006 - ■JP13 - ■■J1		168
	340	258	3.9	4.28	2KJ1006 - ■JP13 - ■■H1		168
	393	223	4.5	3.7	2KJ1006 - ■JP13 - ■■G1		168
	450	195	5.1	3.23	★ 2KJ1006 - ■JP13 - ■■F1		168
	E.108-LA160MB4E						
	266	330	2.0	5.46	★ 2KJ1005 - ■JP13 - ■■K1		131
	291	302	2.3	5	2KJ1005 - ■JP13 - ■■J1		131
	342	257	2.8	4.26	2KJ1005 - ■JP13 - ■■H1		131
	387	227	2.6	3.76	★ 2KJ1005 - ■JP13 - ■■G1		131
	455	193	3.9	3.2	2KJ1005 - ■JP13 - ■■F1		131
	525	167	4.0	2.77	★ 2KJ1005 - ■JP13 - ■■E1		131
	624	141	4.8	2.33	★ 2KJ1005 - ■JP13 - ■■C1		131
	690	127	4.9	2.11	2KJ1005 - ■JP13 - ■■B1		131
	804	109	5.0	1.81	★ 2KJ1005 - ■JP13 - ■■A1		131
	E.88-LA160MB4E						
	258	341	0.94	5.65	2KJ1004 - ■JP13 - ■■K1		110
	285	309	1.2	5.11	★ 2KJ1004 - ■JP13 - ■■J1		110
	310	284	1.4	4.7	2KJ1004 - ■JP13 - ■■H1		110
	344	255	1.6	4.23	★ 2KJ1004 - ■JP13 - ■■G1		110
	373	236	1.6	3.9	2KJ1004 - ■JP13 - ■■F1		110
	441	199	2.3	3.3	2KJ1004 - ■JP13 - ■■E1		110
	505	174	2.5	2.88	★ 2KJ1004 - ■JP13 - ■■D1		110
	594	148	2.8	2.45	2KJ1004 - ■JP13 - ■■C1		110

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
9.2	E.88-LA160MB4E						
	696	126	3.3	2.09	★ 2KJ1004 - ■JP13 - ■■B1		110
	851	103	3.4	1.71	★ 2KJ1004 - ■JP13 - ■■A1		110
	E.68-LA160MB4E						
	319	275	0.8	4.56	★ 2KJ1003 - ■JP13 - ■■K1		93
	343	256	0.9	4.24	2KJ1003 - ■JP13 - ■■J1		93
	389	226	1.0	3.74	★ 2KJ1003 - ■JP13 - ■■H1		93
	422	208	1.2	3.45	2KJ1003 - ■JP13 - ■■G1		93
	471	187	1.3	3.09	★ 2KJ1003 - ■JP13 - ■■F1		93
	511	172	1.5	2.85	2KJ1003 - ■JP13 - ■■E1		93
	609	144	1.6	2.39	2KJ1003 - ■JP13 - ■■D1		93
	713	123	1.7	2.04	★ 2KJ1003 - ■JP13 - ■■C1		93
	856	103	1.7	1.7	2KJ1003 - ■JP13 - ■■B1		93
	1 032	85	1.8	1.41	★ 2KJ1003 - ■JP13 - ■■A1		93
11	D.188-LA160ZLP6E						
	4.4	24 093	0.83	220.17	2KJ1211 - ■JT13 - ■■M1	P01	688
	4.7	22 579	0.89	206.34	2KJ1211 - ■JT13 - ■■L1	P01	688
	5.4	19 394	1.0	177.23	★ 2KJ1211 - ■JT13 - ■■K1	P01	688
	D.188-LA160MP4E						
	6.0	17 543	1.1	243.82	2KJ1211 - ■JQ13 - ■■N1		676
	6.6	15 842	1.3	220.17	2KJ1211 - ■JQ13 - ■■M1		676
	7.1	14 847	1.3	206.34	2KJ1211 - ■JQ13 - ■■L1		676
	8.2	12 752	1.6	177.23	★ 2KJ1211 - ■JQ13 - ■■K1		676
	9.5	11 017	1.8	153.12	2KJ1211 - ■JQ13 - ■■J1		676
	10.8	9 725	2.1	135.16	2KJ1211 - ■JQ13 - ■■H1		676
	D.168-LA160MP4E						
	6.2	17 032	0.82	236.72	2KJ1210 - ■JQ13 - ■■P1		531
	6.9	15 145	0.92	210.49	★ 2KJ1210 - ■JQ13 - ■■N1		531
	7.3	14 298	0.98	198.71	2KJ1210 - ■JQ13 - ■■M1		531
	8.2	12 835	1.1	178.38	★ 2KJ1210 - ■JQ13 - ■■L1		531
	8.9	11 780	1.2	163.72	2KJ1210 - ■JQ13 - ■■K1		531
	10.3	10 165	1.4	141.28	2KJ1210 - ■JQ13 - ■■J1		531
	11.8	8 893	1.6	123.59	2KJ1210 - ■JQ13 - ■■H1		531
	13.6	7 733	1.8	107.48	2KJ1210 - ■JQ13 - ■■G1		531
	15.5	6 785	2.1	94.3	★ 2KJ1210 - ■JQ13 - ■■F1		531
	D.148-LA160MP4E						
	11.8	8 877	0.9	123.37	2KJ1208 - ■JQ13 - ■■K1		360
	13.1	8 023	1.0	111.5	★ 2KJ1208 - ■JQ13 - ■■J1		360
	13.6	7 729	1.0	107.42	2KJ1208 - ■JQ13 - ■■H1		360
	15.7	6 685	1.2	92.91	2KJ1208 - ■JQ13 - ■■G1		360
	18.0	5 831	1.4	81.04	★ 2KJ1208 - ■JQ13 - ■■F1		360
	21	4 991	1.6	69.36	★ 2KJ1208 - ■JQ13 - ■■E1		360
	24	4 470	1.8	62.12	2KJ1208 - ■JQ13 - ■■D1		360

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
11	Z.148-LA160MP4E						
	27	3 903	2.0	54.24	★ 2KJ1108 - ■ JQ13 - ■■ A2		348
	29	3 651	2.2	50.74	2KJ1108 - ■ JQ13 - ■■ X1		348
	32	3 246	2.5	45.11	★ 2KJ1108 - ■ JQ13 - ■■ W1		348
	34	3 064	2.6	42.59	2KJ1108 - ■ JQ13 - ■■ V1		348
	D.128-LA160MP4E						
	16.5	6 365	0.80	88.46	2KJ1207 - ■ JQ13 - ■■ G1		270
	18.7	5 617	0.91	78.06	★ 2KJ1207 - ■ JQ13 - ■■ F1		270
	22	4 780	1.1	66.43	2KJ1207 - ■ JQ13 - ■■ E1		270
	25	4 142	1.2	57.56	★ 2KJ1207 - ■ JQ13 - ■■ D1		270
	30	3 485	1.5	48.44	★ 2KJ1207 - ■ JQ13 - ■■ C1		270
	33	3 145	1.6	43.71	2KJ1207 - ■ JQ13 - ■■ B1		270
	Z.128-LA160MP4E						
	38	2 802	1.8	38.94	★ 2KJ1107 - ■ JQ13 - ■■ B2		261
	40	2 618	1.9	36.39	2KJ1107 - ■ JQ13 - ■■ A2		261
	46	2 310	2.2	32.11	★ 2KJ1107 - ■ JQ13 - ■■ X1		261
	48	2 179	2.3	30.28	2KJ1107 - ■ JQ13 - ■■ W1		261
	54	1 952	2.6	27.13	★ 2KJ1107 - ■ JQ13 - ■■ V1		261
	58	1 802	2.8	25.05	2KJ1107 - ■ JQ13 - ■■ U1		261
	D.108-LA160MP4E						
	28	3 739	0.83	51.97	★ 2KJ1206 - ■ JQ13 - ■■ B1		193
	34	3 066	1.0	42.61	★ 2KJ1206 - ■ JQ13 - ■■ A1		193
	Z.108-LA160MP4E						
	42	2 528	1.2	35.14	★ 2KJ1106 - ■ JQ13 - ■■ W1		189
	44	2 361	1.3	32.81	2KJ1106 - ■ JQ13 - ■■ V1		189
	50	2 112	1.5	29.35	★ 2KJ1106 - ■ JQ13 - ■■ U1		189
	54	1 957	1.6	27.2	2KJ1106 - ■ JQ13 - ■■ T1		189
	58	1 794	1.7	24.94	★ 2KJ1106 - ■ JQ13 - ■■ S1		189
	64	1 645	1.9	22.86	2KJ1106 - ■ JQ13 - ■■ R1		189
	75	1 402	2.2	19.48	2KJ1106 - ■ JQ13 - ■■ Q1		189
	85	1 237	2.5	17.19	★ 2KJ1106 - ■ JQ13 - ■■ P1		189
	100	1 053	2.9	14.63	2KJ1106 - ■ JQ13 - ■■ N1		189
	115	912	3.4	12.68	★ 2KJ1106 - ■ JQ13 - ■■ M1		189
	206	511	3.5	7.1	★ 2KJ1106 - ■ JQ13 - ■■ H1		189
	228	461	3.8	6.41	2KJ1106 - ■ JQ13 - ■■ G1		189
	265	396	4.3	5.51	★ 2KJ1106 - ■ JQ13 - ■■ E1		189
	279	377	3.0	5.24	★ 2KJ1106 - ■ JQ13 - ■■ D1		189
	331	317	3.6	4.41	★ 2KJ1106 - ■ JQ13 - ■■ C1		189
	367	286	3.9	3.98	2KJ1106 - ■ JQ13 - ■■ B1		189
	427	246	4.4	3.42	★ 2KJ1106 - ■ JQ13 - ■■ A1		189
	Z.88-LA160MP4E						
	54	1 932	0.87	26.85	★ 2KJ1105 - ■ JQ13 - ■■ S1		143
	58	1 800	0.93	25.01	2KJ1105 - ■ JQ13 - ■■ R1		143
	65	1 627	1.0	22.61	★ 2KJ1105 - ■ JQ13 - ■■ Q1		143

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
11	Z.88-LA160MP4E						
	70	1 497	1.1	20.81	2KJ1105 - ■ JQ13 - ■■ P1		143
	78	1 347	1.2	18.72	★ 2KJ1105 - ■ JQ13 - ■■ N1		143
	84	1 243	1.4	17.27	2KJ1105 - ■ JQ13 - ■■ M1		143
	100	1 053	1.5	14.63	2KJ1105 - ■ JQ13 - ■■ L1		143
	115	917	1.7	12.75	★ 2KJ1105 - ■ JQ13 - ■■ K1		143
	135	781	1.9	10.85	2KJ1105 - ■ JQ13 - ■■ J1		143
	158	666	2.1	9.26	★ 2KJ1105 - ■ JQ13 - ■■ H1		143
	192	546	2.4	7.59	★ 2KJ1105 - ■ JQ13 - ■■ G1		143
	210	501	2.5	6.96	2KJ1105 - ■ JQ13 - ■■ F1		143
	246	427	2.8	5.94	★ 2KJ1105 - ■ JQ13 - ■■ E1		143
	300	350	3.2	4.87	★ 2KJ1105 - ■ JQ13 - ■■ D1		143
	328	320	2.5	4.45	★ 2KJ1105 - ■ JQ13 - ■■ C1		143
	385	273	2.7	3.79	★ 2KJ1105 - ■ JQ13 - ■■ B1		143
	469	224	2.9	3.11	★ 2KJ1105 - ■ JQ13 - ■■ A1		143
	Z.68-LA160MP4E						
	107	978	0.82	13.59	2KJ1104 - ■ JQ13 - ■■ J1		111
	128	820	0.96	11.4	2KJ1104 - ■ JQ13 - ■■ H1		111
	150	700	1.1	9.73	★ 2KJ1104 - ■ JQ13 - ■■ G1		111
	180	584	1.2	8.11	2KJ1104 - ■ JQ13 - ■■ F1		111
	217	484	1.3	6.72	★ 2KJ1104 - ■ JQ13 - ■■ E1		111
	246	427	1.1	5.93	2KJ1104 - ■ JQ13 - ■■ D1		111
	289	364	1.3	5.06	★ 2KJ1104 - ■ JQ13 - ■■ C1		111
	346	304	1.5	4.22	2KJ1104 - ■ JQ13 - ■■ B1		111
	418	251	1.7	3.49	★ 2KJ1104 - ■ JQ13 - ■■ A1		111
	E.148-LA160MP4E						
	144	729	1.1	10.13	★ 2KJ1007 - ■ JQ13 - ■■ Q1		192
	154	681	1.4	9.47	2KJ1007 - ■ JQ13 - ■■ P1		192
	173	606	1.7	8.42	★ 2KJ1007 - ■ JQ13 - ■■ N1		192
	184	572	1.9	7.95	2KJ1007 - ■ JQ13 - ■■ M1		192
	204	514	2.2	7.14	★ 2KJ1007 - ■ JQ13 - ■■ L1		192
	223	471	2.4	6.55	2KJ1007 - ■ JQ13 - ■■ K1		192
	258	407	3.3	5.65	2KJ1007 - ■ JQ13 - ■■ J1		192
	296	355	3.9	4.94	2KJ1007 - ■ JQ13 - ■■ H1		192
	340	309	4.3	4.3	2KJ1007 - ■ JQ13 - ■■ G1		192
	387	271	5.0	3.77	★ 2KJ1007 - ■ JQ13 - ■■ F1		192
	E.128-LA160MP4E						
	163	643	0.99	8.94	★ 2KJ1006 - ■ JQ13 - ■■ R1		168
	175	601	1.2	8.35	2KJ1006 - ■ JQ13 - ■■ Q1		168
	198	530	1.5	7.37	★ 2KJ1006 - ■ JQ13 - ■■ P1		168
	210	500	1.8	6.95	2KJ1006 - ■ JQ13 - ■■ N1		168
	234	448	2.1	6.23	★ 2KJ1006 - ■ JQ13 - ■■ M1		168
	254	414	2.3	5.75	2KJ1006 - ■ JQ13 - ■■ L1		168
	297	353	2.7	4.91	2KJ1006 - ■ JQ13 - ■■ K1		168

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
11	E.128-LA160MP4E						
	329	319	3.1	4.44	★ 2KJ1006 - ■ JQ13 - ■■ J1		168
	341	308	3.2	4.28	2KJ1006 - ■ JQ13 - ■■ H1		168
	395	266	3.8	3.7	2KJ1006 - ■ JQ13 - ■■ G1		168
	452	232	4.3	3.23	★ 2KJ1006 - ■ JQ13 - ■■ F1		168
	529	199	5.0	2.76	★ 2KJ1006 - ■ JQ13 - ■■ E1		168
	591	178	5.3	2.47	2KJ1006 - ■ JQ13 - ■■ D1		168
	695	151	5.7	2.1	★ 2KJ1006 - ■ JQ13 - ■■ C1		168
	807	130	6.1	1.81	2KJ1006 - ■ JQ13 - ■■ B1		168
	E.108-LA160MP4E						
	267	393	1.7	5.46	★ 2KJ1005 - ■ JQ13 - ■■ K1		131
	292	360	1.9	5	2KJ1005 - ■ JQ13 - ■■ J1		131
	343	307	2.3	4.26	2KJ1005 - ■ JQ13 - ■■ H1		131
	388	271	2.2	3.76	★ 2KJ1005 - ■ JQ13 - ■■ G1		131
	456	230	3.2	3.2	2KJ1005 - ■ JQ13 - ■■ F1		131
	527	199	3.4	2.77	★ 2KJ1005 - ■ JQ13 - ■■ E1		131
	627	168	4.1	2.33	★ 2KJ1005 - ■ JQ13 - ■■ C1		131
	692	152	4.1	2.11	2KJ1005 - ■ JQ13 - ■■ B1		131
	807	130	4.2	1.81	★ 2KJ1005 - ■ JQ13 - ■■ A1		131
	E.88-LA160MP4E						
	286	368	1.0	5.11	★ 2KJ1004 - ■ JQ13 - ■■ J1		110
	311	338	1.1	4.7	2KJ1004 - ■ JQ13 - ■■ H1		110
	345	304	1.3	4.23	★ 2KJ1004 - ■ JQ13 - ■■ G1		110
	374	281	1.4	3.9	2KJ1004 - ■ JQ13 - ■■ F1		110
	442	237	1.9	3.3	2KJ1004 - ■ JQ13 - ■■ E1		110
	507	207	2.1	2.88	★ 2KJ1004 - ■ JQ13 - ■■ D1		110
	596	176	2.4	2.45	2KJ1004 - ■ JQ13 - ■■ C1		110
	699	150	2.8	2.09	★ 2KJ1004 - ■ JQ13 - ■■ B1		110
	854	123	2.9	1.71	★ 2KJ1004 - ■ JQ13 - ■■ A1		110
	E.68-LA160MP4E						
	390	269	0.85	3.74	★ 2KJ1003 - ■ JQ13 - ■■ H1		93
	423	248	0.97	3.45	2KJ1003 - ■ JQ13 - ■■ G1		93
	472	222	1.1	3.09	★ 2KJ1003 - ■ JQ13 - ■■ F1		93
	512	205	1.2	2.85	2KJ1003 - ■ JQ13 - ■■ E1		93
	1 035	101	1.5	1.41	★ 2KJ1003 - ■ JQ13 - ■■ A1		93
15	D.188-LA160ZLP4E						
	6.0	23 923	0.84	243.82	2KJ1211 - ■ JT13 - ■■ N1		688
	6.6	21 602	0.93	220.17	2KJ1211 - ■ JT13 - ■■ M1		688
	7.1	20 245	0.99	206.34	2KJ1211 - ■ JT13 - ■■ L1		688
	8.2	17 389	1.2	177.23	★ 2KJ1211 - ■ JT13 - ■■ K1		688
	9.5	15 024	1.3	153.12	2KJ1211 - ■ JT13 - ■■ J1		688
	10.8	13 261	1.5	135.16	2KJ1211 - ■ JT13 - ■■ H1		688
	12.0	11 938	1.7	121.67	★ 2KJ1211 - ■ JT13 - ■■ G1		688
	14.5	9 906	2.0	100.96	★ 2KJ1211 - ■ JT13 - ■■ F1		688

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
15	D.188-LA160ZLP4E						
	15.9	9 033	2.2	92.06	2KJ1211 - ■ JT13 - ■ ■ E1		688
	D.168-LA160ZLP4E						
	8.2	17 502	0.8	178.38	★ 2KJ1210 - ■ JT13 - ■ ■ L1		543
	8.9	16 064	0.87	163.72	2KJ1210 - ■ JT13 - ■ ■ K1		543
	10.3	13 862	1.0	141.28	2KJ1210 - ■ JT13 - ■ ■ J1		543
	11.8	12 126	1.2	123.59	2KJ1210 - ■ JT13 - ■ ■ H1		543
	13.6	10 546	1.3	107.48	2KJ1210 - ■ JT13 - ■ ■ G1		543
	15.5	9 252	1.5	94.3	★ 2KJ1210 - ■ JT13 - ■ ■ F1		543
	18.3	7 825	1.8	79.75	★ 2KJ1210 - ■ JT13 - ■ ■ E1		543
	20	7 100	2.0	72.36	2KJ1210 - ■ JT13 - ■ ■ D1		543
	23	6 189	2.3	63.08	★ 2KJ1210 - ■ JT13 - ■ ■ C1		543
	Z.168-LA160ZLP4E						
	31	4 573	2.2	46.61	2KJ1110 - ■ JT13 - ■ ■ V1		524
	D.148-LA160ZLP4E						
	15.7	9 116	0.88	92.91	2KJ1208 - ■ JT13 - ■ ■ G1		372
	18	7 951	1.0	81.04	★ 2KJ1208 - ■ JT13 - ■ ■ F1		372
	21	6 805	1.2	69.36	★ 2KJ1208 - ■ JT13 - ■ ■ E1		372
	24	6 095	1.3	62.12	2KJ1208 - ■ JT13 - ■ ■ D1		372
	Z.148-LA160ZLP4E						
	27	5 322	1.5	54.24	★ 2KJ1108 - ■ JT13 - ■ ■ A2		360
	29	4 978	1.6	50.74	2KJ1108 - ■ JT13 - ■ ■ X1		360
	32	4 426	1.8	45.11	★ 2KJ1108 - ■ JT13 - ■ ■ W1		360
	34	4 179	1.9	42.59	2KJ1108 - ■ JT13 - ■ ■ V1		360
	38	3 751	2.1	38.23	★ 2KJ1108 - ■ JT13 - ■ ■ U1		360
	42	3 443	2.3	35.09	2KJ1108 - ■ JT13 - ■ ■ T1		360
	48	2 971	2.7	30.28	2KJ1108 - ■ JT13 - ■ ■ S1		360
	D.128-LA160ZLP4E						
	25	5 648	0.9	57.56	★ 2KJ1207 - ■ JT13 - ■ ■ D1		282
	30	4 753	1.1	48.44	★ 2KJ1207 - ■ JT13 - ■ ■ C1		282
	33	4 289	1.2	43.71	2KJ1207 - ■ JT13 - ■ ■ B1		282
	Z.128-LA160ZLP4E						
	38	3 821	1.3	38.94	★ 2KJ1107 - ■ JT13 - ■ ■ B2		273
	40	3 570	1.4	36.39	2KJ1107 - ■ JT13 - ■ ■ A2		273
	46	3 151	1.6	32.11	★ 2KJ1107 - ■ JT13 - ■ ■ X1		273
	48	2 971	1.7	30.28	2KJ1107 - ■ JT13 - ■ ■ W1		273
	54	2 662	1.9	27.13	★ 2KJ1107 - ■ JT13 - ■ ■ V1		273
	58	2 458	2.1	25.05	2KJ1107 - ■ JT13 - ■ ■ U1		273
	68	2 101	2.4	21.41	2KJ1107 - ■ JT13 - ■ ■ T1		273
	76	1 899	2.7	19.35	★ 2KJ1107 - ■ JT13 - ■ ■ S1		273
	78	1 829	2.8	18.64	2KJ1107 - ■ JT13 - ■ ■ R1		273
	91	1 582	3.2	16.12	2KJ1107 - ■ JT13 - ■ ■ Q1		273
	104	1 380	3.5	14.06	★ 2KJ1107 - ■ JT13 - ■ ■ P1		273
	200	715	3.6	7.29	★ 2KJ1107 - ■ JT13 - ■ ■ J1		273

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
15	Z.128-LA160ZLP4E						
	234	612	4.1	6.24	★ 2KJ1107 - ■ JT13 - ■■ H1		273
	261	548	4.8	5.59	★ 2KJ1107 - ■ JT13 - ■■ F1		273
	Z.108-LA160ZLP4E						
	42	3 448	0.90	35.14	★ 2KJ1106 - ■ JT13 - ■■ W1		201
	44	3 219	0.96	32.81	2KJ1106 - ■ JT13 - ■■ V1		201
	50	2 880	1.1	29.35	★ 2KJ1106 - ■ JT13 - ■■ U1		201
	54	2 669	1.2	27.2	2KJ1106 - ■ JT13 - ■■ T1		201
	58	2 447	1.3	24.94	★ 2KJ1106 - ■ JT13 - ■■ S1		201
	64	2 243	1.4	22.86	2KJ1106 - ■ JT13 - ■■ R1		201
	75	1 911	1.6	19.48	2KJ1106 - ■ JT13 - ■■ Q1		201
	85	1 687	1.8	17.19	★ 2KJ1106 - ■ JT13 - ■■ P1		201
	100	1 435	2.2	14.63	2KJ1106 - ■ JT13 - ■■ N1		201
	115	1 244	2.5	12.68	★ 2KJ1106 - ■ JT13 - ■■ M1		201
	137	1 047	3.0	10.67	★ 2KJ1106 - ■ JT13 - ■■ L1		201
	152	944	3.3	9.62	2KJ1106 - ■ JT13 - ■■ K1		201
	177	811	3.8	8.27	★ 2KJ1106 - ■ JT13 - ■■ J1		201
	206	697	2.6	7.1	★ 2KJ1106 - ■ JT13 - ■■ H1		201
	228	629	2.8	6.41	2KJ1106 - ■ JT13 - ■■ G1		201
	265	541	3.1	5.51	★ 2KJ1106 - ■ JT13 - ■■ E1		201
	279	514	2.2	5.24	★ 2KJ1106 - ■ JT13 - ■■ D1		201
	331	433	2.6	4.41	★ 2KJ1106 - ■ JT13 - ■■ C1		201
	367	391	2.9	3.98	2KJ1106 - ■ JT13 - ■■ B1		201
	427	336	3.2	3.42	★ 2KJ1106 - ■ JT13 - ■■ A1		201
	Z.88-LA160ZLP4E						
	70	2 042	0.82	20.81	2KJ1105 - ■ JT13 - ■■ P1		155
	78	1 837	0.91	18.72	★ 2KJ1105 - ■ JT13 - ■■ N1		155
	84	1 694	0.99	17.27	2KJ1105 - ■ JT13 - ■■ M1		155
	100	1 435	1.1	14.63	2KJ1105 - ■ JT13 - ■■ L1		155
	115	1 251	1.2	12.75	★ 2KJ1105 - ■ JT13 - ■■ K1		155
	135	1 065	1.4	10.85	2KJ1105 - ■ JT13 - ■■ J1		155
	158	909	1.5	9.26	★ 2KJ1105 - ■ JT13 - ■■ H1		155
	192	745	1.7	7.59	★ 2KJ1105 - ■ JT13 - ■■ G1		155
	210	683	1.8	6.96	2KJ1105 - ■ JT13 - ■■ F1		155
	246	583	2.0	5.94	★ 2KJ1105 - ■ JT13 - ■■ E1		155
	300	478	2.3	4.87	★ 2KJ1105 - ■ JT13 - ■■ D1		155
	328	437	1.8	4.45	★ 2KJ1105 - ■ JT13 - ■■ C1		155
	385	372	2.0	3.79	★ 2KJ1105 - ■ JT13 - ■■ B1		155
	469	305	2.2	3.11	★ 2KJ1105 - ■ JT13 - ■■ A1		155
	Z.68-LA160ZLP4E						
	180	796	0.88	8.11	2KJ1104 - ■ JT13 - ■■ F1		123
	217	659	0.99	6.72	★ 2KJ1104 - ■ JT13 - ■■ E1		123
	246	582	0.84	5.93	2KJ1104 - ■ JT13 - ■■ D1		123
	289	496	0.97	5.06	★ 2KJ1104 - ■ JT13 - ■■ C1		123

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
15	Z.68-LA160ZLP4E						
	346	414	1.1	4.22	2KJ1104 - ■ JT13 - ■■ B1		123
	418	342	1.2	3.49	★ 2KJ1104 - ■ JT13 - ■■ A1		123
	E.148-LA160ZLP4E						
	144	994	0.80	10.13	★ 2KJ1007 - ■ JT13 - ■■ Q1		204
	154	929	0.99	9.47	2KJ1007 - ■ JT13 - ■■ P1		204
	173	826	1.2	8.42	★ 2KJ1007 - ■ JT13 - ■■ N1		204
	184	780	1.4	7.95	2KJ1007 - ■ JT13 - ■■ M1		204
	204	701	1.6	7.14	★ 2KJ1007 - ■ JT13 - ■■ L1		204
	223	643	1.8	6.55	2KJ1007 - ■ JT13 - ■■ K1		204
	258	554	2.5	5.65	2KJ1007 - ■ JT13 - ■■ J1		204
	296	485	2.9	4.94	2KJ1007 - ■ JT13 - ■■ H1		204
	340	422	3.2	4.3	2KJ1007 - ■ JT13 - ■■ G1		204
	387	370	3.6	3.77	★ 2KJ1007 - ■ JT13 - ■■ F1		204
	458	313	5.0	3.19	★ 2KJ1007 - ■ JT13 - ■■ E1		204
	503	285	4.9	2.9	2KJ1007 - ■ JT13 - ■■ D1		204
	579	247	4.9	2.52	★ 2KJ1007 - ■ JT13 - ■■ C1		204
	682	210	5.7	2.14	2KJ1007 - ■ JT13 - ■■ B1		204
	890	161	6.0	1.64	★ 2KJ1007 - ■ JT13 - ■■ A1		204
	E.128-LA160ZLP4E						
	175	819	0.87	8.35	2KJ1006 - ■ JT13 - ■■ Q1		180
	198	723	1.1	7.37	★ 2KJ1006 - ■ JT13 - ■■ P1		180
	210	682	1.3	6.95	2KJ1006 - ■ JT13 - ■■ N1		180
	234	611	1.5	6.23	★ 2KJ1006 - ■ JT13 - ■■ M1		180
	254	564	1.7	5.75	2KJ1006 - ■ JT13 - ■■ L1		180
	297	482	2.0	4.91	2KJ1006 - ■ JT13 - ■■ K1		180
	329	436	2.3	4.44	★ 2KJ1006 - ■ JT13 - ■■ J1		180
	341	420	2.4	4.28	2KJ1006 - ■ JT13 - ■■ H1		180
	395	363	2.8	3.7	2KJ1006 - ■ JT13 - ■■ G1		180
	452	317	3.2	3.23	★ 2KJ1006 - ■ JT13 - ■■ F1		180
	529	271	3.7	2.76	★ 2KJ1006 - ■ JT13 - ■■ E1		180
	591	242	3.9	2.47	2KJ1006 - ■ JT13 - ■■ D1		180
	695	206	4.2	2.1	★ 2KJ1006 - ■ JT13 - ■■ C1		180
	807	178	4.5	1.81	2KJ1006 - ■ JT13 - ■■ B1		180
	1 074	133	5.1	1.36	★ 2KJ1006 - ■ JT13 - ■■ A1		180
	E.108-LA160ZLP4E						
	267	536	1.2	5.46	★ 2KJ1005 - ■ JT13 - ■■ K1		143
	292	491	1.4	5	2KJ1005 - ■ JT13 - ■■ J1		143
	343	418	1.7	4.26	2KJ1005 - ■ JT13 - ■■ H1		143
	388	369	1.6	3.76	★ 2KJ1005 - ■ JT13 - ■■ G1		143
	456	314	2.4	3.2	2KJ1005 - ■ JT13 - ■■ F1		143
	527	272	2.5	2.77	★ 2KJ1005 - ■ JT13 - ■■ E1		143
	627	229	3.0	2.33	★ 2KJ1005 - ■ JT13 - ■■ C1		143
	692	207	3.0	2.11	2KJ1005 - ■ JT13 - ■■ B1		143

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
15	E.108-LA160ZLP4E						
	807	178	3.1	1.81	★ 2KJ1005 - ■ JT13 - ■■ A1		143
	E.88-LA160ZLP4E						
	311	461	0.83	4.7	2KJ1004 - ■ JT13 - ■■ H1		122
	345	415	0.96	4.23	★ 2KJ1004 - ■ JT13 - ■■ G1		122
	374	383	1.0	3.9	2KJ1004 - ■ JT13 - ■■ F1		122
	442	324	1.4	3.3	2KJ1004 - ■ JT13 - ■■ E1		122
	507	283	1.5	2.88	★ 2KJ1004 - ■ JT13 - ■■ D1		122
	596	240	1.7	2.45	2KJ1004 - ■ JT13 - ■■ C1		122
	699	205	2.0	2.09	★ 2KJ1004 - ■ JT13 - ■■ B1		122
	854	168	2.1	1.71	★ 2KJ1004 - ■ JT13 - ■■ A1		122
	E.68-LA160ZLP4E						
	472	303	0.82	3.09	★ 2KJ1003 - ■ JT13 - ■■ F1		105
	512	280	0.89	2.85	2KJ1003 - ■ JT13 - ■■ E1		105
18.5	D.188-LG180ZMB4E						
	7.1	24 799	0.81	206.34	2KJ1211 - ■ KL13 - ■■ L1		743
	8.3	21 301	0.94	177.23	★ 2KJ1211 - ■ KL13 - ■■ K1		743
	9.6	18 403	1.1	153.12	2KJ1211 - ■ KL13 - ■■ J1		743
	10.9	16 244	1.2	135.16	2KJ1211 - ■ KL13 - ■■ H1		743
	12.1	14 623	1.4	121.67	★ 2KJ1211 - ■ KL13 - ■■ G1		743
	14.6	12 134	1.6	100.96	★ 2KJ1211 - ■ KL13 - ■■ F1		743
	16.0	11 064	1.8	92.06	2KJ1211 - ■ KL13 - ■■ E1		743
	18.2	9 708	2.1	80.77	★ 2KJ1211 - ■ KL13 - ■■ D1		743
	21	8 342	2.4	69.41	2KJ1211 - ■ KL13 - ■■ C1		743
	Z.188-LG180ZMB4E						
	28	6 292	2.5	52.35	2KJ1111 - ■ KL13 - ■■ P1		709
	D.168-LG180ZMB4E						
	10.4	16 980	0.82	141.28	2KJ1210 - ■ KL13 - ■■ J1		598
	11.9	14 854	0.94	123.59	2KJ1210 - ■ KL13 - ■■ H1		598
	13.7	12 918	1.1	107.48	2KJ1210 - ■ KL13 - ■■ G1		598
	15.6	11 334	1.2	94.3	★ 2KJ1210 - ■ KL13 - ■■ F1		598
	18.4	9 585	1.5	79.75	★ 2KJ1210 - ■ KL13 - ■■ E1		598
	20	8 697	1.6	72.36	2KJ1210 - ■ KL13 - ■■ D1		598
	23	7 581	1.8	63.08	★ 2KJ1210 - ■ KL13 - ■■ C1		598
	27	6 437	2.2	53.56	2KJ1210 - ■ KL13 - ■■ B1		598
	Z.168-LG180ZMB4E						
	32	5 602	1.8	46.61	2KJ1110 - ■ KL13 - ■■ V1		579
	D.148-LG180ZMB4E						
	18.1	9 740	0.82	81.04	★ 2KJ1208 - ■ KL13 - ■■ F1		427
	21	8 336	0.96	69.36	★ 2KJ1208 - ■ KL13 - ■■ E1		427
	24	7 466	1.1	62.12	2KJ1208 - ■ KL13 - ■■ D1		427
	28	6 323	1.3	52.61	★ 2KJ1208 - ■ KL13 - ■■ C1		427
	Z.148-LG180ZMB4E						
	33	5 422	1.5	45.11	★ 2KJ1108 - ■ KL13 - ■■ W1		415

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
18.5	Z.148-LG180ZMB4E						
	34	5 119	1.6	42.59	2KJ1108 - ■ KL13 - ■■ V1		415
	38	4 595	1.7	38.23	★ 2KJ1108 - ■ KL13 - ■■ U1		415
	42	4 217	1.9	35.09	2KJ1108 - ■ KL13 - ■■ T1		415
	48	3 639	2.2	30.28	2KJ1108 - ■ KL13 - ■■ S1		415
	56	3 184	2.5	26.49	2KJ1108 - ■ KL13 - ■■ R1		415
	64	2 769	2.9	23.04	2KJ1108 - ■ KL13 - ■■ Q1		415
	D.128-LG180ZMB4E						
	30	5 822	0.88	48.44	★ 2KJ1207 - ■ KL13 - ■■ C1		337
	34	5 253	0.97	43.71	2KJ1207 - ■ KL13 - ■■ B1		337
	39	4 515	1.1	37.57	★ 2KJ1207 - ■ KL13 - ■■ A1		337
	Z.128-LG180ZMB4E						
	46	3 859	1.3	32.11	★ 2KJ1107 - ■ KL13 - ■■ X1		328
	48	3 639	1.4	30.28	2KJ1107 - ■ KL13 - ■■ W1		328
	54	3 261	1.6	27.13	★ 2KJ1107 - ■ KL13 - ■■ V1		328
	59	3 011	1.7	25.05	2KJ1107 - ■ KL13 - ■■ U1		328
	69	2 573	2.0	21.41	2KJ1107 - ■ KL13 - ■■ T1		328
	76	2 326	2.2	19.35	★ 2KJ1107 - ■ KL13 - ■■ S1		328
	79	2 240	2.3	18.64	2KJ1107 - ■ KL13 - ■■ R1		328
	91	1 937	2.6	16.12	2KJ1107 - ■ KL13 - ■■ Q1		328
	105	1 690	2.9	14.06	★ 2KJ1107 - ■ KL13 - ■■ P1		328
	122	1 446	3.3	12.03	★ 2KJ1107 - ■ KL13 - ■■ N1		328
	136	1 296	3.6	10.78	2KJ1107 - ■ KL13 - ■■ M1		328
	161	1 097	4.0	9.13	★ 2KJ1107 - ■ KL13 - ■■ L1		328
	202	876	2.9	7.29	★ 2KJ1107 - ■ KL13 - ■■ J1		328
	236	750	3.4	6.24	★ 2KJ1107 - ■ KL13 - ■■ H1		328
	263	672	3.9	5.59	★ 2KJ1107 - ■ KL13 - ■■ F1		328
	304	581	4.3	4.83	2KJ1107 - ■ KL13 - ■■ E1		328
	311	568	4.2	4.73	★ 2KJ1107 - ■ KL13 - ■■ D1		328
	359	492	4.8	4.09	★ 2KJ1107 - ■ KL13 - ■■ C1		328
	405	436	5.3	3.63	★ 2KJ1107 - ■ KL13 - ■■ B1		328
	Z.108-LG180ZMB4E						
	50	3 527	0.88	29.35	★ 2KJ1106 - ■ KL13 - ■■ U1		256
	54	3 269	0.95	27.2	2KJ1106 - ■ KL13 - ■■ T1		256
	59	2 997	1.0	24.94	★ 2KJ1106 - ■ KL13 - ■■ S1		256
	64	2 747	1.1	22.86	2KJ1106 - ■ KL13 - ■■ R1		256
	76	2 341	1.3	19.48	2KJ1106 - ■ KL13 - ■■ Q1		256
	86	2 066	1.5	17.19	★ 2KJ1106 - ■ KL13 - ■■ P1		256
	100	1 758	1.8	14.63	2KJ1106 - ■ KL13 - ■■ N1		256
	116	1 524	2.0	12.68	★ 2KJ1106 - ■ KL13 - ■■ M1		256
	138	1 282	2.4	10.67	★ 2KJ1106 - ■ KL13 - ■■ L1		256
	153	1 156	2.7	9.62	2KJ1106 - ■ KL13 - ■■ K1		256
	178	994	3.1	8.27	★ 2KJ1106 - ■ KL13 - ■■ J1		256
	207	853	2.1	7.1	★ 2KJ1106 - ■ KL13 - ■■ H1		256
	229	770	2.3	6.41	2KJ1106 - ■ KL13 - ■■ G1		256

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
18.5	Z.108-LG180ZMB4E						
	267	662	2.6	5.51	★ 2KJ1106 - ■ KL13 - ■■ E1		256
	281	630	1.8	5.24	★ 2KJ1106 - ■ KL13 - ■■ D1		256
	333	530	2.2	4.41	★ 2KJ1106 - ■ KL13 - ■■ C1		256
	369	478	2.3	3.98	2KJ1106 - ■ KL13 - ■■ B1		256
	430	411	2.6	3.42	★ 2KJ1106 - ■ KL13 - ■■ A1		256
	Z.88-LG180ZMB4E						
	85	2 076	0.81	17.27	2KJ1105 - ■ KL13 - ■■ M1		210
	100	1 758	0.92	14.63	2KJ1105 - ■ KL13 - ■■ L1		210
	115	1 532	1.0	12.75	★ 2KJ1105 - ■ KL13 - ■■ K1		210
	135	1 304	1.1	10.85	2KJ1105 - ■ KL13 - ■■ J1		210
	159	1 113	1.2	9.26	★ 2KJ1105 - ■ KL13 - ■■ H1		210
	194	912	1.4	7.59	★ 2KJ1105 - ■ KL13 - ■■ G1		210
	211	837	1.5	6.96	2KJ1105 - ■ KL13 - ■■ F1		210
	247	714	1.7	5.94	★ 2KJ1105 - ■ KL13 - ■■ E1		210
	302	585	1.9	4.87	★ 2KJ1105 - ■ KL13 - ■■ D1		210
	330	535	1.5	4.45	★ 2KJ1105 - ■ KL13 - ■■ C1		210
	388	456	1.6	3.79	★ 2KJ1105 - ■ KL13 - ■■ B1		210
	473	374	1.8	3.11	★ 2KJ1105 - ■ KL13 - ■■ A1		210
	E.148-LG180ZMB4E						
	175	1 012	0.99	8.42	★ 2KJ1007 - ■ KL13 - ■■ N1		259
	185	955	1.1	7.95	2KJ1007 - ■ KL13 - ■■ M1		259
	206	858	1.3	7.14	★ 2KJ1007 - ■ KL13 - ■■ L1		259
	224	787	1.5	6.55	2KJ1007 - ■ KL13 - ■■ K1		259
	260	679	2.0	5.65	2KJ1007 - ■ KL13 - ■■ J1		259
	298	594	2.4	4.94	2KJ1007 - ■ KL13 - ■■ H1		259
	342	517	2.6	4.3	2KJ1007 - ■ KL13 - ■■ G1		259
	390	453	3.0	3.77	★ 2KJ1007 - ■ KL13 - ■■ F1		259
	461	383	4.0	3.19	★ 2KJ1007 - ■ KL13 - ■■ E1		259
	507	349	4.0	2.9	2KJ1007 - ■ KL13 - ■■ D1		259
	583	303	4.0	2.52	★ 2KJ1007 - ■ KL13 - ■■ C1		259
	687	257	4.7	2.14	2KJ1007 - ■ KL13 - ■■ B1		259
	896	197	4.9	1.64	★ 2KJ1007 - ■ KL13 - ■■ A1		259
	E.128-LG180ZMB4E						
	199	886	0.92	7.37	★ 2KJ1006 - ■ KL13 - ■■ P1		235
	212	835	1.1	6.95	2KJ1006 - ■ KL13 - ■■ N1		235
	236	749	1.2	6.23	★ 2KJ1006 - ■ KL13 - ■■ M1		235
	256	691	1.4	5.75	2KJ1006 - ■ KL13 - ■■ L1		235
	299	590	1.6	4.91	2KJ1006 - ■ KL13 - ■■ K1		235
	331	534	1.9	4.44	★ 2KJ1006 - ■ KL13 - ■■ J1		235
	343	514	1.9	4.28	2KJ1006 - ■ KL13 - ■■ H1		235
	397	445	2.2	3.7	2KJ1006 - ■ KL13 - ■■ G1		235
	455	388	2.6	3.23	★ 2KJ1006 - ■ KL13 - ■■ F1		235
	533	332	3.0	2.76	★ 2KJ1006 - ■ KL13 - ■■ E1		235

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
18.5	E.128-LG180ZMB4E						
	595	297	3.2	2.47	2KJ1006 - ■ KL13 - ■■ D1		235
	700	252	3.4	2.1	★ 2KJ1006 - ■ KL13 - ■■ C1		235
	812	218	3.7	1.81	2KJ1006 - ■ KL13 - ■■ B1		235
	1 081	163	4.2	1.36	★ 2KJ1006 - ■ KL13 - ■■ A1		235
	E.108-LG180ZMB4E						
	269	656	1.0	5.46	★ 2KJ1005 - ■ KL13 - ■■ K1		198
	294	601	1.1	5	2KJ1005 - ■ KL13 - ■■ J1		198
	345	512	1.4	4.26	2KJ1005 - ■ KL13 - ■■ H1		198
	391	452	1.3	3.76	★ 2KJ1005 - ■ KL13 - ■■ G1		198
	459	385	1.9	3.2	2KJ1005 - ■ KL13 - ■■ F1		198
	531	333	2.0	2.77	★ 2KJ1005 - ■ KL13 - ■■ E1		198
	631	280	2.4	2.33	★ 2KJ1005 - ■ KL13 - ■■ C1		198
	697	254	2.4	2.11	2KJ1005 - ■ KL13 - ■■ B1		198
	812	218	2.5	1.81	★ 2KJ1005 - ■ KL13 - ■■ A1		198
	E.88-LG180ZMB4E						
	377	469	0.82	3.9	2KJ1004 - ■ KL13 - ■■ F1		177
	445	397	1.1	3.3	2KJ1004 - ■ KL13 - ■■ E1		177
	510	346	1.3	2.88	★ 2KJ1004 - ■ KL13 - ■■ D1		177
	703	251	1.7	2.09	★ 2KJ1004 - ■ KL13 - ■■ B1		177
	860	206	1.7	1.71	★ 2KJ1004 - ■ KL13 - ■■ A1		177
22	D.188-LG180ZLB4E						
	9.6	21 959	0.91	153.12	2KJ1211 - ■ KP13 - ■■ J1		758
	10.8	19 384	1.0	135.16	2KJ1211 - ■ KP13 - ■■ H1		758
	12.0	17 449	1.1	121.67	★ 2KJ1211 - ■ KP13 - ■■ G1		758
	14.5	14 479	1.4	100.96	★ 2KJ1211 - ■ KP13 - ■■ F1		758
	15.9	13 203	1.5	92.06	2KJ1211 - ■ KP13 - ■■ E1		758
	18.1	11 583	1.7	80.77	★ 2KJ1211 - ■ KP13 - ■■ D1		758
	21	9 954	2.0	69.41	2KJ1211 - ■ KP13 - ■■ C1		758
	Z.188-LG180ZLB4E						
	28	7 508	2.1	52.35	2KJ1111 - ■ KP13 - ■■ P1		724
	30	6 915	2.3	48.22	2KJ1111 - ■ KP13 - ■■ N1		724
	D.168-LG180ZLB4E						
	13.6	15 414	0.91	107.48	2KJ1210 - ■ KP13 - ■■ G1		613
	15.5	13 524	1.0	94.3	★ 2KJ1210 - ■ KP13 - ■■ F1		613
	18.4	11 437	1.2	79.75	★ 2KJ1210 - ■ KP13 - ■■ E1		613
	20	10 377	1.3	72.36	2KJ1210 - ■ KP13 - ■■ D1		613
	23	9 046	1.5	63.08	★ 2KJ1210 - ■ KP13 - ■■ C1		613
	27	7 681	1.8	53.56	2KJ1210 - ■ KP13 - ■■ B1		613
	Z.168-LG180ZLB4E						
	31	6 684	1.5	46.61	2KJ1110 - ■ KP13 - ■■ V1		594
	35	6 036	2.3	42.09	2KJ1110 - ■ KP13 - ■■ U1		594
	37	5 658	2.5	39.45	2KJ1110 - ■ KP13 - ■■ T1		594

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
22	D.148-LG180ZLB4E						
	21	9 947	0.80	69.36	★ 2KJ1208 - ■ KP13 - ■■ E1		442
	24	8 909	0.90	62.12	2KJ1208 - ■ KP13 - ■■ D1		442
	28	7 545	1.1	52.61	★ 2KJ1208 - ■ KP13 - ■■ C1		442
	Z.148-LG180ZLB4E						
	32	6 469	1.2	45.11	★ 2KJ1108 - ■ KP13 - ■■ W1		430
	34	6 108	1.3	42.59	2KJ1108 - ■ KP13 - ■■ V1		430
	38	5 483	1.5	38.23	★ 2KJ1108 - ■ KP13 - ■■ U1		430
	42	5 032	1.6	35.09	2KJ1108 - ■ KP13 - ■■ T1		430
	48	4 343	1.8	30.28	2KJ1108 - ■ KP13 - ■■ S1		430
	55	3 799	2.1	26.49	2KJ1108 - ■ KP13 - ■■ R1		430
	64	3 304	2.4	23.04	2KJ1108 - ■ KP13 - ■■ Q1		430
	72	2 898	2.8	20.21	★ 2KJ1108 - ■ KP13 - ■■ P1		430
	86	2 451	3.3	17.09	★ 2KJ1108 - ■ KP13 - ■■ N1		430
	170	1 239	3.9	8.64	★ 2KJ1108 - ■ KP13 - ■■ H1		430
	187	1 124	4.3	7.84	2KJ1108 - ■ KP13 - ■■ G1		430
	D.128-LG180ZLB4E						
	34	6 269	0.81	43.71	2KJ1207 - ■ KP13 - ■■ B1		352
	39	5 388	0.95	37.57	★ 2KJ1207 - ■ KP13 - ■■ A1		352
	Z.128-LG180ZLB4E						
	46	4 605	1.1	32.11	★ 2KJ1107 - ■ KP13 - ■■ X1		343
	48	4 343	1.2	30.28	2KJ1107 - ■ KP13 - ■■ W1		343
	54	3 891	1.3	27.13	★ 2KJ1107 - ■ KP13 - ■■ V1		343
	58	3 592	1.4	25.05	2KJ1107 - ■ KP13 - ■■ U1		343
	68	3 070	1.7	21.41	2KJ1107 - ■ KP13 - ■■ T1		343
	76	2 775	1.8	19.35	★ 2KJ1107 - ■ KP13 - ■■ S1		343
	79	2 673	1.9	18.64	2KJ1107 - ■ KP13 - ■■ R1		343
	91	2 312	2.2	16.12	2KJ1107 - ■ KP13 - ■■ Q1		343
	104	2 016	2.4	14.06	★ 2KJ1107 - ■ KP13 - ■■ P1		343
	122	1 725	2.7	12.03	★ 2KJ1107 - ■ KP13 - ■■ N1		343
	136	1 546	3.0	10.78	2KJ1107 - ■ KP13 - ■■ M1		343
	160	1 309	3.4	9.13	★ 2KJ1107 - ■ KP13 - ■■ L1		343
	186	1 130	3.8	7.88	2KJ1107 - ■ KP13 - ■■ K1		343
	201	1 045	2.4	7.29	★ 2KJ1107 - ■ KP13 - ■■ J1		343
	235	895	2.8	6.24	★ 2KJ1107 - ■ KP13 - ■■ H1		343
	247	850	4.6	5.93	★ 2KJ1107 - ■ KP13 - ■■ G1		343
	262	802	3.3	5.59	★ 2KJ1107 - ■ KP13 - ■■ F1		343
	303	693	3.6	4.83	2KJ1107 - ■ KP13 - ■■ E1		343
	310	678	3.5	4.73	★ 2KJ1107 - ■ KP13 - ■■ D1		343
	358	587	4.0	4.09	★ 2KJ1107 - ■ KP13 - ■■ C1		343
	404	521	4.4	3.63	★ 2KJ1107 - ■ KP13 - ■■ B1		343
	477	440	5.0	3.07	★ 2KJ1107 - ■ KP13 - ■■ A1		343

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
22	Z.108-LG180ZLB4E						
	59	3 577	0.87	24.94	★ 2KJ1106 - ■ KP13 - ■■ S1		271
	64	3 278	0.95	22.86	2KJ1106 - ■ KP13 - ■■ R1		271
	75	2 794	1.1	19.48	2KJ1106 - ■ KP13 - ■■ Q1		271
	85	2 465	1.3	17.19	★ 2KJ1106 - ■ KP13 - ■■ P1		271
	100	2 098	1.5	14.63	2KJ1106 - ■ KP13 - ■■ N1		271
	116	1 818	1.7	12.68	★ 2KJ1106 - ■ KP13 - ■■ M1		271
	137	1 530	2.0	10.67	★ 2KJ1106 - ■ KP13 - ■■ L1		271
	152	1 380	2.2	9.62	2KJ1106 - ■ KP13 - ■■ K1		271
	177	1 186	2.6	8.27	★ 2KJ1106 - ■ KP13 - ■■ J1		271
	206	1 018	1.8	7.1	★ 2KJ1106 - ■ KP13 - ■■ H1		271
	229	919	1.9	6.41	2KJ1106 - ■ KP13 - ■■ G1		271
	266	790	2.2	5.51	★ 2KJ1106 - ■ KP13 - ■■ E1		271
	280	751	1.5	5.24	★ 2KJ1106 - ■ KP13 - ■■ D1		271
	332	632	1.8	4.41	★ 2KJ1106 - ■ KP13 - ■■ C1		271
	368	571	2.0	3.98	2KJ1106 - ■ KP13 - ■■ B1		271
	428	490	2.2	3.42	★ 2KJ1106 - ■ KP13 - ■■ A1		271
	Z.88-LG180ZLB4E						
	115	1 829	0.85	12.75	★ 2KJ1105 - ■ KP13 - ■■ K1		225
	135	1 556	0.94	10.85	2KJ1105 - ■ KP13 - ■■ J1		225
	158	1 328	1.0	9.26	★ 2KJ1105 - ■ KP13 - ■■ H1		225
	193	1 089	1.2	7.59	★ 2KJ1105 - ■ KP13 - ■■ G1		225
	210	998	1.3	6.96	2KJ1105 - ■ KP13 - ■■ F1		225
	247	852	1.4	5.94	★ 2KJ1105 - ■ KP13 - ■■ E1		225
	301	698	1.6	4.87	★ 2KJ1105 - ■ KP13 - ■■ D1		225
	329	638	1.3	4.45	★ 2KJ1105 - ■ KP13 - ■■ C1		225
	387	544	1.4	3.79	★ 2KJ1105 - ■ KP13 - ■■ B1		225
	471	446	1.5	3.11	★ 2KJ1105 - ■ KP13 - ■■ A1		225
	E.148-LG180ZLB4E						
	174	1 208	0.83	8.42	★ 2KJ1007 - ■ KP13 - ■■ N1		274
	184	1 140	0.93	7.95	2KJ1007 - ■ KP13 - ■■ M1		274
	205	1 024	1.1	7.14	★ 2KJ1007 - ■ KP13 - ■■ L1		274
	224	939	1.2	6.55	2KJ1007 - ■ KP13 - ■■ K1		274
	259	810	1.7	5.65	2KJ1007 - ■ KP13 - ■■ J1		274
	297	708	2.0	4.94	2KJ1007 - ■ KP13 - ■■ H1		274
	341	617	2.2	4.3	2KJ1007 - ■ KP13 - ■■ G1		274
	389	541	2.5	3.77	★ 2KJ1007 - ■ KP13 - ■■ F1		274
	459	457	3.4	3.19	★ 2KJ1007 - ■ KP13 - ■■ E1		274
	505	416	3.4	2.9	2KJ1007 - ■ KP13 - ■■ D1		274
	581	361	3.4	2.52	★ 2KJ1007 - ■ KP13 - ■■ C1		274
	685	307	3.9	2.14	2KJ1007 - ■ KP13 - ■■ B1		274
	893	235	4.1	1.64	★ 2KJ1007 - ■ KP13 - ■■ A1		274

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
22	E.128-LG180ZLB4E						
	211	997	0.88	6.95	2KJ1006 - ■ KP13 - ■■ N1		250
	235	893	1.0	6.23 ★	2KJ1006 - ■ KP13 - ■■ M1		250
	255	825	1.2	5.75	2KJ1006 - ■ KP13 - ■■ L1		250
	298	704	1.4	4.91	2KJ1006 - ■ KP13 - ■■ K1		250
	330	637	1.6	4.44 ★	2KJ1006 - ■ KP13 - ■■ J1		250
	342	614	1.6	4.28	2KJ1006 - ■ KP13 - ■■ H1		250
	396	531	1.9	3.7	2KJ1006 - ■ KP13 - ■■ G1		250
	454	463	2.2	3.23 ★	2KJ1006 - ■ KP13 - ■■ F1		250
	531	396	2.5	2.76 ★	2KJ1006 - ■ KP13 - ■■ E1		250
	593	354	2.7	2.47	2KJ1006 - ■ KP13 - ■■ D1		250
	698	301	2.9	2.1 ★	2KJ1006 - ■ KP13 - ■■ C1		250
	809	260	3.1	1.81	2KJ1006 - ■ KP13 - ■■ B1		250
	1 077	195	3.5	1.36 ★	2KJ1006 - ■ KP13 - ■■ A1		250
	E.108-LG180ZLB4E						
	268	783	0.84	5.46 ★	2KJ1005 - ■ KP13 - ■■ K1		213
	293	717	0.95	5	2KJ1005 - ■ KP13 - ■■ J1		213
	344	611	1.2	4.26	2KJ1005 - ■ KP13 - ■■ H1		213
	390	539	1.1	3.76 ★	2KJ1005 - ■ KP13 - ■■ G1		213
	458	459	1.6	3.2	2KJ1005 - ■ KP13 - ■■ F1		213
	529	397	1.7	2.77 ★	2KJ1005 - ■ KP13 - ■■ E1		213
	629	334	2.0	2.33 ★	2KJ1005 - ■ KP13 - ■■ C1		213
	694	303	2.0	2.11	2KJ1005 - ■ KP13 - ■■ B1		213
	809	260	2.1	1.81 ★	2KJ1005 - ■ KP13 - ■■ A1		213
	E.88-LG180ZLB4E						
	444	473	0.95	3.3	2KJ1004 - ■ KP13 - ■■ E1		192
	509	413	1.1	2.88 ★	2KJ1004 - ■ KP13 - ■■ D1		192
30	D.188-LG200LB4E						
	12.1	23 633	0.85	121.67 ★	2KJ1211 - ■ LM13 - ■■ G1		808
	14.6	19 610	1.0	100.96 ★	2KJ1211 - ■ LM13 - ■■ F1		808
	16.0	17 881	1.1	92.06	2KJ1211 - ■ LM13 - ■■ E1		808
	18.3	15 689	1.3	80.77 ★	2KJ1211 - ■ LM13 - ■■ D1		808
	21	13 482	1.5	69.41	2KJ1211 - ■ LM13 - ■■ C1		808
	27	10 500	1.9	54.06 ★	2KJ1211 - ■ LM13 - ■■ B1		808
	34	8 342	2.4	42.95 ★	2KJ1211 - ■ LM13 - ■■ A1		808
	Z.188-LG200LB4E						
	28	10 168	1.5	52.35	2KJ1111 - ■ LM13 - ■■ P1		774
	31	9 366	1.7	48.22	2KJ1111 - ■ LM13 - ■■ N1		774
	35	8 129	2.0	41.85 ★	2KJ1111 - ■ LM13 - ■■ M1		774
	40	7 165	2.3	36.89	2KJ1111 - ■ LM13 - ■■ L1		774
	D.168-LG200LB4E						
	18.5	15 490	0.90	79.75 ★	2KJ1210 - ■ LM13 - ■■ E1		663
	20	14 055	1.0	72.36	2KJ1210 - ■ LM13 - ■■ D1		663
	23	12 252	1.1	63.08 ★	2KJ1210 - ■ LM13 - ■■ C1		663

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
30	D.168-LG200LB4E						
	28	10 403	1.3	53.56	2KJ1210 - ■ LM13 - ■■ B1		663
	Z.168-LG200LB4E						
	32	9 053	1.1	46.61	2KJ1110 - ■ LM13 - ■■ V1		644
	35	8 175	1.7	42.09	2KJ1110 - ■ LM13 - ■■ U1		644
	37	7 663	1.8	39.45	2KJ1110 - ■ LM13 - ■■ T1		644
	44	6 581	2.1	33.88	★ 2KJ1110 - ■ LM13 - ■■ S1		644
	50	5 685	2.5	29.27	2KJ1110 - ■ LM13 - ■■ Q1		644
	57	5 019	2.8	25.84	2KJ1110 - ■ LM13 - ■■ P1		644
	Z.148-LG200LB4E						
	33	8 762	0.91	45.11	★ 2KJ1108 - ■ LM13 - ■■ W1		480
	35	8 273	0.97	42.59	2KJ1108 - ■ LM13 - ■■ V1		480
	39	7 426	1.1	38.23	★ 2KJ1108 - ■ LM13 - ■■ U1		480
	42	6 816	1.2	35.09	2KJ1108 - ■ LM13 - ■■ T1		480
	49	5 882	1.4	30.28	2KJ1108 - ■ LM13 - ■■ S1		480
	56	5 145	1.6	26.49	2KJ1108 - ■ LM13 - ■■ R1		480
	64	4 475	1.8	23.04	2KJ1108 - ■ LM13 - ■■ Q1		480
	73	3 926	2.0	20.21	★ 2KJ1108 - ■ LM13 - ■■ P1		480
	86	3 320	2.4	17.09	★ 2KJ1108 - ■ LM13 - ■■ N1		480
	95	3 013	2.7	15.51	2KJ1108 - ■ LM13 - ■■ M1		480
	109	2 626	3.0	13.52	★ 2KJ1108 - ■ LM13 - ■■ L1		480
	128	2 230	3.6	11.48	2KJ1108 - ■ LM13 - ■■ K1		480
	171	1 678	2.9	8.64	★ 2KJ1108 - ■ LM13 - ■■ H1		480
	188	1 523	3.2	7.84	2KJ1108 - ■ LM13 - ■■ G1		480
	195	1 470	3.8	7.57	★ 2KJ1108 - ■ LM13 - ■■ F1		480
	216	1 329	3.6	6.84	★ 2KJ1108 - ■ LM13 - ■■ E1		480
	229	1 249	4.3	6.43	2KJ1108 - ■ LM13 - ■■ D1		480
	254	1 127	3.7	5.8	2KJ1108 - ■ LM13 - ■■ C1		480
	332	862	4.5	4.44	★ 2KJ1108 - ■ LM13 - ■■ A1		480
	Z.128-LG200LB4E						
	46	6 237	0.82	32.11	★ 2KJ1107 - ■ LM13 - ■■ X1		393
	49	5 882	0.87	30.28	2KJ1107 - ■ LM13 - ■■ W1		393
	54	5 270	0.97	27.13	★ 2KJ1107 - ■ LM13 - ■■ V1		393
	59	4 866	1.0	25.05	2KJ1107 - ■ LM13 - ■■ U1		393
	69	4 159	1.2	21.41	2KJ1107 - ■ LM13 - ■■ T1		393
	76	3 758	1.4	19.35	★ 2KJ1107 - ■ LM13 - ■■ S1		393
	79	3 621	1.4	18.64	2KJ1107 - ■ LM13 - ■■ R1		393
	92	3 131	1.6	16.12	2KJ1107 - ■ LM13 - ■■ Q1		393
	105	2 731	1.8	14.06	★ 2KJ1107 - ■ LM13 - ■■ P1		393
	123	2 337	2.0	12.03	★ 2KJ1107 - ■ LM13 - ■■ N1		393
	137	2 094	2.2	10.78	2KJ1107 - ■ LM13 - ■■ M1		393
	162	1 773	2.5	9.13	★ 2KJ1107 - ■ LM13 - ■■ L1		393
	187	1 531	2.8	7.88	2KJ1107 - ■ LM13 - ■■ K1		393
	202	1 416	1.8	7.29	★ 2KJ1107 - ■ LM13 - ■■ J1		393

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
30	Z.128-LG200LB4E						
	236	1 212	2.1	6.24	★ 2KJ1107 - ■ LM13 - ■■ H1		393
	249	1 152	3.4	5.93	★ 2KJ1107 - ■ LM13 - ■■ G1		393
	264	1 086	2.4	5.59	★ 2KJ1107 - ■ LM13 - ■■ F1		393
	305	938	2.7	4.83	2KJ1107 - ■ LM13 - ■■ E1		393
	312	919	2.6	4.73	★ 2KJ1107 - ■ LM13 - ■■ D1		393
	361	794	3.0	4.09	★ 2KJ1107 - ■ LM13 - ■■ C1		393
	406	705	3.3	3.63	★ 2KJ1107 - ■ LM13 - ■■ B1		393
	480	596	3.7	3.07	★ 2KJ1107 - ■ LM13 - ■■ A1		393
	Z.108-LG200LB4E						
	76	3 784	0.82	19.48	2KJ1106 - ■ LM13 - ■■ Q1		321
	86	3 339	0.93	17.19	★ 2KJ1106 - ■ LM13 - ■■ P1		321
	101	2 842	1.1	14.63	2KJ1106 - ■ LM13 - ■■ N1		321
	116	2 463	1.3	12.68	★ 2KJ1106 - ■ LM13 - ■■ M1		321
	138	2 073	1.5	10.67	★ 2KJ1106 - ■ LM13 - ■■ L1		321
	153	1 869	1.7	9.62	2KJ1106 - ■ LM13 - ■■ K1		321
	178	1 606	1.9	8.27	★ 2KJ1106 - ■ LM13 - ■■ J1		321
	208	1 379	1.3	7.1	★ 2KJ1106 - ■ LM13 - ■■ H1		321
	230	1 245	1.4	6.41	2KJ1106 - ■ LM13 - ■■ G1		321
	268	1 070	1.6	5.51	★ 2KJ1106 - ■ LM13 - ■■ E1		321
	281	1 018	1.1	5.24	★ 2KJ1106 - ■ LM13 - ■■ D1		321
	334	857	1.3	4.41	★ 2KJ1106 - ■ LM13 - ■■ C1		321
	371	773	1.4	3.98	2KJ1106 - ■ LM13 - ■■ B1		321
	431	664	1.6	3.42	★ 2KJ1106 - ■ LM13 - ■■ A1		321
	E.148-LG200LB4E						
	207	1 387	0.81	7.14	★ 2KJ1007 - ■ LM13 - ■■ L1		324
	225	1 272	0.90	6.55	2KJ1007 - ■ LM13 - ■■ K1		324
	261	1 097	1.2	5.65	2KJ1007 - ■ LM13 - ■■ J1		324
	299	960	1.5	4.94	2KJ1007 - ■ LM13 - ■■ H1		324
	343	835	1.6	4.3	2KJ1007 - ■ LM13 - ■■ G1		324
	391	732	1.8	3.77	★ 2KJ1007 - ■ LM13 - ■■ F1		324
	462	620	2.5	3.19	★ 2KJ1007 - ■ LM13 - ■■ E1		324
	509	563	2.5	2.9	2KJ1007 - ■ LM13 - ■■ D1		324
	585	489	2.5	2.52	★ 2KJ1007 - ■ LM13 - ■■ C1		324
	689	416	2.9	2.14	2KJ1007 - ■ LM13 - ■■ B1		324
	899	319	3.0	1.64	★ 2KJ1007 - ■ LM13 - ■■ A1		324
	E.128-LG200LB4E						
	257	1 117	0.86	5.75	2KJ1006 - ■ LM13 - ■■ L1		300
	300	954	1.0	4.91	2KJ1006 - ■ LM13 - ■■ K1		300
	332	862	1.2	4.44	★ 2KJ1006 - ■ LM13 - ■■ J1		300
	345	831	1.2	4.28	2KJ1006 - ■ LM13 - ■■ H1		300
	399	719	1.4	3.7	2KJ1006 - ■ LM13 - ■■ G1		300
	457	627	1.6	3.23	★ 2KJ1006 - ■ LM13 - ■■ F1		300
	534	536	1.9	2.76	★ 2KJ1006 - ■ LM13 - ■■ E1		300

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
30	E.128-LG200LB4E						
	597	480	2.0	2.47	2KJ1006 - ■ LM13 - ■■ D1		300
	702	408	2.1	2.1	★ 2KJ1006 - ■ LM13 - ■■ C1		300
	815	352	2.3	1.81	2KJ1006 - ■ LM13 - ■■ B1		300
	1 085	264	2.6	1.36	★ 2KJ1006 - ■ LM13 - ■■ A1		300
	E.108-LG200LB4E						
	346	827	0.87	4.26	2KJ1005 - ■ LM13 - ■■ H1		263
	392	730	0.82	3.76	★ 2KJ1005 - ■ LM13 - ■■ G1		263
	461	622	1.2	3.2	2KJ1005 - ■ LM13 - ■■ F1		263
	532	538	1.2	2.77	★ 2KJ1005 - ■ LM13 - ■■ E1		263
	633	453	1.5	2.33	★ 2KJ1005 - ■ LM13 - ■■ C1		263
	699	410	1.5	2.11	2KJ1005 - ■ LM13 - ■■ B1		263
	815	352	1.6	1.81	★ 2KJ1005 - ■ LM13 - ■■ A1		263
37	D.188-LG225S4E						
	14.6	24 268	0.82	100.96	★ 2KJ1211 - ■ ME13 - ■■ F1		888
	16.0	22 129	0.90	92.06	2KJ1211 - ■ ME13 - ■■ E1		888
	18.2	19 415	1.0	80.77	★ 2KJ1211 - ■ ME13 - ■■ D1		888
	21	16 684	1.2	69.41	2KJ1211 - ■ ME13 - ■■ C1		888
	27	12 995	1.5	54.06	★ 2KJ1211 - ■ ME13 - ■■ B1		888
	34	10 324	1.9	42.95	★ 2KJ1211 - ■ ME13 - ■■ A1		888
	Z.188-LG225S4E						
	28	12 584	1.2	52.35	2KJ1111 - ■ ME13 - ■■ P1		854
	30	11 591	1.4	48.22	2KJ1111 - ■ ME13 - ■■ N1		854
	35	10 060	1.6	41.85	★ 2KJ1111 - ■ ME13 - ■■ M1		854
	40	8 867	1.9	36.89	2KJ1111 - ■ ME13 - ■■ L1		854
	45	7 781	2.4	32.37	2KJ1111 - ■ ME13 - ■■ K1		854
	D.168-LG225S4E						
	20	17 393	0.80	72.36	2KJ1210 - ■ ME13 - ■■ D1		743
	23	15 163	0.92	63.08	★ 2KJ1210 - ■ ME13 - ■■ C1		743
	27	12 874	1.1	53.56	2KJ1210 - ■ ME13 - ■■ B1		743
	Z.168-LG225S4E						
	35	10 117	1.4	42.09	2KJ1110 - ■ ME13 - ■■ U1		724
	37	9 483	1.5	39.45	2KJ1110 - ■ ME13 - ■■ T1		724
	43	8 144	1.7	33.88	★ 2KJ1110 - ■ ME13 - ■■ S1		724
	50	7 036	2.0	29.27	2KJ1110 - ■ ME13 - ■■ Q1		724
	57	6 211	2.3	25.84	2KJ1110 - ■ ME13 - ■■ P1		724
	63	5 591	2.5	23.26	★ 2KJ1110 - ■ ME13 - ■■ N1		724
	76	4 639	3.0	19.3	★ 2KJ1110 - ■ ME13 - ■■ M1		724
	84	4 231	3.3	17.6	2KJ1110 - ■ ME13 - ■■ L1		724
	159	2 226	3.5	9.26	★ 2KJ1110 - ■ ME13 - ■■ G1		724
	204	1 731	4.1	7.2	★ 2KJ1110 - ■ ME13 - ■■ E1		724
	Z.148-LG225S4E						
	38	9 190	0.87	38.23	★ 2KJ1108 - ■ ME13 - ■■ U1		560
	42	8 435	0.95	35.09	2KJ1108 - ■ ME13 - ■■ T1		560

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
37	Z.148-LG225S4E						
	48	7 279	1.1	30.28		2KJ1108 - ■ME13 - ■■S1	560
	56	6 368	1.3	26.49		2KJ1108 - ■ME13 - ■■R1	560
	64	5 538	1.4	23.04		2KJ1108 - ■ME13 - ■■Q1	560
	73	4 858	1.6	20.21	★	2KJ1108 - ■ME13 - ■■P1	560
	86	4 108	1.9	17.09	★	2KJ1108 - ■ME13 - ■■N1	560
	95	3 728	2.1	15.51		2KJ1108 - ■ME13 - ■■M1	560
	109	3 250	2.5	13.52	★	2KJ1108 - ■ME13 - ■■L1	560
	128	2 759	2.9	11.48		2KJ1108 - ■ME13 - ■■K1	560
	167	2 113	3.8	8.79	★	2KJ1108 - ■ME13 - ■■J1	560
	170	2 077	2.3	8.64	★	2KJ1108 - ■ME13 - ■■H1	560
	188	1 885	2.5	7.84		2KJ1108 - ■ME13 - ■■G1	560
	194	1 820	3.1	7.57	★	2KJ1108 - ■ME13 - ■■F1	560
	215	1 644	2.9	6.84	★	2KJ1108 - ■ME13 - ■■E1	560
	229	1 546	3.5	6.43		2KJ1108 - ■ME13 - ■■D1	560
	253	1 394	3.0	5.8		2KJ1108 - ■ME13 - ■■C1	560
	299	1 183	4.3	4.92	★	2KJ1108 - ■ME13 - ■■B1	560
	331	1 067	3.6	4.44	★	2KJ1108 - ■ME13 - ■■A1	560
	Z.128-LG225S4E						
	59	6 021	0.85	25.05		2KJ1107 - ■ME13 - ■■U1	473
	69	5 146	0.99	21.41		2KJ1107 - ■ME13 - ■■T1	473
	76	4 651	1.1	19.35	★	2KJ1107 - ■ME13 - ■■S1	473
	79	4 481	1.1	18.64		2KJ1107 - ■ME13 - ■■R1	473
	91	3 875	1.3	16.12		2KJ1107 - ■ME13 - ■■Q1	473
	105	3 380	1.4	14.06	★	2KJ1107 - ■ME13 - ■■P1	473
	122	2 892	1.6	12.03	★	2KJ1107 - ■ME13 - ■■N1	473
	136	2 591	1.8	10.78		2KJ1107 - ■ME13 - ■■M1	473
	161	2 195	2.0	9.13	★	2KJ1107 - ■ME13 - ■■L1	473
	187	1 894	2.2	7.88		2KJ1107 - ■ME13 - ■■K1	473
	202	1 752	1.4	7.29	★	2KJ1107 - ■ME13 - ■■J1	473
	236	1 500	1.7	6.24	★	2KJ1107 - ■ME13 - ■■H1	473
	248	1 425	2.7	5.93	★	2KJ1107 - ■ME13 - ■■G1	473
	263	1 344	1.9	5.59	★	2KJ1107 - ■ME13 - ■■F1	473
	304	1 161	2.2	4.83		2KJ1107 - ■ME13 - ■■E1	473
	311	1 137	2.1	4.73	★	2KJ1107 - ■ME13 - ■■D1	473
	359	983	2.4	4.09	★	2KJ1107 - ■ME13 - ■■C1	473
	405	873	2.6	3.63	★	2KJ1107 - ■ME13 - ■■B1	473
	479	738	3.0	3.07	★	2KJ1107 - ■ME13 - ■■A1	473
	Z.108-K4-LGI225S4E						
	100	3 517	0.88	14.63		2KJ1106 - ■ME13 - ■■N1	401
	116	3 048	1.0	12.68	★	2KJ1106 - ■ME13 - ■■M1	401
	138	2 565	1.2	10.67	★	2KJ1106 - ■ME13 - ■■L1	401
	153	2 312	1.3	9.62		2KJ1106 - ■ME13 - ■■K1	401
	178	1 988	1.6	8.27	★	2KJ1106 - ■ME13 - ■■J1	401

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
37	Z.108-K4-LGI225S4E						
	207	1 707	1.1	7.1	★ 2KJ1106 - ■ME13 - ■■H1		401
	229	1 541	1.1	6.41	2KJ1106 - ■ME13 - ■■G1		401
	267	1 324	1.3	5.51	★ 2KJ1106 - ■ME13 - ■■E1		401
	281	1 260	0.91	5.24	★ 2KJ1106 - ■ME13 - ■■D1		401
	333	1 060	1.1	4.41	★ 2KJ1106 - ■ME13 - ■■C1		401
	369	957	1.2	3.98	2KJ1106 - ■ME13 - ■■B1		401
	430	822	1.3	3.42	★ 2KJ1106 - ■ME13 - ■■A1		401
	E.148-LG225S4E						
	260	1 358	1.0	5.65	2KJ1007 - ■ME13 - ■■J1		404
	298	1 187	1.2	4.94	2KJ1007 - ■ME13 - ■■H1		404
	342	1 034	1.3	4.3	2KJ1007 - ■ME13 - ■■G1		404
	390	906	1.5	3.77	★ 2KJ1007 - ■ME13 - ■■F1		404
	461	767	2.0	3.19	★ 2KJ1007 - ■ME13 - ■■E1		404
	507	697	2.0	2.9	2KJ1007 - ■ME13 - ■■D1		404
	583	606	2.0	2.52	★ 2KJ1007 - ■ME13 - ■■C1		404
	687	514	2.3	2.14	2KJ1007 - ■ME13 - ■■B1		404
	896	394	2.4	1.64	★ 2KJ1007 - ■ME13 - ■■A1		404
	E.128-LG225S4E						
	299	1 180	0.81	4.91	2KJ1006 - ■ME13 - ■■K1		380
	331	1 067	0.94	4.44	★ 2KJ1006 - ■ME13 - ■■J1		380
	343	1 029	0.97	4.28	2KJ1006 - ■ME13 - ■■H1		380
	397	889	1.1	3.7	2KJ1006 - ■ME13 - ■■G1		380
	455	776	1.3	3.23	★ 2KJ1006 - ■ME13 - ■■F1		380
	533	663	1.5	2.76	★ 2KJ1006 - ■ME13 - ■■E1		380
	595	594	1.6	2.47	2KJ1006 - ■ME13 - ■■D1		380
	700	505	1.7	2.1	★ 2KJ1006 - ■ME13 - ■■C1		380
	812	435	1.8	1.81	2KJ1006 - ■ME13 - ■■B1		380
	1 081	327	2.1	1.36	★ 2KJ1006 - ■ME13 - ■■A1		380
	E.108-K4-LGI225S4E						
	459	769	0.97	3.2	2KJ1005 - ■ME13 - ■■F1		343
	531	666	1.0	2.77	★ 2KJ1005 - ■ME13 - ■■E1		343
45	D.188-LG225ZM4E						
	18.3	23 533	0.85	80.77	★ 2KJ1211 - ■MU13 - ■■D1		888
	21	20 223	0.99	69.41	2KJ1211 - ■MU13 - ■■C1		888
	27	15 751	1.3	54.06	★ 2KJ1211 - ■MU13 - ■■B1		888
	34	12 514	1.6	42.95	★ 2KJ1211 - ■MU13 - ■■A1		888
	Z.188-LG225ZM4E						
	28	15 252	1.0	52.35	2KJ1111 - ■MU13 - ■■P1		854
	31	14 049	1.1	48.22	2KJ1111 - ■MU13 - ■■N1		854
	35	12 193	1.3	41.85	★ 2KJ1111 - ■MU13 - ■■M1		854
	40	10 748	1.5	36.89	2KJ1111 - ■MU13 - ■■L1		854
	46	9 431	2.0	32.37	2KJ1111 - ■MU13 - ■■K1		854
	50	8 502	2.4	29.18	★ 2KJ1111 - ■MU13 - ■■J1		854

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
45	Z.188-LG225ZM4E						
	60	7 217	2.8	24.77	★ 2KJ1111 - ■ MU13 - ■■ H1		854
	64	6 704	3.0	23.01	2KJ1111 - ■ MU13 - ■■ G1		854
	D.168-LG225ZM4E						
	28	15 605	0.90	53.56	2KJ1210 - ■ MU13 - ■■ B1		743
	Z.168-LG225ZM4E						
	35	12 263	1.1	42.09	2KJ1110 - ■ MU13 - ■■ U1		724
	37	11 494	1.2	39.45	2KJ1110 - ■ MU13 - ■■ T1		724
	44	9 871	1.4	33.88	★ 2KJ1110 - ■ MU13 - ■■ S1		724
	50	8 528	1.6	29.27	2KJ1110 - ■ MU13 - ■■ Q1		724
	57	7 529	1.9	25.84	2KJ1110 - ■ MU13 - ■■ P1		724
	63	6 777	2.1	23.26	★ 2KJ1110 - ■ MU13 - ■■ N1		724
	76	5 623	2.5	19.3	★ 2KJ1110 - ■ MU13 - ■■ M1		724
	84	5 128	2.7	17.6	2KJ1110 - ■ MU13 - ■■ L1		724
	96	4 499	3.0	15.44	★ 2KJ1110 - ■ MU13 - ■■ K1		724
	111	3 866	3.4	13.27	2KJ1110 - ■ MU13 - ■■ J1		724
	159	2 698	2.9	9.26	★ 2KJ1110 - ■ MU13 - ■■ G1		724
	205	2 098	3.4	7.2	★ 2KJ1110 - ■ MU13 - ■■ E1		724
	238	1 806	4.2	6.2	★ 2KJ1110 - ■ MU13 - ■■ D1		724
	263	1 635	4.1	5.61	★ 2KJ1110 - ■ MU13 - ■■ C1		724
	299	1 436	4.9	4.93	★ 2KJ1110 - ■ MU13 - ■■ B1		724
	331	1 299	5.0	4.46	★ 2KJ1110 - ■ MU13 - ■■ A1		724
	D.148-LG225ZM4E						
	43	9 950	0.80	34.15	★ 2KJ1208 - ■ MU13 - ■■ A1		572
	Z.148-LG225ZM4E						
	49	8 822	0.91	30.28	2KJ1108 - ■ MU13 - ■■ S1		560
	56	7 718	1.0	26.49	2KJ1108 - ■ MU13 - ■■ R1		560
	64	6 713	1.2	23.04	2KJ1108 - ■ MU13 - ■■ Q1		560
	73	5 888	1.4	20.21	★ 2KJ1108 - ■ MU13 - ■■ P1		560
	86	4 979	1.6	17.09	★ 2KJ1108 - ■ MU13 - ■■ N1		560
	95	4 519	1.8	15.51	2KJ1108 - ■ MU13 - ■■ M1		560
	109	3 939	2.0	13.52	★ 2KJ1108 - ■ MU13 - ■■ L1		560
	128	3 345	2.4	11.48	2KJ1108 - ■ MU13 - ■■ K1		560
	168	2 561	3.1	8.79	★ 2KJ1108 - ■ MU13 - ■■ J1		560
	171	2 517	1.9	8.64	★ 2KJ1108 - ■ MU13 - ■■ H1		560
	188	2 284	2.1	7.84	2KJ1108 - ■ MU13 - ■■ G1		560
	195	2 206	2.5	7.57	★ 2KJ1108 - ■ MU13 - ■■ F1		560
	216	1 993	2.4	6.84	★ 2KJ1108 - ■ MU13 - ■■ E1		560
	229	1 873	2.9	6.43	2KJ1108 - ■ MU13 - ■■ D1		560
	254	1 690	2.5	5.8	2KJ1108 - ■ MU13 - ■■ C1		560
	300	1 433	3.5	4.92	★ 2KJ1108 - ■ MU13 - ■■ B1		560
	332	1 294	3.0	4.44	★ 2KJ1108 - ■ MU13 - ■■ A1		560

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
45	Z.128-LG225ZM4E						
	69	6 238	0.82	21.41	2KJ1107 - ■ MU13 - ■■ T1		473
	76	5 638	0.90	19.35	★ 2KJ1107 - ■ MU13 - ■■ S1		473
	79	5 431	0.94	18.64	2KJ1107 - ■ MU13 - ■■ R1		473
	92	4 697	1.1	16.12	2KJ1107 - ■ MU13 - ■■ Q1		473
	105	4 096	1.2	14.06	★ 2KJ1107 - ■ MU13 - ■■ P1		473
	123	3 505	1.3	12.03	★ 2KJ1107 - ■ MU13 - ■■ N1		473
	137	3 141	1.5	10.78	2KJ1107 - ■ MU13 - ■■ M1		473
	162	2 660	1.7	9.13	★ 2KJ1107 - ■ MU13 - ■■ L1		473
	187	2 296	1.9	7.88	2KJ1107 - ■ MU13 - ■■ K1		473
	202	2 124	1.2	7.29	★ 2KJ1107 - ■ MU13 - ■■ J1		473
	236	1 818	1.4	6.24	★ 2KJ1107 - ■ MU13 - ■■ H1		473
	249	1 728	2.3	5.93	★ 2KJ1107 - ■ MU13 - ■■ G1		473
	264	1 629	1.6	5.59	★ 2KJ1107 - ■ MU13 - ■■ F1		473
	305	1 407	1.8	4.83	2KJ1107 - ■ MU13 - ■■ E1		473
	312	1 378	1.7	4.73	★ 2KJ1107 - ■ MU13 - ■■ D1		473
	361	1 192	2.0	4.09	★ 2KJ1107 - ■ MU13 - ■■ C1		473
	406	1 058	2.2	3.63	★ 2KJ1107 - ■ MU13 - ■■ B1		473
	480	894	2.5	3.07	★ 2KJ1107 - ■ MU13 - ■■ A1		473
	Z.108-K4-LGI225ZM4E						
	116	3 690	0.84	12.68	★ 2KJ1106 - ■ MU13 - ■■ M1		401
	138	3 105	1.0	10.67	★ 2KJ1106 - ■ MU13 - ■■ L1		401
	153	2 799	1.1	9.62	2KJ1106 - ■ MU13 - ■■ K1		401
	178	2 407	1.3	8.27	★ 2KJ1106 - ■ MU13 - ■■ J1		401
	208	2 066	0.87	7.1	★ 2KJ1106 - ■ MU13 - ■■ H1		401
	230	1 865	0.94	6.41	2KJ1106 - ■ MU13 - ■■ G1		401
	268	1 603	1.1	5.51	★ 2KJ1106 - ■ MU13 - ■■ E1		401
	334	1 283	0.89	4.41	★ 2KJ1106 - ■ MU13 - ■■ C1		401
	371	1 158	0.97	3.98	2KJ1106 - ■ MU13 - ■■ B1		401
	431	995	1.1	3.42	★ 2KJ1106 - ■ MU13 - ■■ A1		401
	E.148-LG225ZM4E						
	261	1 646	0.83	5.65	2KJ1007 - ■ MU13 - ■■ J1		404
	299	1 439	0.97	4.94	2KJ1007 - ■ MU13 - ■■ H1		404
	343	1 253	1.1	4.3	2KJ1007 - ■ MU13 - ■■ G1		404
	391	1 098	1.2	3.77	★ 2KJ1007 - ■ MU13 - ■■ F1		404
	462	929	1.7	3.19	★ 2KJ1007 - ■ MU13 - ■■ E1		404
	509	845	1.7	2.9	2KJ1007 - ■ MU13 - ■■ D1		404
	585	734	1.7	2.52	★ 2KJ1007 - ■ MU13 - ■■ C1		404
	689	624	1.9	2.14	2KJ1007 - ■ MU13 - ■■ B1		404
	899	478	2.0	1.64	★ 2KJ1007 - ■ MU13 - ■■ A1		404
	E.128-LG225ZM4E						
	345	1 247	0.80	4.28	2KJ1006 - ■ MU13 - ■■ H1		380
	399	1 078	0.93	3.7	2KJ1006 - ■ MU13 - ■■ G1		380
	457	941	1.1	3.23	★ 2KJ1006 - ■ MU13 - ■■ F1		380

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
45	E.128-LG225ZM4E						
	534	804	1.2	2.76	★ 2KJ1006 - ■ MU13 - ■ E1		380
	815	527	1.5	1.81	2KJ1006 - ■ MU13 - ■ B1		380
	1 085	396	1.7	1.36	★ 2KJ1006 - ■ MU13 - ■ A1		380
	E.108-K4-LGI225ZM4E						
	461	931	0.80	3.2	2KJ1005 - ■ MU13 - ■ F1		343
	532	806	0.83	2.77	★ 2KJ1005 - ■ MU13 - ■ E1		343
	D.188-LG250ZM4E						
	21	24 634	0.81	69.41	2KJ1211 - ■ NN13 - ■ C1		978
	27	19 186	1.0	54.06	★ 2KJ1211 - ■ NN13 - ■ B1		978
	34	15 243	1.3	42.95	★ 2KJ1211 - ■ NN13 - ■ A1		978
55	Z.188-LG250ZM4E						
	31	17 113	0.93	48.22	2KJ1111 - ■ NN13 - ■ N1		944
	35	14 853	1.1	41.85	★ 2KJ1111 - ■ NN13 - ■ M1		944
	40	13 092	1.3	36.89	2KJ1111 - ■ NN13 - ■ L1		944
	46	11 488	1.6	32.37	2KJ1111 - ■ NN13 - ■ K1		944
	51	10 356	1.9	29.18	★ 2KJ1111 - ■ NN13 - ■ J1		944
	60	8 791	2.3	24.77	★ 2KJ1111 - ■ NN13 - ■ H1		944
	64	8 166	2.4	23.01	2KJ1111 - ■ NN13 - ■ G1		944
	75	7 013	2.9	19.76	★ 2KJ1111 - ■ NN13 - ■ F1		944
	88	5 984	3.3	16.86	2KJ1111 - ■ NN13 - ■ E1		944
	178	2 946	3.6	8.3	2KJ1111 - ■ NN13 - ■ A1		944
	Z.168-LG250ZM4E						
	38	14 001	1.0	39.45	2KJ1110 - ■ NN13 - ■ T1		814
	44	12 024	1.2	33.88	★ 2KJ1110 - ■ NN13 - ■ S1		814
	51	10 388	1.3	29.27	2KJ1110 - ■ NN13 - ■ Q1		814
	57	9 171	1.5	25.84	2KJ1110 - ■ NN13 - ■ P1		814
	64	8 255	1.7	23.26	★ 2KJ1110 - ■ NN13 - ■ N1		814
	77	6 850	2.0	19.3	★ 2KJ1110 - ■ NN13 - ■ M1		814
	84	6 246	2.2	17.6	2KJ1110 - ■ NN13 - ■ L1		814
	96	5 480	2.5	15.44	★ 2KJ1110 - ■ NN13 - ■ K1		814
	112	4 710	2.8	13.27	2KJ1110 - ■ NN13 - ■ J1		814
	143	3 670	3.4	10.34	★ 2KJ1110 - ■ NN13 - ■ H1		814
	160	3 286	2.4	9.26	★ 2KJ1110 - ■ NN13 - ■ G1		814
	180	2 914	4.0	8.21	★ 2KJ1110 - ■ NN13 - ■ F1		814
	206	2 555	2.8	7.2	★ 2KJ1110 - ■ NN13 - ■ E1		814
	239	2 200	3.4	6.2	★ 2KJ1110 - ■ NN13 - ■ D1		814
	264	1 991	3.4	5.61	★ 2KJ1110 - ■ NN13 - ■ C1		814
	300	1 750	4.0	4.93	★ 2KJ1110 - ■ NN13 - ■ B1		814
	332	1 583	4.1	4.46	★ 2KJ1110 - ■ NN13 - ■ A1		814
	Z.148-LG250ZM4E						
	56	9 401	0.85	26.49	2KJ1108 - ■ NN13 - ■ R1		650
	64	8 177	0.98	23.04	2KJ1108 - ■ NN13 - ■ Q1		650
	73	7 173	1.1	20.21	★ 2KJ1108 - ■ NN13 - ■ P1		650

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
55	Z.148-LG250ZM4E						
	87	6 065	1.3	17.09	★ 2KJ1108 - ■ NN13 - ■■ N1		650
	95	5 504	1.5	15.51	2KJ1108 - ■ NN13 - ■■ M1		650
	109	4 798	1.7	13.52	★ 2KJ1108 - ■ NN13 - ■■ L1		650
	129	4 074	2.0	11.48	2KJ1108 - ■ NN13 - ■■ K1		650
	168	3 120	2.6	8.79	★ 2KJ1108 - ■ NN13 - ■■ J1		650
	171	3 066	1.6	8.64	★ 2KJ1108 - ■ NN13 - ■■ H1		650
	189	2 782	1.7	7.84	2KJ1108 - ■ NN13 - ■■ G1		650
	196	2 687	2.1	7.57	★ 2KJ1108 - ■ NN13 - ■■ F1		650
	216	2 428	2.0	6.84	★ 2KJ1108 - ■ NN13 - ■■ E1		650
	230	2 282	2.4	6.43	2KJ1108 - ■ NN13 - ■■ D1		650
	255	2 058	2.0	5.8	2KJ1108 - ■ NN13 - ■■ C1		650
	301	1 746	2.9	4.92	★ 2KJ1108 - ■ NN13 - ■■ B1		650
	333	1 576	2.4	4.44	★ 2KJ1108 - ■ NN13 - ■■ A1		650
	Z.128-K4-LGI250ZM4E						
	92	5 721	0.87	16.12	2KJ1107 - ■ NN13 - ■■ Q1		563
	105	4 990	0.98	14.06	★ 2KJ1107 - ■ NN13 - ■■ P1		563
	123	4 269	1.1	12.03	★ 2KJ1107 - ■ NN13 - ■■ N1		563
	137	3 826	1.2	10.78	2KJ1107 - ■ NN13 - ■■ M1		563
	162	3 240	1.4	9.13	★ 2KJ1107 - ■ NN13 - ■■ L1		563
	188	2 797	1.5	7.88	2KJ1107 - ■ NN13 - ■■ K1		563
	203	2 587	0.98	7.29	★ 2KJ1107 - ■ NN13 - ■■ J1		563
	237	2 215	1.1	6.24	★ 2KJ1107 - ■ NN13 - ■■ H1		563
	250	2 105	1.9	5.93	★ 2KJ1107 - ■ NN13 - ■■ G1		563
	265	1 984	1.3	5.59	★ 2KJ1107 - ■ NN13 - ■■ F1		563
	306	1 714	1.5	4.83	2KJ1107 - ■ NN13 - ■■ E1		563
	313	1 679	1.4	4.73	★ 2KJ1107 - ■ NN13 - ■■ D1		563
	362	1 452	1.6	4.09	★ 2KJ1107 - ■ NN13 - ■■ C1		563
	408	1 288	1.8	3.63	★ 2KJ1107 - ■ NN13 - ■■ B1		563
	482	1 090	2.0	3.07	★ 2KJ1107 - ■ NN13 - ■■ A1		563
	E.148-LG250ZM4E						
	300	1 753	0.80	4.94	2KJ1007 - ■ NN13 - ■■ H1		494
	344	1 526	0.87	4.3	2KJ1007 - ■ NN13 - ■■ G1		494
	393	1 338	1.0	3.77	★ 2KJ1007 - ■ NN13 - ■■ F1		494
	464	1 132	1.4	3.19	★ 2KJ1007 - ■ NN13 - ■■ E1		494
	510	1 029	1.4	2.9	2KJ1007 - ■ NN13 - ■■ D1		494
	692	759	1.6	2.14	2KJ1007 - ■ NN13 - ■■ B1		494
	902	582	1.6	1.64	★ 2KJ1007 - ■ NN13 - ■■ A1		494
	E.128-K4-LGI250ZM4E						
	458	1 146	0.87	3.23	★ 2KJ1006 - ■ NN13 - ■■ F1		470
	536	980	1.0	2.76	★ 2KJ1006 - ■ NN13 - ■■ E1		470
75	D.188-K4-LGI280S4E						
	35	20 716	0.97	42.95	★ 2KJ1211 - ■ PG13 - ■■ A1		1 103

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
75	Z.188-K4-LGI280S4E						
	40	17 793	0.93	36.89	2KJ1111 - ■ PG13 - ■■ L1		1 069
	46	15 613	1.2	32.37	2KJ1111 - ■ PG13 - ■■ K1		1 069
	51	14 074	1.4	29.18 ★	2KJ1111 - ■ PG13 - ■■ J1		1 069
	60	11 947	1.7	24.77 ★	2KJ1111 - ■ PG13 - ■■ H1		1 069
	64	11 098	1.8	23.01	2KJ1111 - ■ PG13 - ■■ G1		1 069
	75	9 531	2.1	19.76 ★	2KJ1111 - ■ PG13 - ■■ F1		1 069
	88	8 132	2.5	16.86	2KJ1111 - ■ PG13 - ■■ E1		1 069
	112	6 405	2.9	13.28 ★	2KJ1111 - ■ PG13 - ■■ D1		1 069
	139	5 156	3.1	10.69 ★	2KJ1111 - ■ PG13 - ■■ C1		1 069
	160	4 481	3.2	9.29	2KJ1111 - ■ PG13 - ■■ B1		1 069
	179	4 003	2.7	8.3	2KJ1111 - ■ PG13 - ■■ A1		1 069
	Z.168-K4-LGI280S4E						
	51	14 118	0.99	29.27	2KJ1110 - ■ PG13 - ■■ Q1		939
	58	12 463	1.1	25.84	2KJ1110 - ■ PG13 - ■■ P1		939
	64	11 219	1.2	23.26 ★	2KJ1110 - ■ PG13 - ■■ N1		939
	77	9 309	1.5	19.3 ★	2KJ1110 - ■ PG13 - ■■ M1		939
	84	8 489	1.6	17.6	2KJ1110 - ■ PG13 - ■■ L1		939
	96	7 447	1.8	15.44 ★	2KJ1110 - ■ PG13 - ■■ K1		939
	112	6 400	2.0	13.27	2KJ1110 - ■ PG13 - ■■ J1		939
	144	4 987	2.5	10.34 ★	2KJ1110 - ■ PG13 - ■■ H1		939
	160	4 466	1.8	9.26 ★	2KJ1110 - ■ PG13 - ■■ G1		939
	181	3 960	2.9	8.21 ★	2KJ1110 - ■ PG13 - ■■ F1		939
	206	3 473	2.0	7.2 ★	2KJ1110 - ■ PG13 - ■■ E1		939
	240	2 990	2.5	6.2 ★	2KJ1110 - ■ PG13 - ■■ D1		939
	265	2 706	2.5	5.61 ★	2KJ1110 - ■ PG13 - ■■ C1		939
	301	2 378	3.0	4.93 ★	2KJ1110 - ■ PG13 - ■■ B1		939
	333	2 151	3.0	4.46 ★	2KJ1110 - ■ PG13 - ■■ A1		939
	Z.148-K4-LGI280S4E						
	74	9 748	0.82	20.21 ★	2KJ1108 - ■ PG13 - ■■ P1		775
	87	8 243	0.97	17.09 ★	2KJ1108 - ■ PG13 - ■■ N1		775
	96	7 481	1.1	15.51	2KJ1108 - ■ PG13 - ■■ M1		775
	110	6 521	1.2	13.52 ★	2KJ1108 - ■ PG13 - ■■ L1		775
	129	5 537	1.4	11.48	2KJ1108 - ■ PG13 - ■■ K1		775
	169	4 240	1.9	8.79 ★	2KJ1108 - ■ PG13 - ■■ J1		775
	172	4 167	1.2	8.64 ★	2KJ1108 - ■ PG13 - ■■ H1		775
	189	3 781	1.3	7.84	2KJ1108 - ■ PG13 - ■■ G1		775
	196	3 651	1.5	7.57 ★	2KJ1108 - ■ PG13 - ■■ F1		775
	217	3 299	1.5	6.84 ★	2KJ1108 - ■ PG13 - ■■ E1		775
	231	3 101	1.7	6.43	2KJ1108 - ■ PG13 - ■■ D1		775
	256	2 797	1.5	5.8	2KJ1108 - ■ PG13 - ■■ C1		775
	302	2 373	2.1	4.92 ★	2KJ1108 - ■ PG13 - ■■ B1		775
	334	2 142	1.8	4.44 ★	2KJ1108 - ■ PG13 - ■■ A1		775

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
75	E.148-K4-LGI280S4E						
	466	1 539	1.0	3.19	★ 2KJ1007 - ■ PG13 - ■■ E1		619
	512	1 399	1.0	2.9	2KJ1007 - ■ PG13 - ■■ D1		619
90	D.188-K4-LGI280ZM4E						
	35	24 859	0.80	42.95	★ 2KJ1211 - ■ PW13 - ■■ A1		1 143
	Z.188-K4-LGI280ZM4E						
	46	18 735	0.98	32.37	2KJ1111 - ■ PW13 - ■■ K1		1 109
	51	16 889	1.2	29.18	★ 2KJ1111 - ■ PW13 - ■■ J1		1 109
	60	14 337	1.4	24.77	★ 2KJ1111 - ■ PW13 - ■■ H1		1 109
	64	13 318	1.5	23.01	2KJ1111 - ■ PW13 - ■■ G1		1 109
	75	11 437	1.7	19.76	★ 2KJ1111 - ■ PW13 - ■■ F1		1 109
	88	9 758	2.0	16.86	2KJ1111 - ■ PW13 - ■■ E1		1 109
	112	7 686	2.4	13.28	★ 2KJ1111 - ■ PW13 - ■■ D1		1 109
	139	6 187	2.6	10.69	★ 2KJ1111 - ■ PW13 - ■■ C1		1 109
	160	5 377	2.7	9.29	2KJ1111 - ■ PW13 - ■■ B1		1 109
	179	4 804	2.2	8.3	2KJ1111 - ■ PW13 - ■■ A1		1 109
	Z.168-K4-LGI280ZM4E						
	51	16 941	0.83	29.27	2KJ1110 - ■ PW13 - ■■ Q1		979
	58	14 956	0.94	25.84	2KJ1110 - ■ PW13 - ■■ P1		979
	64	13 463	1.0	23.26	★ 2KJ1110 - ■ PW13 - ■■ N1		979
	77	11 171	1.3	19.3	★ 2KJ1110 - ■ PW13 - ■■ M1		979
	84	10 187	1.4	17.6	2KJ1110 - ■ PW13 - ■■ L1		979
	96	8 936	1.5	15.44	★ 2KJ1110 - ■ PW13 - ■■ K1		979
	112	7 681	1.7	13.27	2KJ1110 - ■ PW13 - ■■ J1		979
	144	5 985	2.1	10.34	★ 2KJ1110 - ■ PW13 - ■■ H1		979
	160	5 360	1.5	9.26	★ 2KJ1110 - ■ PW13 - ■■ G1		979
	181	4 752	2.4	8.21	★ 2KJ1110 - ■ PW13 - ■■ F1		979
	206	4 167	1.7	7.2	★ 2KJ1110 - ■ PW13 - ■■ E1		979
	240	3 588	2.1	6.2	★ 2KJ1110 - ■ PW13 - ■■ D1		979
	265	3 247	2.1	5.61	★ 2KJ1110 - ■ PW13 - ■■ C1		979
	301	2 853	2.5	4.93	★ 2KJ1110 - ■ PW13 - ■■ B1		979
	333	2 581	2.5	4.46	★ 2KJ1110 - ■ PW13 - ■■ A1		979
	Z.148-K4-LGI280ZM4E						
	87	9 891	0.81	17.09	★ 2KJ1108 - ■ PW13 - ■■ N1		815
	96	8 977	0.89	15.51	2KJ1108 - ■ PW13 - ■■ M1		815
	110	7 825	1.0	13.52	★ 2KJ1108 - ■ PW13 - ■■ L1		815
	129	6 644	1.2	11.48	2KJ1108 - ■ PW13 - ■■ K1		815
	169	5 088	1.6	8.79	★ 2KJ1108 - ■ PW13 - ■■ J1		815
	172	5 001	0.96	8.64	★ 2KJ1108 - ■ PW13 - ■■ H1		815
	189	4 538	1.1	7.84	2KJ1108 - ■ PW13 - ■■ G1		815
	196	4 381	1.3	7.57	★ 2KJ1108 - ■ PW13 - ■■ F1		815
	217	3 959	1.2	6.84	★ 2KJ1108 - ■ PW13 - ■■ E1		815
	231	3 722	1.5	6.43	2KJ1108 - ■ PW13 - ■■ D1		815
	256	3 357	1.3	5.8	2KJ1108 - ■ PW13 - ■■ C1		815

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

*) For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTOX Geared Motors

Helical geared motors

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight ^{*)} kg
90	Z.148-K4-LGI280ZM4E						
	302	2 848	1.8	4.92	★ 2KJ1108 - ■PW13 - ■■B1		815
	334	2 570	1.5	4.44	★ 2KJ1108 - ■PW13 - ■■A1		815
	E.148-K4-LGI280ZM4E						
	466	1 846	0.84	3.19	★ 2KJ1007 - ■PW13 - ■■E1		659
110	512	1 678	0.83	2.9	2KJ1007 - ■PW13 - ■■D1		659
	Z.188-K2-LGI315S4E						
	88	11 887	1.7	16.86	2KJ1111 - ■■QQ13 - ■■E1		1 289
	112	9 363	2.0	13.28	★ 2KJ1111 - ■■QQ13 - ■■D1		1 289
	139	7 537	2.1	10.69	★ 2KJ1111 - ■■QQ13 - ■■C1		1 289
132	160	6 550	2.2	9.29	2KJ1111 - ■■QQ13 - ■■B1		1 289
	180	5 852	1.8	8.3	2KJ1111 - ■■QQ13 - ■■A1		1 289
	Z.188-K2-LGI315ZM4E						
	88	14 312	1.4	16.86	2KJ1111 - ■■QS13 - ■■E1		1 344
	112	11 273	1.7	13.28	★ 2KJ1111 - ■■QS13 - ■■D1		1 344
160	139	9 075	1.8	10.69	★ 2KJ1111 - ■■QS13 - ■■C1		1 344
	160	7 886	1.8	9.29	2KJ1111 - ■■QS13 - ■■B1		1 344
	179	7 046	1.5	8.3	2KJ1111 - ■■QS13 - ■■A1		1 344
	Z.188-K2-LGI315L4E						
	88	17 348	1.2	16.86	2KJ1111 - ■■QU13 - ■■E1		1 469
200	112	13 665	1.4	13.28	★ 2KJ1111 - ■■QU13 - ■■D1		1 469
	139	11 000	1.5	10.69	★ 2KJ1111 - ■■QU13 - ■■C1		1 469
	160	9 559	1.5	9.29	2KJ1111 - ■■QU13 - ■■B1		1 469
	179	8 540	1.3	8.3	2KJ1111 - ■■QU13 - ■■A1		1 469
	Z.188-K2-LGI315ZLB4E						
200	88	21 612	0.93	16.86	2KJ1111 - ■■QV13 - ■■E1		1 584
	112	17 023	1.1	13.28	★ 2KJ1111 - ■■QV13 - ■■D1		1 584
	139	13 703	1.2	10.69	★ 2KJ1111 - ■■QV13 - ■■C1		1 584
	160	11 909	1.2	9.29	2KJ1111 - ■■QV13 - ■■B1		1 584
	180	10 640	1.0	8.3	2KJ1111 - ■■QV13 - ■■A1		1 584

★ Preferred transmission ratio

Shaft designs, see page 2/117

Frequency and voltage, see page 8/20

Gearbox housing mounting position, see page 2/119

^{*)} For mounting type B3

1, 2 or 9

1 to 9

A, F, H or R

MOTEX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]																		
Max. gearbox torque	Order No.	i_{tot}	n_2 (50 Hz)	φ	T_{2N} ($f_B=1$)	2.5x the value is permissible for a brief period (e.g. motor starting torque)																		
	15th and 16th position					rpm	arcmin	Nm	Motor size															
	Nm								63	71	80	90	100	112	132	160	180	200	225	250	280	315		
1-stage helical gearbox with 4-pole motors																								
E.38 32 ... 82	S1	9.33 ★	155	15	32	•	•																	
	R1	8.30	175	15	32	•	•	•																
	Q1	7.20 ★	201	16	38	•	•	•	•															
	P1	6.73	215	16	48	•	•	•	•															
	N1	5.92 ★	245	17	53	•	•	•	•															
	M1	5.18	280	17	70	•	•	•	•	•														
	L1	4.58 ★	317	17	78	•	•	•	•	•	• ¹⁾													
	K1	4.15	349	18	62	•	•	•	•	•	• ¹⁾													
	J1	3.67 ★	395	18	70	•	•	•	•	•	• ¹⁾													
	H1	3.31	438	18	65	•	•	•	•	•	• ¹⁾													
	G1	3.00 ★	483	19	80	•	•	•	•	•	• ¹⁾													
	F1	2.73	531	20	80	•	•	•	•	•	• ¹⁾													
	E1	2.50 ★	580	22	73	•	•	•	•	•	• ¹⁾													
	D1	2.24	647	22	72	•	•	•	•	•	• ¹⁾													
	C1	2.05 ★	707	22	80	•	•	•	•	•	• ¹⁾													
	B1	1.85	784	22	82	•	•	•	•	•	• ¹⁾													
	A1	1.59 ★	912	24	72	•	•	•	•	•	• ¹⁾													
E.48 55 ... 170	U1	11.30	128	12	55	•	•	•																
	T1	10.00 ★	145	12	80	•	•	•	•															
	S1	9.09	160	13	64	•	•	•	•															
	R1	8.17 ★	177	13	85	•	•	•	•															
	Q1	7.00	207	13	97	•	•	•	•	•														
	P1	6.33 ★	229	13	115	•	•	•	•	•	•													
	N1	5.85	248	13	120	•	•	•	•	•	•													
	M1	5.08 ★	285	14	120	•	•	•	•	•	•	• ¹⁾												
	L1	4.62	314	14	130	•	•	•	•	•	•	• ¹⁾												
	K1	4.21 ★	344	14	150	•	•	•	•	•	•	• ¹⁾												
	J1	3.87	375	15	160	•	•	•	•	•	•	• ¹⁾												
	H1	3.56 ★	407	15	140	•	•	•	•	•	•	• ¹⁾												
	G1	3.24	448	15	150	•	•	•	•	•	•	• ¹⁾												
	F1	2.95 ★	492	15	170	•	•	•	•	•	•	• ¹⁾												
	E1	2.70	537	15	160	•	•	•	•	•	•	• ¹⁾												
	D1	2.41 ★	602	15	150	•	•	•	•	•	•	• ¹⁾												
	C1	2.15	674	18	135			•	•	•	•	• ¹⁾												
	B1	1.83	792	19	115			•	•	•	•	• ¹⁾												
	A1	1.52 ★	954	22	100			•	•	•	•	• ¹⁾												

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

In the case of gearboxes of size 18 or 28, only possible with integrated motor or input unit KQ and QQS.

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	ϕ arcmin	T_{2N} ($f_B=1$) 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		
Nm						Motor size															
						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
E68 81 ... 250	W1	12.40 ★	117	10	81	•	•	•	•												
	V1	11.18	130	10	92	•	•	•	•												
	U1	10.08 ★	144	11	95	•	•	•	•												
	T1	8.82	164	11	150	•	•	•	•	•											
	S1	7.92 ★	183	11	170	•	•	•	•	•	•										
	R1	7.23	201	11	150	•	•	•	•	•	•										
	P1	6.42 ★	226	11	170	•	•	•	•	•	•	•									
	N1	5.92	245	11	190	•	•	•	•	•	•	•									
	M1	5.36 ★	271	11	220	•	•	•	•	•	•	•									
	L1	4.93	294	12	225	•	•	•	•	•	•	•									
	K1	4.56 ★	318	12	220	•	•	•	•	•	•	•	•	¹⁾							
	J1	4.24	342	12	230	•	•	•	•	•	•	•	•	•	¹⁾						
	H1	3.74 ★	388	12	230	•	•	•	•	•	•	•	•	•	¹⁾						
	G1	3.45	420	13	240	•	•	•	•	•	•	•	•	•	¹⁾						
	F1	3.09 ★	469	13	250	•	•	•	•	•	•	•	•	•	¹⁾						
	E1	2.85	509	15	250			•	•	•	•	•	•	•	¹⁾						
	D1	2.39	607	15	230			•	•	•	•	•	•	•	¹⁾						
	C1	2.04 ★	711	17	210			•	•	•	•	•	•	•	¹⁾						
	B1	1.70	853	17	175					•	•	•	•	•	¹⁾						
	A1	1.41 ★	1 028	19	150					•	•	•	•	•	¹⁾						
E88 210 ... 450	S1	10.33 ★	140	8	230				•	•	•										
	R1	9.46	153	8	210				•	•	•										
	Q1	8.42 ★	172	8	245				•	•	•	•									
	P1	7.69	189	8	245				•	•	•	•									
	N1	7.07 ★	205	9	290				•	•	•	•									
	M1	6.53	222	9	300				•	•	•	•									
	L1	6.06 ★	239	9	280				•	•	•	•	•								
	K1	5.65	257	9	320				•	•	•	•	•								
	J1	5.11 ★	284	9	370				•	•	•	•	•	•	¹⁾						
	H1	4.70	309	9	385				•	•	•	•	•	•	¹⁾						
	G1	4.23 ★	343	9	400				•	•	•	•	•	•	¹⁾						
	F1	3.90	372	11	385				•	•	•	•	•	•	¹⁾						
	E1	3.30	439	11	450				•	•	•	•	•	•	¹⁾						
	D1	2.88 ★	503	12	435				•	•	•	•	•	•	¹⁾						
	C1	2.45	592	13	420				•	•	•	•	•	•	¹⁾						
	B1	2.09 ★	694	13	420				•	•	•	•	•	•	¹⁾						
	A1	1.71 ★	848	14	355				•	•	•	•	•	•	¹⁾						

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

In the case of gearboxes of size 18 or 28, only possible with integrated motor or input unit KQ and QQS.

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	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		
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($i_B=1$) Nm	Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
E108 550 ... 745	K1	5.46 ★	266	8	660				•	•	•	•	•	•	•	• ¹⁾					
	J1	5.00	290	9	680				•	•	•	•	•	•	•	• ¹⁾					
	H1	4.26	340	9	720				•	•	•	•	•	•	•	• ¹⁾					
	G1	3.76 ★	386	9	600				•	•	•	•	•	•	•	• ¹⁾					
	F1	3.20	453	10	745					•	•	•	•	•	•	• ¹⁾					
	E1	2.77 ★	523	10	670					•	•	•	•	•	•	• ¹⁾					
	C1	2.33 ★	622	10	680					•	•	•	•	•	•	• ¹⁾					
	B1	2.11	687	11	620							•	•	•	•	• ¹⁾					
	A1	1.81 ★	801	12	550								•	•	•	•	• ¹⁾				
E128 544 ... 1000	T1	10.14 ★	143	6	544					•	•	•									
	S1	9.40	154	7	584					•	•	•									
	R1	8.94 ★	162	7	640					•	•	•	•								
	Q1	8.35	174	7	712					•	•	•	•								
	P1	7.37 ★	197	7	816					•	•	•	•	•	•						
	N1	6.95	209	7	880					•	•	•	•	•	•						
	M1	6.23 ★	233	7	928					•	•	•	•	•	•	•					
	L1	5.75	252	8	960					•	•	•	•	•	•	•					
	K1	4.91	295	8	960					•	•	•	•	•	•	•					
	J1	4.44 ★	327	8	1 000					•	•	•	•	•	•	•					
	H1	4.28	339	9	1 000						•	•	•	•	•	•	• ¹⁾				
	G1	3.70	392	9	1 000					•	•	•	•	•	•	•	• ¹⁾				
	F1	3.23 ★	449	9	1 000					•	•	•	•	•	•	•	• ¹⁾				
	E1	2.76 ★	525	9	1 000					•	•	•	•	•	•	•	• ¹⁾				
	D1	2.47	587	9	950							•	•	•	•	•	• ¹⁾				
	C1	2.10 ★	690	10	860								•	•	•	•	• ¹⁾				
	B1	1.81	801	10	800									•	•	•	• ¹⁾				
	A1	1.36 ★	1 066	12	680									•	•	•	• ¹⁾				
	E148 600 ... 1550	U1	13.67 ★	106	5	600							•								
T1		12.54	116	5	600							•									
S1		11.57 ★	125	6	680							•									
R1		10.73	135	6	760							•									
Q1		10.13 ★	143	6	800							•	•								
P1		9.47	153	6	920							•	•								
N1		8.42 ★	172	6	1 000							•	•	•	•						
M1		7.95	182	6	1 060							•	•	•	•						
L1		7.14 ★	203	6	1 120							•	•	•	•	•					
K1		6.55	221	7	1 150							•	•	•	•	•					
J1		5.65	257	7	1 360							•	•	•	•	•	•				
H1		4.94	294	7	1 400							•	•	•	•	•	•				
G1		4.30	337	8	1 330							•	•	•	•	•	•	•			
F1		3.77 ★	385	8	1 350							•	•	•	•	•	•	•			
E1		3.19 ★	455	8	1 550							•	•	•	•	•	•	•			
D1		2.90	500	9	1 400							•	•	•	•	•	•	•			
C1		2.52 ★	575	9	1 220							•	•	•	•	•	•	•			
B1		2.14	678	9	1 200								•	•	•	•	•	•			
A1		1.64 ★	884	10	960									•	•	•	•	•			

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

In the case of gearboxes of size 18 or 28, only possible with integrated motor or input unit KQ and QKS.

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
Max. gearbox torque	Order No.	i_{tot}	n_2 (50 Hz)	φ	T_{2N} ($f_B=1$)	2.5x the value is permissible for a brief period (e.g. motor starting torque)															
	15th and 16th position					3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
Nm			rpm	arcmin	Nm	Motor size															
						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
2-stage and 3-stage helical gearbox with 4-pole motors, 50 Hz (at service factor $f_B = 1$ and ambient temperature of 20 °C)																					
D18 90	P1	200.36	7.2	31	90	•															
	N1	172.85 ★	8.4	31	90	•															
	M1	148.50	9.8	31	90	•															
	L1	136.71 ★	10.6	31	90	•															
	K1	124.29	11.7	31	90	•															
	J1	110.01 ★	13.2	31	90	•															
	H1	92.14	15.7	31	90	•															
	G1	78.56 ★	18.5	31	90	•															
	F1	66.78 ★	22.0	31	90	•															
	E1	58.03	25.0	31	90	•															
	D1	50.51 ★	29.0	31	90	•															
	C1	45.56	32.0	31	90	•															
	B1	40.21	36.0	31	90	•															
A1	32.26 ★	45.0	31	90	•																
Z18 46 ... 90	U1	43.15	34	28	90	•															
	T1	37.23 ★	39	28	90	•															
	S1	31.98	45	29	90	•															
	R1	29.45 ★	49	29	90	•															
	Q1	26.77	54	29	90	•															
	P1	23.69 ★	61	29	90	•															
	N1	19.85	73	29	90	•															
	M1	16.92 ★	86	29	90	•															
	L1	14.38 ★	101	29	90	•															
	K1	12.50	116	30	90	•															
	J1	10.88 ★	133	30	87	•															
	H1	9.81	148	30	83	•															
	G1	8.66	167	30	80	•															
	F1	7.42 ★	195	38	55	•															
	E1	6.45	225	39	53	•															
	D1	5.61 ★	258	40	51	•															
	C1	5.06	286	40	49	•															
	B1	4.47	325	40	49	•															
	A1	3.58 ★	405	41	46	•															

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
						2.5x the value is permissible for a brief period (e.g. motor starting torque)															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
						Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D28 140	N1	241.05	6.0	26	140		•														
	M1	207.96 ★	7.0	26	140		•	•													
	L1	178.66	8.1	26	140		•	•													
	K1	164.48 ★	8.8	26	140		•	•	•												
	J1	149.53	9.7	26	140		•	•	•												
	H1	132.35 ★	11.0	26	140		•	•	•												
	G1	110.86	13.1	26	140		•	•	•												
	F1	94.52 ★	15.3	26	140		•	•	•												
	E1	80.34 ★	18.0	26	140		•	•	•												
	D1	69.82	21.0	26	140		•	•	•												
	C1	60.77 ★	24.0	26	140		•	•	•												
Z28 77 ... 140	B1	54.82	26.0	26	140		•	•	•												
	A1	48.38	30.0	26	140		•	•	•												
	C2	51.35	28	24	140		•														
	B2	43.30 ★	33	24	140		•	•													
	A2	38.45	38	24	140		•	•													
	X1	33.71 ★	43	24	140		•	•	•												
	W1	30.16	48	24	140		•	•	•												
	V1	26.77 ★	54	24	140		•	•	•												
	U1	23.46	62	24	140		•	•	•												
	T1	20.63 ★	70	24	140		•	•	•												
	S1	18.63	78	25	140		•	•	•	•											
	R1	16.24 ★	89	25	140		•	•	•												
	Q1	14.58	99	25	140		•	•	•												
	P1	13.17 ★	110	25	140		•	•	•	•											
	N1	11.94	121	25	140		•	•	•	•	•										
	M1	10.87 ★	133	25	140		•	•	•	•	•										
	L1	9.61	151	26	140		•	•	•	•	•										
	K1	8.87 ★	163	26	140		•	•	•	•	•										
	J1	7.64	190	26	136		•	•	•	•	•										
	H1	6.94 ★	209	26	132		•	•	•	•	•										
	G1	6.31 ★	230	35	95		•	•	•	•	•										
	F1	5.72	253	35	93		•	•	•	•	•										
	E1	5.21 ★	278	36	92		•	•	•	•	•										
	D1	4.60	315	36	88		•	•	•	•	•										
	C1	4.25 ★	341	36	90		•	•	•	•	•										
	B1	3.66	396	37	80		•	•	•	•	•										
	A1	3.33 ★	436	37	77		•	•	•	•	•										

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

$$T_{2max} = T_1 \times i_{tot}; \text{ if } T_{2max} \leq T_{2N}$$

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
						2.5x the value is permissible for a brief period (e.g. motor starting torque)															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	Motor size															
						3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
Z.38-D28 220	M1	5 905	0.24	–	220		•														
	L1	5 094	★	0.27	–	220		•	•												
	K1	4 376		0.32	–	220		•	•												
	J1	4 029	★	0.35	–	220		•	•	•											
	H1	3 663		0.38	–	220		•	•	•											
	G1	3 242	★	0.43	–	220		•	•	•											
	F1	2 715		0.52	–	220		•	•	•											
	E1	2 315	★	0.60	–	220		•	•	•											
	D1	1 968	★	0.71	–	220		•	•	•											
	C1	1 710		0.82	–	220		•	•	•											
	B1	1 489	★	0.94	–	220		•	•	•											
A1	1 343		1.00	–	220		•	•	•												
Z38-Z28 220	R1	1 258		1.1	–	220		•													
	Q1	1 061	★	1.3	–	220		•	•												
	P1	942		1.5	–	220		•	•												
	N1	890		1.6	–	220		•													
	M1	751	★	1.9	–	220		•	•												
	L1	666		2.1	–	220		•	•												
	K1	584	★	2.4	–	220		•	•	•											
	J1	523		2.7	–	220		•	•	•											
	H1	464	★	3.0	–	220		•	•	•											
	G1	407		3.4	–	220		•	•	•											
	F1	358	★	3.9	–	220		•	•	•											
	E1	323		4.3	–	220		•	•	•	•										
	D1	281	★	5.0	–	220		•	•	•											
	C1	253		5.5	–	220		•	•	•											
	B1	228	★	6.1	–	220		•	•	•	•										
A1	207		6.8	–	220		•	•	•	•											

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.

²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T ₁ [Nm]															
Max. gearbox torque	Order No. 15th and 16th position	i _{tot}	n ₂ (50 Hz) rpm	φ arcmin	T _{2N} (f _B =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		
Nm						Motor size															
						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D38 220	S1	191.75 ★	7.6	19	220	•	•	•													
	R1	170.24	8.5	19	220	•	•	•													
	Q1	149.26 ★	9.7	19	220	•	•	•	•												
	P1	133.57	10.9	19	220	•	•	•	•												
	N1	118.55 ★	12.2	19	220	•	•	•	•												
	M1	103.89	14.0	19	220	•	•	•	•												
	L1	91.34 ★	15.9	19	220	•	•	•	•												
	K1	82.52	17.6	19	220	•	•	•	•												
	J1	71.91 ★	20.0	20	220	•	•	•	•												
	H1	64.58	22.0	20	220	•	•	•	•												
	G1	58.30 ★	25.0	20	220	•	•	•	•												
	F1	52.86	27.0	20	220	•	•	•	•												
	E1	48.10 ★	30.0	20	220	•	•	•	•												
	D1	42.53	34.0	20	220	•	•	•	•												
	C1	39.28 ★	37.0	20	220	•	•	•	•												
	B1	33.82	43.0	20	220	•	•	•	•												
	A1	30.74 ★	47.0	20	220	•	•	•	•												
Z38 160 ... 220	A2	44.12 ★	33	18	220	•	•	•													
	X1	39.24	37	18	208	•	•	•													
	W1	34.04 ★	43	19	220	•	•	•	•												
	V1	31.80	46	19	220	•	•	•	•												
	U1	27.97 ★	52	19	220	•	•	•	•												
	T1	24.50	59	19	220	•	•	•	•	•											
	S1	21.67 ★	67	19	220	•	•	•	•	•	•	1)									
	R1	19.64	74	19	220	•	•	•	•	•	•	•	1)								
	Q1	17.33 ★	84	19	220	•	•	•	•	•	•	•	•	1)							
	P1	15.64	93	19	220	•	•	•	•	•	•	•	•	•	1)						
	N1	14.18 ★	102	19	220	•	•	•	•	•	•	•	•	•	•	1)					
	M1	12.92	112	19	220	•	•	•	•	•	•	•	•	•	•	•	1)				
	L1	11.82 ★	123	20	220	•	•	•	•	•	•	•	•	•	•	•	•	1)			
	K1	10.57	137	20	210	•	•	•	•	•	•	•	•	•	•	•	•	•	1)		
	J1	9.70 ★	149	20	200	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	H1	8.75	166	20	195	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	G1	7.52 ★	193	20	190	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	F1	7.50 ★	193	24	185	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	D1	6.71	216	24	180	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	C1	6.16 ★	235	24	170	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	B1	5.55	261	24	165	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	A1	4.77 ★	304	24	160	•	•	•	•	•	•	•	•	•	•	•	•	•	•		

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
						2.5x the value is permissible for a brief period (e.g. motor starting torque)															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
						Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D48-D28 450	N1	27 940		0.05	–	450		•													
	M1	24 104	★	0.06	–	450		•	•												
	L1	20 708		0.07	–	450		•	•												
	K1	19 065	★	0.07	–	450		•	•	•											
	J1	17 332		0.08	–	450		•	•	•											
	H1	15 341	★	0.09	–	450		•	•	•											
	G1	12 849		0.11	–	450		•	•	•											
	F1	10 956	★	0.13	–	450		•	•	•											
	E1	9 312	★	0.15	–	450		•	•	•											
	D1	8 093		0.17	–	450		•	•	•											
	C1	7 044	★	0.20	–	450		•	•	•											
	B1	6 354		0.22	–	450		•	•	•											
A1	5 608		0.25	–	450		•	•	•												
D48-Z28 450	H2	5 019	★	0.28	–	450		•	•												
	G2	4 456		0.31	–	450		•	•												
	F2	3 907	★	0.36	–	450		•	•	•											
	E2	3 496		0.40	–	450		•	•	•											
	D2	3 103	★	0.45	–	450		•	•	•											
	C2	2 720		0.51	–	450		•	•	•											
	B2	2 391	★	0.59	–	450		•	•	•											
	A2	2 160		0.65	–	450		•	•	•	•										
	X1	1 882	★	0.74	–	450		•	•	•											
	W1	1 690		0.83	–	450		•	•	•											
	V1	1 526	★	0.92	–	450		•	•	•	•										
	U1	1 384		1.00	–	450		•	•	•	•										
	T1	1 259	★	1.10	–	450		•	•	•	•										
	S1	1 113		1.30	–	450		•	•	•	•										
	R1	1 028	★	1.40	–	450		•	•	•	•										
	Q1	885		1.60	–	450		•	•	•	•										
	P1	805	★	1.70	–	450		•	•	•	•										
	N1	731	★	1.90	–	450		•	•	•	•										
	M1	663		2.10	–	450		•	•	•	•										
	L1	603	★	2.30	–	450		•	•	•	•										
	K1	534		2.60	–	450		•	•	•	•										
	J1	493	★	2.80	–	450		•	•	•	•										
	H1	424		3.30	–	450		•	•	•	•										
	G1	423	★	3.30	–	450		•	•	•	•										
	F1	384		3.70	–	450		•	•	•	•										
	E1	349	★	4.00	–	450		•	•	•	•										
	D1	309		4.50	–	450		•	•	•	•										
	C1	285	★	4.90	–	450		•	•	•	•										
	B1	246		5.70	–	450		•	•	•	•										
	A1	223	★	6.30	–	450		•	•	•	•										

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
						2.5x the value is permissible for a brief period (e.g. motor starting torque)															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	ϕ arcmin	T_{2N} ($f_B=1$) Nm	3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
						Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D48 450	S1	208.77 ★	6.9	17	450	•	•	•													
	R1	185.66	7.8	17	450	•	•	•													
	Q1	161.05 ★	9.0	17	450	•	•	•	•												
	P1	150.48	9.6	17	450	•	•	•	•												
	N1	132.34 ★	11.0	17	450	•	•	•	•												
	M1	115.91	12.5	17	450	•	•	•	•	•											
	L1	102.52 ★	14.1	17	450	•	•	•	•	•											
	K1	92.91	15.6	17	450	•	•	•	•	•											
	J1	82.02 ★	17.7	17	450	•	•	•	•	•											
	H1	73.99	19.6	18	450	•	•	•	•	•											
	G1	67.10 ★	22.0	18	450	•	•	•	•	•											
	F1	61.14	24.0	18	450	•	•	•	•	•											
	E1	55.92 ★	26.0	18	450	•	•	•	•	•											
	D1	50.00	29.0	18	450	•	•	•	•	•											
	C1	45.91 ★	32.0	18	450	•	•	•	•	•											
	B1	41.38	35.0	18	450	•	•	•	•	•											
	A1	35.59	41.0	18	450	•	•	•	•	•											
Z48 260 ... 450	A2	51.28	28	16	292	•	•	•													
	X1	45.38 ★	32	16	450	•	•	•	•												
	W1	41.26	35	16	450	•	•	•	•												
	V1	37.06 ★	39	17	450	•	•	•	•												
	U1	31.77	46	17	450	•	•	•	•	•											
	T1	28.74 ★	50	17	450	•	•	•	•	•	•										
	S1	26.53	55	17	450	•	•	•	•	•	•										
	R1	23.07 ★	63	17	450	•	•	•	•	•	•	• ¹⁾									
	Q1	20.95	69	17	450	•	•	•	•	•	•	•	• ¹⁾								
	P1	19.13 ★	76	17	450	•	•	•	•	•	•	•	•	• ¹⁾							
	N1	17.55	83	17	450	•	•	•	•	•	•	•	•	•	• ¹⁾						
	M1	16.17 ★	90	17	430	•	•	•	•	•	•	•	•	•	•	• ¹⁾					
	L1	14.68	99	17	420	•	•	•	•	•	•	•	•	•	•	•	• ¹⁾				
	K1	13.38 ★	108	17	410	•	•	•	•	•	•	•	•	•	•	•	•	• ¹⁾			
	J1	12.25	118	17	400	•	•	•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		
	H1	10.93 ★	133	17	390	•	•	•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		
	G1	9.76	149	18	380			•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		
	F1	8.29	175	18	360			•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		
	E1	6.90 ★	210	19	340			•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		
	D1	6.79 ★	214	19	270	•	•	•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		
	C1	6.06	239	20	270			•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		
	B1	5.15	282	20	270			•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		
	A1	4.28 ★	339	21	260			•	•	•	•	•	•	•	•	•	•	•	• ¹⁾		

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
						2.5x the value is permissible for a brief period (e.g. motor starting torque)															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz)	φ	T_{2N} ($f_B=1$)	3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
						Motor size															
Nm			rpm	arcmin	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D68-D28 800	N1	41 961		0.03	—	800		•													
	M1	36 200	★	0.04	—	800		•	•												
	L1	31 101		0.05	—	800		•	•												
	K1	28 633	★	0.05	—	800		•	•	•											
	J1	26 030		0.05	—	800		•	•	•											
	H1	23 039	★	0.06	—	800		•	•	•											
	G1	19 297		0.07	—	800		•	•	•											
	F1	16 454	★	0.09	—	800		•	•	•											
	E1	13 986	★	0.10	—	800		•	•	•											
	D1	12 154		0.12	—	800		•	•	•											
	C1	10 579	★	0.13	—	800		•	•	•											
D68-Z28 800	B1	9 543		0.15	—	800		•	•	•											
	A1	8 422		0.17	—	800		•	•	•											
	H2	7 538	★	0.19	—	800		•	•												
	G2	6 693		0.21	—	800		•	•												
	F2	5 868	★	0.24	—	800		•	•	•											
	E2	5 251		0.27	—	800		•	•	•											
	D2	4 660	★	0.30	—	800		•	•	•											
	C2	4 084		0.34	—	800		•	•	•											
	B2	3 591	★	0.39	—	800		•	•	•											
	A2	3 244		0.43	—	800		•	•	•	•										
	X1	2 827	★	0.50	—	800		•	•	•											
	W1	2 539		0.55	—	800		•	•	•											
	V1	2 292	★	0.61	—	800		•	•	•	•										
	U1	2 078		0.67	—	800		•	•	•	•										
	T1	1 891	★	0.74	—	800		•	•	•	•										
	S1	1 672		0.84	—	800		•	•	•	•										
	R1	1 544	★	0.91	—	800		•	•	•	•										
	Q1	1 329		1.10	—	800		•	•	•	•										
	P1	1 208	★	1.20	—	800		•	•	•	•										
	N1	1 098	★	1.30	—	800		•	•	•	•										
	M1	996		1.40	—	800		•	•	•	•										
	L1	906	★	1.50	—	800		•	•	•	•										
	K1	801		1.80	—	800		•	•	•	•										
	J1	740	★	1.90	—	800		•	•	•	•										
	H1	637		2.20	—	800		•	•	•	•										
	G1	607	★	2.30	—	800		•	•	•	•										
	F1	550		2.50	—	800		•	•	•	•										
	E1	501	★	2.80	—	800		•	•	•	•										
	D1	443		3.20	—	800		•	•	•	•										
	C1	409	★	3.40	—	800		•	•	•	•										
	B1	352		4.00	—	800		•	•	•	•										
	A1	320	★	4.40	—	800		•	•	•	•										

★ Preferred transmission ratio

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($i_B=1$) 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		
Nm						Motor size															
						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D68 800	U1	281.01	5.2	–	800	•	•	•													
	T1	248.68 ★	5.8	15	800	•	•	•	•												
	S1	226.07	6.4	15	800	•	•	•	•												
	R1	203.09 ★	7.1	15	800	•	•	•	•												
	Q1	174.08	8.3	15	800	•	•	•	•	•											
	P1	157.50 ★	9.2	15	800	•	•	•	•	•											
	N1	145.38	10.0	15	800	•	•	•	•	•											
	M1	126.41 ★	11.5	15	800	•	•	•	•	•											
	L1	114.78	12.6	15	800	•	•	•	•	•											
	K1	104.80 ★	13.8	15	800	•	•	•	•	•	•										
	J1	96.16	15.1	15	800	•	•	•	•	•											
	H1	88.59 ★	16.4	15	800	•	•	•	•	•											
	G1	80.46	18.0	15	800	•	•	•	•	•											
	F1	73.30 ★	19.8	15	800	•	•	•	•	•											
	E1	67.14	22.0	15	800	•	•	•	•	•											
	D1	59.91 ★	24.0	15	800	•	•	•	•	•											
	C1	53.47	27.0	15	800			•	•	•											
	B1	45.41	32.0	15	800			•	•	•											
	A1	37.80	38.0	15	800			•	•	•											
Z68 420 ... 800	X1	48.09 ★	30	14	535	•	•	•	•												
	W1	42.06	34	14	800	•	•	•	•	•											
	V1	37.76 ★	38	14	800	•	•	•	•	•	•										
	U1	34.49	42	14	800	•	•	•	•	•	•										
	T1	30.60 ★	47	14	800	•	•	•	•	•	•	•									
	S1	28.25	51	14	800	•	•	•	•	•	•	•									
	R1	25.55 ★	57	14	800	•	•	•	•	•	•	•									
	Q1	23.53	62	14	800	•	•	•	•	•	•	•									
	P1	21.76 ★	67	14	800	•	•	•	•	•	•	•	•	¹⁾							
	N1	20.20	72	14	800	•	•	•	•	•	•	•	•	•	¹⁾						
	M1	17.82 ★	81	14	800	•	•	•	•	•	•	•	•	•	¹⁾						
	L1	16.45	88	14	800	•	•	•	•	•	•	•	•	•	¹⁾						
	K1	14.74 ★	98	14	800	•	•	•	•	•	•	•	•	•	¹⁾						
	J1	13.59	107	15	800			•	•	•	•	•	•	•	¹⁾						
	H1	11.40	127	15	785			•	•	•	•	•	•	•	¹⁾						
	G1	9.73 ★	149	15	745			•	•	•	•	•	•	•	¹⁾						
	F1	8.11	179	15	700					•	•	•	•	•	¹⁾						
	E1	6.72 ★	216	16	650					•	•	•	•	•	¹⁾						
	D1	5.93	245	19	490					•	•	•	•	•	¹⁾						
	C1	5.06 ★	287	20	480					•	•	•	•	•	¹⁾						
	B1	4.22	344	20	470					•	•	•	•	•	¹⁾						
	A1	3.49 ★	415	21	420					•	•	•	•	•	¹⁾						

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Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	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		
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.88-D.28 800	N1	46 233		0.03	–	1 680		•													
	M1	39 885	★	0.04	–	1 680		•	•												
	L1	34 267		0.04	–	1 680		•	•												
	K1	31 547	★	0.04	–	1 680		•	•	•											
	J1	28 679		0.05	–	1 680		•	•	•											
	H1	25 384	★	0.06	–	1 680		•	•	•											
	G1	21 262		0.07	–	1 680		•	•	•											
	F1	18 129	★	0.08	–	1 680		•	•	•											
	E1	15 409	★	0.09	–	1 680		•	•	•											
	D1	13 391		0.10	–	1 680		•	•	•											
	C1	11 656	★	0.12	–	1 680		•	•	•											
B1	10 514		0.13	–	1 680		•	•	•												
A1	9 279		0.15	–	1 680		•	•	•												
D.88-Z.28 800	H2	8 305	★	0.17	–	1 680		•	•												
	G2	7 374		0.19	–	1 680		•	•												
	F2	6 465	★	0.22	–	1 680		•	•	•											
	E2	5 785		0.24	–	1 680		•	•	•											
	D2	5 134	★	0.27	–	1 680		•	•	•											
	C2	4 500		0.31	–	1 680		•	•	•											
	B2	3 957	★	0.35	–	1 680		•	•	•											
	A2	3 574		0.39	–	1 680		•	•	•	•										
	X1	3 114	★	0.45	–	1 680		•	•	•											
	W1	2 797		0.50	–	1 680		•	•	•											
	V1	2 525	★	0.55	–	1 680		•	•	•	•										
	U1	2 290		0.61	–	1 680		•	•	•	•										
	T1	2 084	★	0.67	–	1 680		•	•	•	•										
	S1	1 842		0.76	–	1 680		•	•	•	•										
	R1	1 701	★	0.82	–	1 680		•	•	•	•										
	Q1	1 465		0.96	–	1 680		•	•	•	•										
	P1	1 331	★	1.10	–	1 680		•	•	•	•										
	N1	1 210	★	1.20	–	1 680		•	•	•	•										
	M1	1 097		1.30	–	1 680		•	•	•	•										
	L1	999	★	1.40	–	1 680		•	•	•	•										
	K1	883		1.60	–	1 680		•	•	•	•										
	J1	815	★	1.70	–	1 680		•	•	•	•										
	H1	702		2.00	–	1 680		•	•	•	•										
	G1	647	★	2.20	–	1 680		•	•	•	•										
	F1	587		2.40	–	1 680		•	•	•	•										
	E1	534	★	2.60	–	1 680		•	•	•	•										
	D1	472		3.00	–	1 680		•	•	•	•										
	C1	436	★	3.20	–	1 680		•	•	•	•										
	B1	375		3.70	–	1 680		•	•	•	•										
	A1	341	★	4.10	–	1 680		•	•	•	•										

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	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		
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	ϕ arcmin	T_{2N} ($f_B=1$) Nm	Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.88 1 680	V1	300.41 ★	4.8	12	1 680	•	•	•	•												
	U1	270.90	5.4	12	1 680	•	•	•	•												
	T1	244.29 ★	5.9	12	1 680	•	•	•	•												
	S1	213.64	6.8	12	1 680	•	•	•	•	•											
	R1	191.80 ★	7.6	12	1 680	•	•	•	•	•	•										
	Q1	175.18	8.3	12	1 680	•	•	•	•	•	•										
	R1	155.46 ★	9.3	12	1 680	•	•	•	•	•	•	•									
	N1	143.50	10.1	12	1 680	•	•	•	•	•	•	•									
	M1	129.79 ★	11.2	12	1 680	•	•	•	•	•	•	•									
	L1	119.52	12.1	12	1 680	•	•	•	•	•	•	•									
	K1	110.54 ★	13.1	12	1 680	•	•	•	•	•	•	•	•								
	J1	102.61	14.1	12	1 680	•	•	•	•	•	•	•									
	H1	90.53 ★	16.0	12	1 680	•	•	•	•	•	•	•									
	G1	83.58	17.3	12	1 680	•	•	•	•	•	•	•	•								
	F1	74.88 ★	19.4	12	1 680	•	•	•	•	•	•	•	•								
	E1	69.05	21.0	12	1 680			•	•	•	•	•	•								
	D1	57.93	25.0	12	1 680			•	•	•	•	•	•								
	C1	49.42 ★	29.0	12	1 680			•	•	•	•	•	•								
	B1	41.19	35.0	12	1 680					•	•	•	•								
	A1	34.14 ★	42.0	12	1 680					•	•	•	•								
Z.88 660 ... 1 680	B2	50.73	29	11	1 468				•	•											
	A2	45.76 ★	32	11	1 680				•	•	•										
	X1	41.90	35	11	1 680				•	•	•										
	W1	37.27 ★	39	11	1 680				•	•	•	•									
	V1	34.07	43	11	1 680				•	•	•	•									
	U1	31.32 ★	46	11	1 680				•	•	•	•									
	T1	28.93	50	11	1 680				•	•	•	•									
	S1	26.85 ★	54	11	1 680				•	•	•	•	•								
	R1	25.01	58	11	1 680				•	•	•	•	•	•							
	Q1	22.61 ★	64	11	1 680				•	•	•	•	•	•	• ¹⁾						
	P1	20.81	70	11	1 680				•	•	•	•	•	•	•	• ¹⁾					
	N1	18.72 ★	77	11	1 680				•	•	•	•	•	•	•	• ¹⁾					
	M1	17.27	84	12	1 680				•	•	•	•	•	•	•	• ¹⁾					
	L1	14.63	99	12	1 620				•	•	•	•	•	•	•	• ¹⁾					
	K1	12.75 ★	114	12	1 550				•	•	•	•	•	•	•	• ¹⁾					
	J1	10.85	134	12	1 470					•	•	•	•	•	•	• ¹⁾					
	H1	9.26 ★	157	12	1 390					•	•	•	•	•	•	• ¹⁾					
	G1	7.59 ★	191	13	1 300					•	•	•	•	•	•	• ¹⁾					
	F1	6.96	208	15	1 260					•	•	•	•	•	•	• ¹⁾					
	E1	5.94 ★	244	16	1 190					•	•	•	•	•	•	• ¹⁾					
	D1	4.87 ★	298	16	1 110					•	•	•	•	•	•	• ¹⁾					
	C1	4.45 ★	326	19	800					•	•	•	•	•	•	• ¹⁾					
	B1	3.79 ★	383	20	740					•	•	•	•	•	•	• ¹⁾					
	A1	3.11 ★	466	20	660					•	•	•	•	•	•	• ¹⁾					

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
						2.5x the value is permissible for a brief period (e.g. motor starting torque)															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	Motor size															
						3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.108-D38 3 100	P1	68 896	0.02	—	3 100	•	•	•													
	N1	61 169	0.02	—	3 100	•	•	•													
	M1	53 627	0.03	—	3 100	•	•	•	•												
	L1	47 990	0.03	—	3 100	•	•	•	•												
	K1	42 595	0.03	—	3 100	•	•	•	•												
	J1	37 326	0.04	—	3 100	•	•	•	•												
	H1	32 819	0.04	—	3 100	•	•	•	•												
	G1	29 650	0.05	—	3 100	•	•	•	•												
	F1	25 836	0.06	—	3 100	•	•	•	•												
	E1	23 204	0.06	—	3 100	•	•	•	•												
	D1	20 948	0.07	—	3 100	•	•	•	•												
	C1	18 993	0.08	—	3 100	•	•	•	•												
D.108-Z38 3 100	B1	17 282	0.08	—	3 100	•	•	•	•												
	A1	15 280	0.09	—	3 100	•	•	•	•												
	P2	15 853	0.09	—	3 100	•	•	•													
	N2	14 098	0.10	—	3 100	•	•	•													
	M2	12 229	0.12	—	3 100	•	•	•	•												
	L2	11 426	0.13	—	3 100	•	•	•	•												
	K2	10 049	0.14	—	3 100	•	•	•	•												
	J2	8 801	0.16	—	3 100	•	•	•	•	•											
	H2	7 785	0.19	—	3 100	•	•	•	•	•											
	G2	7 055	0.21	—	3 100	•	•	•	•	•											
	F2	6 228	0.23	—	3 100	•	•	•	•	•											
	E2	5 618	0.26	—	3 100	•	•	•	•	•											
	D2	5 096	0.28	—	3 100	•	•	•	•	•											
	C2	4 643	0.31	—	3 100	•	•	•	•	•											
	B2	4 246	0.34	—	3 100	•	•	•	•	•											
	A2	3 797	0.38	—	3 100	•	•	•	•	•											
	X1	3 624	0.40	—	3 100	•	•	•													
	W1	3 223	0.45	—	3 100	•	•	•													
	V1	2 796	0.52	—	3 100	•	•	•	•												
	U1	2 612	0.56	—	3 100	•	•	•	•												
	T1	2 297	0.63	—	3 100	•	•	•	•												
	S1	2 012	0.72	—	3 100	•	•	•	•	•											
	R1	1 780	0.81	—	3 100	•	•	•	•	•											
	Q1	1 613	0.90	—	3 100	•	•	•	•	•											
	P1	1 424	1.00	—	3 100	•	•	•	•	•											
	N1	1 284	1.10	—	3 100	•	•	•	•	•											
	M1	1 165	1.20	—	3 100	•	•	•	•	•											
	L1	1 061	1.40	—	3 100	•	•	•	•	•											
	K1	971	1.50	—	3 100	•	•	•	•	•											
	J1	868	1.70	—	3 100	•	•	•	•	•											
	H1	797	1.80	—	3 100	•	•	•	•	•											
	G1	718	2.00	—	3 100	•	•	•	•	•											
	F1	618	2.30	—	3 100	•	•	•	•	•											
	E1	616	2.40	—	3 100	•	•	•	•	•											
	D1	551	2.60	—	3 100	•	•	•	•	•											
	C1	506	2.90	—	3 100	•	•	•	•	•											
	B1	456	3.20	—	3 100	•	•	•	•	•											
	A1	392	3.70	—	3 100	•	•	•	•	•											

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
						2.5x the value is permissible for a brief period (e.g. motor starting torque)															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz)	ϕ	T_{2N} ($f_B=1$)	Motor size															
						3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
Nm			rpm	arcmin	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.108 3 100	V1	359.30	4.0	10	3 100			•	•												
	U1	325.21 ★	4.5	10	3 100			•	•												
	T1	284.73	5.1	10	3 100			•	•	•											
	S1	256.86 ★	5.6	10	3 100			•	•	•	•										
	R1	235.19	6.2	10	3 100			•	•	•	•										
	Q1	209.21 ★	6.9	10	3 100			•	•	•	•	•									
	P1	191.21	7.6	10	3 100			•	•	•	•	•									
	N1	175.78 ★	8.2	10	3 100			•	•	•	•	•									
	M1	162.40	8.9	10	3 100			•	•	•	•	•									
	L1	150.70 ★	9.6	10	3 100			•	•	•	•	•	•								
	K1	140.37	10.3	10	3 100			•	•	•	•	•	•	•							
	J1	126.90 ★	11.4	10	3 100			•	•	•	•	•	•	•							
	H1	116.83	12.4	10	3 100			•	•	•	•	•	•	•							
	G1	105.08 ★	13.8	10	3 100			•	•	•	•	•	•	•							
	F1	96.94	15.0	10	3 100			•	•	•	•	•	•	•							
	E1	82.14	17.7	10	3 100			•	•	•	•	•	•	•							
	D1	71.59 ★	20.0	10	3 100			•	•	•	•	•	•	•							
	C1	60.90	24.0	10	3 100					•	•	•	•	•							
	B1	51.97 ★	28.0	10	3 100					•	•	•	•	•							
	A1	42.61 ★	34.0	10	3 100					•	•	•	•	•							
Z.108 1 080 ... 3 100	E2	59.05 ★	25	9	2 368				•	•	•										
	D2	54.15	27	9	2 306				•	•	•										
	C2	48.38 ★	30	9	3 100				•	•	•	•									
	B2	44.31	33	9	3 100				•	•	•	•									
	A2	40.82 ★	36	9	3 100				•	•	•	•									
	X1	37.79	38	9	3 100				•	•	•	•									
	W1	35.14 ★	41	9	3 100				•	•	•	•	•								
	V1	32.81	44	9	3 100				•	•	•	•	•	•							
	U1	29.35 ★	49	9	3 100				•	•	•	•	•	•	•						
	T1	27.20	53	9	3 100				•	•	•	•	•	•	•	•					
	S1	24.94 ★	58	9	3 100				•	•	•	•	•	•	•	•	•	1)			
	R1	22.86	63	9	3 100				•	•	•	•	•	•	•	•	•	•	1)		
	Q1	19.48	74	9	3 100				•	•	•	•	•	•	•	•	•	•	1)		
	P1	17.19 ★	84	10	3 100				•	•	•	•	•	•	•	•	•	•	1)		
	N1	14.63	99	10	3 100					•	•	•	•	•	•	•	•	•	1)		
	M1	12.68 ★	114	10	3 100					•	•	•	•	•	•	•	•	•	1)		
	L1	10.67 ★	136	10	3 100					•	•	•	•	•	•	•	•	•	1)		
	K1	9.62	151	10	3 100							•	•	•	•	•	•	•	1)		
	J1	8.27 ★	175	10	3 100							•	•	•	•	•	•	•	1)		
	H1	7.10 ★	204	12	1 800					•	•	•	•	•	•	•	•	•	1)		
	G1	6.41	226	12	1 760							•	•	•	•	•	•	•	1)		
	E1	5.51 ★	263	13	1 700							•	•	•	•	•	•	•	1)		
	D1	5.24 ★	277	15	1 140							•	•	•	•	•	•	•	1)		
	C1	4.41 ★	329	16	1 140							•	•	•	•	•	•	•	1)		
	B1	3.98 ★	364	16	1 120							•	•	•	•	•	•	•	1)		
	A1	3.42 ★	424	16	1 080							•	•	•	•	•	•	•	1)		

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In the case of gearboxes of size 18 or 28, only possible with integrated motor or input unit KQ and QKS.

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
						2.5x the value is permissible for a brief period (e.g. motor starting torque)															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz)	φ	T_{2N} ($f_B=1$)	3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
						Motor size															
Nm			rpm	arcmin	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.128-D38 5 100	P1	51 420	★	0.03	—	5 100	•	•	•												
	N1	45 652		0.03	—	5 100	•	•	•												
	M1	40 024	★	0.04	—	5 100	•	•	•	•											
	L1	35 817		0.04	—	5 100	•	•	•	•											
	K1	31 790	★	0.05	—	5 100	•	•	•	•											
	J1	27 858		0.05	—	5 100	•	•	•	•											
	H1	24 494	★	0.06	—	5 100	•	•	•	•											
	G1	22 129		0.07	—	5 100	•	•	•	•											
	F1	19 282	★	0.08	—	5 100	•	•	•	•											
	E1	17 318		0.08	—	5 100	•	•	•	•											
	D1	15 634	★	0.09	—	5 100	•	•	•	•											
	C1	14 175		0.10	—	5 100	•	•	•	•											
	B1	12 898	★	0.11	—	5 100	•	•	•	•											
	A1	11 404		0.13	—	5 100	•	•	•	•											
D.128-Z38 5 100	X1	11 831	★	0.12	—	5 100	•	•	•												
	W1	10 521		0.14	—	5 100	•	•	•												
	V1	9 127	★	0.16	—	5 100	•	•	•	•											
	U1	8 528		0.17	—	5 100	•	•	•	•											
	T1	7 500	★	0.19	—	5 100	•	•	•	•											
	S1	6 569		0.22	—	5 100	•	•	•	•	•										
	R1	5 810	★	0.25	—	5 100	•	•	•	•	•										
	Q1	5 266		0.28	—	5 100	•	•	•	•	•										
	P1	4 648	★	0.31	—	5 100	•	•	•	•	•										
	N1	4 193		0.35	—	5 100	•	•	•	•	•										
	M1	3 803	★	0.38	—	5 100	•	•	•	•	•										
	L1	3 465		0.42	—	5 100	•	•	•	•	•										
	K1	3 169	★	0.46	—	5 100	•	•	•	•	•										
	J1	2 834		0.51	—	5 100	•	•	•	•	•										
	H1	2 602	★	0.56	—	5 100	•	•	•	•	•										
	G1	2 345		0.62	—	5 100	•	•	•	•	•										
	F1	2 017	★	0.72	—	5 100	•	•	•	•	•										
	E1	2 011	★	0.72	—	5 100	•	•	•	•	•										
	C1	1 798		0.81	—	5 100	•	•	•	•	•										
	D1	1 651	★	0.88	—	5 100	•	•	•	•	•										
	B1	1 488		0.97	—	5 100	•	•	•	•	•										
	A1	1 280	★	1.10	—	5 100	•	•	•	•	•										
D.128-Z48 5 100	P1	1 271		1.1	—	5 100	•	•	•	•	•	•									
	N1	1 166		1.2	—	5 100	•	•	•	•	•	•									
	M1	1 074		1.4	—	5 100	•	•	•	•	•	•									
	L1	975		1.5	—	5 100	•	•	•	•	•	•									
	K1	889		1.6	—	5 100	•	•	•	•	•	•									
	J1	814		1.8	—	5 100	•	•	•	•	•	•									
	H1	726		2.0	—	5 100	•	•	•	•	•	•									
	G1	648		2.2	—	5 100			•	•	•	•									
	F1	551		2.6	—	5 100			•	•	•	•									
	E1	458		3.2	—	5 100			•	•	•	•									
	D1	451		3.2	—	5 100	•	•	•	•	•	•									
	C1	403		3.6	—	5 100			•	•	•	•									
	B1	342		4.2	—	5 100			•	•	•	•									
	A1	285		5.1	—	5 100			•	•	•	•									

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Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	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		
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	ϕ arcmin	T_{2N} ($f_B=1$) Nm	Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.128 5 100	K1	268.16 ★	5.4	10	5 100				•	•	•										
	T1	245.93	5.9	10	5 100				•	•	•										
	S1	219.72 ★	6.6	10	5 100				•	•	•	•									
	R1	201.22	7.2	10	5 100				•	•	•	•									
	Q1	185.36 ★	7.8	10	5 100				•	•	•	•									
	P1	171.62	8.4	10	5 100				•	•	•	•									
	N1	159.60 ★	9.1	10	5 100				•	•	•	•	•								
	M1	148.99	9.7	10	5 100				•	•	•	•	•								
	L1	133.30 ★	10.9	10	5 100				•	•	•	•	•	•	•						
	K1	123.53	11.7	10	5 100				•	•	•	•	•	•	•						
	J1	113.24 ★	12.8	10	5 100				•	•	•	•	•	•	•						
	H1	103.80	14.0	10	5 100				•	•	•	•	•	•	•						
	G1	88.46	16.4	10	5 100				•	•	•	•	•	•	•						
	F1	78.06 ★	18.6	10	5 100				•	•	•	•	•	•	•						
	E1	66.43	22.0	10	5 100					•	•	•	•	•	•	•					
	D1	57.56 ★	25.0	10	5 100					•	•	•	•	•	•	•					
	C1	48.44 ★	30.0	10	5 100					•	•	•	•	•	•	•					
	B1	43.71	33.0	10	5 100							•	•	•	•	•					
	A1	37.57 ★	39.0	10	5 100								•	•	•	•					
Z.128 2 220 ... 5 100	D2	44.19 ★	33	9	3 275					•	•	•									
	C2	40.96	35	9	3 196					•	•	•									
	B2	38.94 ★	37	9	5 100					•	•	•	•								
	A2	36.39	40	9	5 100					•	•	•	•								
	X1	32.11 ★	45	9	5 100					•	•	•	•	•	•	•					
	W1	30.28	48	9	5 100					•	•	•	•	•	•	•					
	V1	27.13 ★	53	9	5 100					•	•	•	•	•	•	•	•				
	U1	25.05	58	9	5 100					•	•	•	•	•	•	•	•				
	T1	21.41	68	9	5 100					•	•	•	•	•	•	•	•	• ¹⁾			
	S1	19.35 ★	75	10	5 100					•	•	•	•	•	•	•	•	•	• ¹⁾		
	R1	18.64	78	10	5 100						•	•	•	•	•	•	•	•	• ¹⁾		
	Q1	16.12	90	10	4 993						•	•	•	•	•	•	•	•	• ¹⁾		
	P1	14.06 ★	103	10	4 868						•	•	•	•	•	•	•	•	• ¹⁾		
	N1	12.03 ★	121	10	4 716						•	•	•	•	•	•	•	•	• ¹⁾		
	M1	10.78	135	10	4 603								•	•	•	•	•	•	• ¹⁾		
	L1	9.13 ★	159	10	4 425								•	•	•	•	•	•	• ¹⁾		
	K1	7.88	184	10	4 258									•	•	•	•	•	• ¹⁾		
	J1	7.29 ★	199	12	2 540										•	•	•	•	• ¹⁾		
	H1	6.24 ★	232	12	2 530											•	•	•	• ¹⁾		
	G1	5.93 ★	245	12	3 908												•	•	• ¹⁾		
	F1	5.59 ★	259	12	2 607													•	• ¹⁾		
	E1	4.83	300	12	2 512														• ¹⁾		
	D1	4.73 ★	307	13	2 375														• ¹⁾		
	C1	4.09 ★	355	13	2 360														• ¹⁾		
	B1	3.63 ★	399	13	2 310														• ¹⁾		
	A1	3.07 ★	472	14	2 220														• ¹⁾		

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

In the case of gearboxes of size 18 or 28, only possible with integrated motor or input unit KQ and QKS.

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	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				
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	Motor size																	
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315				
D.148-D38 8 000	P1	64 450	0.02	–	8 000	*	*	*															
	N1	57 221	0.03	–	8 000	*	*	*															
	M1	50 166	0.03	–	8 000	*	*	*	*														
	L1	44 893	0.03	–	8 000	*	*	*	*														
	K1	39 846	0.04	–	8 000	*	*	*	*														
	J1	34 917	0.04	–	8 000	*	*	*	*														
	H1	30 701	0.05	–	8 000	*	*	*	*														
	G1	27 736	0.05	–	8 000	*	*	*	*														
	F1	24 169	0.06	–	8 000	*	*	*	*														
	E1	21 707	0.07	–	8 000	*	*	*	*														
	D1	19 596	0.07	–	8 000	*	*	*	*														
	C1	17 767	0.08	–	8 000	*	*	*	*														
	B1	16 167	0.09	–	8 000	*	*	*	*														
	A1	14 294	0.10	–	8 000	*	*	*	*														
D.148-Z38 8 000	X1	14 830	0.10	–	8 000	*	*	*															
	W1	13 188	0.11	–	8 000	*	*	*															
	V1	11 440	0.13	–	8 000	*	*	*	*														
	U1	10 689	0.14	–	8 000	*	*	*	*														
	T1	9 401	0.15	–	8 000	*	*	*	*														
	S1	8 233	0.18	–	8 000	*	*	*	*	*													
	R1	7 282	0.20	–	8 000	*	*	*	*	*													
	Q1	6 600	0.22	–	8 000	*	*	*	*	*													
	P1	5 826	0.25	–	8 000	*	*	*	*	*													
	N1	5 256	0.28	–	8 000	*	*	*	*	*													
	M1	4 767	0.30	–	8 000	*	*	*	*	*													
	L1	4 343	0.33	–	8 000	*	*	*	*	*													
	K1	3 972	0.37	–	8 000	*	*	*	*	*													
	J1	3 552	0.41	–	8 000	*	*	*	*	*													
	H1	3 261	0.44	–	8 000	*	*	*	*	*													
	G1	2 939	0.49	–	8 000	*	*	*	*	*													
	F1	2 528	0.57	–	8 000	*	*	*	*	*													
	E1	2 521	0.58	–	8 000	*	*	*	*	*													
	D1	2 254	0.64	–	8 000	*	*	*	*	*													
	C1	2 070	0.70	–	8 000	*	*	*	*	*													
	B1	1 865	0.78	–	8 000	*	*	*	*	*													
	A1	1 604	0.90	–	8 000	*	*	*	*	*													
D.148-Z48 8 000	N1	1 631	0.89	–	8 000	*	*	*	*	*	*												
	M1	1 502	0.97	–	8 000	*	*	*	*	*	*												
	L1	1 364	1.10	–	8 000	*	*	*	*	*	*												
	K1	1 243	1.20	–	8 000	*	*	*	*	*	*												
	J1	1 139	1.30	–	8 000	*	*	*	*	*	*												
	H1	1 016	1.40	–	8 000	*	*	*	*	*	*												
	G1	907	1.60	–	8 000			*	*	*	*												
	F1	770	1.90	–	8 000			*	*	*	*												
	E1	641	2.30	–	8 000			*	*	*	*												
	D1	631	2.30	–	8 000	*	*	*	*	*	*												
	C1	563	2.60	–	8 000			*	*	*	*												
	B1	478	3.00	–	8 000			*	*	*	*												
	A1	398	3.60	–	8 000			*	*	*	*												

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	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		
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz)	ϕ	T_{2N} ($f_B=1$)	Motor size															
Nm			rpm	arcmin	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.148 8 000	W1	336.11	4.3	7	8 000					•	•										
	V1	301.34 ★	4.8	7	8 000					•	•	•									
	U1	276.23	5.2	7	8 000					•	•	•									
	T1	254.70 ★	5.7	7	8 000					•	•	•									
	S1	236.05	6.1	7	8 000					•	•	•									
	R1	224.43 ★	6.5	7	8 000					•	•	•	•								
	Q1	209.76	6.9	7	8 000					•	•	•	•								
	P1	185.03 ★	7.8	7	8 000					•	•	•	•	•	•						
	N1	174.53	8.3	7	8 000					•	•	•	•	•	•						
	M1	156.38 ★	9.3	7	8 000					•	•	•	•	•	•	•					
	L1	144.39	10.0	7	8 000					•	•	•	•	•	•	•	•				
	K1	123.37	11.8	7	8 000					•	•	•	•	•	•	•	•				
	J1	111.50 ★	13.0	7	8 000					•	•	•	•	•	•	•	•				
	H1	107.42	13.5	7	8 000						•	•	•	•	•	•	•				
	G1	92.91	15.6	7	8 000					•	•	•	•	•	•	•	•				
	F1	81.04 ★	17.9	7	8 000					•	•	•	•	•	•	•	•				
	E1	69.36 ★	21.0	7	8 000					•	•	•	•	•	•	•	•				
	D1	62.12	23.0	7	8 000							•	•	•	•	•	•				
	C1	52.61 ★	28.0	7	8 000							•	•	•	•	•	•				
	B1	45.44	32.0	7	8 000								•	•	•	•	•				
	A1	34.15 ★	42.0	7	8 000									•	•	•	•				
Z.148 3 850 ... 8 000	B2	57.50	25	7	4 664							•									
	A2	54.24 ★	27	7	8 000							•	•								
	X1	50.74	29	7	8 000							•	•								
	W1	45.11 ★	32	7	8 000							•	•	•	•						
	V1	42.59	34	7	8 000							•	•	•	•						
	U1	38.23 ★	38	7	8 000							•	•	•	•	•					
	T1	35.09	41	7	8 000							•	•	•	•	•					
	S1	30.28	48	7	8 000							•	•	•	•	•	•				
	R1	26.49	55	7	8 000							•	•	•	•	•	•				
	Q1	23.04	63	7	8 000							•	•	•	•	•	•	•			
	P1	20.21 ★	72	7	8 000							•	•	•	•	•	•	•			
	N1	17.09 ★	85	7	8 000							•	•	•	•	•	•	•			
	M1	15.51	93	7	8 000							•	•	•	•	•	•	•			
	L1	13.52 ★	107	7	8 000							•	•	•	•	•	•	•			
	K1	11.48	126	7	8 000								•	•	•	•	•	•			
	J1	8.79 ★	165	9	8 000								•	•	•	•	•	•			
	H1	8.64 ★	168	9	4 800							•	•	•	•	•	•	•			
	G1	7.84 ★	185	9	4 800							•	•	•	•	•	•	•			
	F1	7.57 ★	192	10	5 600								•	•	•	•	•	•			
	E1	6.84 ★	212	10	4 800							•	•	•	•	•	•	•			
	D1	6.43	226	10	5 400								•	•	•	•	•	•			
	C1	5.80 ★	250	10	4 200								•	•	•	•	•	•			
	B1	4.92 ★	295	10	5 050								•	•	•	•	•	•			
	A1	4.44 ★	327	–	3 850								•	•	•	•	•	•			

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
Max. gearbox torque Nm	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	2.5x the value is permissible for a brief period (e.g. motor starting torque)															
						Motor size															
						3	3	5	10	20	26	61	98	198	198	291	356	580	1290		
						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.168-D48 14 000	P1	71 317	★	0.02	—	14 000	•	•	•												
	N1	63 421		0.02	—	14 000	•	•	•												
	M1	55 016	★	0.03	—	14 000	•	•	•	•											
	L1	51 404		0.03	—	14 000	•	•	•	•											
	K1	45 210	★	0.03	—	14 000	•	•	•	•											
	J1	39 595		0.04	—	14 000	•	•	•	•	•										
	H1	35 022	★	0.04	—	14 000	•	•	•	•	•										
	G1	31 740		0.05	—	14 000	•	•	•	•	•										
	F1	28 017	★	0.05	—	14 000	•	•	•	•	•										
	E1	25 274		0.06	—	14 000	•	•	•	•	•										
	D1	22 923	★	0.06	—	14 000	•	•	•	•	•										
	C1	20 886		0.07	—	14 000	•	•	•	•	•										
D.168-Z48 14 000	B1	19 103	★	0.08	—	14 000	•	•	•	•	•										
	A1	17 080		0.08	—	14 000	•	•	•	•	•										
	A2	17 519		0.08	—	14 000	•	•	•												
	X1	15 504	★	0.09	—	14 000	•	•	•	•											
	W1	14 094		0.10	—	14 000	•	•	•	•											
	V1	12 661	★	0.11	—	14 000	•	•	•	•											
	U1	10 853		0.13	—	14 000	•	•	•	•	•										
	T1	9 819	★	0.15	—	14 000	•	•	•	•	•	•									
	S1	9 064		0.16	—	14 000	•	•	•	•	•	•	•								
	R1	7 881	★	0.18	—	14 000	•	•	•	•	•	•	•								
	Q1	7 156		0.20	—	14 000	•	•	•	•	•	•	•								
	P1	6 534	★	0.22	—	14 000	•	•	•	•	•	•	•								
	N1	5 995		0.24	—	14 000	•	•	•	•	•	•	•								
	M1	5 523	★	0.26	—	14 000	•	•	•	•	•	•	•								
	L1	5 016		0.29	—	14 000	•	•	•	•	•	•	•								
	K1	4 569	★	0.32	—	14 000	•	•	•	•	•	•	•								
	J1	4 186		0.35	—	14 000	•	•	•	•	•	•	•								
	H1	3 735	★	0.39	—	14 000	•	•	•	•	•	•	•								
	G1	3 333		0.44	—	14 000			•	•	•	•	•	•							
	F1	2 831		0.51	—	14 000			•	•	•	•	•	•							
	E1	2 357	★	0.62	—	14 000			•	•	•	•	•	•							
	D1	2 319	★	0.63	—	14 000	•	•	•	•	•	•	•	•							
	C1	2 070		0.70	—	14 000			•	•	•	•	•	•							
	B1	1 758		0.82	—	14 000			•	•	•	•	•	•							
	A1	1 463	★	0.99	—	14 000			•	•	•	•	•	•							
D.168-Z68 14 000	H1	1 226		1.2	—	14 000			•	•	•	•	•	•							
	G1	1 046		1.4	—	14 000			•	•	•	•	•	•							
	F1	871		1.7	—	14 000				•	•	•	•	•							
	E1	722		2.0	—	14 000					•	•	•	•	•						
	D1	637		2.3	—	14 000				•	•	•	•	•	•						
	C1	544		2.7	—	14 000				•	•	•	•	•	•						
	B1	453		3.2	—	14 000					•	•	•	•	•						
	A1	376		3.9	—	14 000					•	•	•	•	•						

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTEX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	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		
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.168 14000	U1	341.61 ★	4.2	7	14 000							•									
	T1	313.41	4.6	7	14 000							•									
	S1	289.23 ★	5.0	7	14 000							•									
	R1	268.29	5.4	7	14 000							•									
	Q1	253.08 ★	5.7	7	14 000							•	•								
	P1	236.72	6.1	7	14 000							•	•								
	N1	210.49 ★	6.9	7	14 000							•	•	•	•						
	M1	198.71	7.3	7	14 000							•	•	•	•						
	L1	178.38 ★	8.1	7	14 000							•	•	•	•	•					
	K1	163.72	8.9	7	14 000							•	•	•	•	•					
	J1	141.28	10.3	7	14 000							•	•	•	•	•					
	H1	123.59	11.7	7	14 000							•	•	•	•	•					
	G1	107.48	13.5	7	14 000							•	•	•	•	•					
	F1	94.30 ★	15.4	7	14 000							•	•	•	•	•					
	E1	79.75 ★	18.2	7	14 000							•	•	•	•	•					
	D1	72.36	20.0	7	14 000							•	•	•	•	•					
	C1	63.08 ★	23.0	7	14 000							•	•	•	•	•					
	B1	53.56	27.0	7	14 000								•	•	•	•	•				
	A1	40.99 ★	35.0	7	14 000								•	•	•	•	•				
Z.168 6 470 ... 14 000	V1	46.61	31	6	10 100							•	•	•	•						
	U1	42.09	34	6	14 000							•	•	•	•	•					
	T1	39.45	37	6	14 000							•	•	•	•	•	•				
	S1	33.88 ★	43	6	14 000							•	•	•	•	•	•				
	Q1	29.27	50	7	14 000							•	•	•	•	•	•	•			
	P1	25.84	56	7	14 000							•	•	•	•	•	•	•			
	N1	23.26 ★	62	7	14 000							•	•	•	•	•	•	•			
	M1	19.30 ★	75	7	14 000							•	•	•	•	•	•	•			
	L1	17.60	82	7	13 826							•	•	•	•	•	•	•			
	K1	15.44 ★	94	7	13 486							•	•	•	•	•	•	•			
	J1	13.27	109	7	13 081							•	•	•	•	•	•	•			
	H1	10.34 ★	140	7	12 345								•	•	•	•	•	•			
	G1	9.26 ★	157	-	7 850							•	•	•	•	•	•	•			
	F1	8.21 ★	177	7	11 622									•	•	•	•	•			
	E1	7.20 ★	201	9	7 100								•	•	•	•	•	•			
	D1	6.20 ★	234	9	7 507								•	•	•	•	•	•			
	C1	5.61 ★	258	10	6 780								•	•	•	•	•	•			
	B1	4.93 ★	294	10	7 064									•	•	•	•	•			
	A1	4.46 ★	325	10	6 470										•	•	•	•			

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

$$T_{2max} = T_1 \times i_{tot}; \text{ if } T_{2max} \leq T_{2N}$$

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	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				
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($f_B=1$) Nm	Motor size																	
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315				
D.188-D48 20 000	P1	50 901	★	0.03	–	20 000	•	•	•														
	N1	45 266		0.03	–	20 000	•	•	•														
	M1	39 267	★	0.04	–	20 000	•	•	•	•													
	L1	36 689		0.04	–	20 000	•	•	•	•													
	K1	32 268	★	0.04	–	20 000	•	•	•	•													
	I1	28 260		0.05	–	20 000	•	•	•	•													
	H1	24 996	★	0.06	–	20 000	•	•	•	•	•												
	G1	22 654		0.06	–	20 000	•	•	•	•	•												
	F1	19 997	★	0.07	–	20 000	•	•	•	•	•												
	E1	18 039		0.08	–	20 000	•	•	•	•	•												
	D1	16 361	★	0.09	–	20 000	•	•	•	•	•												
	C1	14 907		0.10	–	20 000	•	•	•	•	•												
	B1	13 634	★	0.11	–	20 000	•	•	•	•	•												
A1	12 191		0.12	–	20 000	•	•	•	•	•													
D.188-Z48 20 000	X1	12 504		0.12	–	20 000	•	•	•														
	W1	11 066	★	0.13	–	20 000	•	•	•	•													
	V1	9 037	★	0.16	–	20 000	•	•	•	•													
	U1	7 746		0.19	–	20 000	•	•	•	•	•												
	T1	7 008	★	0.21	–	20 000	•	•	•	•	•	•											
	S1	6 469		0.22	–	20 000	•	•	•	•	•	•	•										
	R1	5 625	★	0.26	–	20 000	•	•	•	•	•	•	•										
	Q1	5 107		0.28	–	20 000	•	•	•	•	•	•	•										
	P1	4 663	★	0.31	–	20 000	•	•	•	•	•	•	•										
	N1	4 279		0.34	–	20 000	•	•	•	•	•	•	•										
	M1	3 942	★	0.37	–	20 000	•	•	•	•	•	•	•										
	L1	3 580		0.41	–	20 000	•	•	•	•	•	•	•										
	K1	3 261	★	0.44	–	20 000	•	•	•	•	•	•	•										
	J1	2 988		0.49	–	20 000	•	•	•	•	•	•	•										
	H1	2 666	★	0.54	–	20 000	•	•	•	•	•	•	•										
	G1	2 379		0.61	–	20 000			•	•	•	•	•										
	F1	2 021		0.72	–	20 000			•	•	•	•	•										
	E1	1 682	★	0.86	–	20 000			•	•	•	•	•										
	D1	1 655	★	0.88	–	20 000	•	•	•	•	•	•	•										
	C1	1 477		0.98	–	20 000			•	•	•	•	•										
	B1	1 255		1.20	–	20 000			•	•	•	•	•										
	A1	1 044	★	1.40	–	20 000			•	•	•	•	•										
	D.188-Z68 20 000	G1	896	★	1.6	–	20 000			•	•	•	•	•									
F1		746		1.9	–	20 000				•	•	•	•										
E1		619	★	2.3	–	20 000				•	•	•	•										
D1		546		2.7	–	20 000			•	•	•	•	•										
C1		466	★	3.1	–	20 000			•	•	•	•	•										
B1		388		3.7	–	20 000				•	•	•	•										
A1		322	★	4.5	–	20 000				•	•	•	•										

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed	Twisting angle ²⁾	Nominal torque	Permissible input torque T_1 [Nm]															
Max. gearbox torque	Order No. 15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	φ arcmin	T_{2N} ($i_B=1$) 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		
						Motor size															
Nm						63	71	80	90	100	112	132	160	180	200	225	250	280	315		
D.188 20 000	N1	243.82	5.9	6	20 000					•	•	•	•								
	M1	220.17	6.6	6	20 000					•	•	•	•	•							
	L1	206.34	7.0	6	20 000					•	•	•	•	•	•						
	K1	177.23 ★	8.2	6	20 000					•	•	•	•	•	•						
	J1	153.12	9.5	6	20 000					•	•	•	•	•	•	•					
	H1	135.16	10.7	6	20 000					•	•	•	•	•	•	•					
	G1	121.67 ★	11.9	6	20 000					•	•	•	•	•	•	•					
	F1	100.96 ★	14.4	6	20 000					•	•	•	•	•	•	•					
	E1	92.06	15.8	6	20 000					•	•	•	•	•	•	•	•				
	D1	80.77 ★	18.0	6	20 000					•	•	•	•	•	•	•	•				
	C1	69.41	21.0	6	20 000					•	•	•	•	•	•	•	•				
	B1	54.06 ★	27.0	6	20 000					•	•	•	•	•	•	•	•				
A1	42.95 ★	34.0	–	20 000					•	•	•	•	•	•	•						
Z.188 13 040 ... 20 000	P1	52.35	28	6	15 710								•	•	•	•					
	N1	48.22	30	6	15 920								•	•	•	•	•				
	M1	41.85 ★	35	6	16 110								•	•	•	•	•				
	L1	36.89	39	6	16 600								•	•	•	•	•	•			
	K1	32.37	45	6	18 450								•	•	•	•	•	•			
	J1	29.18 ★	50	6	20 000								•	•	•	•	•	•			
	H1	24.77 ★	59	6	20 000								•	•	•	•	•	•			
	G1	23.01	63	6	20 000								•	•	•	•	•	•			
	F1	19.76 ★	73	6	20 000								•	•	•	•	•	•			
	E1	16.86	86	6	20 000								•	•	•	•	•	•	•		
	D1	13.28 ★	109	6	18 820								•	•	•	•	•	•	•		
	C1	10.69 ★	136	6	16 170									•	•	•	•	•	•		
	B1	9.29	156	6	14 310											•	•	•	•		
	A1	8.30	175	6	13 040												•	•	•		

★ Preferred transmission ratio

¹⁾ Only possible with integrated adapter.²⁾ Twisting angle applies to reduced-backlash gearboxes.

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

Calculation of maximum output torque T_{2max} for gearboxes with input units:

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

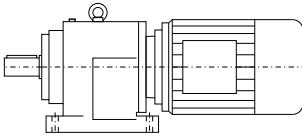
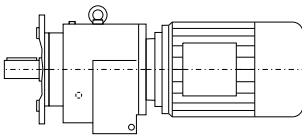
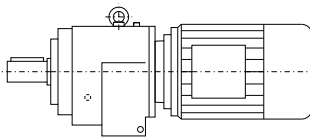
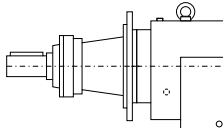
If $T_{2max} \geq T_{2N}$ the max. output torque T_{2N} of the gearbox is the decisive factor.

MOTOX Geared Motors

Helical geared motors

Mounting types

Selection and ordering data

Mounting type	Order No. 14th position	Code in type designation 2nd position	Representation
Foot-mounted design	A	—	
Flange-mounted design (A-type)	F	F	
Housing flange (C-type)	H	Z	
Agitator flange	R	R	

Helical gearbox with agitator flange, sizes 68 to 168

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

The optimized design ensures that no axial forces are transferred.

Helical gearboxes with an agitator flange are particularly well suited to agitator applications with very high radial forces.

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

MOTOX Geared Motors

Helical geared motors

Shaft designs

Selection and ordering data

Shaft design	Order No. 8th position	Shaft dimensions					
1-stage helical gearbox E							
Size		E38	E48	E68	E88	E108	E128
Solid shaft with feather key	1	V20 x 40 ^{*)}	V25 x 50 ^{*)}	V30 x 60 ^{*)}	V40 x 80 ^{*)}	V50 x 100 ^{*)}	V60 x 120 ^{*)}
	2	V25 x 50	V30 x 60	V40 x 80	V45 x 90	V55 x 110	
Size		E148					
Solid shaft with feather key	1	V70 x 140 ^{*)}					
	2						
2-stage helical gearbox Z							
Size		Z18	Z28	Z38	Z48	Z68	Z88
Solid shaft with feather key	1	V16 x 28	V25 x 50 ^{*)}	V25 x 50 ^{*)}	V30 x 60 ^{*)}	V40 x 80 ^{*)}	V50 x 100 ^{*)}
	2	V20 x 40 ^{*)}		V30 x 60	V40 x 80	V50 x 100	V60 x 120
	3				V35 x 70	V35 x 70	
Size		Z108	Z128	Z148	Z168	Z188	
Solid shaft with feather key	1	V60 x 120 ^{*)}	V70 x 140 ^{*)}	V90 x 170 ^{*)}	V100 x 210 ^{*)}	V120 x 210 ^{*)}	
	2	V70 x 140	V90 x 170	V100 x 210	V120 x 210		
	3				V110 x 210		
3-stage helical gearbox D							
Size		D18	D28	D38	D48	D68	D88
Solid shaft with feather key	1	V16 x 28	V25 x 50 ^{*)}	V25 x 50 ^{*)}	V30 x 60 ^{*)}	V40 x 80 ^{*)}	V50 x 100 ^{*)}
	2	V20 x 40 ^{*)}		V30 x 60	V40 x 80	V50 x 100	V60 x 120
	3				V35 x 70	V35 x 70	
Size		D108	D128	D148	D168	D188	
Solid shaft with feather key	1	V60 x 120 ^{*)}	V70 x 140 ^{*)}	V90 x 170 ^{*)}	V100 x 210 ^{*)}	V120 x 210 ^{*)}	
	2	V70 x 140	V90 x 170	V100 x 210	V120 x 210		
	3				V110 x 210		

^{*)} Preferred series

Shaft designs for helical gearbox with agitator flange

Shaft design	Order No. 8th position	Order No. suffix	Shaft dimensions					
2-stage helical gearbox ZR								
Size			ZR68	ZR88	ZR108	ZR128	ZR148	ZR168
Solid shaft with feather key	2		V50 x 100	V60 x 120	V70 x 140		V100 x 210	
	9	H1A				V80 x 170		V110 x 210
3-stage helical gearbox DR								
Size			DR68	DR88	DR108	DR128	DR148	DR168
Solid shaft with feather key	2		V50 x 100	V60 x 120	V70 x 140		V100 x 210	
	9	H1A				V80 x 170		V110 x 210

MOTOX Geared Motors

Helical geared motors

Flange-mounted designs (A-type)

Selection and ordering data

Order code	Flange diameter										
Helical gearbox EF, 1-stage											
Size	EF38	EF48	EF68	EF88	EF108	EF128	EF148				
H01	120	120									
H02	140	140	200	250	300	350	350				
H03	160	160	250	300	350	450	450				
H04	200	200	300	350	450		550				
H05	250	250									
Helical gearbox ZF, 2-stage											
Size	ZF18	ZF28	ZF38	ZF48	ZF68	ZF88	ZF108	ZF128	ZF148	ZF168	ZF188
H02	120	120	120								550
H03	140	140	140	200	250	300	350	350	450	450	660
H04	160	160	160	250	300	350	450	450	550	550	
H05			200	300	350	450		550		660	
H06			250								
Helical gearbox DF, 3-stage											
Size	DF18	DF28	DF38	DF48	DF68	DF88	DF108	DF128	DF148	DF168	DF188
H02	120	120	120								550
H03	140	140	140	200	250	300	350	350	450	450	660
H04	160	160	160	250	300	350	450	450	550	550	
H05			200	300	350	450		550		660	
H06			250								

MOTEX Geared Motors

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 gearbox is supplied with the correct quantity of oil.

Please contact customer service 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.

2

1-stage helical gearbox, foot-mounted design

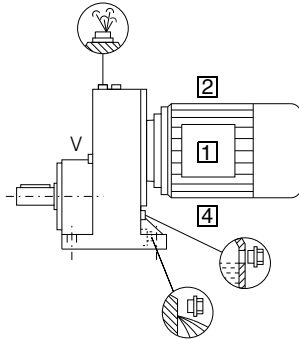
Oil control valves:

- Size 38: V Oil inlet
- From size 48 up:  Oil level  Ventilation  Oil drain  Oil dipstick * On opposite side

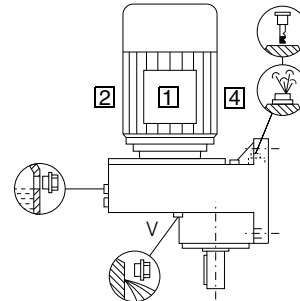
1 ... **4** Position of the terminal box, see Chapter 8

¹⁾ Standard mounting type

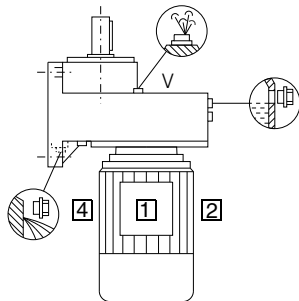
B3 (IM B3)¹⁾
Order code: **D04**



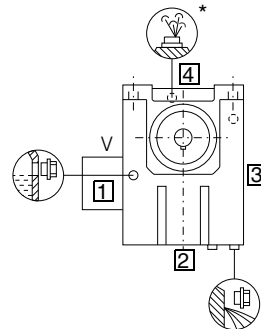
V5 (IM V5)
Order code: **E02**



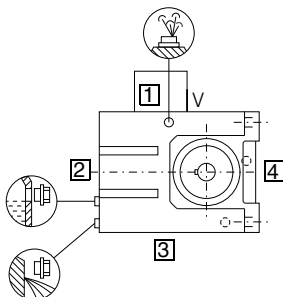
V6 (IM V6)
Order code: **E14**



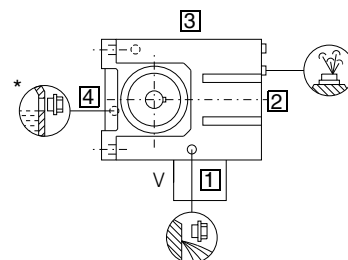
B8 (IM B8)
Order code: **D66**



B7 (IM B7)
Order code: **D57**



B6 (IM B6)
Order code: **D36**



MOTEX Geared Motors

Helical geared motors

Mounting types and mounting positions

Selection and ordering data (continued)

1-stage helical gearbox, flange-mounted design (EF) and with housing flange (EZ)

Oil control valves:

- Size 38: V Oil inlet

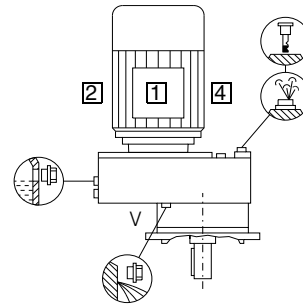
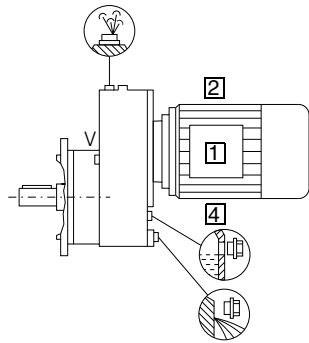
- From size 48 up:  Oil level  Ventilation  Oil drain  Oil dipstick * On opposite side

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

¹⁾ Standard mounting type

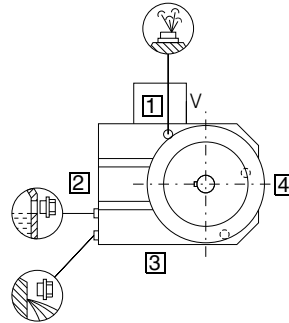
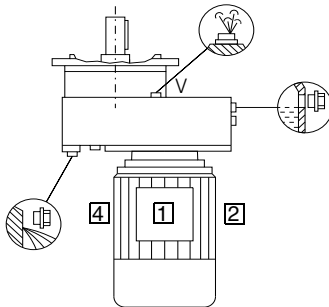
EF: B5 (IM B5)¹⁾
Order code: **D16**
EZ: B14 (IM B14)
Order code: **D00**

EF: V1 (IM V1)
Order code: **D88**
EZ: V18 (IM V18)
Order code: **D94**



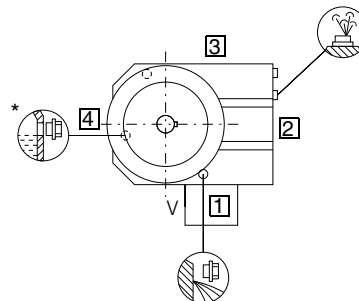
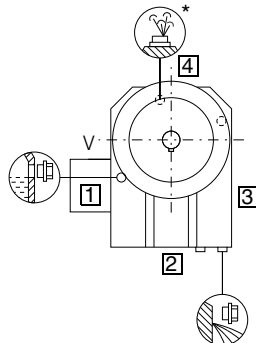
EF: V3 (IM V3)
Order code: **D96**
EZ: V19 (IM V19)
Order code: **D95**

EF: B5-02 (IM B5-02)
Order code: **D26**
EZ: B14-02 (IM B14-02)
Order code: **D02**



EF: B5-03 (IM B5-03)
Order code: **D31**
EZ: B14-03 (IM B14-03)
Order code: **D03**

EF: B5-00 (IM B5-00)
Order code: **D17**
EZ: B14-00 (IM B14-00)
Order code: **D01**



Selection and ordering data (continued)

2- and 3-stage helical gearbox, foot-mounted design, sizes 18 - 88

Oil control valves:

- Size 18/28: These types are lubricated for life. No ventilation, oil level, or drain plugs are present.

- Size 38: V Oil inlet

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

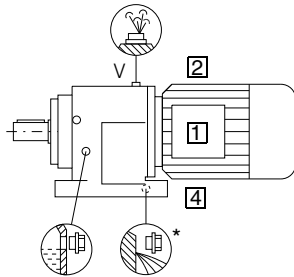
② 2-stage gearbox

③ 3-stage gearbox

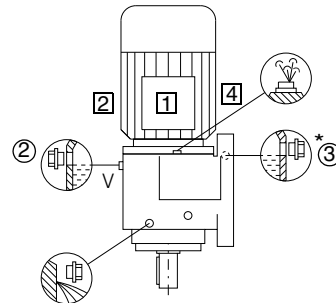
① ... ④ Position of the terminal box, see Chapter 8

¹⁾ Standard mounting type

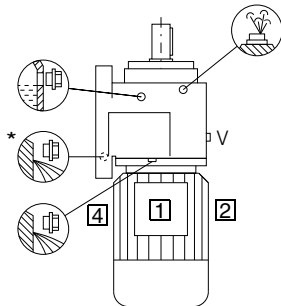
B3 (IM B3) ¹⁾
Order code: **D04**



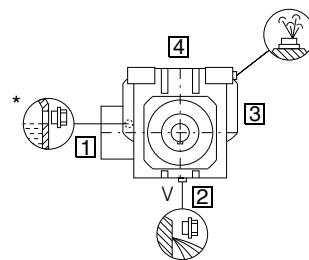
V5 (IM V5)
Order code: **E02**



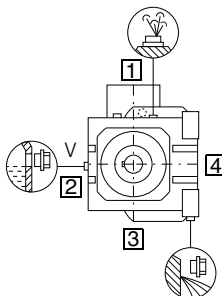
V6 (IM V6)
Order code: **E14**



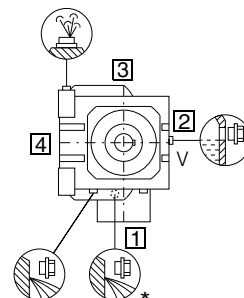
B8 (IM B8)
Order code: **D66**



B7 (IM B7)
Order code: **D57**



B6 (IM B6)
Order code: **D36**



MOTEX Geared Motors

Helical geared motors

Mounting types and mounting positions

Selection and ordering data (continued)

2- and 3-stage helical gearbox, foot-mounted design, sizes 108-168

Oil control valves:



Oil level



Ventilation



Oil drain

* On opposite side

② 2-stage gearbox

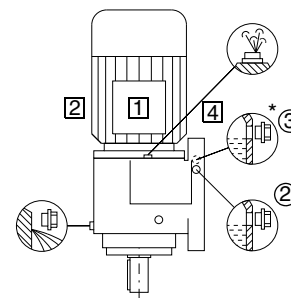
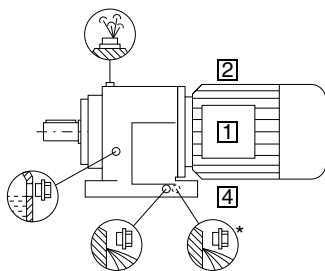
③ 3-stage gearbox

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

1) Standard mounting type

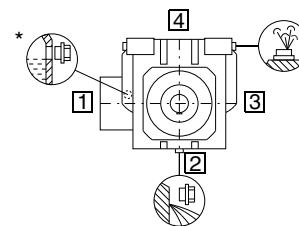
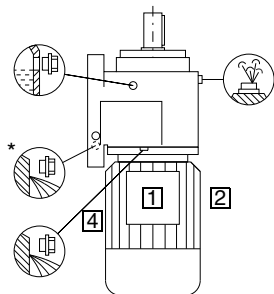
B3 (IM B3) 1)
Order code: **D04**

V5 (IM V5)
Order code: **E02**



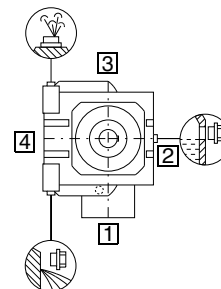
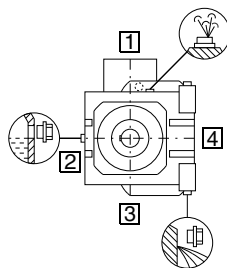
V6 (IM V6)
Order code: **E14**

B8 (IM B8)
Order code: **D66**



B7 (IM B7)
Order code: **D57**

B6 (IM B6)
Order code: **D36**



Selection and ordering data (continued)

2- and 3-stage helical gearbox, foot-mounted design, size 188

Oil control valves:



Oil level



Ventilation



Oil drain

* On opposite side

② 2-stage gearbox

③ 3-stage gearbox

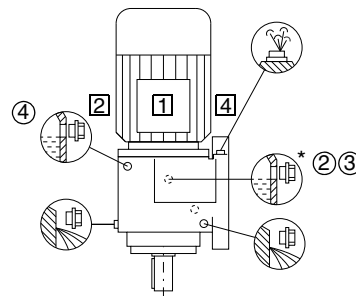
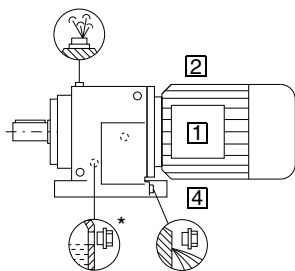
④ Tandem gearbox

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

1) Standard mounting type

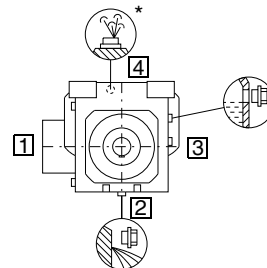
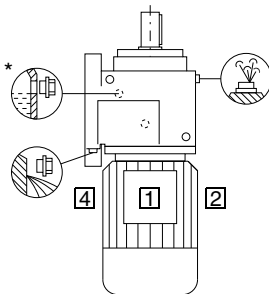
B3 (IM B3) 1)
Order code: **D04**

V5 (IM V5)
Order code: **E02**



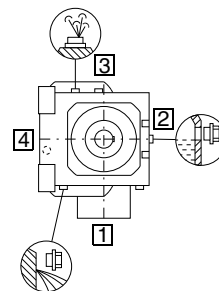
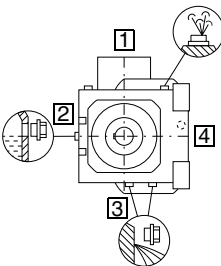
V6 (IM V6)
Order code: **E14**

B8 (IM B8)
Order code: **D66**



B7 (IM B7)
Order code: **D57**

B6 (IM B6)
Order code: **D36**



MOTOX Geared Motors

Helical geared motors

Mounting types and mounting positions

Selection and ordering data (continued)

2- and 3-stage helical gearbox, flange-mounted design (DF/ZF) or with housing flange (DZ/ZZ), sizes 18 - 88

Oil control valves:

• Size 18/28: These types are lubricated for life. No ventilation, oil level, or drain plugs are present.

• Size 38: V Oil inlet

• From size 48 up:  Oil level  Ventilation  Oil drain  Oil dipstick * On opposite side

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

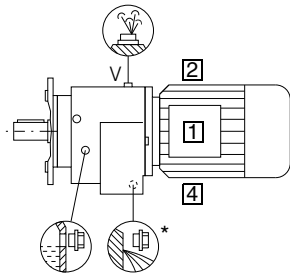
¹⁾ Standard mounting type

DF/ZF: B5 (IM B5) ¹⁾

Order code: **D16**

DZ/ZZ: B14 (IM B14)

Order code: **D00**

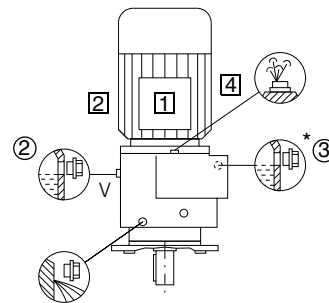


DF/ZF: V1 (IM V1)

Order code: **D88**

DZ/ZZ: V18 (IM V18)

Order code: **D94**

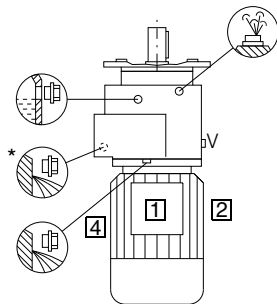


DF/ZF: V3 (IM V3)

Order code: **D96**

DZ/ZZ: V19 (IM V19)

Order code: **D95**

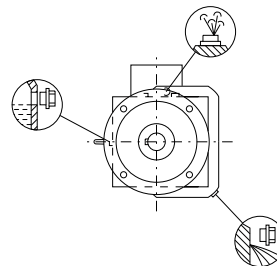


DF/ZF: B5-02 (IM B5-02)

Order code: **D26**

DZ/ZZ: B14-02 (IM B14-02)

Order code: **D02**

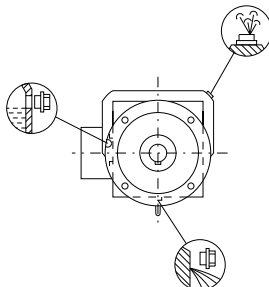


DF/ZF: B5-03 (IM B5-03)

Order code: **D31**

DZ/ZZ: B14-03 (IM B14-03)

Order code: **D03**

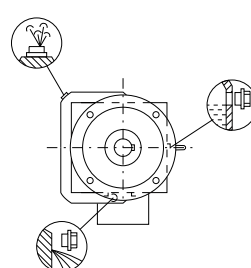


DF/ZF: B5-00 (IM B5-00)

Order code: **D17**

DZ/ZZ: B14-00 (IM B14-00)

Order code: **D01**



MOTEX Geared Motors

Helical geared motors

Mounting types and mounting positions

Selection and ordering data (continued)

2- and 3-stage helical gearbox, flange-mounted design (DF/ZF) or with housing flange (DZ/ZZ), sizes 108 - 168

Oil control valves:



Oil level



Ventilation



Oil drain

* On opposite side

② 2-stage gearbox

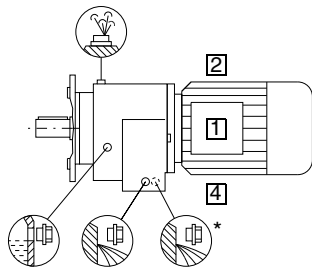
③ 3-stage gearbox

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

¹⁾ Standard mounting type

DF/ZF: B5 (IM B5) ¹⁾
Order code: **D16**

DZ/ZZ: B14 (IM B14)
Order code: **D00**

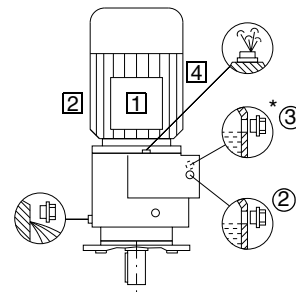


DF/ZF: V1 (IM V1)

Order code: **D88**

DZ/ZZ: V18 (IM V18)

Order code: **D94**

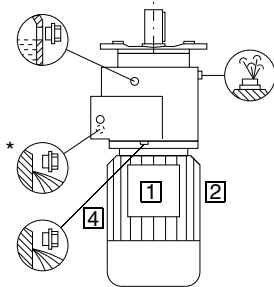


DF/ZF: V3 (IM V3)

Order code: **D96**

DZ/ZZ: V19 (IM V19)

Order code: **D95**

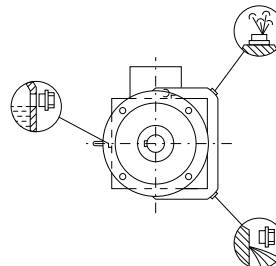


DF/ZF: B5-02 (IM B5-02)

Order code: **D26**

DZ/ZZ: B14-02 (IM B14-02)

Order code: **D02**

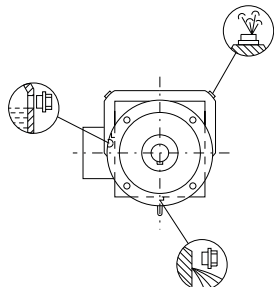


DF/ZF: B5-03 (IM B5-03)

Order code: **D31**

DZ/ZZ: B14-03 (IM B14-03)

Order code: **D03**

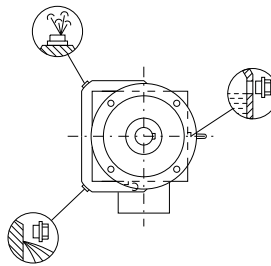


DF/ZF: B5-00 (IM B5-00)

Order code: **D17**

DZ/ZZ: B14-00 (IM B14-00)

Order code: **D01**



MOTEX Geared Motors

Helical geared motors

Mounting types and mounting positions

Selection and ordering data (continued)

2- and 3-stage helical gearbox, flange-mounted design (DF/ZF) or with housing flange (DZ/ZZ), size 188

Oil control valves:



Oil level



Ventilation



Oil drain

* On opposite side

② 2-stage gearbox

③ 3-stage gearbox

④ Tandem gearbox

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

¹⁾ Standard mounting type

DF/ZF: B5 (IM B5) ¹⁾

Order code: **D16**

DZ/ZZ: B14 (IM B14) ¹⁾

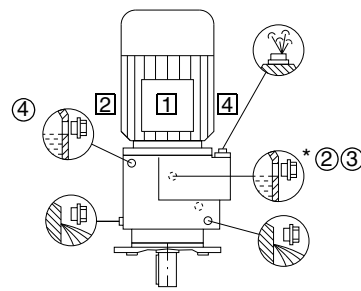
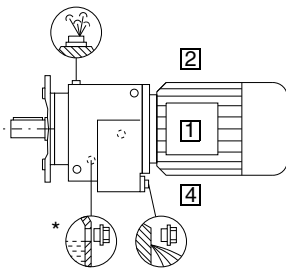
Order code: **D00**

DF/ZF: V1 (IM V1)

Order code: **D88**

DZ/ZZ: V18 (IM V18)

Order code: **D94**



DF/ZF: V3 (IM V3)

Order code: **D96**

DZ/ZZ: V19 (IM V19)

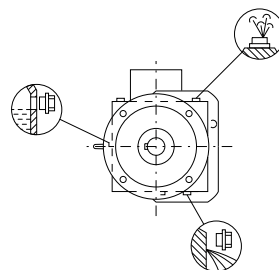
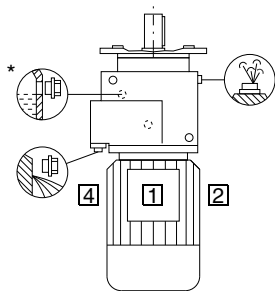
Order code: **D95**

DF/ZF: B5-02 (IM B5-02)

Order code: **D26**

DZ/ZZ: B14-02 (IM B14-02)

Order code: **D02**



DF/ZF: B5-03 (IM B5-03)

Order code: **D31**

DZ/ZZ: B14-03 (IM B14-03)

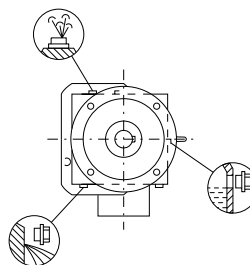
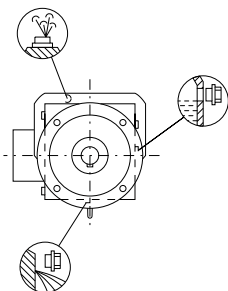
Order code: **D03**

DF/ZF: B5-00 (IM B5-00)

Order code: **D17**

DZ/ZZ: B14-00 (IM B14-00)

Order code: **D01**



Selection and ordering data (continued)

2- and 3-stage helical gearbox with agitator flange (DR/ZR), sizes 68 - 88

Oil control valves:



Oil level



Ventilation



Oil drain

* On opposite side

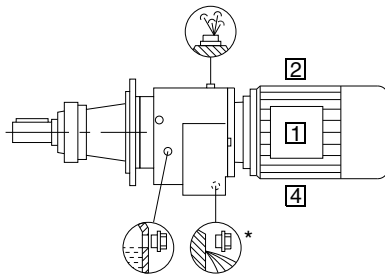
② 2-stage gearbox

③ 3-stage gearbox

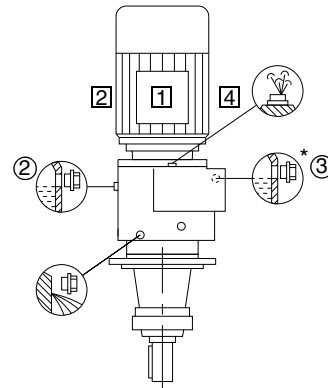
① ... ④ Position of the terminal box, see Chapter 8

1) Standard mounting type

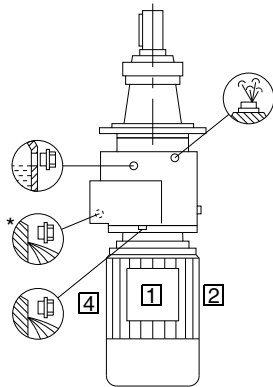
DR/ZR: B5 (IM B5) 1)
Order code: **D16**



DR/ZR: V1 (IM V1)
Order code: **D88**



DR/ZR: V3 (IM V3)
Order code: **D96**



MOTEX Geared Motors

Helical geared motors

Mounting types and mounting positions

Selection and ordering data (continued)

2- and 3-stage helical gearbox with agitator flange (DR/ZR), sizes 108 - 168

Oil control valves:



Oil level



Ventilation



Oil drain

* On opposite side

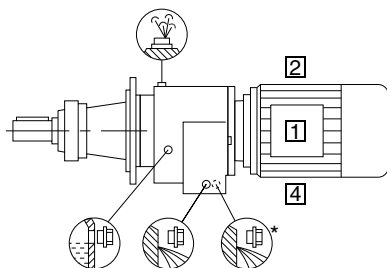
② 2-stage gearbox

③ 3-stage gearbox

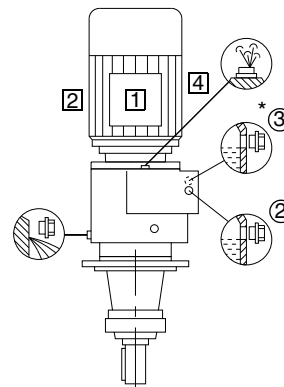
① ... ④ Position of the terminal box, see Chapter 8

1) Standard mounting type

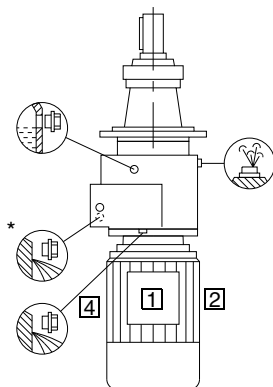
DR/ZR: B5 (IM B5) 1)
Order code: **D16**



DR/ZR: V1 (IM V1)
Order code: **D88**



DR/ZR: V3 (IM V3)
Order code: **D96**



Selection and ordering data (continued)

Helical tandem gearbox

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

Note:

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

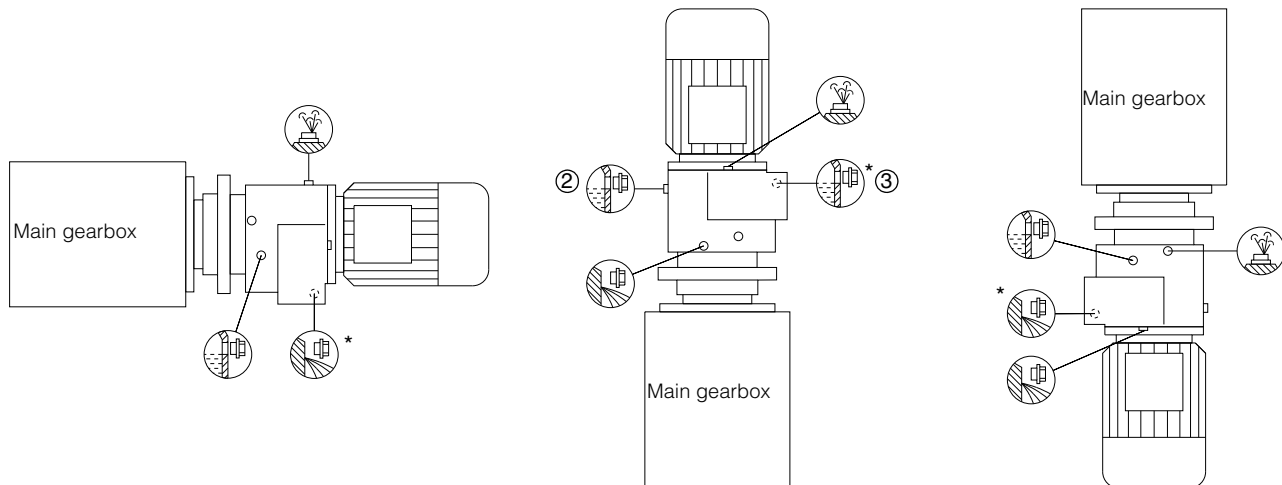
Oil control valves:

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

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

② 2-stage gearbox

③ 3-stage gearbox



MOTOX Geared Motors

Helical geared motors

Special versions

Lubricants

Helical gearboxes are filled with mineral oil and supplied ready for use as standard.

If the gearbox 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 ¹⁾	DIN ISO designation	Order code
Standard oils			
Standard temperature	-10 ... +40 °C	CLP ISO VG220	K06
Improved oil service life	-20 ... +50 °C	CLP ISO PG VG220	K07
High temperature usage	0 ... +60 °C	CLP ISO PG VG460	K08
Low temperature usage	-40 ... +40 °C	CLP ISO PAO VG220	²⁾
Lowest temperature usage	-40 ... +10 °C	CLP ISO PAO VG68	²⁾
Physiologically safe oils (for use in the food industry) in acc. with NSF (USDA)-H1			
Standard temperature	-30 ... +40 °C	CLP ISO H1 VG460	K11
Biologically degradable oils			
Standard temperature	-20 ... +40 °C	CLP ISO E VG220	K10

¹⁾ Recommendation

²⁾ On request

Sizes 18 to 28 do not feature any ventilation, oil level, or drain plugs. The lubricant does not need to be changed, due to the low thermal load the gearbox is subjected to.

Helical gearboxes of size 38 have an oil screw; these gearboxes do not require ventilation or ventilation elements.

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

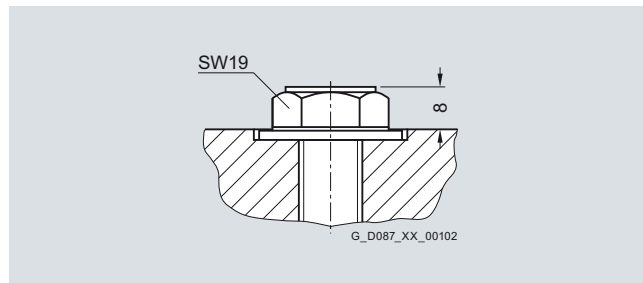
Oil level control

Oil sight glass

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

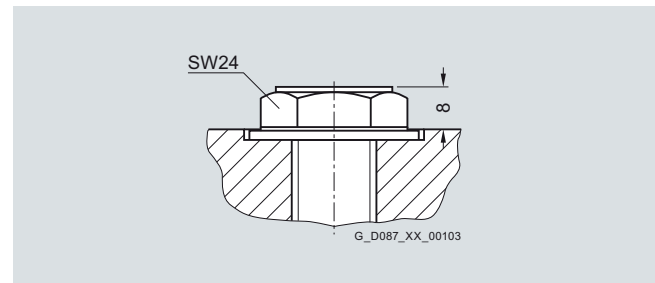
Order code:

Oil sight glass **G34**



SW = Wrench width

Gearbox	Size
Helical gearbox	E.48 ... E.128 D./Z.48 ... D./Z.128



SW = Wrench width

Gearbox	Size
Helical gearbox	E.148 D./Z.148 ... D./Z.188

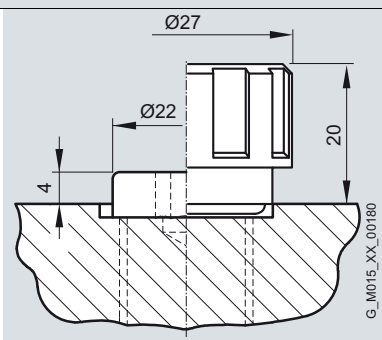
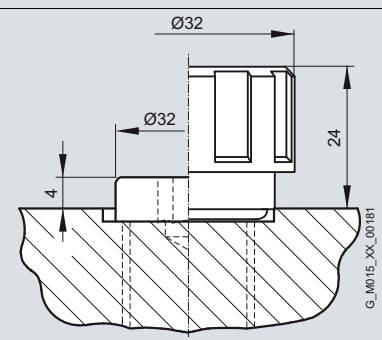
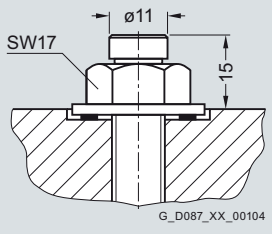
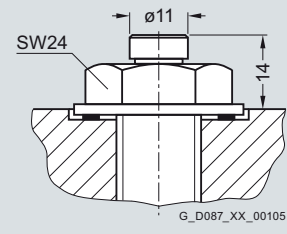
Electrical oil level monitoring system

On request, the gearbox can be supplied with an electrical oil level monitoring system, which enables the oil level of the gearbox to be monitored remotely. The oil level is monitored by a capacitive sensor only when the gearbox starts up; it is not measured continuously during operation.

Gearbox ventilation

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

If required, a pressure ventilation valve can be used for size 48 and above.

Order code	E.48 ... E.128 D./Z.48 ... D./Z.128	E.148 D./Z.148 ... D./Z.188
Vent filter		
Pressure ventilation valve		

SW = Wrench width

Oil drain

Magnetic oil drain plug

A magnetic oil drain plug for inserting in the oil drainage hole is available for helical gearboxes of size 48 and above. This serves to collect any metal grit contained in the gear lubricant.

Order code:

Magnetic oil drain plug **G53**

Oil drain valve

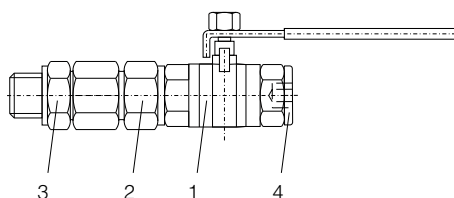
An oil drain valve is available for helical gearboxes of size 48 and above.

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

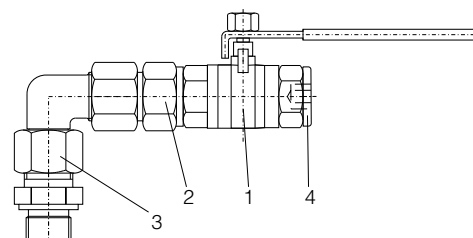
Order code:

Oil drain valve, straight **G54**

An angled oil drain valve is also available on request.



Pos.1 Oil drain valve
Pos.2 Screwed connection EGE
Pos.3 Screwed connection GE
Pos.4 Screw plug



Pos.1 Oil drain valve
Pos.2 Screwed connection EGE
Pos.3 Screwed connection GE
Pos.4 Screw plug

MOTOX Geared Motors

Helical geared motors

Special versions

Sealing

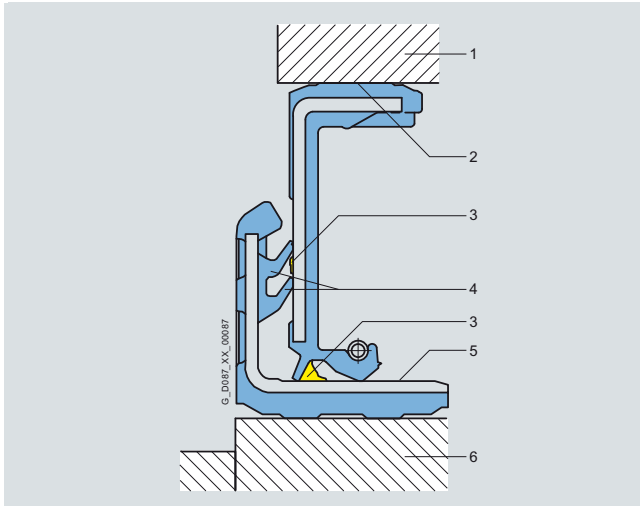
Combination shaft sealing

A combination shaft sealing, which helps to prevent oil from leaking, is available for helical gearboxes of sizes 38 to 168.

A combination shaft sealing is particularly well suited to external use.

Order code:

Combination shaft sealing **G24**



- 2 • Housing
- 3 • Rubberized inner and outer diameter
- 4 • Grease filling prevents dry running of the sealing lips
- 5 • Additional sealing lips to protect against dirt
 - Decoupled sealing system prevents scoring of the shaft as a result of corrosion or dirt
- 6 • Protected running surface for radial shaft sealing ring
 - No damage when mounting
- 7 • Shaft

Double sealing

Double sealing is possible for helical gearboxes of sizes 18, 28 and 188. Double sealing is particularly well suited to external use.

Order code:

Double sealing MSS1 (sizes 18, 28)

G23

Double radial shaft seal (size 188)

G22+G31

High temperature resistant sealing

High temperature resistant sealings (Viton/fluorinated rubber) for high operating and ambient temperatures of +60 °C and above are available for helical gearboxes.

Order code:

High temperature resistant sealing **G25**

Radially reinforced output shaft bearings

If required, gearboxes are available with a radially reinforced output shaft bearing arrangement. The reinforced bearings allow higher radial forces to be transferred.

Order code:

Radially reinforced output shaft bearing **G20**

Axially reinforced output shaft bearings

The gearboxes can be fitted with axially reinforced output shaft bearings on request.

Order code:

Axially reinforced output shaft bearing **G21**

Agitator flange in dry-well design

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

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

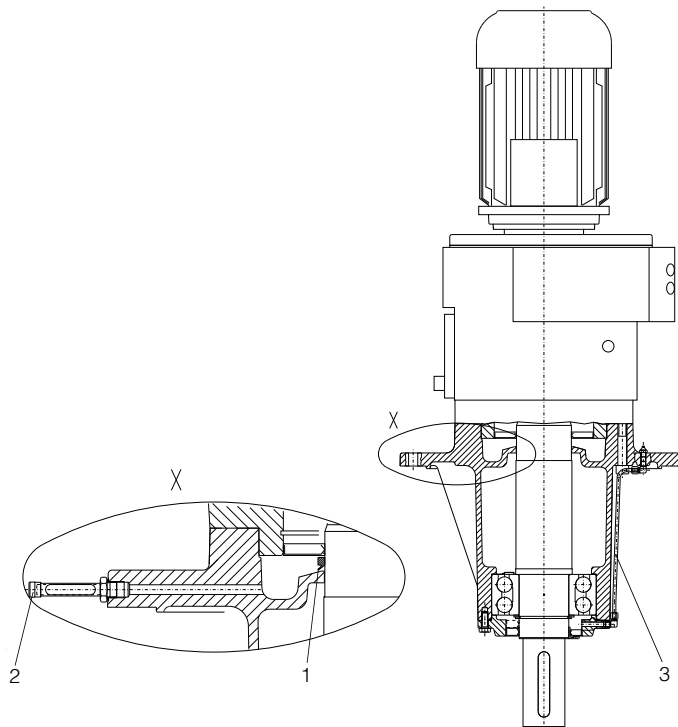
Order codes:

Design with sight glass

G89

Design with sensor

G90



Regreasing device for the agitator flange (3)

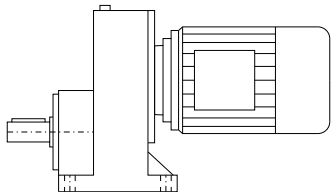
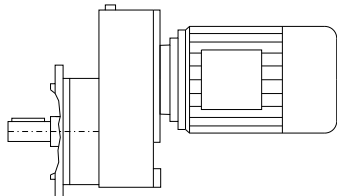
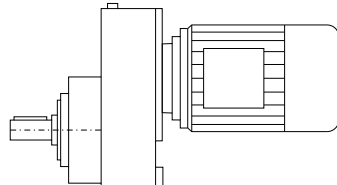
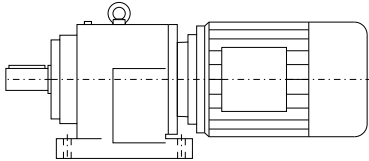
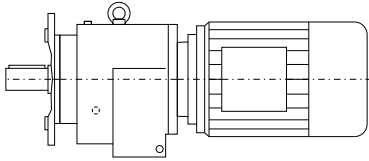
The agitator flange gearbox can be fitted with a regreasing device on request.

MOTEX Geared Motors

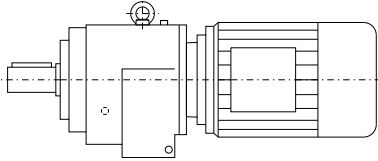
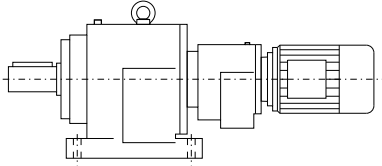
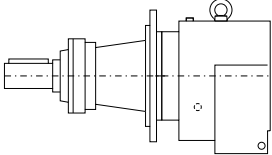
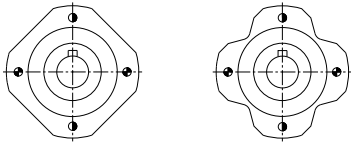
Helical geared motors

Dimensions

Dimension drawing overview

Representation	Gearbox type	Dimension drawing on page
	E38	2/136
	E48	2/139
	E68	2/142
	E88	2/145
	E108	2/148
	E128	2/151
	E148	2/154
	EF38	2/137
	EF48	2/140
	EF68	2/143
	EF88	2/146
	EF108	2/149
	EF128	2/152
	EF148	2/155
	EZ38	2/138
	EZ48	2/141
	EZ68	2/144
	EZ88	2/147
	EZ108	2/150
	EZ128	2/153
	EZ148	2/156
	D/Z18	2/157
	D/Z28	2/159
	D/Z38	2/161
	D/Z48	2/164
	D/Z68	2/167
	D/Z88	2/170
	D/Z108	2/173
	D/Z128	2/176
	D/Z148	2/179
	D/Z168	2/182
	D/Z188	2/185
	DF/ZF18	2/158
	DF/ZF28	2/160
	DF/ZF38	2/162
	DF/ZF48	2/165
	DF/ZF68	2/168
	DF/ZF88	2/171
	DF/ZF108	2/174
	DF/ZF128	2/177
	DF/ZF148	2/180
	DF/ZF168	2/183
	DF/ZF188	2/186

Dimension drawing overview (continued)

Representation	Gearbox type	Dimension drawing on page
	DZ/ZZ38	2/163
	DZ/ZZ48	2/166
	DZ/ZZ68	2/169
	DZ/ZZ88	2/172
	DZ/ZZ108	2/175
	DZ/ZZ128	2/178
	DZ/ZZ148	2/181
	DZ/ZZ168	2/184
	DZ/ZZ188	2/187
	D./Z.38-Z28 ... D.188-Z68	2/188
	DR/ZR68 ... DR/ZR168	2/191
	Pin holes	2/192

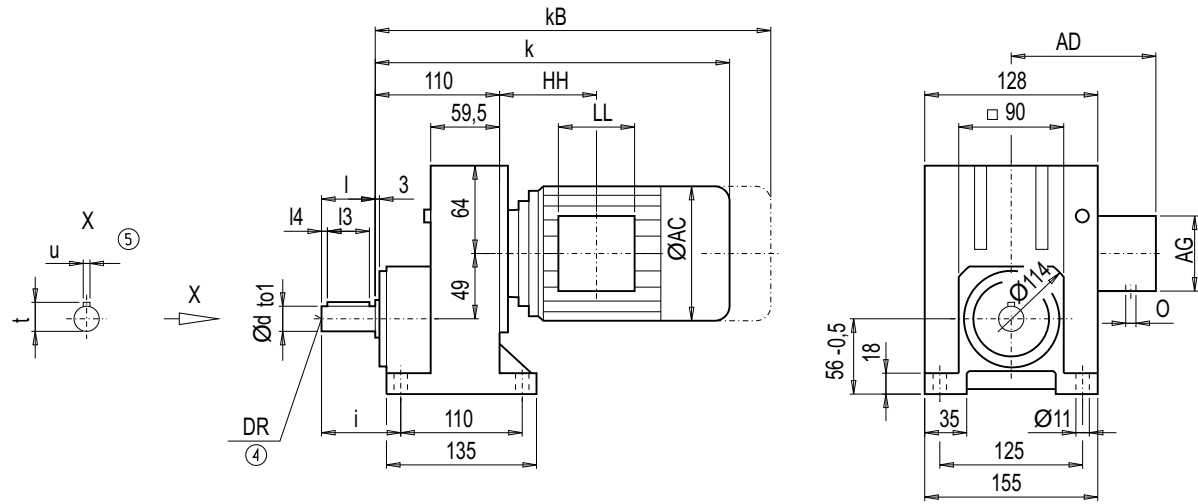
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox E38 (1-stage), foot-mounted design

E011



d	to1	l	l4	l3	t	u	i	DR
20 *)	k6	40	5	30	22.5	6	56	M6x16
25	k6	50	7	40	28.0	8	66	M10x22

*) Preferred series

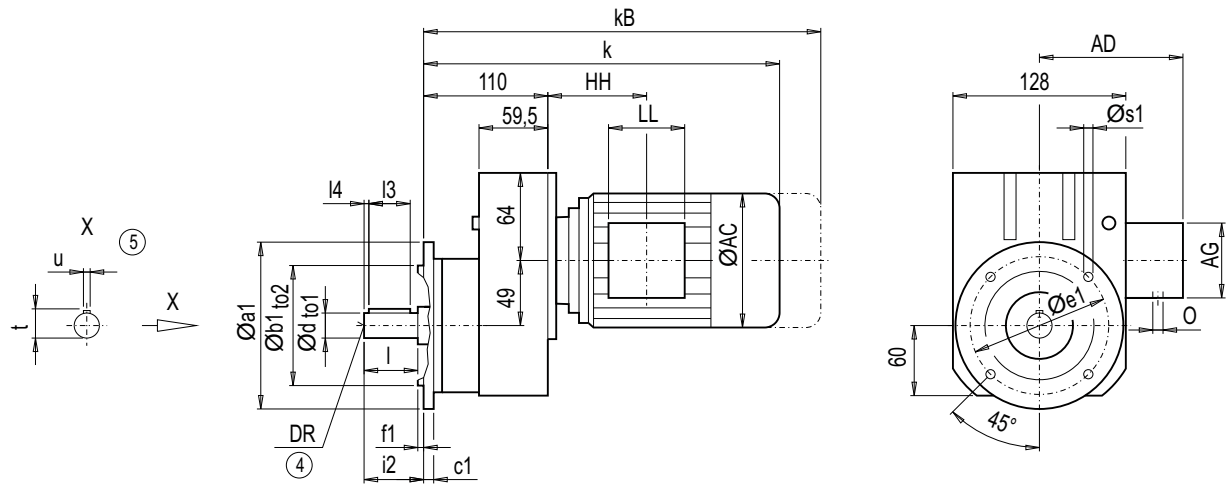
E38									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	E38
LA71	368.5	423.5	139.0	146	90	90	114.5	M20x1.5/M25x1.5	12
LA71Z	387.5	442.5	139.0	146	90	90	114.5	M20x1.5/M25x1.5	12
LA80	405.5	469.0	156.5	155	90	90	114.0	M20x1.5/M25x1.5	16
LA80Z	428.0	491.5	156.5	155	90	90	187.0	M20x1.5/M25x1.5	20
LA90S/L	436.5	507.5	174.0	163	90	90	114.0	M20x1.5/M25x1.5	21
LA90ZL	481.5	552.5	174.0	163	90	90	238.0	M20x1.5/M25x1.5	27
LA100L	482.5	563.5	195.0	168	120	120	154.5	2xM32x1.5	30
LA100ZL	552.5	633.5	195.0	168	120	120	286.5	2xM32x1.5	40
LA112M	512.5	593.5	219.0	181	120	120	160.5	2xM32x1.5	41
LA112ZM	540.5	621.5	219.0	181	120	120	264.5	2xM32x1.5	48

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox EF38 (1-stage), flange-mounted design (A-type)

EF011



Flange	a1	b1	to2	c1	e1	f1	s1	d	to1	l	l4	l3	t	u	i2	DR
A120	120	80	j6	8	100	3.0	6.8	20 ^{*)}	k6	40	5	30	22.5	6	40	M6x16
								25	k6	50	7	40	28.0	8	50	M10x22
A140	140	95	j6	10	115	3.0	9.0	20 ^{*)}	k6	40	5	30	22.5	6	40	M6x16
								25	k6	50	7	40	28.0	8	50	M10x22
A160	160	110	j6	10	130	3.5	9.0	20 ^{*)}	k6	40	5	30	22.5	6	40	M6x16
								25	k6	50	7	40	28.0	8	50	M10x22
A200	200	130	j6	12	165	3.5	11.0	20 ^{*)}	k6	40	5	30	22.5	6	40	M6x16
								25	k6	50	7	40	28.0	8	50	M10x22
A250	250	180	j6	15	215	4.0	13.5	20 ^{*)}	k6	40	5	30	22.5	6	40	M6x16
								25	k6	50	7	40	28.0	8	50	M10x22

*) Preferred series

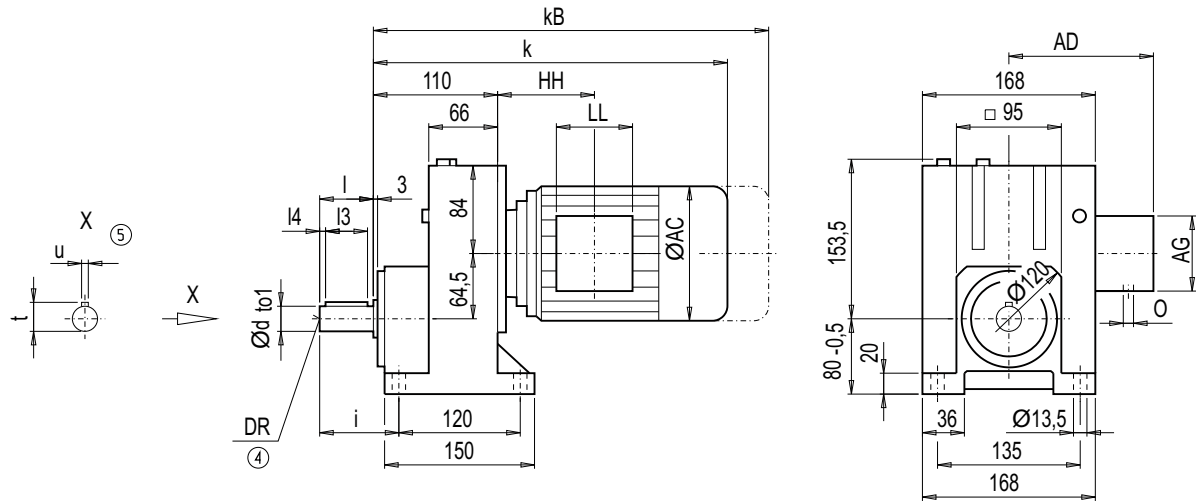
EF38									Weight	
Motor	k	kB	AC	AD	AG	LL	HH	O	EF38	
LA71	368.5	423.5	139.0	146	90	90	114.5	M20x1.5/M25x1.5	14	
LA71Z	387.5	442.5	139.0	146	90	90	114.5	M20x1.5/M25x1.5	14	
LA80	405.5	469.0	156.5	155	90	90	114.0	M20x1.5/M25x1.5	19	
LA80Z	428.0	491.5	156.5	155	90	90	187.0	M20x1.5/M25x1.5	23	
LA90S/L	436.5	507.5	174.0	163	90	90	114.0	M20x1.5/M25x1.5	24	
LA90ZL	481.5	552.5	174.0	163	90	90	238.0	M20x1.5/M25x1.5	30	
LA100L	482.5	563.5	195.0	168	120	120	154.5	2xM32x1.5	33	
LA100ZL	552.5	633.5	195.0	168	120	120	286.5	2xM32x1.5	43	
LA112M	512.5	593.5	219.0	181	120	120	160.5	2xM32x1.5	43	
LA112ZM	540.5	621.5	219.0	181	120	120	264.5	2xM32x1.5	50	

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox E48 (1-stage), foot-mounted design

E011



d	to1	l	l4	l3	t	u	i	DR
25 *)	k6	50	7	40	28	8	75	M10x22
30	k6	60	7	50	33	8	85	M10x22

*) Preferred series

E48									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	E48
LA71	363.0	418.0	139.0	146	90	90	109.0	M20x1.5/M25x1.5	15
LA71Z	382.0	437.0	139.0	146	90	90	109.0	M20x1.5/M25x1.5	15
LA80	400.0	463.5	156.5	155	90	90	108.5	M20x1.5/M25x1.5	20
LA80Z	422.5	486.0	156.5	155	90	90	181.5	M20x1.5/M25x1.5	24
LA90S/L	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	25
LA90ZL	476.0	547.0	174.0	163	90	90	232.5	M20x1.5/M25x1.5	31
LA100L	477.0	558.0	195.0	168	120	120	149.0	2xM32x1.5	34
LA100ZL	547.0	628.0	195.0	168	120	120	281.0	2xM32x1.5	44
LA112M	506.0	587.0	219.0	181	120	120	154.0	2xM32x1.5	45
LA112ZM	534.0	615.0	219.0	181	120	120	258.0	2xM32x1.5	52
LA132S/M	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	55
LA132ZM	614.5	716.5	259.0	195	140	140	305.0	2xM32x1.5	76

④ DIN 332

⑤ Feather key / keyway DIN 6885

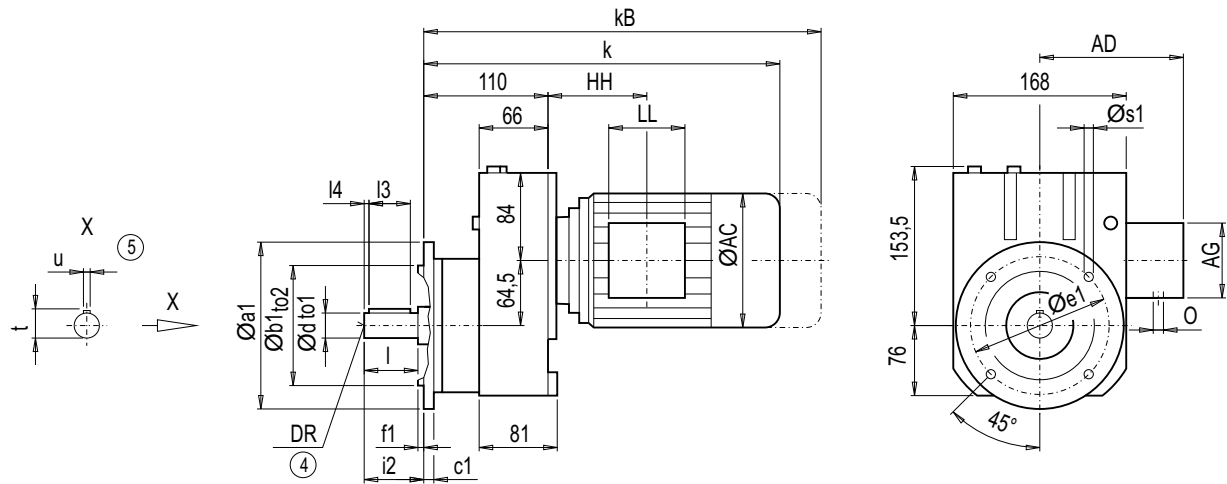
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox EF48 (1-stage), flange-mounted design (A-type)

EF011



Flange	a1	b1	to2	c1	e1	f1	s1	d	to1	l	l3	l4	t	u	i2	DR
A120	120	80	j6	8	100	3.0	6.8	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
								30	k6	60	7	50	33	8	60	M10x22
A140	140	95	j6	10	115	3.0	9.0	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
								30	k6	60	7	50	33	8	60	M10x22
A160	160	110	j6	10	130	3.5	9.0	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
								30	k6	60	7	50	33	8	60	M10x22
A200	200	130	j6	12	165	3.5	11.0	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
								30	k6	60	7	50	33	8	60	M10x22
A250	250	180	j6	15	215	4.0	13.5	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
								30	k6	60	7	50	33	8	60	M10x22

*) Preferred series

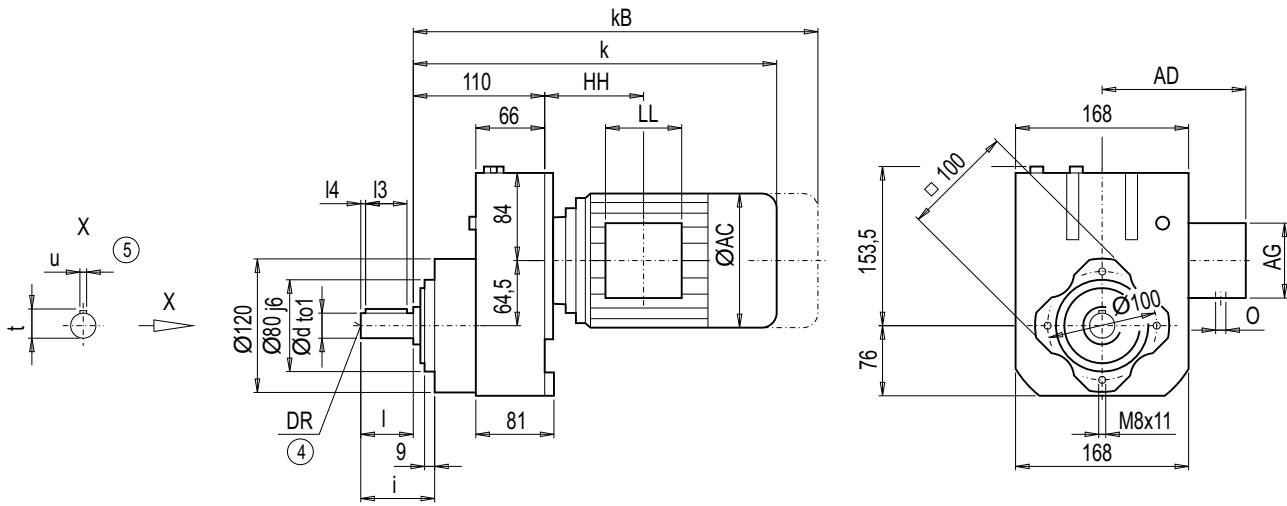
EF48									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	EF48
LA71	363.0	418.0	139.0	146	90	90	109.0	M20x1.5/M25x1.5	17
LA71Z	382.0	437.0	139.0	146	90	90	109.0	M20x1.5/M25x1.5	17
LA80	400.0	463.5	156.5	155	90	90	108.5	M20x1.5/M25x1.5	22
LA80Z	422.5	486.0	156.5	155	90	90	181.5	M20x1.5/M25x1.5	26
LA90S/L	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	27
LA90ZL	476.0	547.0	174.0	163	90	90	232.5	M20x1.5/M25x1.5	33
LA100L	477.0	558.0	195.0	168	120	120	149.0	2xM32x1.5	36
LA100ZL	547.0	628.0	195.0	168	120	120	281.0	2xM32x1.5	46
LA112M	506.0	587.0	219.0	181	120	120	154.0	2xM32x1.5	47
LA112ZM	534.0	615.0	219.0	181	120	120	258.0	2xM32x1.5	54
LA132S/M	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	57
LA132ZM	614.5	716.5	259.0	195	140	140	305.0	2xM32x1.5	78

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox EZ48 (1-stage), housing-flange-mounted design (C-type)

EZ011



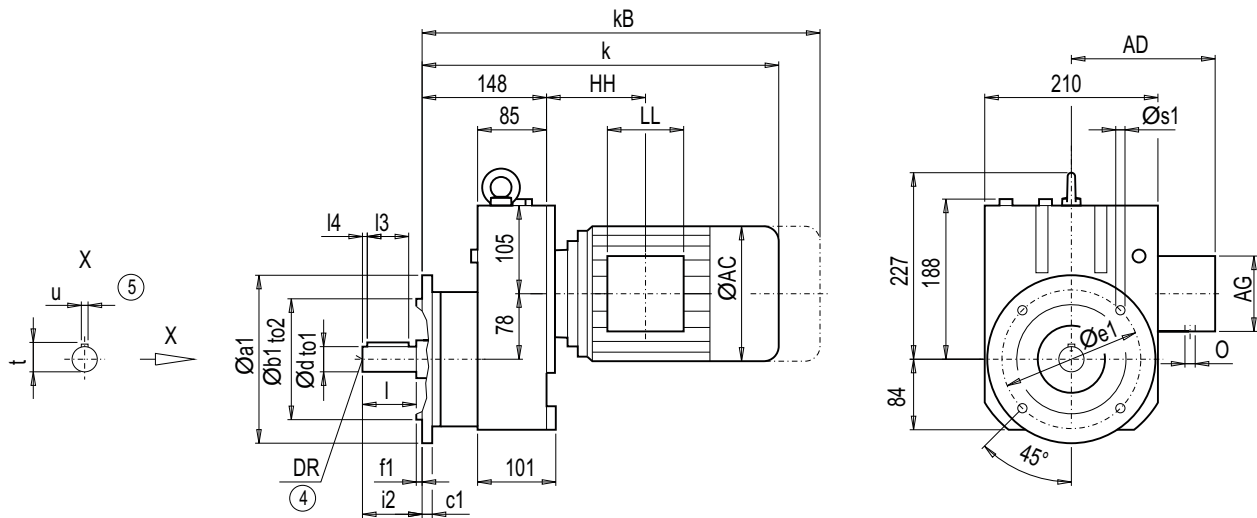
d	to1	l	l4	l3	t	u	i	DR
25 *)	k6	50	7	40	28	8	63	M10x22
30	k6	60	7	50	33	8	73	M10x22

*) Preferred series

Motor	EZ48								Weight
	k	kB	AC	AD	AG	LL	HH	O	EZ48
LA71	363.0	418.0	139.0	146	90	90	109.0	M20x1.5/M25x1.5	14
LA71Z	382.0	437.0	139.0	146	90	90	109.0	M20x1.5/M25x1.5	14
LA80	400.0	463.5	156.5	155	90	90	108.5	M20x1.5/M25x1.5	19
LA80Z	422.5	486.0	156.5	155	90	90	181.5	M20x1.5/M25x1.5	23
LA90S/L	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	23
LA90ZL	476.0	547.0	174.0	163	90	90	232.5	M20x1.5/M25x1.5	29
LA100L	477.0	558.0	195.0	168	120	120	149.0	2xM32x1.5	33
LA100ZL	547.0	628.0	195.0	168	120	120	281.0	2xM32x1.5	43
LA112M	506.0	587.0	219.0	181	120	120	154.0	2xM32x1.5	44
LA112ZM	534.0	615.0	219.0	181	120	120	258.0	2xM32x1.5	51
LA132S/M	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	54
LA132ZM	614.5	716.5	259.0	195	140	140	305.0	2xM32x1.5	75

Gearbox EF68 (1-stage), flange-mounted design (A-type)

EF011



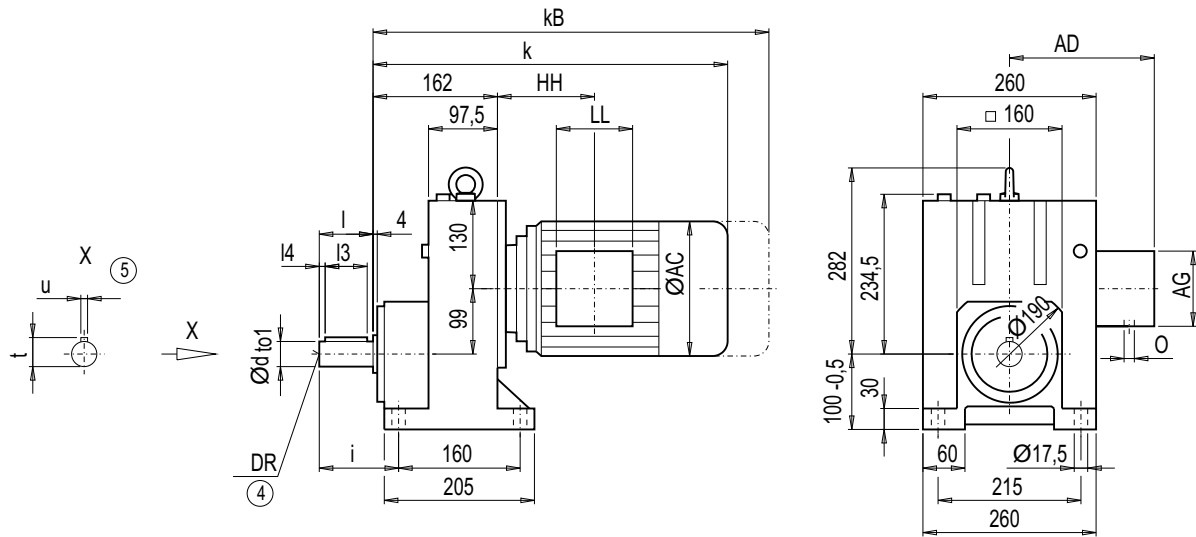
Flange	a1	b1	to2	c1	e1	f1	s1	d	to1	l	l4	l3	t	u	i2	DR
A200	200	130	j6	12	165	3.5	11.0	30 ^{*)}	k6	60	3.5	50	33	8	60	M10x22
								40	k6	80	5	70	43	12	80	M16x36
A250	250	180	j6	15	215	4.0	13.5	30 ^{*)}	k6	60	3.5	50	33	8	60	M10x22
								40	k6	80	5	70	43	12	80	M16x36
A300	300	230	j6	16	265	4.0	13.5	30 ^{*)}	k6	60	3.5	50	33	8	60	M10x22
								40	k6	80	5	70	43	12	80	M16x36

*) Preferred series

EF68										Weight
Motor	k	kB	AC	AD	AG	LL	HH	O		EF68
LA71	395.0	450.0	139.0	146	90	90	103.0	M20x1.5/M25x1.5		27
LA71Z	414.0	469.0	139.0	146	90	90	103.0	M20x1.5/M25x1.5		27
LA80	432.0	495.5	156.5	155	90	90	102.5	M20x1.5/M25x1.5		32
LA80Z	454.5	518.0	156.5	155	90	90	175.5	M20x1.5/M25x1.5		36
LA90S/L	463.0	534.0	174.0	163	90	90	102.5	M20x1.5/M25x1.5		36
LA90ZL	508.0	579.0	174.0	163	90	90	226.5	M20x1.5/M25x1.5		42
LA100L	509.0	590.0	195.0	168	120	120	143.0	2xM32x1.5		46
LA100ZL	579.0	660.0	195.0	168	120	120	275.0	2xM32x1.5		56
LA112M	536.0	617.0	219.0	181	120	120	146.0	2xM32x1.5		57
LA112ZM	564.0	645.0	219.0	181	120	120	250.0	2xM32x1.5		64
LA132S/M	596.0	698.0	259.0	195	140	140	186.5	2xM32x1.5		70
LA132ZM	642.0	744.0	259.0	195	140	140	294.5	2xM32x1.5		91
LA160M/L	699.0	817.5	313.5	227	165	165	212.5	2xM40x1.5		103
LA160ZL	747.0	865.5	313.5	227	165	165	365.5	2xM40x1.5		142

Gearbox E88 (1-stage), foot-mounted design

E011



d	to1	l	l4	l3	t	u	i	DR
40 ^{*)}	k6	80	5	70	43	12	110	M16x36
45	k6	90	5	80	48.5	14	120	M16x36

*) Preferred series

	E88								Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	E88
LA90S/L	462.0	533.0	174.0	163.0	90	90	87.5	M20x1.5/M25x1.5	52
LA90ZL	507.0	578.0	174.0	163.0	90	90	211.5	M20x1.5/M25x1.5	58
LA100L	505.5	586.5	195.0	168.0	120	120	125.5	2xM32x1.5	60
LA100ZL	575.5	656.5	195.0	168.0	120	120	257.5	2xM32x1.5	70
LA112M	531.5	612.5	219.0	181.0	120	120	127.5	2xM32x1.5	72
LA112ZM	559.5	640.5	219.0	181.0	120	120	231.5	2xM32x1.5	79
LA132S/M	591.5	693.5	259.0	195.0	140	140	168.0	2xM32x1.5	84
LA132ZM	637.5	739.5	259.0	195.0	140	140	276.0	2xM32x1.5	105
LA160M/L	696.0	814.5	313.5	227.0	165	165	195.5	2xM40x1.5	119
LA160ZL	744.0	862.5	313.5	227.0	165	165	348.5	2xM40x1.5	158
LG180M/L	756.0	878.0	348.0	322.5	260	192	213.0	2xM40x1.5	211
LG180ZM/ZL	807.0	929.0	348.0	322.5	260	192	213.0	2xM40x1.5	241

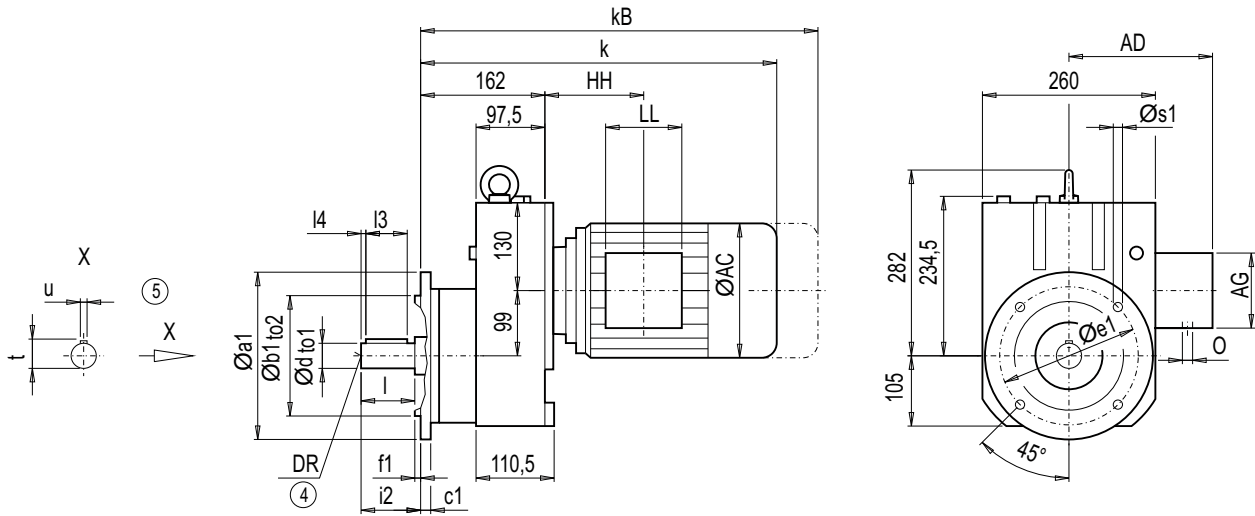
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox EF88 (1-stage), flange-mounted design (A-type)

EF011



Flange	a1	b1	to2	c1	e1	f1	s1	d	to1	l	l4	l3	t	u	i2	DR
A250	250	180	j6	15	215	4	13.5	40 ^{*)}	k6	80	5	70	43	12	80	M16x36
								45	k6	90	5	80	48.5	14	90	M16x36
A300	300	230	j6	16	265	4	13.5	40 ^{*)}	k6	80	5	70	43	12	80	M16x36
								45	k6	90	5	80	48.5	14	90	M16x36
A350	350	250	h6	18	300	4	17.5	40 ^{*)}	k6	80	5	70	43	12	80	M16x36
								45	k6	90	5	80	48.5	14	90	M16x36

*) Preferred series

EF88										Weight
Motor	k	kB	AC	AD	AG	LL	HH	O		EF88
LA90S/L	462.0	533.0	174.0	163.0	90	90	87.5	M20x1.5/M25x1.5		54
LA90ZL	507.0	578.0	174.0	163.0	90	90	211.5	M20x1.5/M25x1.5		60
LA100L	505.5	586.5	195.0	168.0	120	120	125.5	2xM32x1.5		62
LA100ZL	575.5	656.5	195.0	168.0	120	120	257.5	2xM32x1.5		72
LA112M	531.5	612.5	219.0	181.0	120	120	127.5	2xM32x1.5		74
LA112ZM	559.5	640.5	219.0	181.0	120	120	231.5	2xM32x1.5		81
LA132S/M	591.5	693.5	259.0	195.0	140	140	168.0	2xM32x1.5		85
LA132ZM	637.5	739.5	259.0	195.0	140	140	276.0	2xM32x1.5		107
LA160M/L	696.0	814.5	313.5	227.0	165	165	195.5	2xM40x1.5		120
LA160ZL	744.0	862.5	313.5	227.0	165	165	348.5	2xM40x1.5		159
LG180M/L	756.0	878.0	348.0	322.5	260	192	213.0	2xM40x1.5		212
LG180ZM/ZL	807.0	929.0	348.0	322.5	260	192	213.0	2xM40x1.5		242

④ DIN 332

⑤ Feather key / keyway DIN 6885

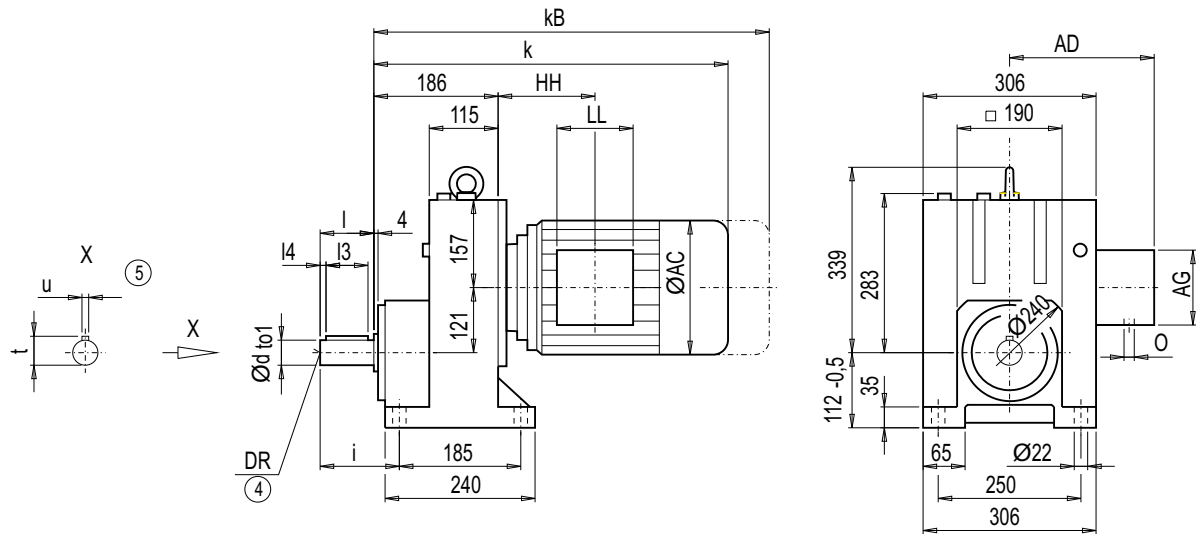
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox E108 (1-stage), foot-mounted design

E011



d	to1	l	l4	l3	t	u	i	DR
50 *)	k6	100	10	80	53.5	14	140	M16x36
55	k6	110	5	100	59.0	16	150	M20x42

*) Preferred series

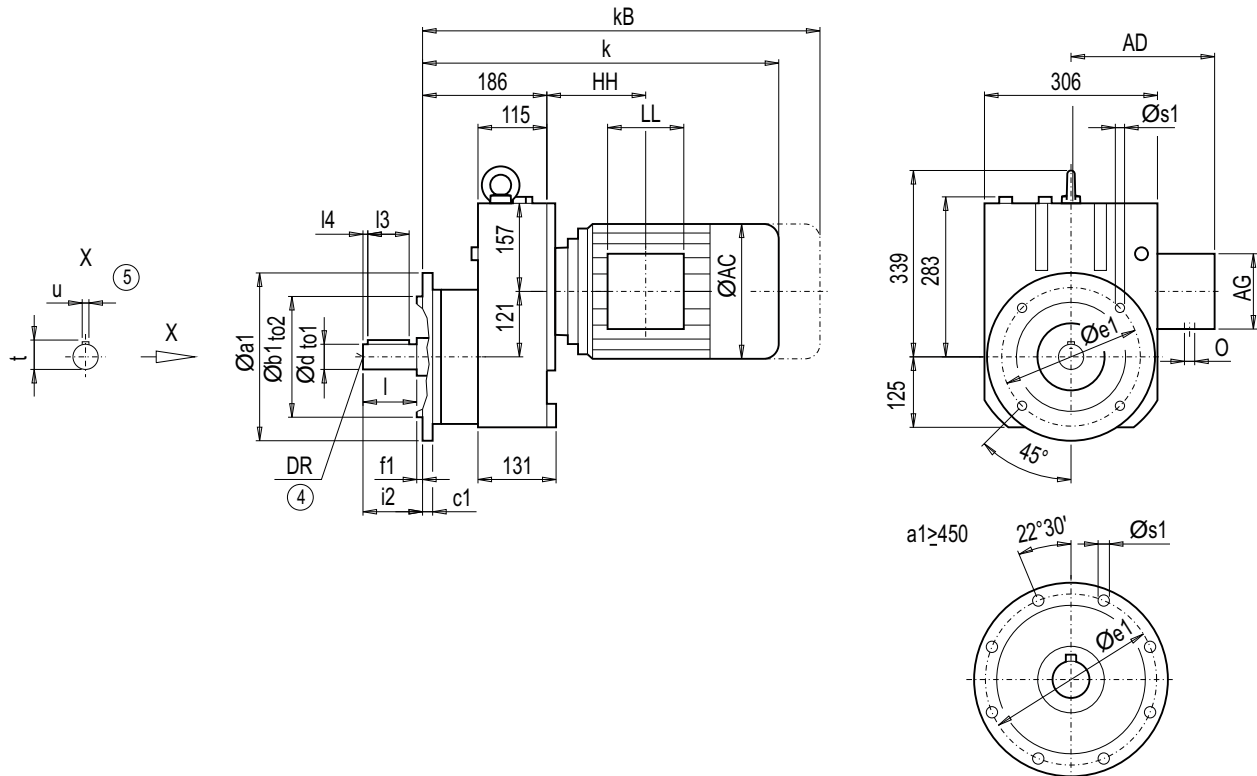
E108									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	E108
LA90S/L	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5	74
LA90ZL	519.5	590.5	174.0	163.0	90	90	200.0	M20x1.5/M25x1.5	80
LA100L	517.5	598.5	195.0	168.0	120	120	113.5	2xM32x1.5	82
LA100ZL	587.5	668.5	195.0	168.0	120	120	245.5	2xM32x1.5	92
LA112M	544.0	625.0	219.0	181.0	120	120	116.0	2xM32x1.5	94
LA112ZM	572.0	653.0	219.0	181.0	120	120	220.0	2xM32x1.5	101
LA132S/M	603.0	705.0	259.0	195.0	140	140	155.5	2xM32x1.5	105
LA132ZM	649.0	751.0	259.0	195.0	140	140	263.5	2xM32x1.5	126
LA160M/L	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5	139
LA160ZL	756.5	875.0	313.5	227.0	165	165	337.0	2xM40x1.5	178
LG180M/L	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5	236
LG180ZM/ZL	816.0	938.0	348.0	322.5	260	192	198.0	2xM40x1.5	266
LG200L	821.0	947.0	385.0	301.0	260	192	228.0	2xM50x1.5	316
K4-LGI225S	1 082.0	1 321.0	442.0	325.0	260	192	443.0	2xM50x1.5	472
K4-LGI225M	1 082.0	1 321.0	442.0	325.0	260	192	443.0	2xM50x1.5	460
K4-LGI225ZM	1 142.0	1 381.0	442.0	325.0	260	192	443.0	2xM50x1.5	518

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox EF108 (1-stage), flange-mounted design (A-type)

EF011



Flange	a1	b1	to2	c1	e1	f1	s1	d	to1	l	l4	l3	t	u	i2	DR
A300	300	230	j6	16	265	4	13.5	50 ^{*)}	k6	100	10	80	53.5	14	100	M16x36
								55	k6	110	5	100	59.0	16	110	M20x42
A350	350	250	h6	18	300	5	17.5	50 ^{*)}	k6	100	10	80	53.5	14	100	M16x36
								55	k6	110	5	100	59.0	16	110	M20x42
A450	450	350	h6	22	400	5	17.5	50 ^{*)}	k6	100	10	80	53.5	14	100	M16x36
								55	k6	110	5	100	59.0	16	110	M20x42

*) Preferred series

EF108										Weight
Motor	k	kB	AC	AD	AG	LL	HH	O		EF108
LA90S/L	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5		84
LA90ZL	519.5	590.5	174.0	163.0	90	90	200.0	M20x1.5/M25x1.5		90
LA100L	517.5	598.5	195.0	168.0	120	120	113.5	2xM32x1.5		92
LA100ZL	587.5	668.5	195.0	168.0	120	120	245.5	2xM32x1.5		102
LA112M	544.0	625.0	219.0	181.0	120	120	116.0	2xM32x1.5		104
LA112ZM	572.0	653.0	219.0	181.0	120	120	220.0	2xM32x1.5		111
LA132S/M	603.0	705.0	259.0	195.0	140	140	155.5	2xM32x1.5		114
LA132ZM	649.0	751.0	259.0	195.0	140	140	263.5	2xM32x1.5		135
LA160M/L	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5		149
LA160ZL	756.5	875.0	313.5	227.0	165	165	337.0	2xM40x1.5		188
LG180M/L	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5		245
LG180ZM/ZL	816.0	938.0	348.0	322.5	260	192	198.0	2xM40x1.5		275
LG200L	821.0	947.0	385.0	301.0	260	192	228.0	2xM50x1.5		325
K4-LGI225S	1 082.0	1 321.0	442.0	325.0	260	192	443.0	2xM50x1.5		481
K4-LGI225M	1 082.0	1 321.0	442.0	325.0	260	192	443.0	2xM50x1.5		469
K4-LGI225ZM	1 142.0	1 381.0	442.0	325.0	260	192	443.0	2xM50x1.5		527

④ DIN 332

⑤ Feather key / keyway DIN 6885

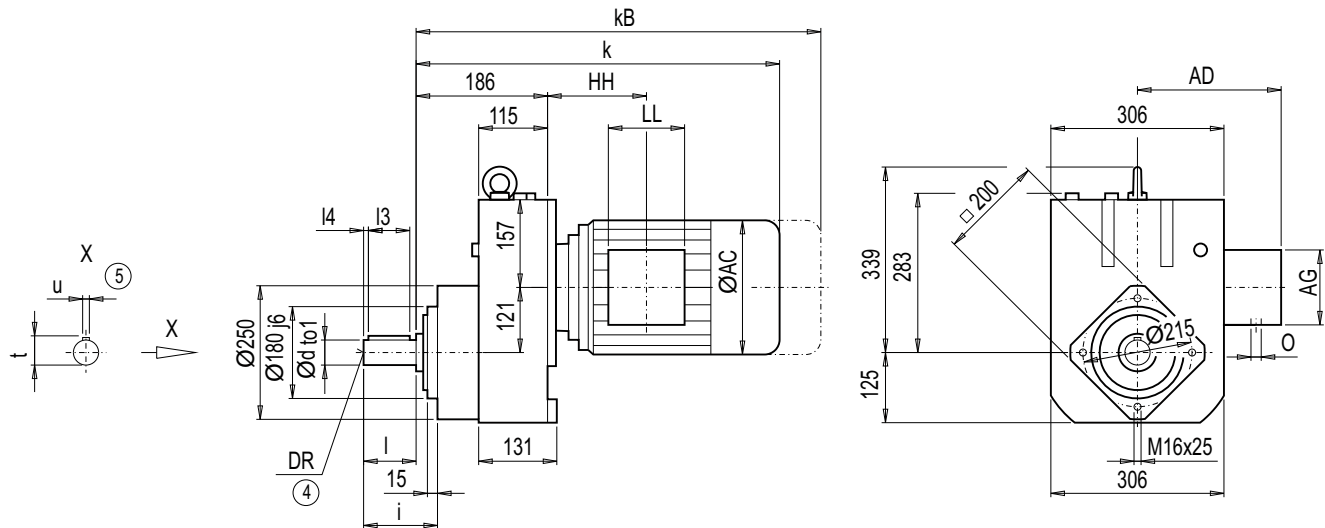
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox EZ108 (1-stage), housing-flange-mounted design (C-type)

EZ011



d	to1	l	l4	l3	t	u	i	DR
50 *)	k6	100	10	80	53.5	14	122	M16x36
55	k6	110	5	100	59.0	16	132	M20x42

*) Preferred series

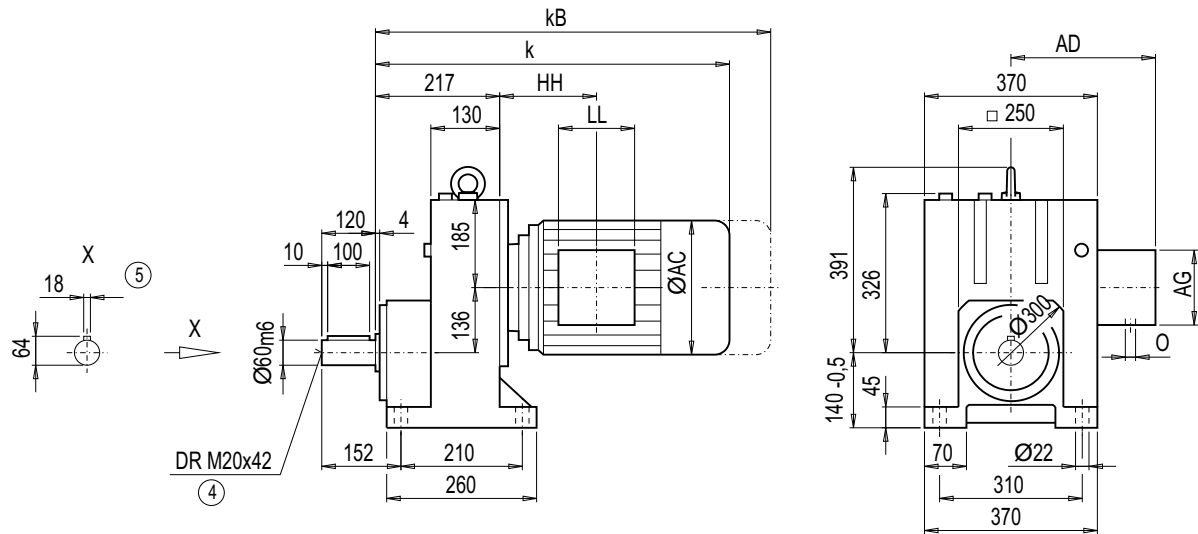
EZ108									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	EZ108
LA90S/L	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5	67
LA90ZL	519.5	590.5	174.0	163.0	90	90	200.0	M20x1.5/M25x1.5	73
LA100L	517.5	598.5	195.0	168.0	120	120	113.5	2xM32x1.5	75
LA100ZL	587.5	668.5	195.0	168.0	120	120	245.5	2xM32x1.5	85
LA112M	544.0	625.0	219.0	181.0	120	120	116.0	2xM32x1.5	87
LA112ZM	572.0	653.0	219.0	181.0	120	120	220.0	2xM32x1.5	94
LA132S/M	603.0	705.0	259.0	195.0	140	140	155.5	2xM32x1.5	98
LA132ZM	649.0	751.0	259.0	195.0	140	140	263.5	2xM32x1.5	119
LA160M/L	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5	132
LA160ZL	756.5	875.0	313.5	227.0	165	165	337.0	2xM40x1.5	171
LG180M/L	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5	229
LG180ZM/ZL	816.0	938.0	348.0	322.5	260	192	198.0	2xM40x1.5	259
LG200L	821.0	947.0	385.0	301.0	260	192	228.0	2xM50x1.5	309
K4-LGI225S	1 082.0	1 321.0	442.0	325.0	260	192	443.0	2xM50x1.5	465
K4-LGI225M	1 082.0	1 321.0	442.0	325.0	260	192	443.0	2xM50x1.5	453
K4-LGI225ZM	1 142.0	1 381.0	442.0	325.0	260	192	443.0	2xM50x1.5	511

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox E128 (1-stage), foot-mounted design

E011



E128									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	E128
LA100L	539.0	620.0	195.0	168.0	120	120	104.0	2xM32x1.5	121
LA100ZL	609.0	690.0	195.0	168.0	120	120	236.0	2xM32x1.5	131
LA112M	564.5	645.5	219.0	181.0	120	120	105.5	2xM32x1.5	132
LA112ZM	592.5	673.5	219.0	181.0	120	120	209.5	2xM32x1.5	139
LA132S/M	623.5	725.5	259.0	195.0	140	140	145.0	2xM32x1.5	142
LA132ZM	669.5	771.5	259.0	195.0	140	140	253.0	2xM32x1.5	163
LA160M/L	723.0	841.5	313.5	227.0	165	165	167.5	2xM40x1.5	181
LA160ZL	771.0	889.5	313.5	227.0	165	165	320.5	2xM40x1.5	220
LG180M/L	782.5	904.5	348.0	322.5	260	192	184.5	2xM40x1.5	272
LG180ZM/ZL	833.5	955.5	348.0	322.5	260	192	184.5	2xM40x1.5	302
LG200L	838.5	964.5	385.0	301.0	260	192	214.5	2xM50x1.5	352
LG225S	909.5	1 148.5	442.0	325.0	260	192	250.5	2xM50x1.5	428
LG225M	909.5	1 148.5	442.0	325.0	260	192	250.5	2xM50x1.5	416
LG225ZM	969.5	1 208.5	442.0	325.0	260	192	250.5	2xM50x1.5	474
K4-LGI250M	1 197.0	1 422.0	495.0	392.0	300	236	470.0	2xM63x1.5	596
K4-LGI250ZM	1 267.0	1 492.0	495.0	392.0	300	236	470.0	2xM63x1.5	699

④ DIN 332

⑤ Feather key / keyway DIN 6885

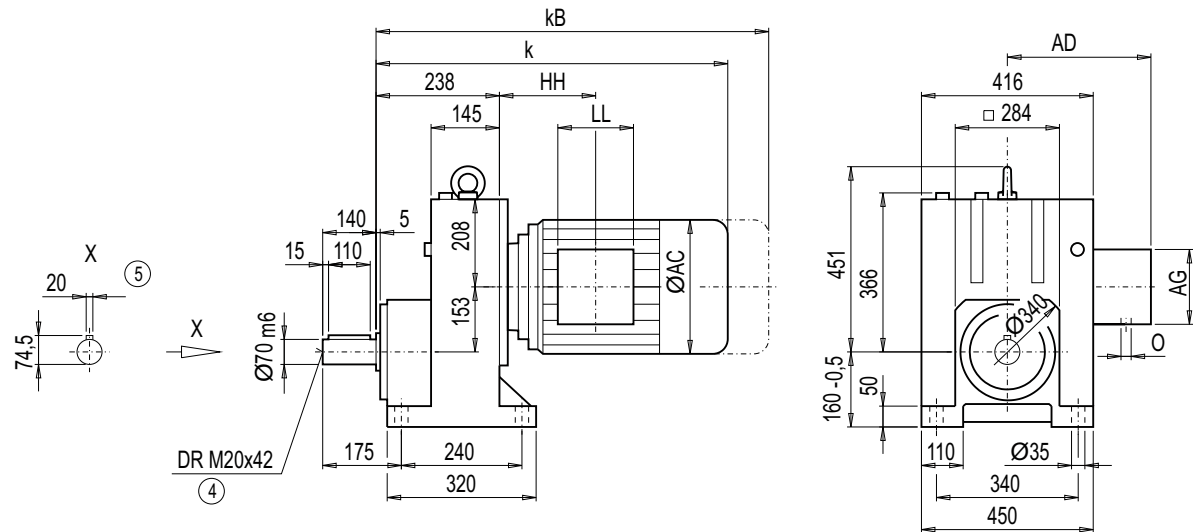
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox E148 (1-stage), foot-mounted design

E011



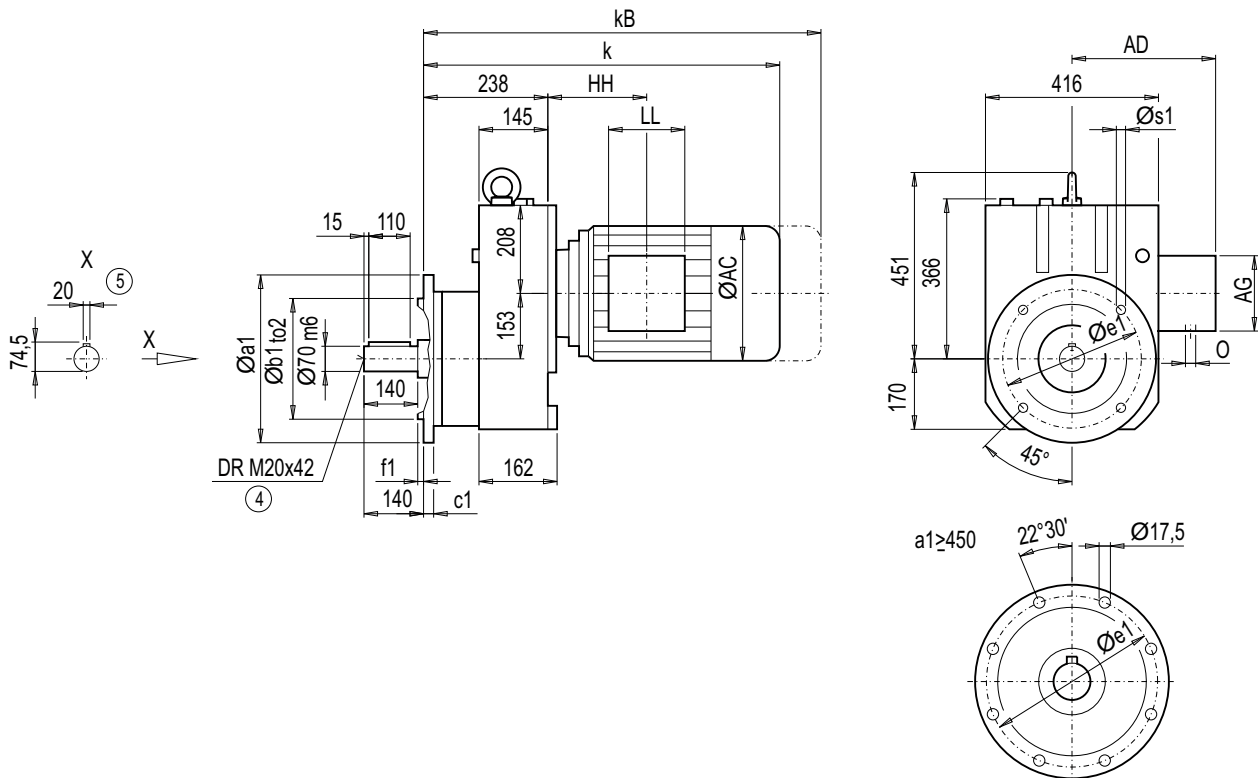
E148									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	E148
LA132S/M	636.5	738.5	259.0	195.0	140	140	137.0	2xM32x1.5	169
LA132ZM	682.5	784.5	259.0	195.0	140	140	245.0	2xM32x1.5	190
LA160M/L	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	203
LA160ZL	784.5	903	313.5	227.0	165	165	313.0	2xM40x1.5	242
LG180M/L	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	298
LG180ZM/ZL	847.0	969.0	348.0	322.5	260	192	177.0	2xM40x1.5	328
LG200L	852.0	978.0	385.0	301.0	260	192	207.0	2xM50x1.5	378
LG225S	923.0	1 162.0	442.0	325.0	260	192	243.0	2xM50x1.5	452
LG225M	923.0	1 162.0	442.0	325.0	260	192	243.0	2xM50x1.5	440
LG225ZM	983.0	1 222.0	442.0	325.0	260	192	243.0	2xM50x1.5	498
LG250M	1 016.5	1 241.5	495.0	392.0	300	236	278.5	2xM63x1.5	542
LG250ZM	1 086.5	1 312.0	495.0	392.0	300	236	278.5	2xM63x1.5	645
K4-LGI280S	1 296.0	1 523.0	555.0	432.0	300	236	490.0	2xM63x1.5	774
K4-LGI280M	1 296.0	1 523.0	555.0	432.0	300	236	490.0	2xM63x1.5	785
K4-LGI280ZM	1 406.0	1 633.0	555.0	432.0	300	236	490.0	2xM63x1.5	874

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox EF148 (1-stage), flange-mounted design (A-type)

EF011



Flange	a1	b1	to2	c1	e1	f1	s1
A350	350	250	h6	18	300	5	17.5
A450	450	350	h6	22	400	5	17.5
A550	550	450	h6	25	500	5	17.5

EF148									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	EF148
LA132S/M	636.5	738.5	259.0	195.0	140	140	137.0	2xM32x1.5	180
LA132ZM	682.5	784.5	259.0	195.0	140	140	245.0	2xM32x1.5	202
LA160M/L	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	214
LA160ZL	784.5	903	313.5	227.0	165	165	313.0	2xM40x1.5	253
LG180M/L	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	310
LG180ZM/ZL	847.0	969.0	348.0	322.5	260	192	177.0	2xM40x1.5	340
LG200L	852.0	978.0	385.0	301.0	260	192	207.0	2xM50x1.5	390
LG225S	923.0	1 162.0	442.0	325.0	260	192	243.0	2xM50x1.5	464
LG225M	923.0	1 162.0	442.0	325.0	260	192	243.0	2xM50x1.5	452
LG225ZM	983.0	1 222.0	442.0	325.0	260	192	243.0	2xM50x1.5	510
LG250M	1 016.5	1 241.5	495.0	392.0	300	236	278.5	2xM63x1.5	554
LG250ZM	1 086.5	1 312.0	495.0	392.0	300	236	278.5	2xM63x1.5	657
K4-LGI280S	1 296.0	1 523.0	555.0	432.0	300	236	490.0	2xM63x1.5	786
K4-LGI280M	1 296.0	1 523.0	555.0	432.0	300	236	490.0	2xM63x1.5	797
K4-LGI280ZM	1 406.0	1 633.0	555.0	432.0	300	236	490.0	2xM63x1.5	886

④ DIN 332

⑤ Feather key / keyway DIN 6885

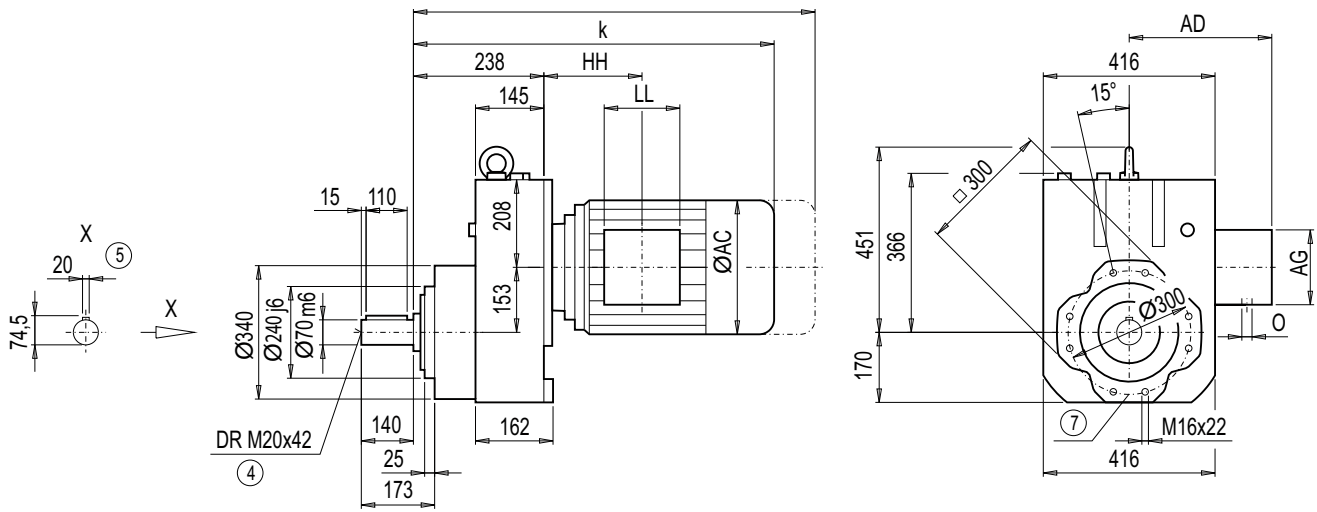
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox EZ148 (1-stage), housing-flange-mounted design (C-type)

EZ011



EZ148									Weight
Motor	k	kB	AC	AD	AG	LL	HH	O	EZ148
LA132S/M	636.5	738.5	259.0	195.0	140	140	137.0	2xM32x1.5	154
LA132ZM	682.5	784.5	259.0	195.0	140	140	245.0	2xM32x1.5	175
LA160M/L	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	188
LA160ZL	784.5	903	313.5	227.0	165	165	313.0	2xM40x1.5	227
LG180M/L	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	283
LG180ZM/ZL	847.0	969.0	348.0	322.5	260	192	177.0	2xM40x1.5	313
LG200L	852.0	978.0	385.0	301.0	260	192	207.0	2xM50x1.5	363
LG225S	923.0	1 162.0	442.0	325.0	260	192	243.0	2xM50x1.5	437
LG225M	923.0	1 162.0	442.0	325.0	260	192	243.0	2xM50x1.5	425
LG225ZM	983.0	1 222.0	442.0	325.0	260	192	243.0	2xM50x1.5	483
LG250M	1 016.5	1 241.0	495.0	392.0	300	236	278.5	2xM63x1.5	527
LG250ZM	1 086.5	1 312.0	495.0	392.0	300	236	278.5	2xM63x1.5	630
K4-LGI280S	1 296.0	1 523.0	555.0	432.0	300	236	490.0	2xM63x1.5	759
K4-LGI280M	1 296.0	1 523.0	555.0	432.0	300	236	490.0	2xM63x1.5	770
K4-LGI280ZM	1 406.0	1 633.0	555.0	432.0	300	236	490.0	2xM63x1.5	859

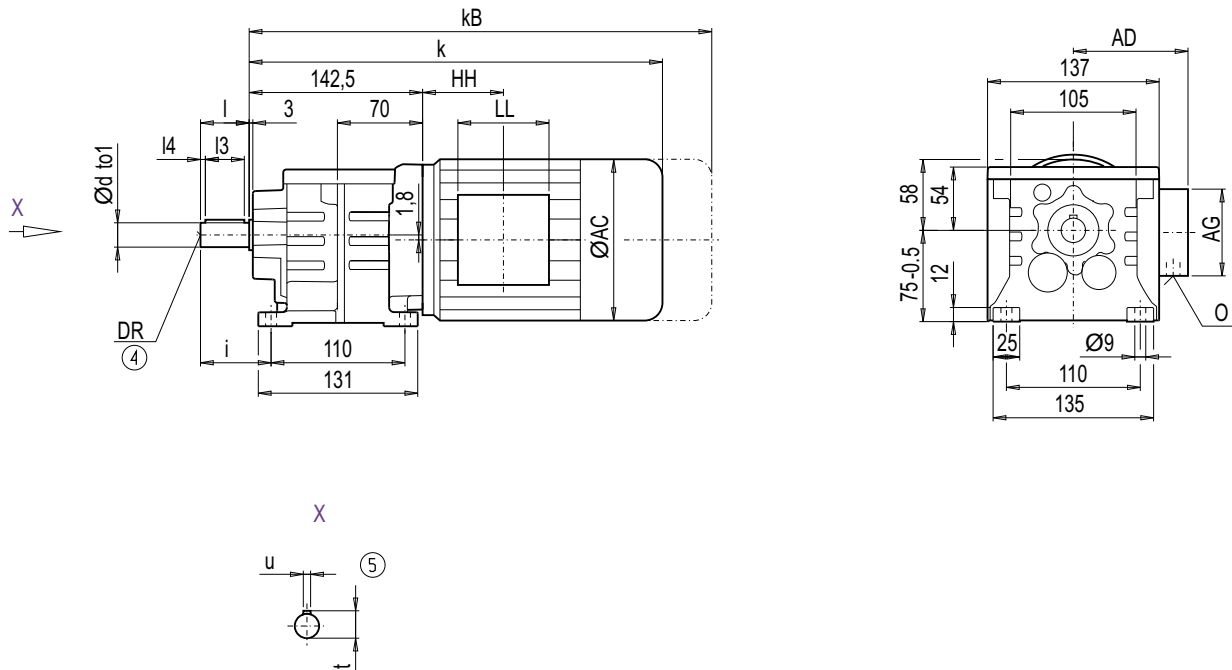
④ DIN 332

⑤ Feather key / keyway DIN 6885

⑦ For note, see page 2/192

Gearbox D/Z18 (3- / 2-stage), foot-mounted design

DZ011



d	to1	l	l4	l3	t	u	i	DR
16	k6	28	3	22	18	5	46	M6x16
20 ^{*)}	k6	40	4	32	22.5	6	58	M6x16

*) Preferred series

Motor	Z18		D18		AC	AD	AG	LL	HH	O	Weight	
	k	kB	k	kB							Z18	D18
LA71	327	382	327	382	139	146	90	90	40.5	M20x1.5/M25x1.5	8	8
LA71Z	346	401	346	401	139	146	90	90	40.5	M20x1.5/M25x1.5	8	8

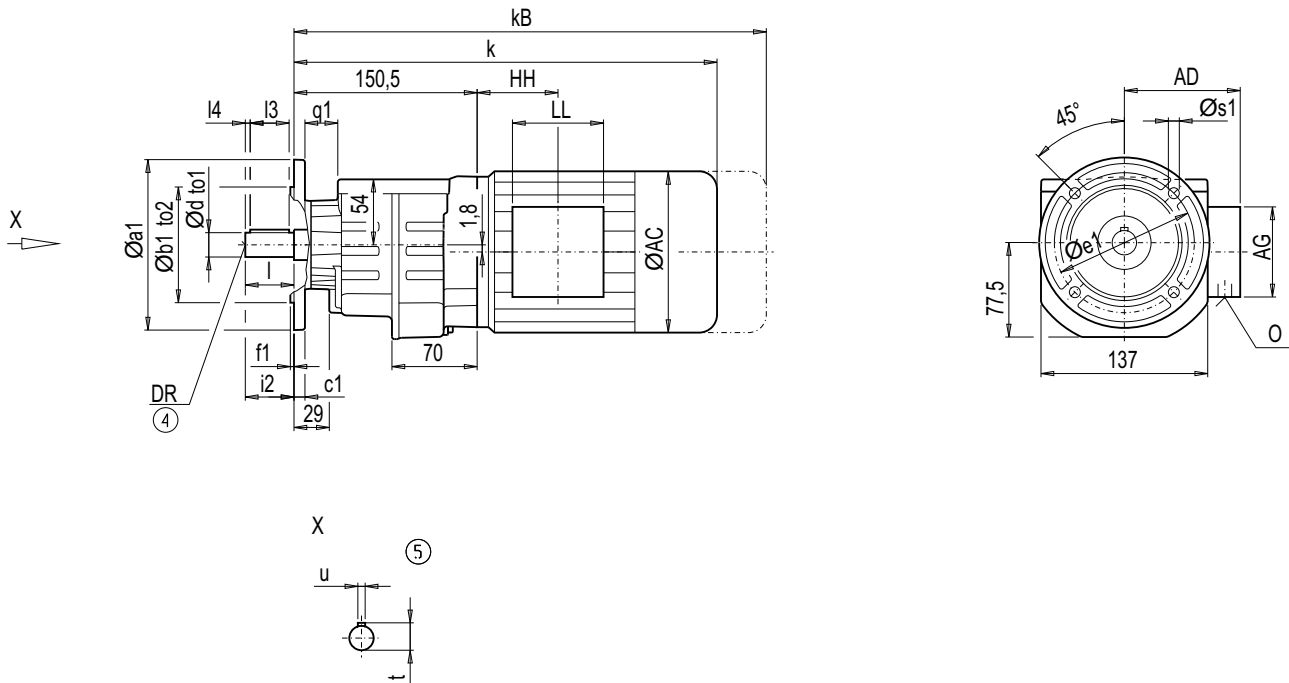
MOTOX Geared Motors

Helical geared motors

Dimensions

Gearbox DF/ZF18 (3- / 2-stage), flange-mounted design (A-type)

DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	l4	l3	t	u	i2	DR
A120	120	80	j6	8	100	3.0	28	6.6	16	k6	28	3	22	18	5	28	M6x16
									20 ^{*)}	k6	40	4	32	22.5	6	40	M6x16
A140	140	95	j6	9	115	3.0	27	9.0	16	k6	28	3	22	18	5	28	M6x16
									20 ^{*)}	k6	40	4	32	22.5	6	40	M6x16
A160	160	110	j6	9	130	3.5	27	9.0	16	k6	28	3	22	18	5	28	M6x16
									20 ^{*)}	k6	40	4	32	22.5	6	40	M6x16

*) Preferred series

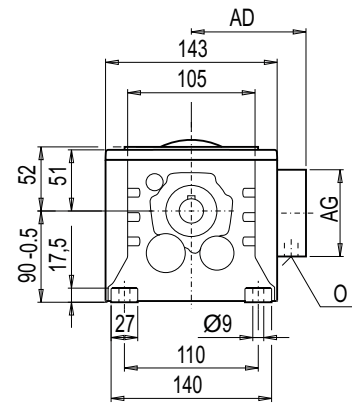
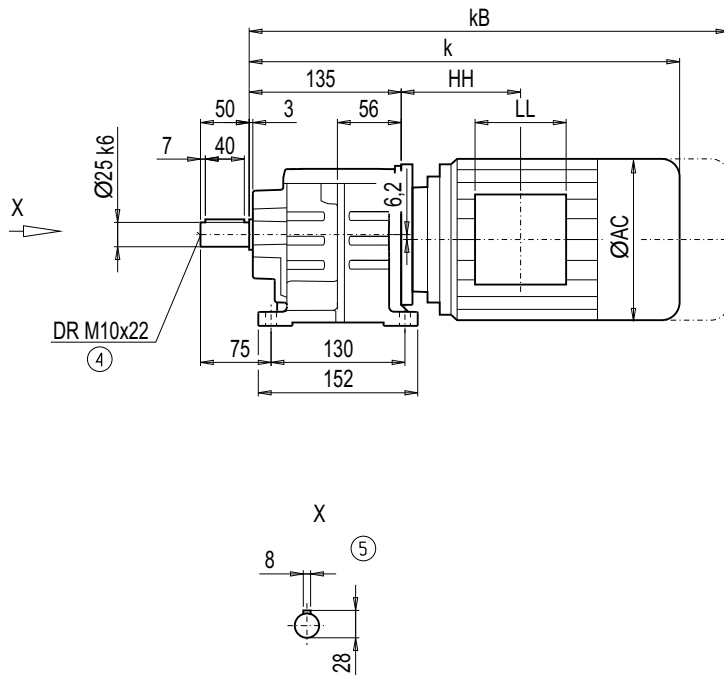
Motor	ZF18		DF18								Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	O	ZF18	DF18
LA71	335	390	335	390	139	146	90	90	40.5	M20x1.5/M25x1.5	8	9
LA71Z	354	409	354	409	139	146	90	90	40.5	M20x1.5/M25x1.5	8	9

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox D/Z28 (3- / 2-stage), foot-mounted design

DZ011



2

Motor	Z28		D28								Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	O	Z28	D28
LA71	337.5	392.5	337.5	392.5	139	146	90	90	58.5	M20x1.5/M25x1.5	9	9
LA71Z	356.5	411.5	356.5	411.5	139	146	90	90	58.5	M20x1.5/M25x1.5	9	9
LA80	439.5	503.0	439.5	503.0	156.5	155	90	90	123.0	M20x1.5/M25x1.5	14	14
LA80Z	462.0	525.5	462.0	525.5	156.5	155	90	90	196.0	M20x1.5/M25x1.5	18	18
LA90S/L	434.5	505.5	434.5	505.5	174	163	90	90	87.0	M20x1.5/M25x1.5	18	19
LA90ZL	479.5	550.5	479.5	550.5	174	163	90	90	211.0	M20x1.5/M25x1.5	27	28
LA100L	516.5	597.5	—	—	195	168	120	120	163.5	2xM32x1.5	28	—
LA100ZL	586.5	667.5	—	—	195	168	120	120	295.5	2xM32x1.5	38	—

④ DIN 332

⑤ Feather key / keyway DIN 6885

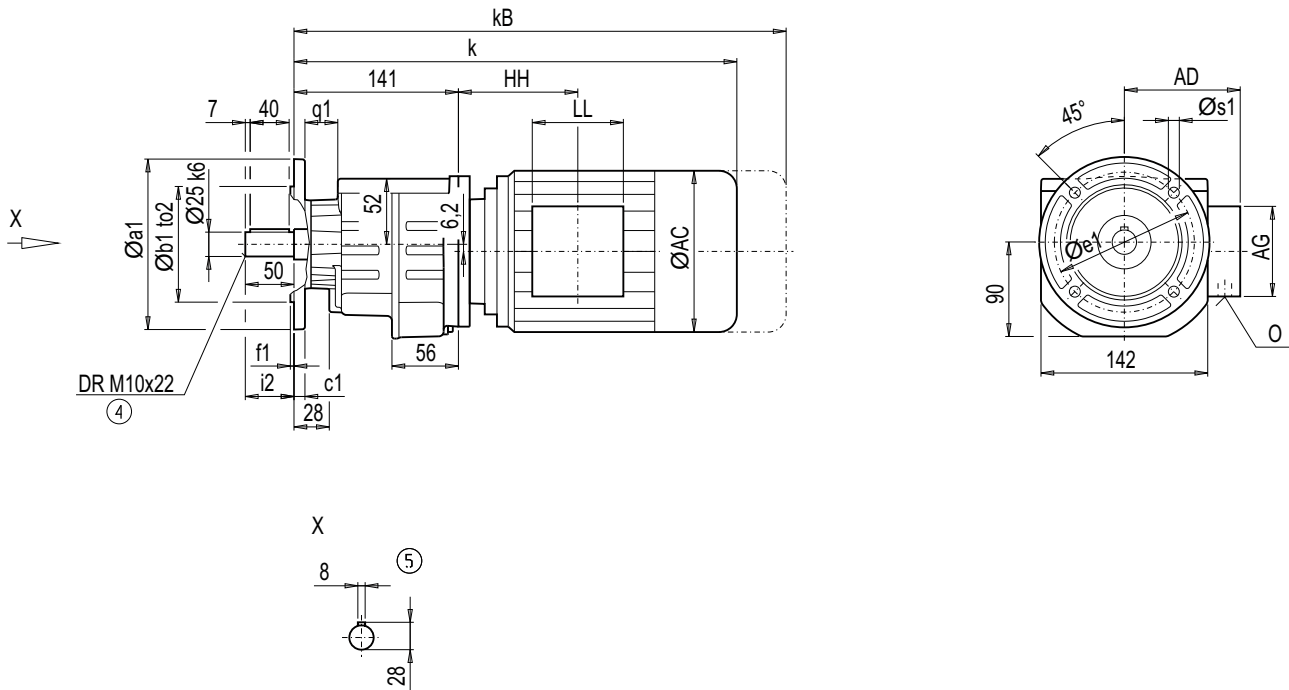
MOTOX Geared Motors

Helical geared motors

Dimensions

Gearbox DF/ZF28 (3- / 2-stage), flange-mounted design (A-type)

DZF011



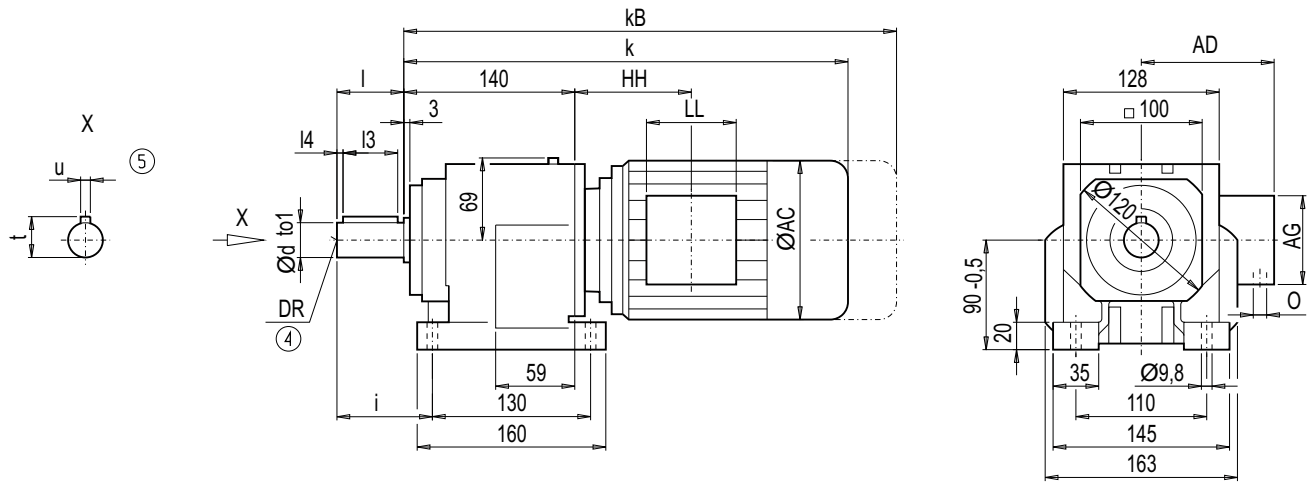
Flange	a1	b1	to2	c1	e1	f1	q1	s1	i2
A120	120	80	j6	8	100	3.0	28	6.6	50
A140	140	95	j6	9	115	3.0	27	9.0	50
A160	160	110	j6	9	130	3.5	27	9.0	50

Motor	ZF28		DF28								Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	O	ZF28	DF28
LA71	343.5	398.5	343.5	398.5	139	146	90	90	58.5	M20x1.5/M25x1.5	9	9
LA71Z	362.5	417.5	362.5	417.5	139	146	90	90	58.5	M20x1.5/M25x1.5	9	9
LA80	445.5	509.0	445.5	509.0	156.5	155	90	90	123.0	M20x1.5/M25x1.5	14	14
LA80Z	468.0	530.5	468.0	530.5	156.5	155	90	90	196.0	M20x1.5/M25x1.5	18	18
LA90S/L	440.5	511.5	440.5	511.5	174	163	90	90	87.0	M20x1.5/M25x1.5	18	19
LA90ZL	485.5	556.5	485.5	556.5	174	163	90	90	211.0	M20x1.5/M25x1.5	27	28
LA100L	522.5	603.5	–	–	195	168	120	120	163.5	2xM32x1.5	28	–
LA100ZL	592.5	673.5	–	–	195	168	120	120	295.5	2xM32x1.5	38	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox D/Z38 (3- / 2-stage), foot-mounted design

DZ011


d	to1	I	I4	I3	t	u	i	DR
25 *)	k6	50	7	40	28	8	75	M10x22
30	k6	60	7	50	33	8	85	M10x22

*) Preferred series

Motor	Z38		D38		AC	AD	AG	LL	Z38	D38	O	Weight	
	k	kB	k	kB					HH	HH		Z38	D38
LA71	398.5	453.5	413.5	468.5	139.0	146	90	90	114.5	129.5	M20x1.5/M25x1.5	16	17
LA71Z	417.5	472.5	432.5	487.5	139.0	146	90	90	114.5	129.5	M20x1.5/M25x1.5	16	17
LA80	435.5	499.0	450.5	514.0	156.5	155	90	90	114.0	129.0	M20x1.5/M25x1.5	21	22
LA80Z	458.0	521.5	473.0	536.5	156.5	155	90	90	187.0	202.0	M20x1.5/M25x1.5	25	26
LA90S/L	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5	26	27
LA90ZL	511.5	582.5	526.5	597.5	174.0	163	90	90	238.0	253.0	M20x1.5/M25x1.5	32	33
LA100L	512.5	593.5	—	—	195.0	168	120	120	154.5	—	2xM32x1.5	35	—
LA100ZL	582.5	663.5	—	—	195.0	168	120	120	286.5	—	2xM32x1.5	45	—
LA112M	542.0	623.0	—	—	219.0	181	120	120	160.0	—	2xM32x1.5	45	—
LA112ZM	570.0	651.0	—	—	219.0	181	120	120	264.0	—	2xM32x1.5	52	—

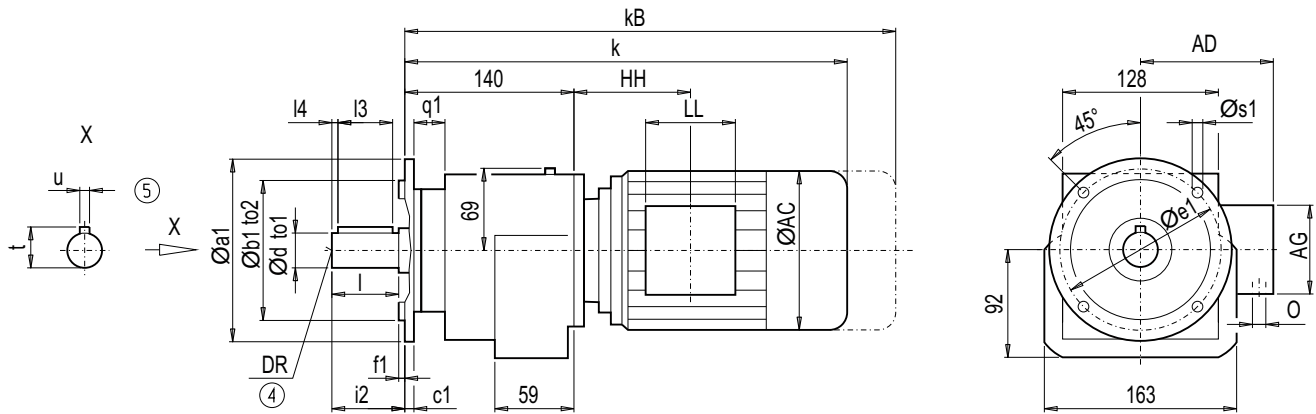
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox DF/ZF38 (3- / 2-stage), flange-mounted design (A-type)

DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	l4	l3	t	u	i2	DR
A120	120	80	j6	8	100	3.0	23	6.8	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
									30	k6	60	7	50	33	8	60	M10x22
A140	140	95	j6	7	115	3.0	26	9.0	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
									30	k6	60	7	50	33	8	60	M10x22
A160	160	110	j6	10	130	3.5	26	9.0	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
									30	k6	60	7	50	33	8	60	M10x22
A200 ¹⁾	200	130	j6	12	165	3.5	24	11.0	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
									30	k6	60	7	50	33	8	60	M10x22
A250	250	180	j6	15	215	4.0	21	13.5	25 ^{*)}	k6	50	7	40	28	8	50	M10x22
									30	k6	60	7	50	33	8	60	M10x22

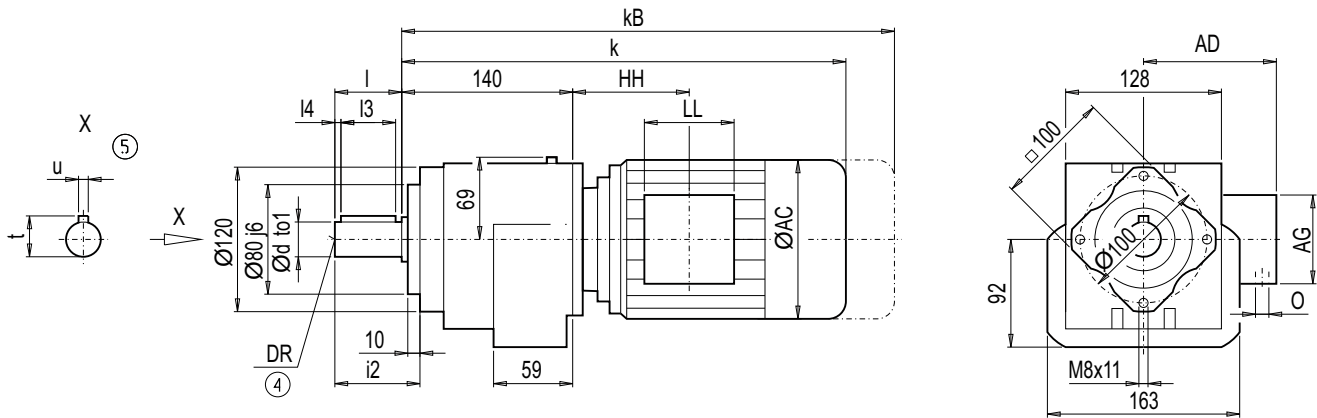
1) The A200 flange is connected to the machine using stud bolts.

*) Preferred series

Motor	ZF38		DF38								ZF38	DF38	Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	HH	O		ZF38	DF38
LA71	398.5	453.5	413.5	468.5	139.0	146	90	90	114.5	129.5	M20x1.5/M25x1.5		17	18
LA71Z	417.5	472.5	432.5	487.5	139.0	146	90	90	114.5	129.5	M20x1.5/M25x1.5		17	18
LA80	435.5	499.0	450.5	514.0	156.5	155	90	90	114.0	129.0	M20x1.5/M25x1.5		22	22
LA80Z	458.0	521.5	473.0	536.5	156.5	155	90	90	187.0	202.0	M20x1.5/M25x1.5		26	26
LA90S/L	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5		26	27
LA90ZL	511.5	582.5	526.5	597.5	174.0	163	90	90	238.0	253.0	M20x1.5/M25x1.5		32	33
LA100L	512.5	593.5	—	—	195.0	168	120	120	154.5	—	2xM32x1.5		35	—
LA100ZL	582.5	663.5	—	—	195.0	168	120	120	286.5	—	2xM32x1.5		45	—
LA112M	542.0	623.0	—	—	219.0	181	120	120	160.0	—	2xM32x1.5		46	—
LA112ZM	570.0	651.0	—	—	219.0	181	120	120	264.0	—	2xM32x1.5		53	—

Gearbox DZ/ZZ38 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



d	to1	l	l4	l3	t	u	i2	DR
25 *)	k6	50	7	40	28	8	63	M10x22
30	k6	60	7	50	33	8	73	M10x22

*) Preferred series

Motor	ZZ38		DZ38						ZZ38	DZ38		Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	HH	O	ZZ38	DZ38
LA71	398.5	453.5	413.5	468.5	139.0	146	90	90	114.5	129.5	M20x1.5/M25x1.5	15	16
LA71Z	417.5	472.5	432.5	487.5	139.0	146	90	90	114.5	129.5	M20x1.5/M25x1.5	15	16
LA80	435.5	499.0	450.5	514.0	156.5	155	90	90	114.0	129.0	M20x1.5/M25x1.5	20	21
LA80Z	458.0	521.5	473.0	536.5	156.5	155	90	90	187.0	202.0	M20x1.5/M25x1.5	24	25
LA90S/L	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5	24	25
LA90ZL	511.5	582.5	526.5	597.5	174.0	163	90	90	238.0	253.0	M20x1.5/M25x1.5	30	31
LA100L	512.5	593.5	–	–	195.0	168	120	120	154.5	–	2xM32x1.5	33	–
LA100ZL	582.5	663.5	–	–	195.0	168	120	120	286.5	–	2xM32x1.5	43	–
LA112M	542.0	623.0	–	–	219.0	181	120	120	160.0	–	2xM32x1.5	44	–
LA112ZM	570.0	651.0	–	–	219.0	181	120	120	264.0	–	2xM32x1.5	51	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

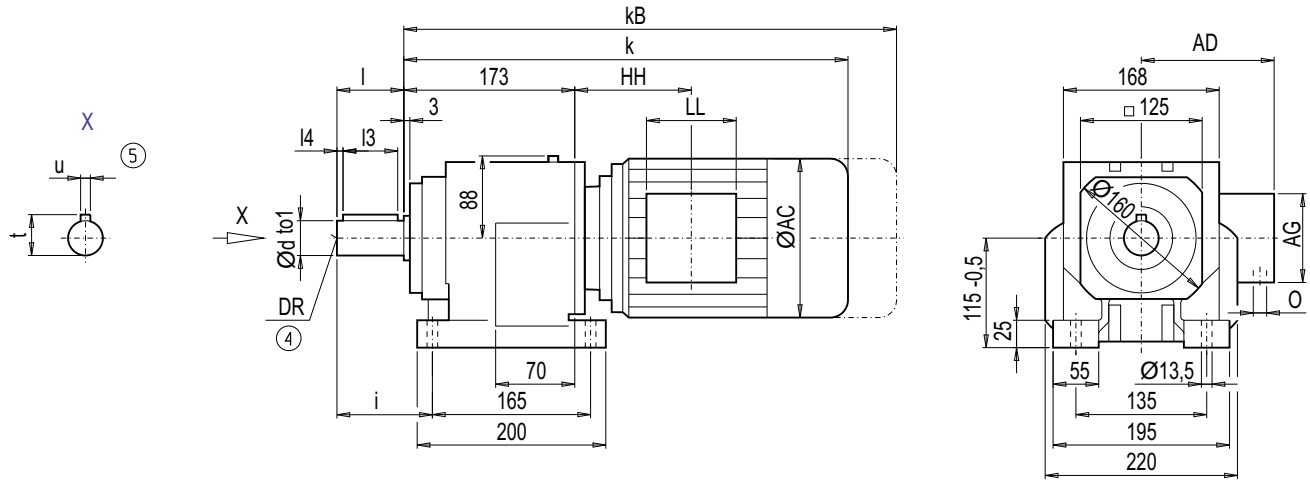
MOTOX Geared Motors

Helical geared motors

Dimensions

Gearbox D/Z48 (3- / 2-stage), foot-mounted design

DZ011



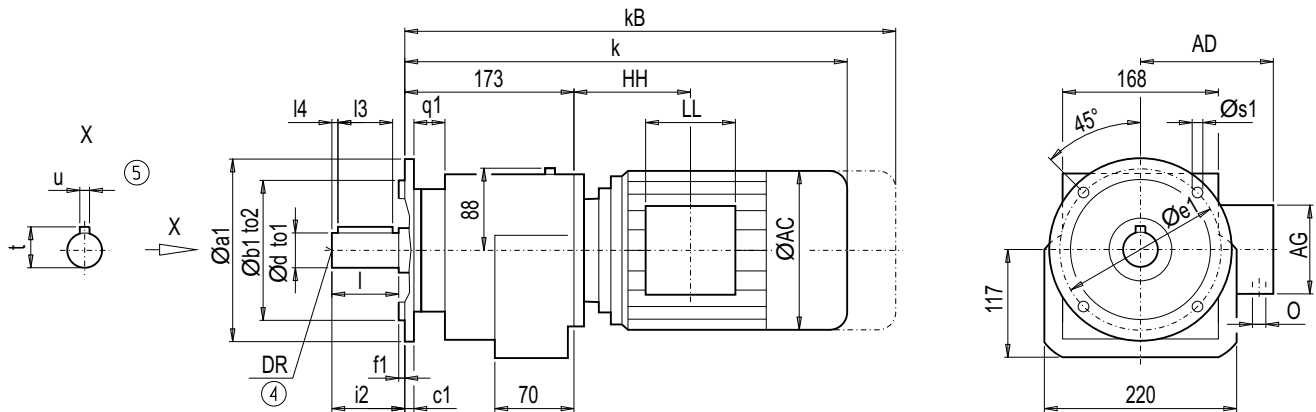
d	to1	I	I4	I3	t	u	i	DR
30 ^{*)}	k6	60	7	50	33	8	90	M10x22
35	k6	70	63	4	38	10	100	M10x22
40	k6	80	5	70	43	12	110	M16x36

^{*)} Preferred series

Motor	Z48		D48		AC	AD	AG	LL	Z48	D48	O	Weight	
	k	kB	k	kB					HH	HH		Z48	D48
LA71	426.0	481.0	443.0	498.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	26	27
LA71Z	445.0	500.0	462.0	517.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	26	27
LA80	463.0	526.5	480.0	543.5	156.5	155	90	90	108.5	125.5	M20x1.5/M25x1.5	31	32
LA80Z	485.5	549.0	502.5	566.0	156.5	155	90	90	181.5	198.5	M20x1.5/M25x1.5	35	36
LA90S/L	494.0	565.0	511.0	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	35	36
LA90ZL	539.0	610.0	556.0	627.0	174.0	163	90	90	232.5	249.5	M20x1.5/M25x1.5	41	41
LA100L	540.0	621.0	557.0	638.0	195.0	168	120	120	149.0	166.0	2xM32x1.5	44	45
LA100ZL	610.0	691.0	627.0	708.0	195.0	168	120	120	281.0	298.0	2xM32x1.5	54	55
LA112M	569.0	650.0	—	—	219.0	181	120	120	154.0	—	2xM32x1.5	56	—
LA112ZM	597.0	678.0	—	—	219.0	181	120	120	258.0	—	2xM32x1.5	63	—
LA132S/M	631.0	733.0	—	—	259.0	195	140	140	196.5	—	2xM32x1.5	66	—
LA132ZM	677.0	779.0	—	—	259.0	195	140	140	304.5	—	2xM32x1.5	87	—

Gearbox DF/ZF48 (3- / 2-stage), flange-mounted design (A-type)

DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	l4	l3	t	u	i2	DR
A200	200	130	j6	12	165	3.5	29	11.0	30 ^{*)}	k6	60	7	50	33	8	60	M10x22
									35	k6	70	4	63	38	10	70	M10x22
									40	k6	80	5	70	43	12	80	M16x36
A250 ¹⁾	250	180	j6	15	215	4.0	26	13.5	30 ^{*)}	k6	60	7	50	33	8	60	M10x22
									35	k6	70	4	63	38	10	70	M10x22
									40	k6	80	5	70	43	12	80	M16x36
A300	300	230	j6	15	265	4.0	26	13.5	30 ^{*)}	k6	60	7	50	33	8	60	M10x22
									35	k6	70	4	63	38	10	70	M10x22
									40	k6	80	5	70	43	12	80	M16x36

1) The A250 flange is connected to the machine using stud bolts.

*) Preferred series

Motor	ZF48		DF48		AC	AD	AG	LL	ZF48	DF48	O	Weight	
	k	kB	k	kB					HH	HH		ZF48	DF48
LA71	426.0	481.0	443.0	498.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	27	28
LA71Z	445.0	500.0	462.0	517.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	27	28
LA80	463.0	526.5	480.0	543.5	156.5	155	90	90	108.5	125.5	M20x1.5/M25x1.5	32	33
LA80Z	485.5	549.0	502.5	566.0	156.5	155	90	90	181.5	198.5	M20x1.5/M25x1.5	36	37
LA90S/L	494.0	565.0	511.0	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	37	38
LA90ZL	539.0	610.0	556.0	627.0	174.0	163	90	90	232.5	249.5	M20x1.5/M25x1.5	43	44
LA100L	540.0	621.0	557.0	638.0	195.0	168	120	120	149.0	166.0	2xM32x1.5	46	47
LA100ZL	610.0	691.0	627.0	708.0	195.0	168	120	120	281.0	298.0	2xM32x1.5	56	57
LA112M	569.0	650.0	–	–	219.0	181	120	120	154.0	–	2xM32x1.5	57	–
LA112ZM	597.0	678.0	–	–	219.0	181	120	120	258.0	–	2xM32x1.5	64	–
LA132S/M	631.0	733.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	67	–
LA132ZM	677.0	779.0	–	–	259.0	195	140	140	304.5	–	2xM32x1.5	88	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

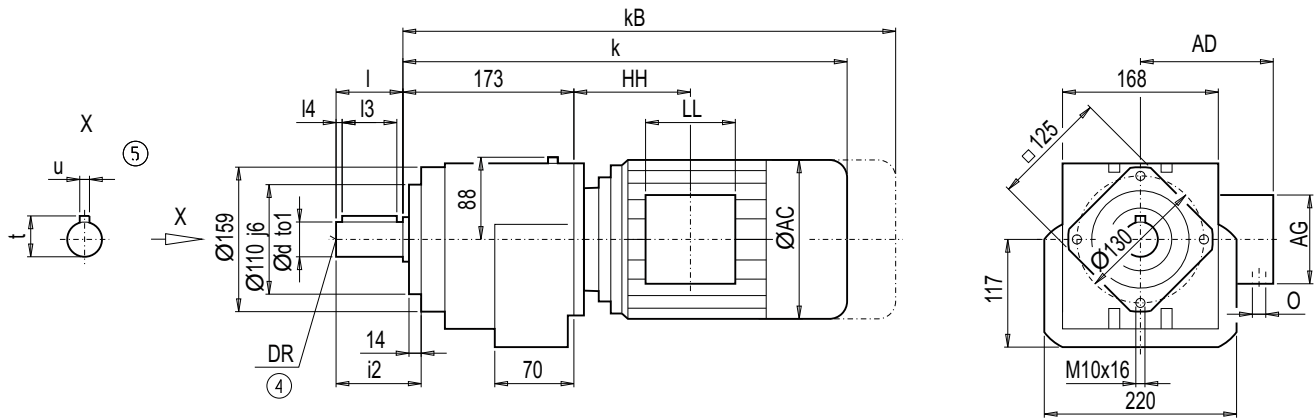
MOTOX Geared Motors

Helical geared motors

Dimensions

Gearbox DZ/ZZ48 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



d	to1	l	l4	l3	t	u	i2	DR
30 ^{*)}	k6	60	7	50	33	8	77	M10x22
35	k6	70	4	63	38	10	87	M10x22
40	k6	80	5	70	43	12	97	M16x36

^{*)} Preferred series

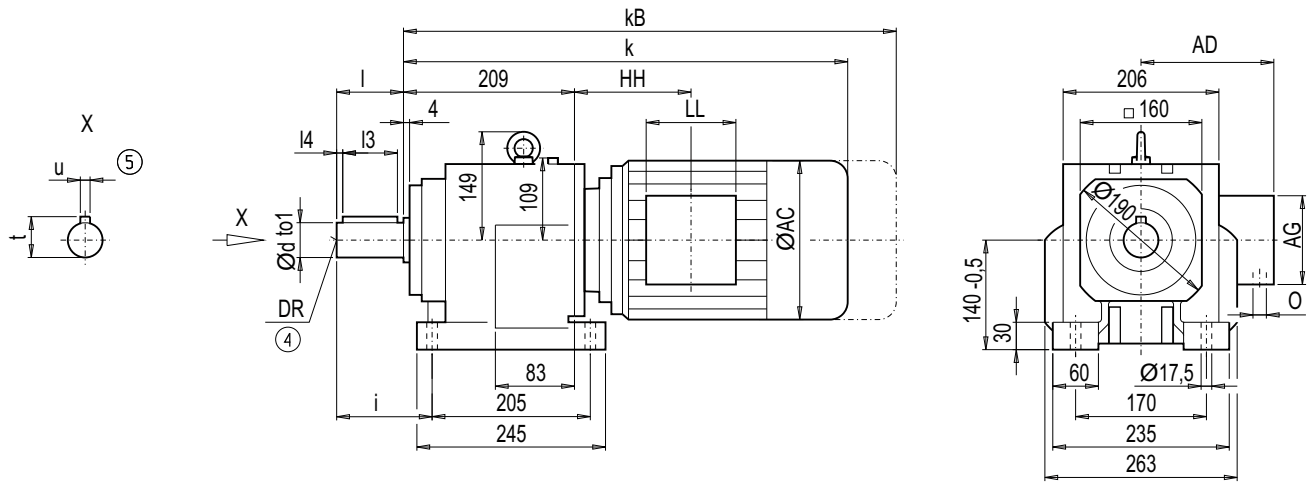
Motor	ZZ48		DZ48		AC	AD	AG	LL	ZZ48	DZ48		Weight	
	k	kB	k	kB					HH	HH	O	ZZ48	DZ48
LA71	426.0	481.0	443.0	498.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	24	25
LA71Z	445.0	500.0	462.0	517.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	24	25
LA80	463.0	526.5	480.0	543.5	156.5	155	90	90	108.5	125.5	M20x1.5/M25x1.5	29	30
LA80Z	485.5	549.0	502.5	566.0	156.5	155	90	90	181.5	198.5	M20x1.5/M25x1.5	33	34
LA90S/L	494.0	565.0	511.0	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	33	34
LA90ZL	539.0	610.0	556.0	627.0	174.0	163	90	90	232.5	249.5	M20x1.5/M25x1.5	39	40
LA100L	540.0	621.0	557.0	638.0	195.0	168	120	120	149.0	166.0	2xM32x1.5	42	43
LA100ZL	610.0	691.0	627.0	708.0	195.0	168	120	120	281.0	298.0	2xM32x1.5	52	53
LA112M	569.0	650.0	—	—	219.0	181	120	120	154.0	—	2xM32x1.5	54	—
LA112ZM	597.0	678.0	—	—	219.0	181	120	120	258.0	—	2xM32x1.5	61	—
LA132S/M	631.0	733.0	—	—	259.0	195	140	140	196.5	—	2xM32x1.5	64	—
LA132ZM	677.0	779.0	—	—	259.0	195	140	140	304.5	—	2xM32x1.5	85	—

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox D/Z68 (3- / 2-stage), foot-mounted design

DZ011



d	to1	l	l4	l3	t	u	i	DR
35	k6	70	5	56	38.0	10	105	M12x28
40 ^{*)}	k6	80	5	70	43.0	12	115	M16x36
50	k6	100	10	80	53.5	14	135	M16x36

*) Preferred series

Motor	Z68		D68						Z68	D68	Weight		
	k	kB	k	kB	AC	AD	AG	LL	HH	HH	O	Z68	D68
LA71	456.0	511.0	474.5	529.5	139.0	146	90	90	103.0	121.5	M20x1.5/M25x1.5	43	45
LA71Z	475.0	530.0	493.5	548.5	139.0	146	90	90	103.0	121.5	M20x1.5/M25x1.5	43	45
LA80	493.0	556.5	511.5	575.0	156.5	155	90	90	102.5	121.0	M20x1.5/M25x1.5	48	50
LA80Z	515.5	579.0	534.0	597.5	156.5	155	90	90	175.5	194.0	M20x1.5/M25x1.5	52	54
LA90S/L	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	52	55
LA90ZL	569.0	640.0	587.5	658.5	174.0	163	90	90	226.5	245.0	M20x1.5/M25x1.5	58	61
LA100L	570.0	651.0	588.5	669.5	195.0	168	120	120	143.0	161.5	2xM32x1.5	61	64
LA100ZL	640.0	721.0	658.5	739.5	195.0	168	120	120	275.0	293.5	2xM32x1.5	71	74
LA112M	597.0	678.0	—	—	219.0	181	120	120	146.0	—	2xM32x1.5	73	—
LA112ZM	625.0	706.0	—	—	219.0	181	120	120	250.0	—	2xM32x1.5	80	—
LA132S/M	657.0	759.0	—	—	259.0	195	140	140	186.5	—	2xM32x1.5	86	—
LA132ZM	703.0	805.0	—	—	259.0	195	140	140	294.5	—	2xM32x1.5	107	—
LA160M/L	759.5	878.0	—	—	313.5	227	165	165	212.0	—	2xM40x1.5	119	—
LA160ZL	807.5	926.0	—	—	313.5	227	165	165	365.0	—	2xM40x1.5	158	—

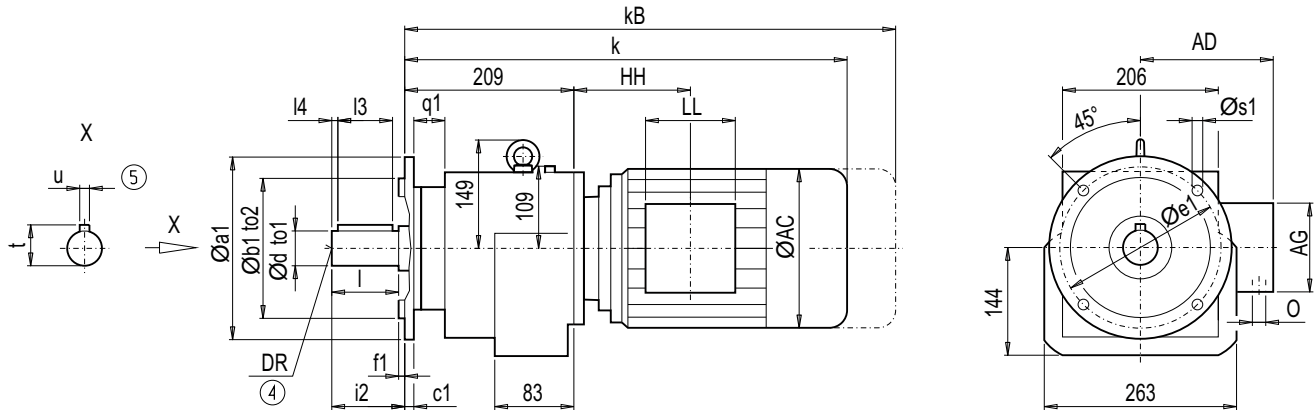
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox DF/ZF68 (3- / 2-stage), flange-mounted design (A-type)

DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	i4	i3	t	u	i2	DR
A250	250	180	j6	15	215	4	40	13.5	35	k6	70	5	56	38.0	10	70	M12x28
									40 ^{*)}	k6	80	5	70	43.0	12	80	M16x36
									50	k6	100	10	80	53.5	14	100	M16x36
A300	300	230	j6	16	265	4	39	13.5	35	k6	70	5	56	38.0	10	70	M12x28
									40 ^{*)}	k6	80	5	70	43.0	12	80	M16x36
									50	k6	100	10	80	53.5	14	100	M16x36
A350	350	250	j6	18	300	4	39	17.5	35	k6	70	5	56	38.0	10	70	M12x28
									40 ^{*)}	k6	80	5	70	43.0	12	80	M16x36
									50	k6	100	10	80	53.5	14	100	M16x36

^{*)} Preferred series

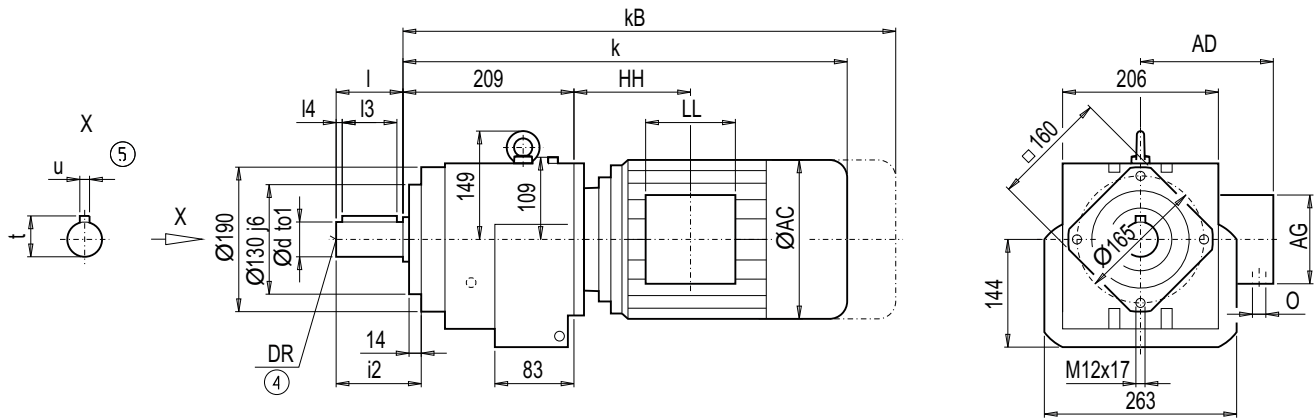
Motor	ZF68		DF68		AC		AD		AG		ZF68		DF68		Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	HH	O	HH	HH	O	ZF68	DF68
LA71	456.0	511.0	474.5	529.5	139.0	146	90	90	103.0	121.5	M20x1.5/M25x1.5	45	47			
LA71Z	475.0	530.0	493.5	548.5	139.0	146	90	90	103.0	121.5	M20x1.5/M25x1.5	45	47			
LA80	493.0	556.5	511.5	575.0	156.5	155	90	90	102.5	121.0	M20x1.5/M25x1.5	49	52			
LA80Z	515.5	579.0	534.0	597.5	156.5	155	90	90	175.5	194.0	M20x1.5/M25x1.5	53	56			
LA90S/L	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	54	56			
LA90ZL	569.0	640.0	587.5	658.5	174.0	163	90	90	226.5	245.0	M20x1.5/M25x1.5	60	62			
LA100L	570.0	651.0	588.5	669.5	195.0	168	120	120	143.0	161.5	2xM32x1.5	63	65			
LA100ZL	640.0	721.0	658.5	739.5	195.0	168	120	120	275.0	293.5	2xM32x1.5	73	75			
LA112M	597.0	678.0	—	—	219.0	181	120	120	146.0	—	2xM32x1.5	75	—			
LA112ZM	625.0	706.0	—	—	219.0	181	120	120	250.0	—	2xM32x1.5	82	—			
LA132S/M	657.0	759.0	—	—	259.0	195	140	140	186.5	—	2xM32x1.5	88	—			
LA132ZM	703.0	805.0	—	—	259.0	195	140	140	294.5	—	2xM32x1.5	109	—			
LA160M/L	759.5	878.0	—	—	313.5	227	165	165	212.0	—	2xM40x1.5	121	—			
LA160ZL	807.5	926.0	—	—	313.5	227	165	165	365.0	—	2xM40x1.5	160	—			

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Gearbox DZ/ZZ68 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



d	to1	l	l4	l3	t	u	i2	DR
35	k6	70	5	56	38.0	10	88	M12x28
40 ^{a)}	k6	80	5	70	43.0	12	98	M16x36
50	k6	100	10	80	53.5	14	118	M16x36

*) Preferred series

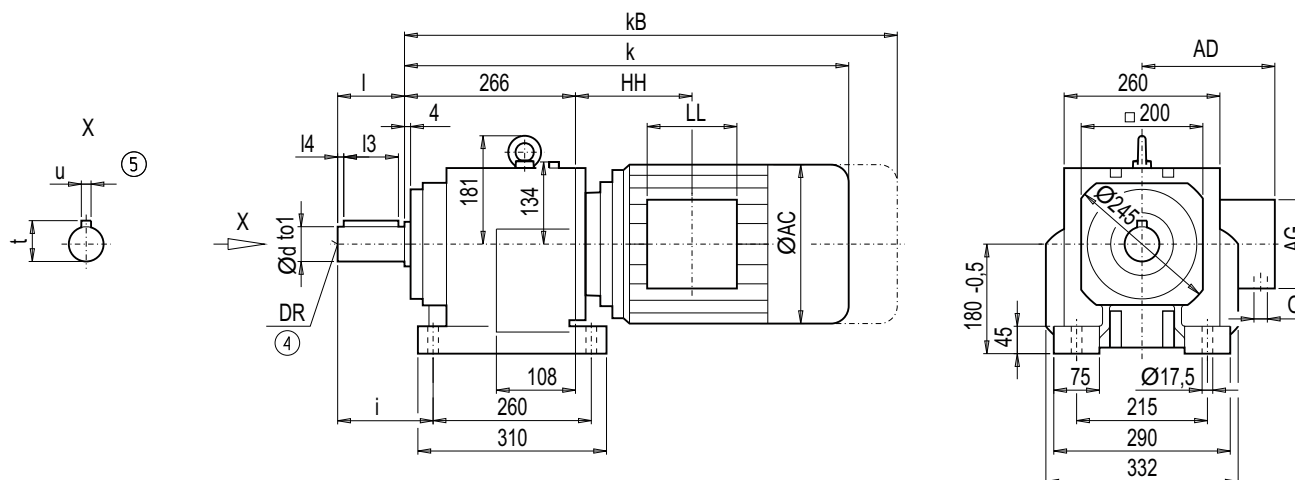
Motor	ZZ68		DZ68						ZZ68	DZ68		Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	HH	O	ZZ68	DZ68
LA71	456.0	511.0	474.5	529.5	139.0	146	90	90	103.0	121.5	M20x1.5/M25x1.5	39	41
LA71Z	475.0	530.0	493.5	548.5	139.0	146	90	90	103.0	121.5	M20x1.5/M25x1.5	39	41
LA80	493.0	556.5	511.5	575.0	156.5	155	90	90	102.5	121.0	M20x1.5/M25x1.5	44	46
LA80Z	515.5	579.0	534.0	597.5	156.5	155	90	90	175.5	194.0	M20x1.5/M25x1.5	48	50
LA90S/L	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	49	51
LA90ZL	569.0	640.0	587.5	658.5	174.0	163	90	90	226.5	245.0	M20x1.5/M25x1.5	55	57
LA100L	570.0	651.0	588.5	669.5	195.0	168	120	120	143.0	161.5	2xM32x1.5	58	60
LA100ZL	640.0	721.0	658.5	739.5	195.0	168	120	120	275.0	293.5	2xM32x1.5	68	70
LA112M	597.0	678.0	–	–	219.0	181	120	120	146.0	–	2xM32x1.5	69	–
LA112ZM	625.0	706.0	–	–	219.0	181	120	120	250.0	–	2xM32x1.5	76	–
LA132S/M	657.0	759.0											

MOTOX Geared Motors

Dimensions

Gearbox D/Z88 (3- / 2-stage), foot-mounted design

DZ011



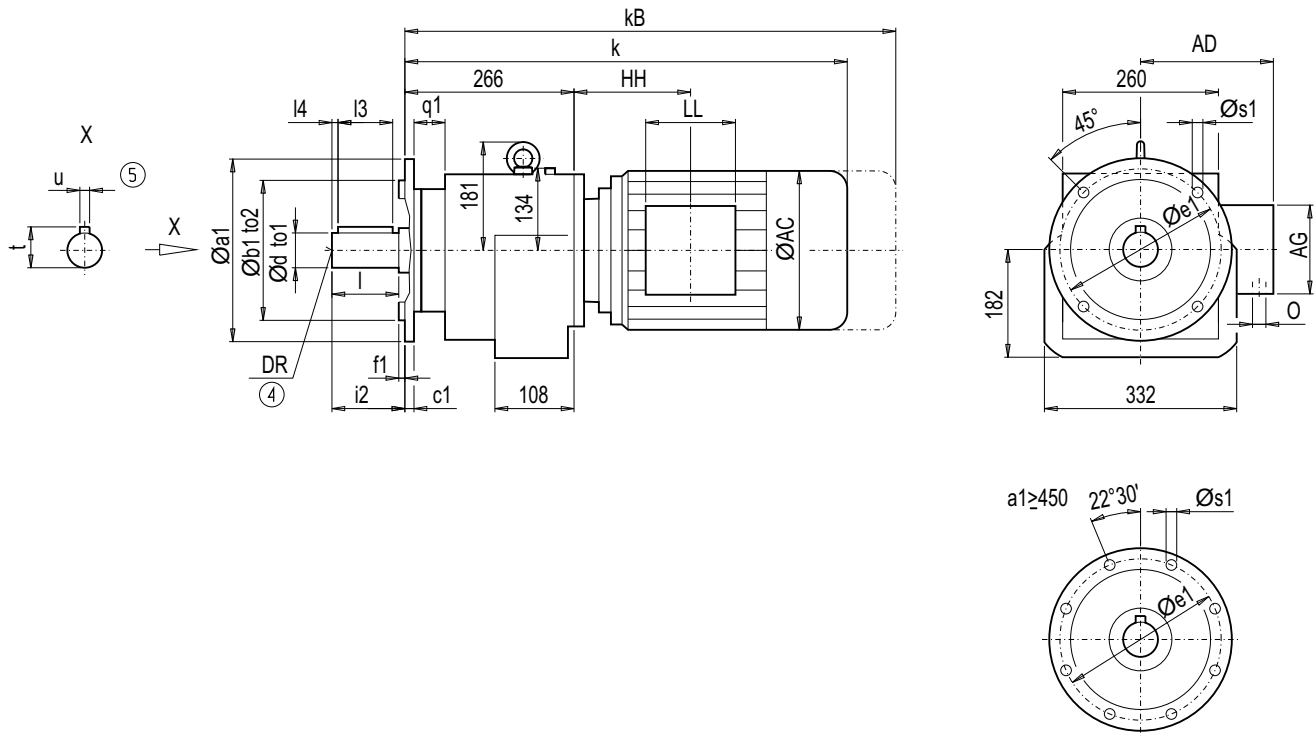
d	to1	l	l4	l3	t	u	i	DR
50 ^{a)}	k6	100	10	80	53.5	14	140	M16x36
60	m6	120	10	100	64.0	18	160	M20x42

*¹) Preferred series

Motor	Z88		D88						Z88		D88		Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	HH	O	Z88	D88	
LA71	–	–	523.0	578.0	139.0	146.0	90	90	–	113.0	M20x1.5/M25x1.5	–	76	
LA71Z	–	–	542.0	597.0	139.0	146.0	90	90	–	113.0	M20x1.5/M25x1.5	–	76	
LA80	–	–	560.0	623.5	156.5	155.0	90	90	–	112.5	M20x1.5/M25x1.5	–	81	
LA80Z	–	–	582.5	646.0	156.5	155.0	90	90	–	185.5	M20x1.5/M25x1.5	–	85	
LA90S/L	566.0	637.0	591.0	662.0	174.0	163.0	90	90	87.5	112.5	M20x1.5/M25x1.5	85	86	
LA90ZL	611.0	682.0	636.0	707.0	174.0	163.0	90	90	211.5	236.5	M20x1.5/M25x1.5	91	92	
LA100L	609.5	690.5	637.0	718.0	195.0	168.0	120	120	125.5	153.0	2xM32x1.5	93	95	
LA100ZL	679.5	760.5	707.0	788.0	195.0	168.0	120	120	257.5	285.0	2xM32x1.5	103	105	
LA112M	635.5	716.5	664.5	745.5	219.0	181.0	120	120	127.5	156.5	2xM32x1.5	106	107	
LA112														

Gearbox DF/ZF88 (3- / 2-stage), flange-mounted design (A-type)

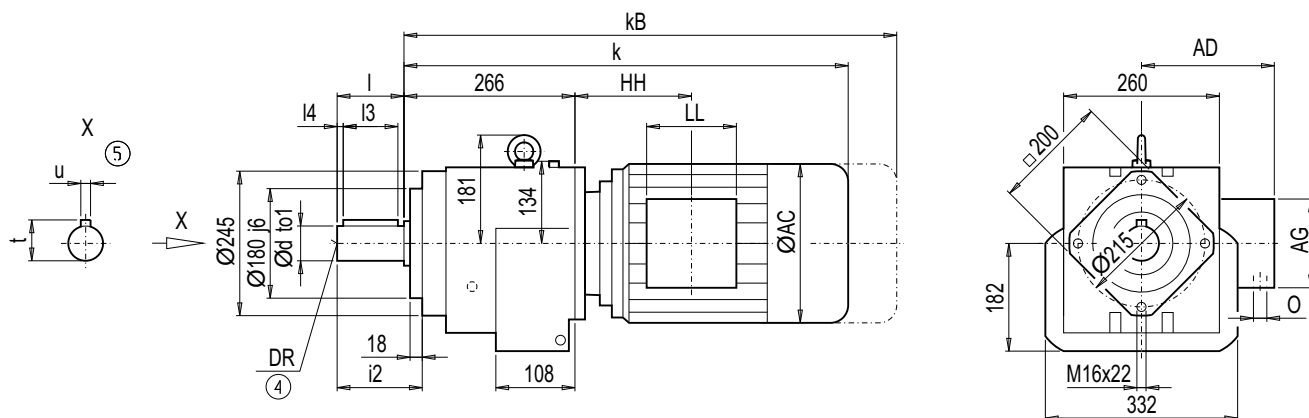
DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	l4	l3	t	u	i2	DR
A300	300	230	j6	16	265	4	54	13.5	50 ^{*)}	k6	100	10	80	53.5	14	100	M16x36
									60	m6	120	10	100	64.0	18	120	M20x42
A350	350	250	j6	18	300	5	52	17.5	50 ^{*)}	k6	100	10	80	53.5	14	100	M16x36
									60	m6	120	10	100	64.0	18	120	M20x42
A450	450	350	j6	18	400	5	52	17.5	50 ^{*)}	k6	100	10	80	53.5	14	100	M16x36
									60	m6	120	10	100	64.0	18	120	M20x42

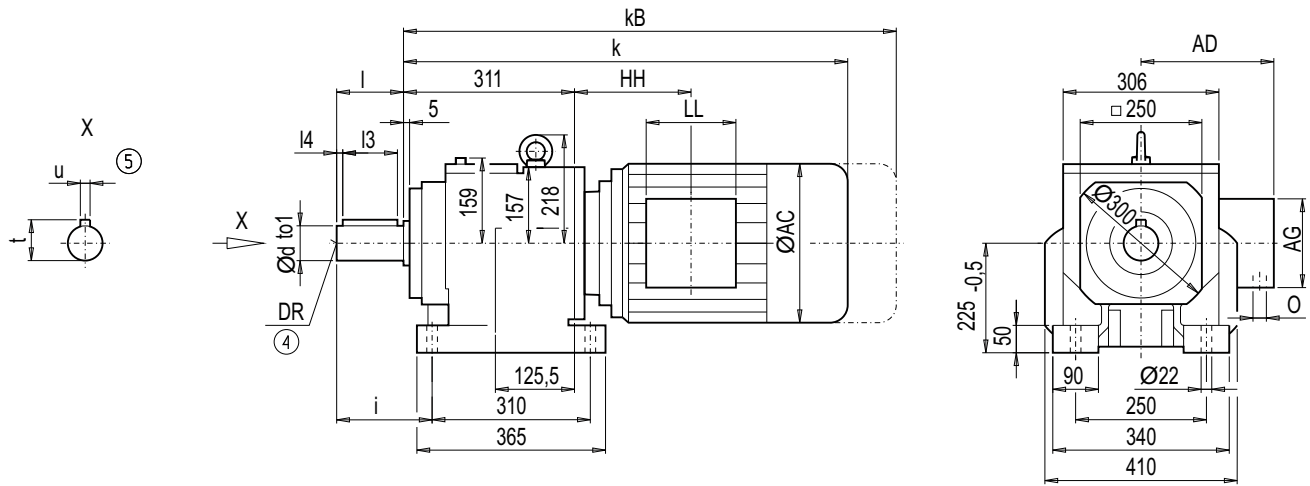
^{*)} Preferred series

Motor	ZF88		DF88		AC	AD	AG	LL	ZF88	DF88	O	Weight	
	k	kB	k	kB					HH	HH		ZF88	DF88
LA71	–	–	523.0	578.0	139.0	146.0	90	90	–	113.0	M20x1.5/M25x1.5	–	78
LA71Z	–	–	542.0	597.0	139.0	146.0	90	90	–	113.0	M20x1.5/M25x1.5	–	78
LA80	–	–	560.0	623.5	156.5	155.0	90	90	–	112.5	M20x1.5/M25x1.5	–	83
LA80Z	–	–	582.5	646.0	156.5	155.0	90	90	–	185.5	M20x1.5/M25x1.5	–	87
LA90S/L	566.0	637.0	591.0	662.0	174.0	163.0	90	90	87.5	112.5	M20x1.5/M25x1.5	87	88
LA90ZL	611.0	682.0	636.0	707.0	174.0	163.0	90	90	211.5	236.5	M20x1.5/M25x1.5	93	94
LA100L	609.5	690.5	637.0	718.0	195.0	168.0	120	120	125.5	153.0	2xM32x1.5	95	97
LA100ZL	679.5	760.5	707.0	788.0	195.0	168.0	120	120	257.5	285.0	2xM32x1.5	105	107
LA112M	635.5	716.5	664.5	745.5	219.0	181.0	120	120	127.5	156.5	2xM32x1.5	108	109
LA112ZM	663.5	744.6	692.5	773.5	219.0	181.0	120	120	231.5	260.5	2xM32x1.5	115	116
LA132S/M	695.5	797.5	723.5	825.5	259.0	195.0	140	140	168.0	196.0	2xM32x1.5	119	122
LA132ZM	741.5	843.5	769.5	871.5	259.0	195.0	140	140	276.0	304.0	2xM32x1.5	140	143
LA160M/L	800.0	918.5	–	–	313.5	227.0	165	165	195.5	–	2xM40x1.5	154	–
LA160ZL	848.0	966.5	–	–	313.5	227.0	165	165	348.5	–	2xM40x1.5	193	–
LG180M/L	859.5	981.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	246	–
LG180ZM/ZL	910.5	1 032.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	276	–



Gearbox D/Z108 (3- / 2-stage), foot-mounted design

DZ011



d	to1	l	l4	l3	t	u	i	DR
60 *)	m6	120	10	100	64.0	18	159.5	M20x42
70	m6	140	15	110	74.5	20	179.5	M20x42

*) Preferred series

Motor	Z108		D108		AC	AD	AG	LL	Z108	D108	O	Weight	
	k	kB	k	kB					HH	HH		Z108	D108
LA80	–	–	599.0	662.5	156.5	155.0	90	90	–	106.5	M20x1.5/M25x1.5	–	130
LA80Z	–	–	621.5	685.0	156.5	155.0	90	90	–	179.5	M20x1.5/M25x1.5	–	134
LA90S/L	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	133	135
LA90ZL	644.5	715.5	675.0	746.0	174.0	163.0	90	90	200.0	230.5	M20x1.5/M25x1.5	139	141
LA100L	642.5	723.5	676.0	757.0	195.0	168.0	120	120	113.5	147.0	2xM32x1.5	141	144
LA100ZL	712.5	793.5	746.0	827.0	195.0	168.0	120	120	245.5	279.0	2xM32x1.5	151	154
LA112M	669.0	750.0	700.5	781.5	219.0	181.0	120	120	116.0	147.5	2xM32x1.5	152	156
LA112ZM	697.0	778.0	728.5	809.5	219.0	181.0	120	120	220.0	251.5	2xM32x1.5	159	163
LA132S/M	728.0	830.0	760.5	862.5	259.0	195.0	140	140	155.5	188.0	2xM32x1.5	163	168
LA132ZM	774.0	876.0	806.5	908.5	259.0	195.0	140	140	263.5	296.0	2xM32x1.5	184	189
LA160M/L	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	198	205
LA160ZL	881.5	1 000.0	911.0	1 029.5	313.5	227.0	165	165	337.0	366.5	2xM40x1.5	237	244
LG180M/L	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	294	–
LG180ZM/ZL	941.0	1 063.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	324	–
LG200L	946.0	1 072.0	–	–	385.0	301.0	260	192	228.0	–	2xM50x1.5	374	–
K4-LGI225S	1 206.5	1 445.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	530	–
K4-LGI225M	1 206.5	1 445.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	518	–
K4-LGI225ZM	1 266.5	1 505.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	576	–

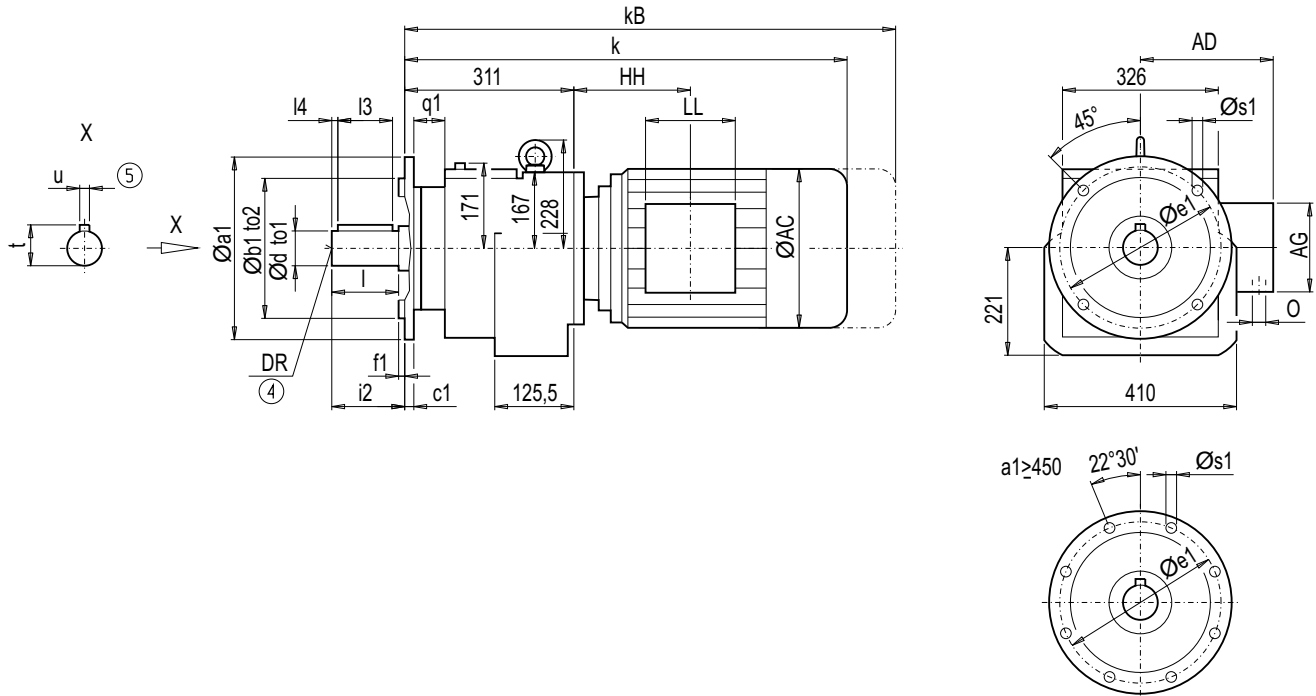
MOTOX Geared Motors

Helical geared motors

Dimensions

Gearbox DF/ZF108 (3- / 2-stage), flange-mounted design (A-type)

DZF011



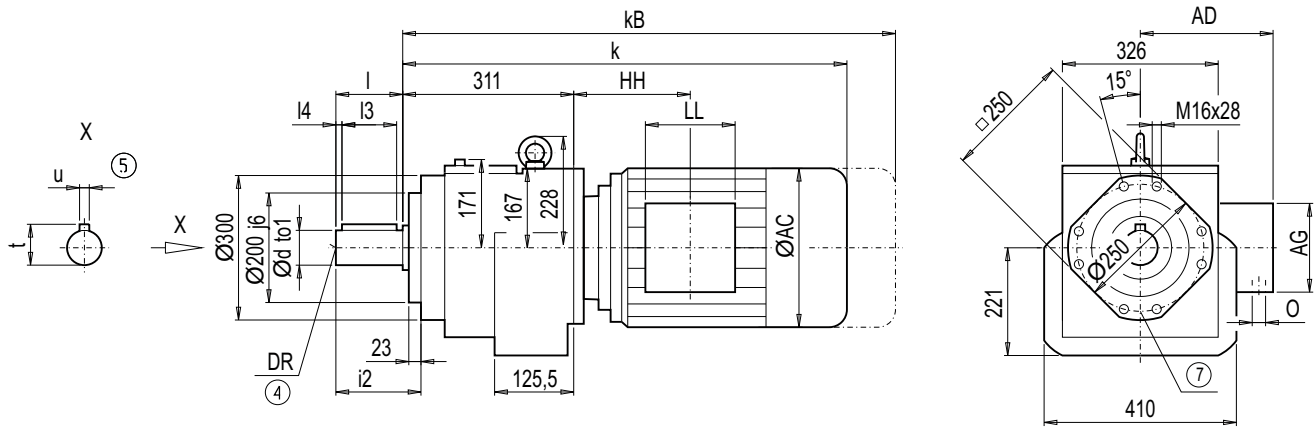
Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	l4	l3	t	u	i2	DR
A350	350	250	h6	18	300	5	41	17.5	60 ^{*)}	m6	120	10	100	64.0	18	120	M20x42
									70	m6	140	15	110	74.5	20	140	M20x42
A450	450	350	h6	20	400	5	39	17.5	60 ^{*)}	m6	120	10	100	64.0	18	120	M20x42
									70	m6	140	15	110	74.5	20	140	M20x42

^{*)} Preferred series

Motor	ZF108		DF108		AC	AD	AG	LL	ZF108	DF108	O	Weight	
	k	kB	k	kB					HH	HH		ZF108	DF108
LA80	–	–	599.0	662.5	156.5	155.0	90	90	–	106.5	M20x1.5/M25x1.5	–	129
LA80Z	–	–	621.5	685.0	156.5	155.0	90	90	–	179.5	M20x1.5/M25x1.5	–	133
LA90S/L	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	131	134
LA90ZL	644.5	715.5	675.0	746.0	174.0	163.0	90	90	200.0	230.5	M20x1.5/M25x1.5	137	140
LA100L	642.5	723.5	676.0	757.0	195.0	168.0	120	120	113.5	147.0	2xM32x1.5	139	143
LA100ZL	712.5	793.5	746.0	827.0	195.0	168.0	120	120	245.5	279.0	2xM32x1.5	149	153
LA112M	669.0	750.0	700.5	781.5	219.0	181.0	120	120	116.0	147.5	2xM32x1.5	151	155
LA112ZM	697.0	778.0	728.5	809.5	219.0	181.0	120	120	220.0	251.5	2xM32x1.5	158	162
LA132S/M	728.0	830.0	760.5	862.5	259.0	195.0	140	140	155.5	188.0	2xM32x1.5	162	167
LA132ZM	774.0	876.0	806.5	908.5	259.0	195.0	140	140	263.5	296.0	2xM32x1.5	183	188
LA160M/L	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	196	204
LA160ZL	881.5	1 000.0	911.0	1 029.5	313.5	227.0	165	165	337.0	366.5	2xM40x1.5	235	243
LG180M/L	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	293	–
LG180ZM/ZL	941.0	1 063.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	323	–
LG200L	946.0	1 072.0	–	–	385.0	301.0	260	192	228.0	–	2xM50x1.5	373	–
K4-LGI225S	1 206.5	1 445.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	529	–
K4-LGI225M	1 206.5	1 445.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	517	–
K4-LGI225ZM	1 266.5	1 505.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	575	–

Gearbox DZ/ZZ108 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



d	to1	l	l4	l3	t	u	i2	DR
60 *)	m6	120	10	100	64.0	18	148	M20x42
70	m6	140	15	110	74.5	20	168	M20x42

*) Preferred series

Motor	ZZ108		DZ108		AC	AD	AG	LL	ZZ108 HH	DZ108 HH	O	Weight	
	k	kB	k	kB								ZZ108	DZ108
LA80	–	–	599.0	662.5	156.5	155.0	90	90	–	106.5	M20x1.5/M25x1.5	–	121
LA80Z	–	–	621.5	685.0	156.5	155.0	90	90	–	179.5	M20x1.5/M25x1.5	–	125
LA90S/L	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	124	126
LA90ZL	644.5	715.5	675.0	746.0	174.0	163.0	90	90	200.0	230.5	M20x1.5/M25x1.5	130	132
LA100L	642.5	723.5	676.0	757.0	195.0	168.0	120	120	113.5	147.0	2xM32x1.5	132	135
LA100ZL	712.5	793.5	746.0	827.0	195.0	168.0	120	120	245.5	279.0	2xM32x1.5	142	145
LA112M	669.0	750.0	700.5	781.5	219.0	181.0	120	120	116.0	147.5	2xM32x1.5	144	147
LA112ZM	697.0	778.0	728.5	809.5	219.0	181.0	120	120	220.0	251.5	2xM32x1.5	151	154
LA132S/M	728.0	830.0	760.5	862.5	259.0	195.0	140	140	155.5	188.0	2xM32x1.5	154	159
LA132ZM	774.0	876.0	806.5	908.5	259.0	195.0	140	140	263.5	296.0	2xM32x1.5	175	180
LA160M/L	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	189	196
LA160ZL	881.5	1 000.0	911.0	1 029.5	313.5	227.0	165	165	337.0	366.5	2xM40x1.5	228	235
LG180M/L	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	285	–
LG180ZM/ZL	941.0	1 063.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	315	–
LG200L	946.0	1 072.0	–	–	385.0	301.0	260	192	228.0	–	2xM50x1.5	365	–
K4-LGI225S	1 206.5	1 445.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	521	–
K4-LGI225M	1 206.5	1 445.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	509	–
K4-LGI225ZM	1 266.5	1 505.5	–	–	442.0	325.0	260	192	443.0	–	2xM50x1.5	567	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

⑦ For note, see page 2/192

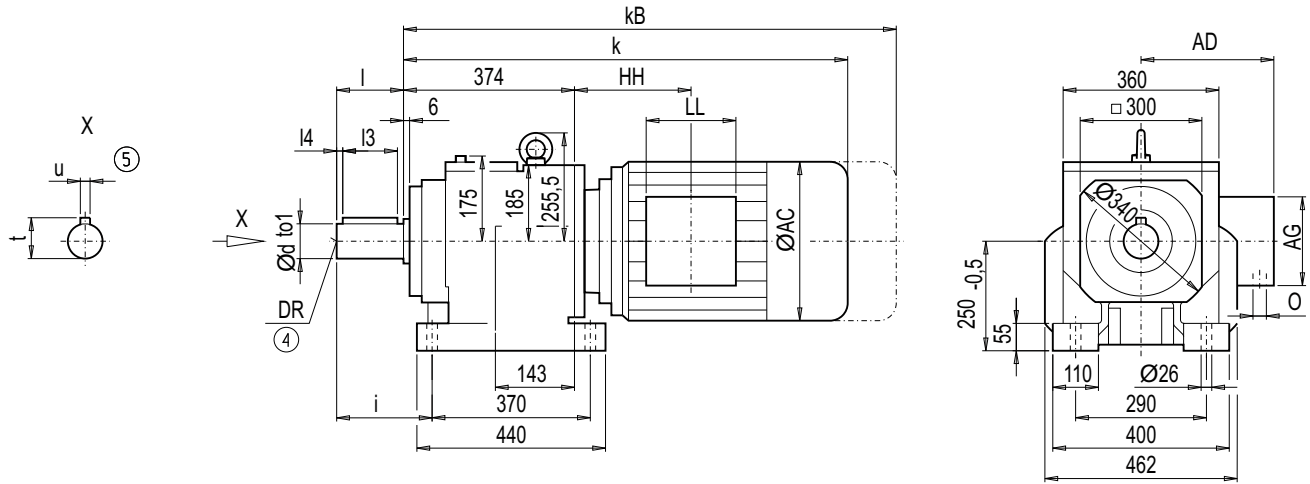
MOTOX Geared Motors

Helical geared motors

Dimensions

Gearbox D/Z128 (3- / 2-stage), foot-mounted design

DZ011



d	to1	l	l4	l3	t	u	i	DR
70 *)	m6	140	15	110	74.5	20	186	M20x42
90	m6	170	15	140	95.0	25	216	M24x50

*) Preferred series

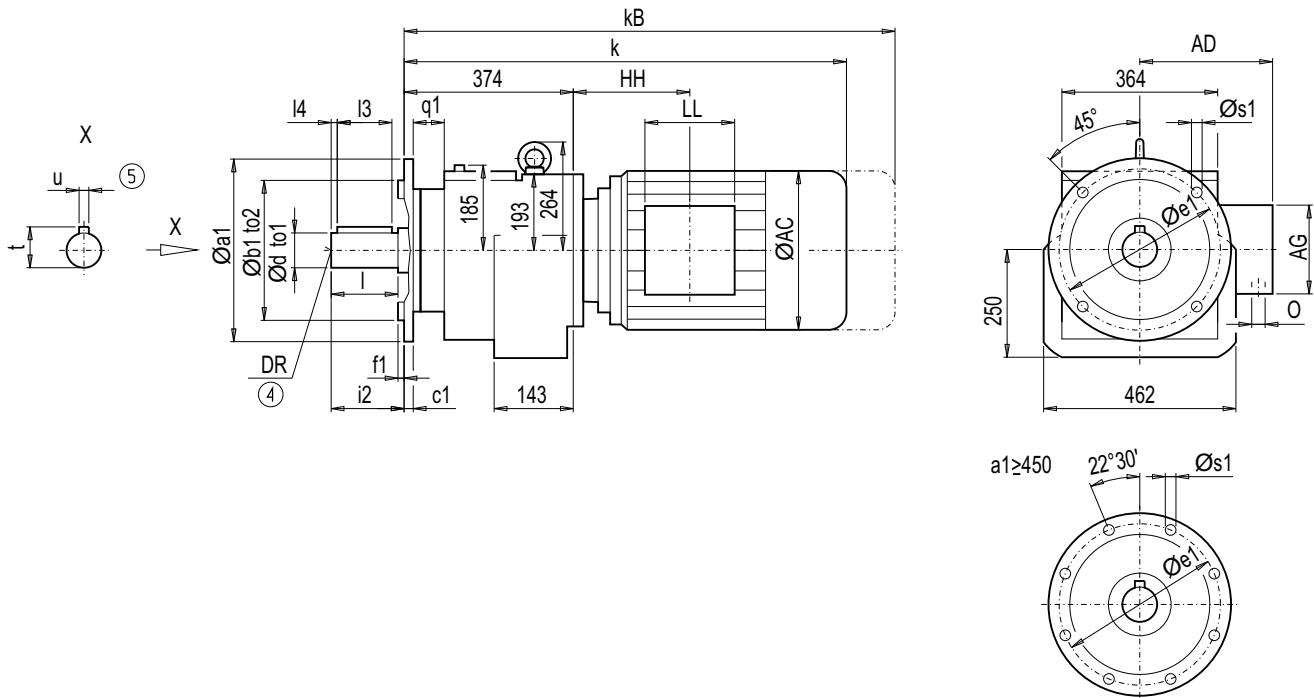
Motor	Z128		D128		AC	AD	AG	LL	Z128	D128	O	Weight	
	k	kB	k	kB					HH	HH		Z128	D128
LA90S/L	–	–	686.0	757.0	174.0	163.0	90	90	–	99.5	M20x1.5/M25x1.5	–	212
LA90ZL	–	–	731.0	802.0	174.0	163.0	90	90	–	223.5	M20x1.5/M25x1.5	–	218
LA100L	696.0	777.0	732.0	813.0	195.0	168.0	120	120	104.0	140.0	2xM32x1.5	214	221
LA100ZL	766.0	847.0	802.0	883.0	195.0	168.0	120	120	236.0	272.0	2xM32x1.5	224	231
LA112M	721.5	802.5	755.5	836.5	219.0	181.0	120	120	105.5	139.5	2xM32x1.5	226	233
LA112ZM	749.5	830.5	783.5	864.5	219.0	181.0	120	120	209.5	243.5	2xM32x1.5	233	240
LA132S/M	780.5	882.5	814.5	916.5	259.0	195.0	140	140	145.0	179.0	2xM32x1.5	235	246
LA132ZM	826.5	928.5	860.5	962.5	259.0	195.0	140	140	253.0	287.0	2xM32x1.5	256	267
LA160M/L	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	274	282
LA160ZL	928.0	1 046.5	965.0	1 083.5	313.5	227.0	165	165	320.5	357.5	2xM40x1.5	313	321
LG180M/L	939.5	1 061.5	976.5	1 098.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	365	378
LG180ZM/ZL	990.5	1 112.5	1 027.5	1 149.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	395	408
LG200L	995.5	1 121.5	1 032.5	1 158.5	385.0	301.0	260	192	214.5	251.5	2xM50x1.5	445	458
LG225S	1 066.5	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	522	–
LG225M	1 066.5	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	510	–
LG225ZM	1 126.5	1 365.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	568	–
K4-LGI250M	1 353.5	1 578.5	–	–	495.0	392.0	300	236	469.5	–	2xM63x1.5	689	–
K4-LGI250ZM	1 423.5	1 648.5	–	–	495.0	392.0	300	236	469.5	–	2xM63x1.5	792	–

Ⓢ DIN 332

Ⓢ Feather key / keyway DIN 6885

Gearbox DF/ZF128 (3- / 2-stage), flange-mounted design (A-type)

DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	l4	l3	t	u	i2	DR
A350 ¹⁾	350	250	h6	18	300	5	60	17.5	70 ^{*)}	m6	140	15	110	74.5	20	140	M20x42
									90	m6	170	15	140	95.0	25	170	M24x50
A450	450	350	h6	22	400	5	56	17.5	70 ^{*)}	m6	140	15	110	74.5	20	140	M20x42
									90	m6	170	15	140	95.0	25	170	M24x50
A550	550	450	h6	22	500	5	56	17.5	70 ^{*)}	m6	140	15	110	74.5	20	140	M20x42
									90	m6	170	15	140	95.0	25	170	M24x50

¹⁾ If torque > 3500 Nm, the flange must be pinned. We recommend you use 2 pins with a 12 mm diameter

^{*)} Preferred series

Motor	ZF128		DF128		AC	AD	AG	LL	ZF128		DF128		Weight	
	k	kB	k	kB					HH	HH	O		ZF128	DF128
LA90S/L	—	—	686.0	757.0	174.0	163.0	90	90	—	99.5	M20x1.5/M25x1.5	—	206	—
LA90ZL	—	—	731.0	802.0	174.0	163.0	90	90	—	223.5	M20x1.5/M25x1.5	—	212	—
LA100L	696.0	777.0	732.0	813.0	195.0	168.0	120	120	104.0	140.0	2xM32x1.5	209	216	—
LA100ZL	766.0	847.0	802.0	883.0	195.0	168.0	120	120	236.0	272.0	2xM32x1.5	219	226	—
LA112M	721.5	802.5	755.5	836.5	219.0	181.0	120	120	105.5	139.5	2xM32x1.5	220	227	—
LA112ZM	749.5	830.5	783.5	864.5	219.0	181.0	120	120	209.5	243.5	2xM32x1.5	227	234	—
LA132S/M	780.5	882.5	814.5	916.5	259.0	195.0	140	140	145.0	179.0	2xM32x1.5	230	240	—
LA132ZM	826.5	928.5	860.5	962.5	259.0	195.0	140	140	253.0	287.0	2xM32x1.5	251	261	—
LA160M/L	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	269	276	—
LA160ZL	928.0	1 046.5	965.0	1 083.5	313.5	227.0	165	165	320.5	357.5	2xM40x1.5	308	315	—
LG180M/L	939.5	1 061.5	976.5	1 098.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	360	372	—
LG180ZM/ZL	990.5	1 112.5	1 027.5	1 149.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	390	402	—
LG200L	995.5	1 121.5	1 032.5	1 158.5	385.0	301.0	260	192	214.5	251.5	2xM50x1.5	440	452	—
LG225S	1 066.5	1 305.5	—	—	442.0	325.0	260	192	250.5	—	2xM50x1.5	517	—	—
LG225M	1 066.5	1 305.5	—	—	442.0	325.0	260	192	250.5	—	2xM50x1.5	505	—	—
LG225ZM	1 126.5	1 365.5	—	—	442.0	325.0	260	192	250.5	—	2xM50x1.5	563	—	—
K4-LGI250M	1 353.5	1 578.5	—	—	495.0	392.0	300	236	469.5	—	2xM63x1.5	684	—	—
K4-LGI250ZM	1 423.5	1 648.5	—	—	495.0	392.0	300	236	469.5	—	2xM63x1.5	787	—	—

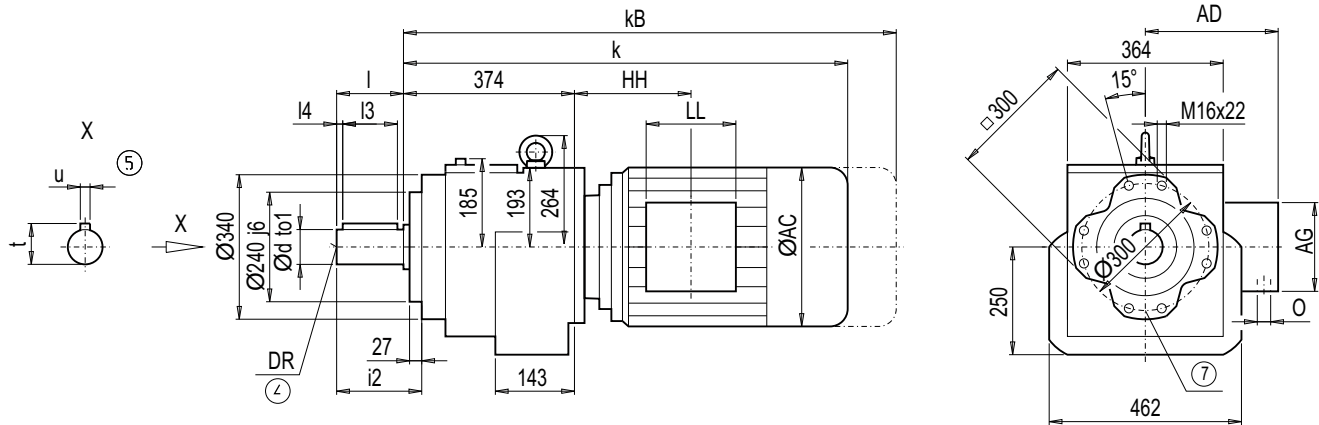
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox DZ/ZZ128 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



d	to1	l	l ₄	l ₃	t	u	i ₂	DR
70 ^{*)}	m6	140	15	110	74.5	20	173	M20x42
90	m6	170	15	140	95.0	25	203	M24x50

*) Preferred series

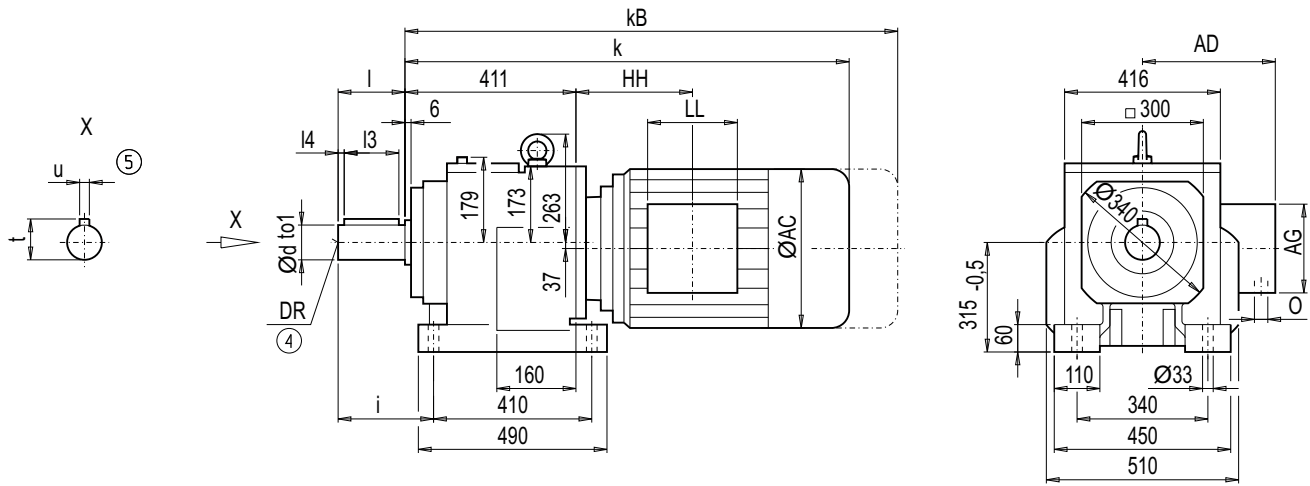
Motor	ZZ128		DZ128		AC	AD	AG	LL	ZZ128 HH	DZ128 HH	O	Weight	
	k	k _B	k	k _B								ZZ128	DZ128
LA90S/L	–	–	686.0	757.0	174.0	163.0	90	90	–	99.5	M20x1.5/M25x1.5	–	190
LA90ZL	–	–	731.0	802.0	174.0	163.0	90	90	–	223.5	M20x1.5/M25x1.5	–	196
LA100L	696.0	777.0	732.0	813.0	195.0	168.0	120	120	104.0	140.0	2xM32x1.5	192	199
LA100ZL	766.0	847.0	802.0	883.0	195.0	168.0	120	120	236.0	272.0	2xM32x1.5	202	209
LA112M	721.5	802.5	755.5	836.5	219.0	181.0	120	120	105.5	139.5	2xM32x1.5	203	210
LA112ZM	749.5	830.5	783.5	864.5	219.0	181.0	120	120	209.5	243.5	2xM32x1.5	210	217
LA132S/M	780.5	882.5	814.5	916.5	259.0	195.0	140	140	145.0	179.0	2xM32x1.5	213	223
LA132ZM	826.5	928.5	860.5	962.5	259.0	195.0	140	140	253.0	287.0	2xM32x1.5	234	245
LA160M/L	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	252	259
LA160ZL	928.0	1 046.5	965.0	1 083.5	313.5	227.0	165	165	320.5	357.5	2xM40x1.5	291	298
LG180M/L	939.5	1 061.5	976.5	1 098.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	343	355
LG180ZM/ZL	990.5	1 112.5	1 027.5	1 149.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	373	385
LG200L	995.5	1 121.5	1 032.5	1 158.5	385.0	301.0	260	192	214.5	251.5	2xM50x1.5	423	435
LG225S	1 066.5	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	500	–
LG225M	1 066.5	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	488	–
LG225ZM	1 126.5	1 365.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	546	–
K4-LGI250M	1 353.5	1 578.5	–	–	495.0	392.0	300	236	469.5	–	2xM63x1.5	667	–
K4-LGI250ZM	1 423.5	1 648.5	–	–	495.0	392.0	300	236	469.5	–	2xM63x1.5	770	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

⑦ For note, see page 2/192

Gearbox D/Z148 (3- / 2-stage), foot-mounted design

DZ011


d	to1	l	l4	l3	t	u	i	DR
90 *)	m6	170	15	140	95	25	220	M24x50
100	m6	210	15	180	106	28	260	M24x50

*) Preferred series

Motor	Z148		D148		AC	AD	AG	LL	Z148 HH	D148 HH	O	Weight	
	k	kB	k	kB								Z148	D148
LA100L	–	–	764.0	845.0	195.0	168.0	120	120	–	135.0	2xM32x1.5	–	313
LA100ZL	–	–	834.0	915.0	195.0	168.0	120	120	–	267.0	2xM32x1.5	–	323
LA112M	–	–	789.5	870.5	219.0	181.0	120	120	–	136.5	2xM32x1.5	–	324
LA112ZM	–	–	817.5	898.5	219.0	181.0	120	120	–	240.5	2xM32x1.5	–	331
LA132S/M	809.5	911.5	847.5	949.5	259.0	195.0	140	140	137.0	175.0	2xM32x1.5	325	336
LA132ZM	855.5	957.5	893.5	995.5	259.0	195.0	140	140	245.0	283.0	2xM32x1.5	346	357
LA160M/L	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	359	371
LA160ZL	957.5	1 076.0	995.5	1 114.0	313.5	227.0	165	165	313.0	351.0	2xM40x1.5	398	410
LG180M/L	969.0	1 091.0	1 007.0	1 129.0	348.0	322.5	260	192	177.0	215.0	2xM40x1.5	455	467
LG180ZM/ZL	1 020.0	1 142.0	1 058.0	1 180.0	348.0	322.5	260	192	177.0	215.0	2xM40x1.5	485	497
LG200L	1 025.0	1 151.0	1 063.0	1 189.0	385.0	301.0	260	192	207.0	245.0	2xM50x1.5	535	547
LG225S	1 096.0	1 335.0	1 134.0	1 373.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	608	621
LG225M	1 096.0	1 335.0	1 134.0	1 373.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	596	609
LG225ZM	1 156.0	1 395.0	1 194.0	1 433.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	654	667
LG250M	1 189.5	1 414.5	–	–	495.0	392.0	300	236	278.5	–	2xM63x1.5	698	–
LG250ZM	1 259.5	1 485.0	–	–	495.0	392.0	300	236	278.5	–	2xM63x1.5	801	–
K4-LGI280S	1 468.5	1 695.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	929	–
K4-LGI280M	1 468.5	1 695.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	941	–
K4-LGI280ZM	1 578.5	1 805.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	1 029	–

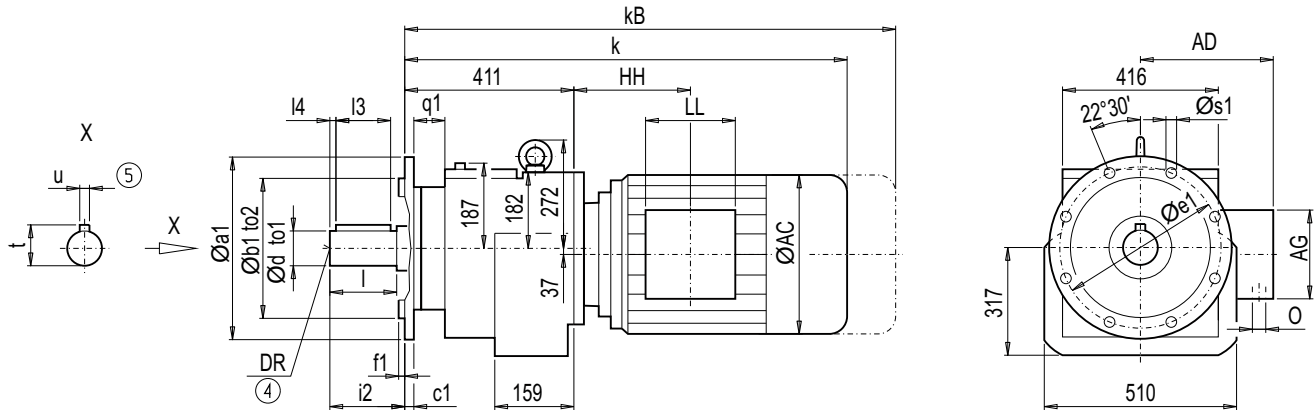
MOTOX Geared Motors

Helical geared motors

Dimensions

Gearbox DF/ZF148 (3- / 2-stage), flange-mounted design (A-type)

DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	l4	l3	t	u	i2	DR
A450	450	350	h6	22	400	5	68	17.5	90 ^{*)}	m6	170	15	140	95	25	170	M24x50
									100	m6	210	15	180	106	28	210	M24x50
A550	550	450	h6	25	500	5	65	17.5	90 ^{*)}	m6	170	15	140	95	25	170	M24x50
									100	m6	210	15	180	106	28	210	M24x50

^{*)} Preferred series

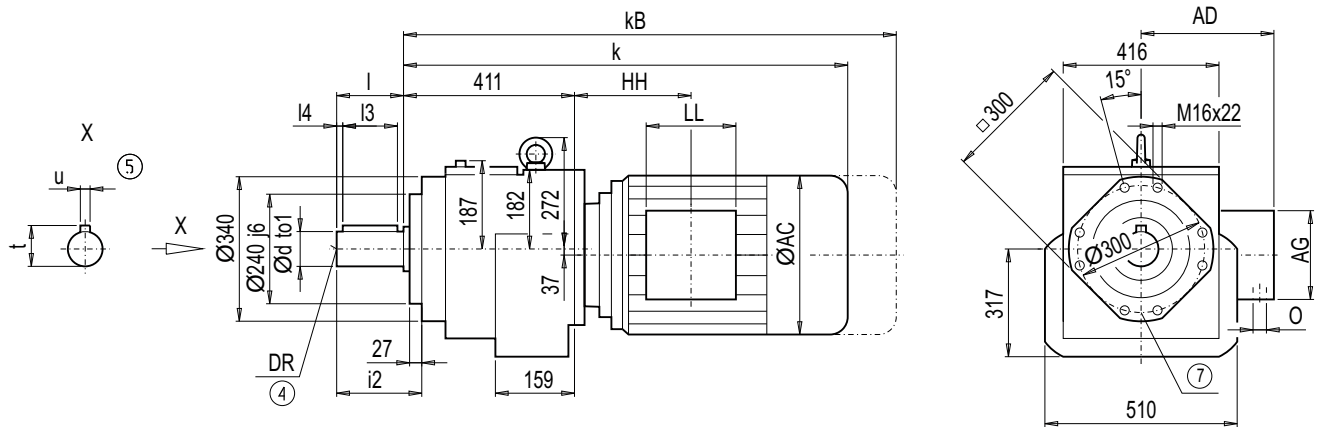
Motor	ZF148		DF148		AC	AD	AG	LL	ZF148	DF148	O	Weight	
	k	kB	k	kB								ZF148	DF148
LA100L	–	–	764.0	845.0	195.0	168.0	120	120	–	135.0	2xM32x1.5	–	307
LA100ZL	–	–	834.0	915.0	195.0	168.0	120	120	–	267.0	2xM32x1.5	–	317
LA112M	–	–	789.5	870.5	219.0	181.0	120	120	–	136.5	2xM32x1.5	–	318
LA112ZM	–	–	817.5	898.5	219.0	181.0	120	120	–	240.5	2xM32x1.5	–	325
LA132S/M	809.5	911.5	847.5	949.5	259.0	195.0	140	140	137.0	175.0	2xM32x1.5	319	330
LA132ZM	855.5	957.5	893.5	995.5	259.0	195.0	140	140	245.0	283.0	2xM32x1.5	340	351
LA160M/L	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	353	365
LA160ZL	957.5	1 076.0	995.5	1 114.0	313.5	227.0	165	165	313.0	351.0	2xM40x1.5	392	404
LG180M/L	969.0	1 091.0	1 007.0	1 129.0	348.0	322.5	260	192	177.0	215.0	2xM40x1.5	449	461
LG180ZM/ZL	1 020.0	1 142.0	1 058.0	1 180.0	348.0	322.5	260	192	177.0	215.0	2xM40x1.5	479	491
LG200L	1 025.0	1 151.0	1 063.0	1 189.0	385.0	301.0	260	192	207.0	245.0	2xM50x1.5	529	541
LG225S	1 096.0	1 335.0	1 134.0	1 373.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	602	615
LG225M	1 096.0	1 335.0	1 134.0	1 373.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	590	603
LG225ZM	1 156.0	1 395.0	1 194.0	1 433.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	648	661
LG250M	1 189.5	1 414.5	–	–	495.0	392.0	300	236	278.5	–	2xM63x1.5	692	–
LG250ZM	1 259.5	1 485.0	–	–	495.0	392.0	300	236	278.5	–	2xM63x1.5	795	–
K4-LGI280S	1 468.5	1 695.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	923	–
K4-LGI280M	1 468.5	1 695.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	941	–
K4-LGI280ZM	1 578.5	1 805.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	1 029	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox DZ/ZZ148 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



d	to1	l	l4	l3	t	u	i2	DR
90 ^{*)}	m6	170	15	140	95	25	203	M24x50
100	m6	210	15	180	106	28	243	M24x50

*) Preferred series

Motor	ZZ148		DZ148		AC	AD	AG	LL	ZZ148	DZ148	O	Weight	
	k	kB	k	kB						HH	HH	ZZ148	DZ148
LA100L	–	–	764.0	845.0	195.0	168.0	120	120	–	135.0	2xM32x1.5	–	283
LA100ZL	–	–	834.0	915.0	195.0	168.0	120	120	–	267.0	2xM32x1.5	–	293
LA112M	–	–	789.5	870.5	219.0	181.0	120	120	–	136.5	2xM32x1.5	–	294
LA112ZM	–	–	817.5	898.5	219.0	181.0	120	120	–	240.5	2xM32x1.5	–	301
LA132S/M	809.5	911.5	847.5	949.5	259.0	195.0	140	140	137.0	175.0	2xM32x1.5	302	306
LA132ZM	855.5	957.5	893.5	995.5	259.0	195.0	140	140	245.0	283.0	2xM32x1.5	323	327
LA160M/L	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	336	341
LA160ZL	957.5	1 076.0	995.5	1 114.0	313.5	227.0	165	165	313.0	351.0	2xM40x1.5	375	380
LG180M/L	969.0	1 091.0	1 007.0	1 129.0	348.0	322.5	260	192	177.0	215.0	2xM40x1.5	432	437
LG180ZM/ZL	1 020.0	1 142.0	1 058.0	1 180.0	348.0	322.5	260	192	177.0	215.0	2xM40x1.5	462	467
LG200L	1 025.0	1 151.0	1 063.0	1 189.0	385.0	301.0	260	192	207.0	245.0	2xM50x1.5	512	517
LG225S	1 096.0	1 335.0	1 134.0	1 373.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	585	547
LG225M	1 096.0	1 335.0	1 134.0	1 373.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	573	591
LG225ZM	1 156.0	1 395.0	1 194.0	1 433.0	442.0	325.0	260	192	243.0	281.0	2xM50x1.5	631	637
LG250M	1 189.5	1 414.5	–	–	495.0	392.0	300	236	278.5	–	2xM63x1.5	675	–
LG250ZM	1 259.5	1 485.0	–	–	495.0	392.0	300	236	278.5	–	2xM63x1.5	778	–
K4-LGI280S	1 468.5	1 695.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	906	–
K4-LGI280M	1 468.5	1 695.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	918	–
K4-LGI280ZM	1 578.5	1 805.5	–	–	555.0	432.0	300	236	489.5	–	2xM63x1.5	1 006	–

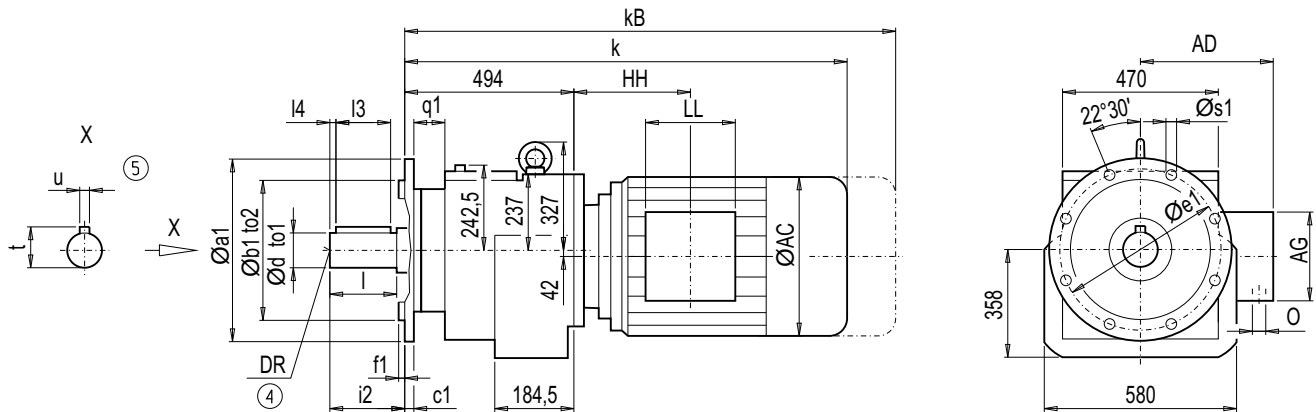
④ DIN 332

⑤ Feather key / keyway DIN 6885

⑦ For note, see page 2/192

Gearbox DF/ZF168 (3- / 2-stage), flange-mounted design (A-type)

DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1	d	to1	l	l4	l3	t	u	i2	DR
A450	450	350	h6	31	400	5	65	17.5	100 *)	m6	210	15	180	106	28	210	M24x50
									110	m6	210	15	180	116	28	210	M24x50
									120	m6	210	15	180	127	32	210	M24x50
A550	550	450	h6	31	500	5	65	17.5	100 *)	m6	210	15	180	106	28	210	M24x50
									110	m6	210	15	180	116	28	210	M24x50
									120	m6	210	15	180	127	32	210	M24x50
A660	660	550	h6	31	600	5	65	22.0	100 *)	m6	210	15	180	106	28	210	M24x50
									110	m6	210	15	180	116	28	210	M24x50
									120	m6	210	15	180	127	32	210	M24x50

*) Preferred series

Motor	ZF168		DF168		AC	AD	AG	LL	ZF168	DF168	O	Weight	
	k	kB	k	kB					HH	HH		ZF168	DF168
LA132S/M	878.0	980.0	919.0	1 021.0	259.0	195.0	140	140	122.5	163.5	2xM32x1.5	466	484
LA132ZM	924.0	1 026.0	965.0	1 067.0	259.0	195.0	140	140	230.5	271.5	2xM32x1.5	487	505
LA160M/L	978.0	1 096.5	1 019.0	1 137.5	313.5	227.0	165	165	145.5	186.5	2xM40x1.5	500	518
LA160ZL	1 026.0	1 144.5	1 067.0	1 185.5	313.5	227.0	165	165	298.5	339.5	2xM40x1.5	539	557
LG180M/L	1 037.5	1 159.5	1 078.5	1 200.5	348.0	322.5	260	192	162.5	203.5	2xM40x1.5	595	614
LG180ZM/ZL	1 088.5	1 210.5	1 129.5	1 251.5	348.0	322.5	260	192	162.5	203.5	2xM40x1.5	625	644
LG200L	1 093.5	1 219.5	1 134.5	1 260.5	385.0	301.0	260	192	192.5	233.5	2xM50x1.5	675	694
LG225S	1 164.5	1 403.5	1 205.5	1 444.5	442.0	325.0	260	192	228.5	269.5	2xM50x1.5	747	767
LG225M	1 164.5	1 403.5	1 205.5	1 444.5	442.0	325.0	260	192	228.5	269.5	2xM50x1.5	735	755
LG225ZM	1 224.5	1 463.5	1 265.5	1 504.5	442.0	325.0	260	192	228.5	269.5	2xM50x1.5	793	813
LG250M	1 258.0	1 483.0	–	–	495.0	392.0	300	236	264.0	–	2xM63x1.5	837	–
LG250ZM	1 328.0	1 553.5	–	–	495.0	392.0	300	236	264.0	–	2xM63x1.5	940	–
K4-LGI280S	1 537.5	1 764.5	–	–	555.0	432.0	300	236	475.5	–	2xM63x1.5	966	–
K4-LGI280M	1 537.5	1 764.5	–	–	555.0	432.0	300	236	475.5	–	2xM63x1.5	1 072	–
K4-LGI280ZM	1 647.5	1 874.5	–	–	555.0	432.0	300	236	475.5	–	2xM63x1.5	1 160	–

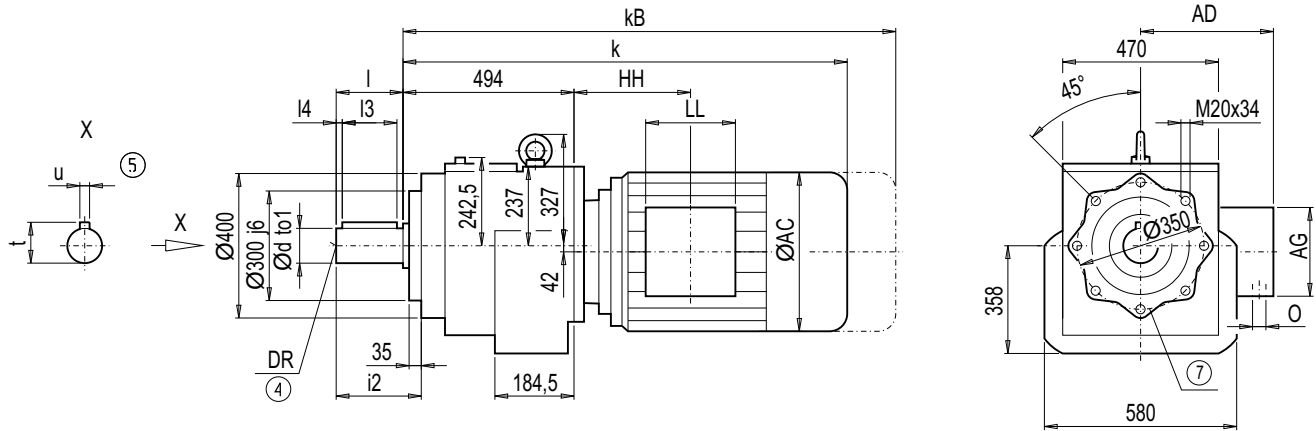
MOTEX Geared Motors

Helical geared motors

Dimensions

Gearbox DZ/ZZ168 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



d	to1	l	l4	l3	t	u	i2	DR
100	m6	210	15	180	106	28	251	M24x50
110	m6	210	15	180	116	28	251	M24x50
120 ^{*)}	m6	210	15	180	127	32	251	M24x50

*) Preferred series

Motor	ZZ168		DZ168		AC	AD	AG	LL	ZZ168	DZ168	O	Weight	
	k	kB	k	kB					HH	HH		ZZ168	DZ168
LA132S/M	878.0	980.0	919.0	1 021.0	259.0	195.0	140	140	122.5	163.5	2xM32x1.5	447	465
LA132ZM	924.0	1 026.0	965.0	1 067.0	259.0	195.0	140	140	230.5	271.5	2xM32x1.5	468	486
LA160M/L	978.0	1 096.5	1 019.0	1 137.5	313.5	227.0	165	165	145.5	186.5	2xM40x1.5	481	499
LA160ZL	1 026.0	1 144.5	1 067.0	1 185.5	313.5	227.0	165	165	298.5	339.5	2xM40x1.5	520	538
LG180M/L	1 037.5	1 159.5	1 078.5	1 200.5	348.0	322.5	260	192	162.5	203.5	2xM40x1.5	576	595
LG180ZM/ZL	1 088.5	1 210.5	1 129.5	1 251.5	348.0	322.5	260	192	162.5	203.5	2xM40x1.5	606	625
LG200L	1 093.5	1 219.5	1 134.5	1 260.5	385.0	301.0	260	192	192.5	233.5	2xM50x1.5	656	675
LG225S	1 164.5	1 403.5	1 205.5	1 444.5	442.0	325.0	260	192	228.5	269.5	2xM50x1.5	728	748
LG225M	1 164.5	1 403.5	1 205.5	1 444.5	442.0	325.0	260	192	228.5	269.5	2xM50x1.5	716	736
LG225ZM	1 224.5	1 463.5	1 265.5	1 504.5	442.0	325.0	260	192	228.5	269.5	2xM50x1.5	774	794
LG250M	1 258.0	1 483.0	–	–	495.0	392.0	300	236	264.0	–	2xM63x1.5	818	–
LG250ZM	1 328.0	1 553.5	–	–	495.0	392.0	300	236	264.0	–	2xM63x1.5	921	–
K4-LGI280S	1 537.5	1 764.5	–	–	555.0	432.0	300	236	475.5	–	2xM63x1.5	947	–
K4-LGI280M	1 537.5	1 764.5	–	–	555.0	432.0	300	236	475.5	–	2xM63x1.5	1 053	–
K4-LGI280ZM	1 647.5	1 874.5	–	–	555.0	432.0	300	236	475.5	–	2xM63x1.5	1 141	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

⑦ For note, see page 2/192

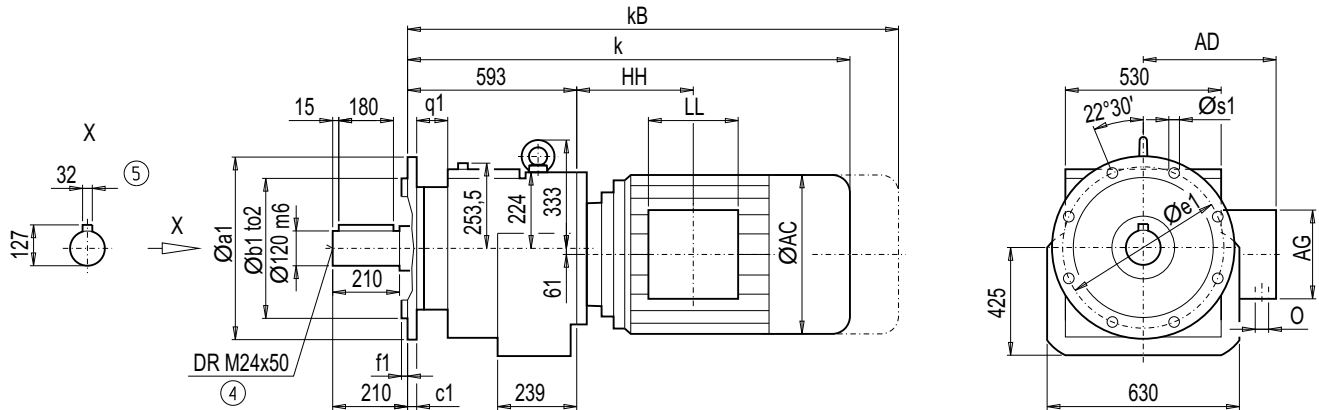
MOTOX Geared Motors

Helical geared motors

Dimensions

Gearbox DF/ZF188 (3- / 2-stage), flange-mounted design (A-type)

DZF011



Flange	a1	b1	to2	c1	e1	f1	q1	s1
A550	550	450	h6	31	500	5	83	17.5
A660	660	550	h6	31	600	6	83	22.0

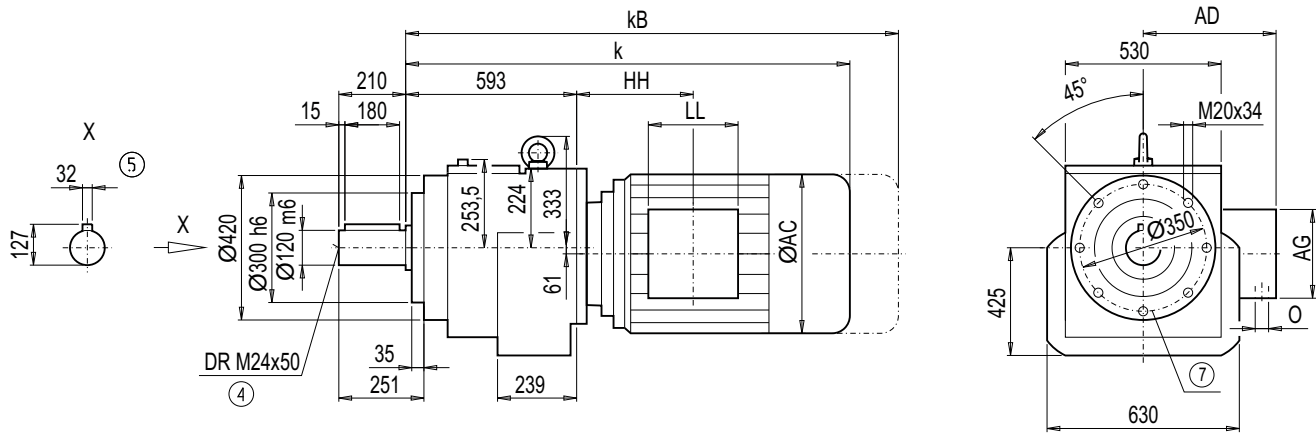
Motor	ZF188		DF188		AC	AD	AG	LL	ZF188	DF188	O	Weight	
	k	kB	k	kB					HH	HH		ZF188	DF188
LA132S/M	–	–	977.0	1 079.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	600
LA132ZM	–	–	1 023.0	1 125.0	259.0	195.0	140	140	–	230.5	2xM32x1.5	–	609
LA160M/L	1 077.0	1 195.5	1 077.0	1 195.5	313.5	227.0	165	165	145.5	145.5	2xM40x1.5	602	632
LA160ZL	1 125.0	1 243.5	1 125.0	1 243.5	313.5	227.0	165	165	298.5	298.5	2xM40x1.5	602	632
LG180M/L	1 136.5	1 258.5	1 136.5	1 258.5	348.0	322.5	260	192	162.5	162.5	2xM40x1.5	698	727
LG180ZM/ZL	1 187.5	1 309.5	1 187.5	1 309.5	348.0	322.5	260	192	162.5	162.5	2xM40x1.5	728	757
LG200L	1 192.5	1 318.5	1 192.5	1 318.5	385.0	301.0	260	192	192.5	192.5	2xM50x1.5	778	807
LG225S	1 263.5	1 502.5	1 263.5	1 502.5	442.0	325.0	260	192	228.5	228.5	2xM50x1.5	851	880
LG225M	1 263.5	1 502.5	1 263.5	1 502.5	442.0	325.0	260	192	228.5	228.5	2xM50x1.5	839	868
LG225ZM	1 323.5	1 562.5	1 323.5	1 562.5	442.0	325.0	260	192	228.5	228.5	2xM50x1.5	897	926
LG250M	1 357.0	1 582.0	1 357.0	1 582.0	495.0	392.0	300	236	264.0	264.0	2xM63x1.5	941	970
LG250ZM	1 427.0	1 652.5	1 427.0	1 652.5	495.0	392.0	300	236	264.0	264.0	2xM63x1.5	1 044	1 073
K4-LGI280S	1 636.5	1 863.5	1 636.5	1 863.5	555.0	432.0	300	236	475.5	475.5	2xM63x1.5	1 069	1 099
K4-LGI280M	1 636.5	1 863.5	1 636.5	1 863.5	555.0	432.0	300	236	475.5	475.5	2xM63x1.5	1 175	1 204
K4-LGI280ZM	1 746.5	1 973.5	1 746.5	1 973.5	555.0	432.0	300	236	475.5	475.5	2xM63x1.5	1 263	1 292
K2-LGI315S/M	1 824.5	2 089.5	–	–	610.0	500.0	380	307	584.5	–	2xM63x1.5	1 304	–
K2-LGI315ZM	1 984.5	2 249.5	–	–	610.0	500.0	380	307	584.5	–	2xM63x1.5	1 459	–
K2-LGI315L	1 984.5	2 249.5	–	–	610.0	500.0	380	307	584.5	–	2xM63x1.5	1 599	–
K2-LGI315ZL	2 124.5	2 389.5	–	–	610.0	500.0	380	307	584.5	–	2xM63x1.5	1 801	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox DZ/ZZ188 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



Motor	ZZ188		DZ188						ZZ188	DZ188		Weight	
	k	kB	k	kB	AC	AD	AG	LL	HH	HH	O	ZZ188	DZ188
LA132S/M	–	–	977.0	1 079.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	580
LA132ZM	–	–	1 023.0	1 125.0	259.0	195.0	140	140	–	230.5	2xM32x1.5	–	589
LA160M/L	1 077.0	1 195.5	1 077.0	1 195.5	313.5	227.0	165	165	145.5	145.5	2xM40x1.5	582	612
LA160ZL	1 125.0	1 243.5	1 125.0	1 243.5	313.5	227.0	165	165	298.5	298.5	2xM40x1.5	582	612
LG180M/L	1 136.5	1 258.5	1 136.5	1 258.5	348.0	322.5	260	192	162.5	162.5	2xM40x1.5	678	707
LG180ZM/ZL	1 187.5	1 309.5	1 187.5	1 309.5	348.0	322.5	260	192	162.5	162.5	2xM40x1.5	708	737
LG200L	1 192.5	1 318.5	1 192.5	1 318.5	385.0	301.0	260	192	192.5	192.5	2xM50x1.5	758	787
LG225S	1 263.5	1 502.5	1 263.5	1 502.5	442.0	325.0	260	192	228.5	228.5	2xM50x1.5	831	860
LG225M	1 263.5	1 502.5	1 263.5	1 502.5	442.0	325.0	260	192	228.5	228.5	2xM50x1.5	819	848
LG225ZM	1 323.5	1 562.5	1 323.5	1 562.5	442.0	325.0	260	192	228.5	228.5	2xM50x1.5	877	906
LG250M	1 357.0	1 582.0	1 357.0	1 582.0	495.0	392.0	300	236	264.0	264.0	2xM63x1.5	921	950
LG250ZM	1 427.0	1 652.5	1 427.0	1 652.5	495.0	392.0	300	236	264.0	264.0	2xM63x1.5	1 024	1 053
K4-LGI280S	1 636.5	1 863.5	1 636.5	1 863.5	555.0	432.0	300	236	475.5	475.5	2xM63x1.5	1 049	1 079
K4-LGI280M	1 636.5	1 863.5	1 636.5	1 863.5	555.0	432.0	300	236	475.5	475.5	2xM63x1.5	1 155	1 184
K4-LGI280ZM	1 746.5	1 973.5	1 746.5	1 973.5	555.0	432.0	300	236	475.5	475.5	2xM63x1.5	1 243	1 272
K2-LGI315S/M	1 824.5	2 089.5	–	–	610.0	500.0	380	307	584.5	–	2xM63x1.5	1 284	–
K2-LGI315ZM	1 984.5	2 249.5	–	–	610.0	500.0	380	307	584.5	–	2xM63x1.5	1 511	–
K2-LGI315L	1 984.5	2 249.5	–	–	610.0	500.0	380	307	584.5	–	2xM63x1.5	1 651	–
K2-LGI315ZL	2 124.5	2 389.5	–	–	610.0	500.0	380	307	584.5	–	2xM63x1.5	1 851	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

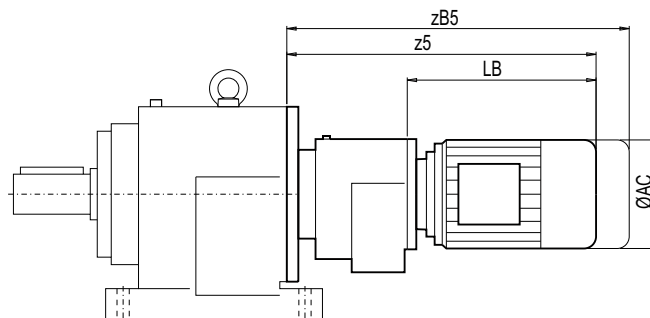
⑦ For note, see page 2/192

MOTOX Geared Motors

Helical geared motors

Dimensions

Helical tandem geared motors

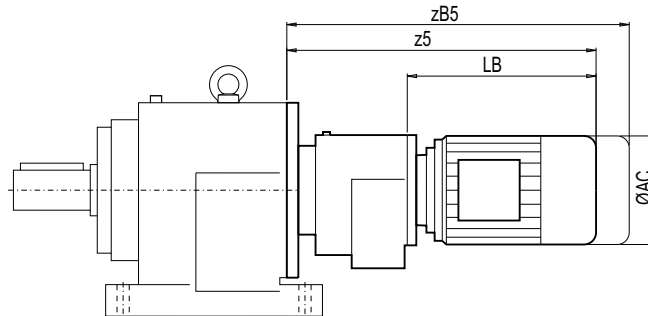


Gearbox	Motor	AC	z5	zB5	LB
Z.38-Z28	LA71	139.0	363.0	418.0	202.5
	LA71Z	139.0	382.0	437.0	221.5
	LA80	156.5	465.0	528.5	304.5
	LA80Z	156.5	487.5	551.0	327.0
	LA90S/L	174.0	460.0	531.0	299.5
	LA90ZL	174.0	505.0	576.0	344.5
	LA100L	195.0	542.0	623.0	381.5
	LA100ZL	195.0	612.0	693.0	451.5
Z.38-D28	LA71	139.0	363.0	418.0	202.5
	LA71Z	139.0	382.0	437.0	221.5
	LA80	156.5	465.0	528.5	304.5
	LA80Z	156.5	487.5	551.0	327.0
	LA90S/L	174.0	460.0	531.0	299.5
	LA90ZL	174.0	505.0	576.0	344.5
D.48-Z28	LA71	139.0	374.5	429.5	202.5
	LA71Z	139.0	393.5	448.5	221.5
	LA80	156.5	476.5	540.0	304.5
	LA80Z	156.5	499.0	562.5	327.0
	LA90S/L	174.0	471.5	542.5	299.5
	LA90ZL	174.0	516.5	587.5	344.5
	LA100L	195.0	553.5	634.5	381.5
	LA100ZL	195.0	623.5	704.5	451.5
D.48-D28	LA71	139.0	374.5	429.5	202.5
	LA71Z	139.0	393.5	448.5	221.5
	LA80	156.5	476.5	540.0	304.5
	LA80Z	156.5	499.0	562.5	327.0
	LA90S/L	174.0	471.5	542.5	299.5
	LA90ZL	174.0	516.5	587.5	344.5
D.68-Z28	LA71	139.0	370.0	425.0	202.5
	LA71Z	139.0	389.0	444.0	221.5
	LA80	156.5	472.0	535.5	304.5
	LA80Z	156.5	494.5	558.0	327.0
	LA90S/L	174.0	467.0	538.0	299.5
	LA90ZL	174.0	512.0	583.0	344.5
	LA100L	195.0	549.0	630.0	381.5
	LA100ZL	195.0	619.0	700.0	451.5

Gearbox	Motor	AC	z5	zB5	LB
D.68-D28	LA71	139.0	370.0	425.0	202.5
	LA71Z	139.0	389.0	444.0	221.5
	LA80	156.5	472.0	535.5	304.5
	LA80Z	156.5	494.5	558.0	327.0
	LA90S/L	174.0	467.0	538.0	299.5
	LA90ZL	174.0	512.0	583.0	344.5
D.88-Z28	LA71	139.0	361.5	416.5	202.5
	LA71Z	139.0	380.5	435.5	221.5
	LA80	156.5	463.5	527.0	304.5
	LA80Z	156.5	486.0	549.5	327.0
	LA90S/L	174.0	458.5	529.5	299.5
	LA90ZL	174.0	503.5	574.5	344.5
	LA100L	195.0	540.5	621.5	381.5
	LA100ZL	195.0	610.5	691.5	451.5
D.88-D28	LA71	139.0	361.5	416.5	202.5
	LA71Z	139.0	380.5	435.5	221.5
	LA80	156.5	463.5	527.0	304.5
	LA80Z	156.5	486.0	549.5	327.0
	LA90S/L	174.0	458.5	529.5	299.5
	LA90ZL	174.0	503.5	574.5	344.5
D.108-Z38	LA71 ¹⁾	139.0	484.5	539.5	258.5
	LA71Z ¹⁾	139.0	503.5	558.5	277.5
	LA80 ¹⁾	156.5	521.5	585.0	295.5
	LA80Z ¹⁾	156.5	544.0	607.5	318.0
	LA90S/L ¹⁾	174.0	552.5	623.5	326.5
	LA90ZL ¹⁾	174.0	597.5	668.5	371.5
	LA100L ¹⁾	195.0	598.5	679.5	372.5
	LA100ZL ¹⁾	195.0	668.5	749.5	442.5
	LA112M ¹⁾	219.0	628.0	709.0	402.0
	LA112ZM ¹⁾	219.0	656.0	737.0	430.0
	LA71 ²⁾	139.0	496.0	551.0	258.5
	LA71Z ²⁾	139.0	515.0	570.0	277.5
	LA80 ²⁾	156.5	533.0	596.5	295.5
	LA80Z ²⁾	156.5	555.5	619.0	318.0
	LA90S/L ²⁾	174.0	564.0	635.0	326.5
	LA90ZL ²⁾	174.0	609.0	680.0	371.5
	LA100L ²⁾	195.0	610.0	691.0	372.5
	LA100ZL ²⁾	195.0	680.0	761.0	442.5
	LA112M ²⁾	219.0	639.5	720.5	402.0
	LA112ZM ²⁾	219.0	667.5	748.5	430.0

1) $i_{tot} \geq 3797$ 2) $i_{tot} < 3797$

Helical tandem geared motors (continued)



2

Gearbox	Motor	AC	z5	zB5	LB
D.108-D38	LA71	139.0	499.5	554.5	273.5
	LA71Z	139.0	518.5	573.5	292.5
	LA80	156.5	536.5	600.0	310.5
	LA80Z	156.5	559.0	622.5	333.0
	LA90S/L	174.0	567.5	638.5	341.5
	LA90ZL	174.0	612.5	683.5	386.5
D.128-Z38	LA71	139.0	488.0	543.0	258.5
	LA71Z	139.0	507.0	562.0	277.5
	LA80	156.5	525.0	588.5	295.5
	LA80Z	156.5	547.5	611.0	318.0
	LA90S/L	174.0	556.0	627.0	326.5
	LA90ZL	174.0	601.0	672.0	371.5
	LA100L	195.0	602.0	683.0	372.5
	LA100ZL	195.0	672.0	753.0	442.5
	LA112M	219.0	631.5	712.5	402.0
	LA112ZM	219.0	659.5	740.5	430.0
D.128-D38	LA71	139.0	503.0	558.0	273.5
	LA71Z	139.0	522.0	577.0	292.5
	LA80	156.5	540.0	603.5	310.5
	LA80Z	156.5	562.5	626.0	333.0
	LA90S/L	174.0	571.0	642.0	341.5
	LA90ZL	174.0	616.0	687.0	386.5
D.128-Z48	LA71	139.0	555.5	610.5	253.0
	LA71Z	139.0	574.5	629.5	272.0
	LA80	156.5	592.5	656.0	290.0
	LA80Z	156.5	615.0	678.5	312.5
	LA90S/L	174.0	623.5	694.5	321.0
	LA90ZL	174.0	668.5	739.5	366.0
	LA100L	195.0	669.5	750.5	367.0
	LA100ZL	195.0	739.5	820.5	437.0
	LA112M	219.0	698.5	779.5	396.0
	LA112ZM	219.0	726.5	807.5	424.0
	LA132S/M	259.0	760.5	862.5	458.0
	LA132ZM	259.0	806.5	908.5	504.0
D.148-Z38	LA71	139.0	485.0	540.0	258.5
	LA71Z	139.0	504.0	559.0	277.5
	LA80	156.5	522.0	585.5	295.5
	LA80Z	156.5	544.5	608.0	318.0

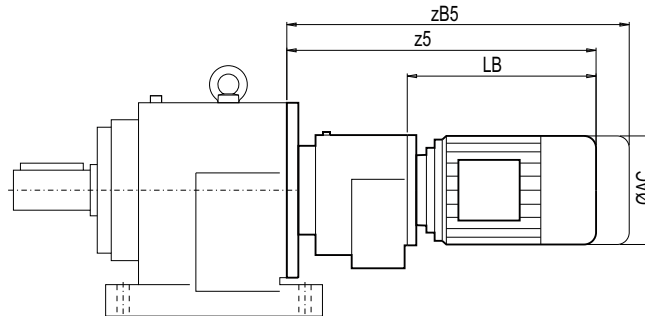
Gearbox	Motor	AC	z5	zB5	LB
D.148-Z38	LA90S/L	174.0	553.0	624.0	326.5
	LA90ZL	174.0	598.0	669.0	371.5
	LA100L	195.0	599.0	680.0	372.5
	LA100ZL	195.0	669.0	750.0	442.5
	LA112M	219.0	628.5	709.5	402.0
	LA112ZM	219.0	656.5	737.5	430.0
D.148-D38	LA71	139.0	500.0	555.0	273.5
	LA71Z	139.0	519.0	574.0	292.5
	LA80	156.5	537.0	600.5	310.5
	LA80Z	156.5	559.5	623.0	333.0
	LA90S/L	174.0	568.0	639.0	341.5
	LA90ZL	174.0	613.0	684.0	386.5
D.148-Z48	LA71	139.0	551.5	606.5	253.0
	LA71Z	139.0	570.5	625.5	272.0
	LA80	156.5	588.5	652.0	290.0
	LA80Z	156.5	611.0	674.5	312.5
	LA90S/L	174.0	619.5	690.5	321.0
	LA90ZL	174.0	664.5	735.5	366.0
	LA100L	195.0	665.5	746.5	367.0
	LA100ZL	195.0	735.5	816.5	437.0
	LA112M	219.0	694.5	775.5	396.0
	LA112ZM	219.0	722.5	803.5	424.0
D.168-Z48	LA132S/M	259.0	756.5	858.5	458.0
	LA132ZM	259.0	802.5	904.5	504.0
	LA71	139.0	540.0	595.0	253.0
	LA71Z	139.0	559.0	614.0	272.0
D.168-Z48	LA80	156.5	577.0	640.5	290.0
	LA80Z	156.5	599.5	663.0	312.5
	LA90S/L	174.0	608.0	679.0	321.0
	LA90ZL	174.0	653.0	724.0	366.0
	LA100L	195.0	654.0	735.0	367.0
	LA100ZL	195.0	724.0	805.0	437.0
	LA112M	219.0	683.0	764.0	396.0
	LA112ZM	219.0	711.0	792.0	424.0
	LA132S/M	259.0	745.0	847.0	458.0
	LA132ZM	259.0	791.0	893.0	504.0

MOTEX Geared Motors

Helical geared motors

Dimensions

Helical tandem geared motors (continued)

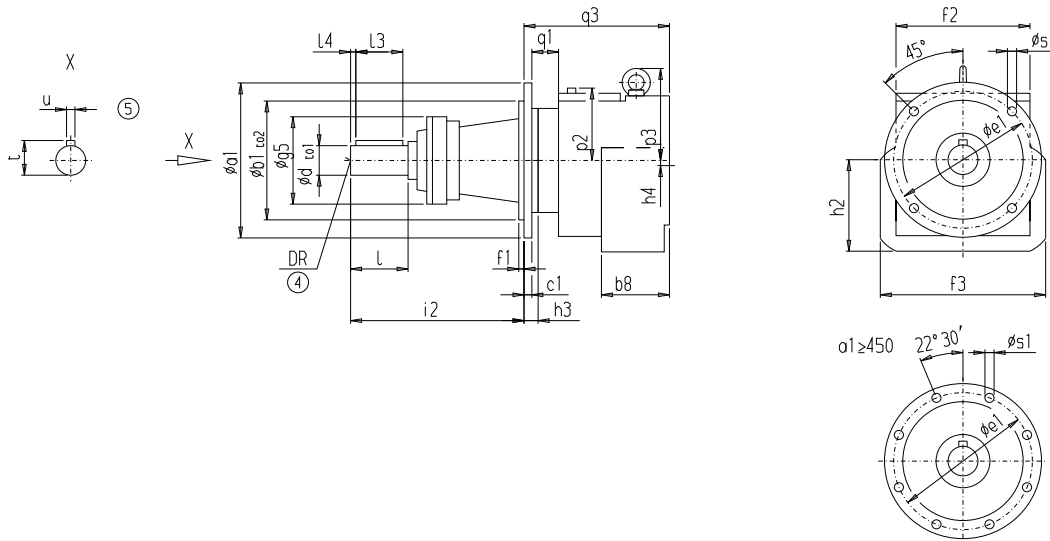


Gearbox	Motor	AC	z5	zB5	LB
D.168-D48	LA71	139.0	557.0	612.0	270.0
	LA71Z	139.0	576.0	631.0	289.0
	LA80	156.5	594.0	657.5	307.0
	LA80Z	156.5	616.5	680.0	329.5
	LA90S	174.0	625.0	696.0	338.0
	LA90L	174.0	625.0	696.0	338.0
	LA90ZL	174.0	670.0	741.0	383.0
	LA100L	195.0	671.0	752.0	384.0
	LA100ZL	195.0	741.0	822.0	454.0
	LA100ZL	195.0	741.0	822.0	454.0
D.168-Z68	LA71	139.0	626.0	681.0	247.0
	LA71Z	139.0	645.0	700.0	266.0
	LA80	156.5	663.0	726.5	284.0
	LA80Z	156.5	685.5	749.0	306.5
	LA90S/L	174.0	694.0	765.0	315.0
	LA90ZL	174.0	739.0	810.0	360.0
	LA100L	195.0	740.0	821.0	361.0
	LA100ZL	195.0	810.0	891.0	431.0
	LA132S/M	259.0	827.0	929.0	448.0
	LA132ZM	259.0	873.0	975.0	494.0
	LA160M/L	313.5	929.5	1 048.0	550.5
	LA160ZL	313.5	977.5	1 096.0	598.5
D.188-Z48	LA71	139.0	499.0	554.0	253.0
	LA71Z	139.0	518.0	573.0	272.0
	LA80	156.5	536.0	599.5	290.0
	LA80Z	156.5	558.5	622.0	312.5
	LA90S/L	174.0	567.0	638.0	321.0
	LA90ZL	174.0	612.0	683.0	366.0
	LA100L	195.0	613.0	694.0	367.0
	LA100ZL	195.0	683.0	764.0	437.0
	LA112M	219.0	642.0	723.0	396.0
	LA112ZM	219.0	670.0	751.0	424.0
	LA132S/M	259.0	704.0	806.0	458.0
	LA132ZM	259.0	750.0	852.0	504.0

Gearbox	Motor	AC	z5	zB5	LB
D.188-D48	LA71	139.0	516.0	571.0	270.0
	LA71Z	139.0	535.0	590.0	289.0
	LA80	156.5	553.0	616.5	307.0
	LA80Z	156.5	575.5	639.0	329.5
	LA90S/L	174.0	584.0	655.0	338.0
	LA90ZL	174.0	629.0	700.0	383.0
	LA100L	195.0	630.0	711.0	384.0
	LA100ZL	195.0	700.0	781.0	454.0
	LA100ZL	195.0	700.0	781.0	454.0
	LA100ZL	195.0	700.0	781.0	454.0
D.188-Z68	LA71	139.0	585.0	640.0	247.0
	LA71Z	139.0	604.0	659.0	266.0
	LA80	156.5	622.0	685.5	284.0
	LA80Z	156.5	644.5	708.0	306.5
	LA90S/L	174.0	653.0	724.0	315.0
	LA90ZL	174.0	698.0	769.0	360.0
	LA100L	195.0	699.0	780.0	361.0
	LA100ZL	195.0	769.0	850.0	431.0
	LA132S/M	259.0	786.0	888.0	448.0
	LA132ZM	259.0	832.0	934.0	494.0
	LA160M/L	313.5	888.5	1 007.0	550.5
	LA160ZL	313.5	936.5	1 055.0	598.5

Gearbox DR/ZR68-168 (3- / 2-stage) with agitator flange

DZZ011



Gearbox	p2	p3	h2	b8	q3	f3	f2	h4	Additional weight ¹⁾
DR/ZR68	109.0	149	144.0	91.5	248	263	206	0	24
DR/ZR88	134.0	181	182.0	129.0	306	332	260	0	46
DR/ZR108	177.0	228	219.5	126.5	355	410	326	0	82
DR/ZR128	194.0	263	250.0	146.0	422	462	364	0	85
DR/ZR148	190.5	270	317.0	160.0	459	510	416	37	94
DR/ZR168	248.0	325	358.0	188.5	539	580	470	42	248

Gearbox	a1	b1	to2	c1	e1	f1	q1	s1	g5	h3	d	to1	l	l4	l3	t	u	DR	i2
DR/ZR68	350	250	h6	18	300	7	79	17.5	165	57	50	k6	100	10.0	80	53.5	14	M16x36	300
DR/ZR88	350	250	h6	18	300	7	92	17.5	185	62	60	m6	120	10.0	100	64.0	18	M20x42	360
DR/ZR108	450	350	h6	22	400	7	78	17.5	210	72	70	m6	140	7.5	125	74.5	20	M20x42	420
DR/ZR128	550	450	h6	25	500	8	101	17.5	252	81	80	m6	170	20.0	125	85.0	22	M20x42	500
DR/ZR148	550	450	h6	25	500	8	113	17.5	252	81	100	m6	210	15.0	180	106	28	M24x50	600
DR/ZR168	660	550	h6	28	600	8	113	22.0	270	86	110	m6	210	15.0	180	116	28	M24x50	660

1) To calculate the overall weight of the drive, add the additional weight to the weight of the DZ/ZZ gearbox, flange-mounted design.
For example: weight of DZ88-M112M (97 kg) + additional weight DR88 (46 kg) = total weight of DR88-M112M (143 kg).

MOTOX Geared Motors

Helical geared motors

Dimensions

Pin holes

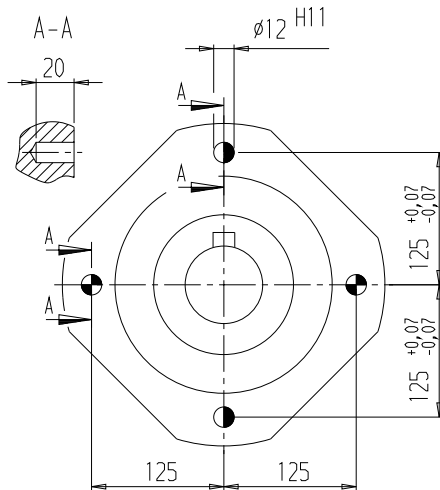
The customer's interface can be pinned to the housing flange (C-type) for sizes EZ128 to EZ148 and DZ/ZZ108 to DZ/ZZ188.

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

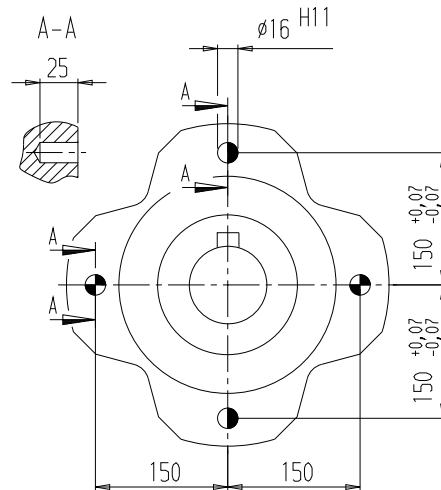
If an additional fuse, e. g. for high shock loads, is required, the existing pin holes can be used.

The gearbox and the machine can be drilled and pinned together. To do so, the provided dimensions must be observed.

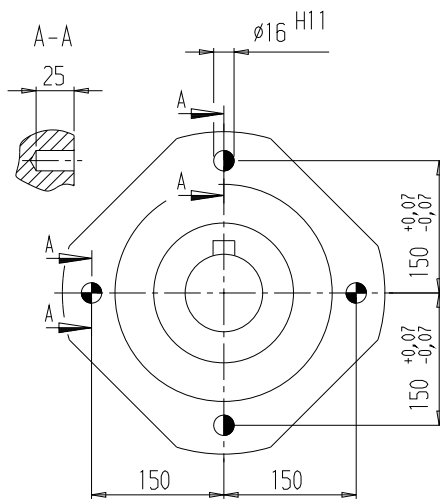
EZ128, DZ/ZZ108



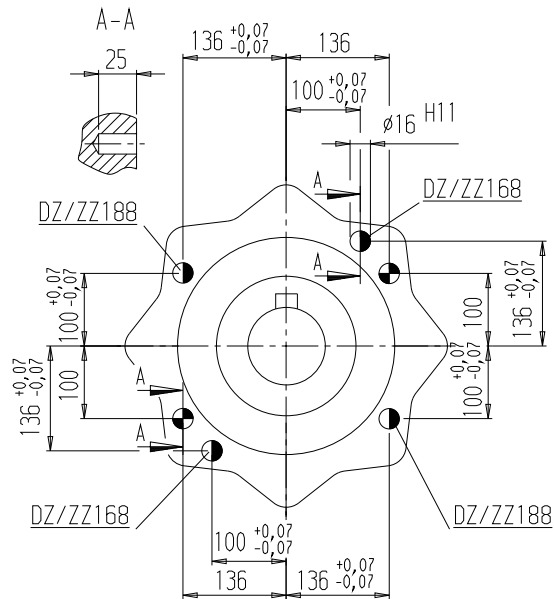
EZ148, DZ/ZZ128



DZ/ZZ148



DZ/ZZ168, DZ/ZZ188



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