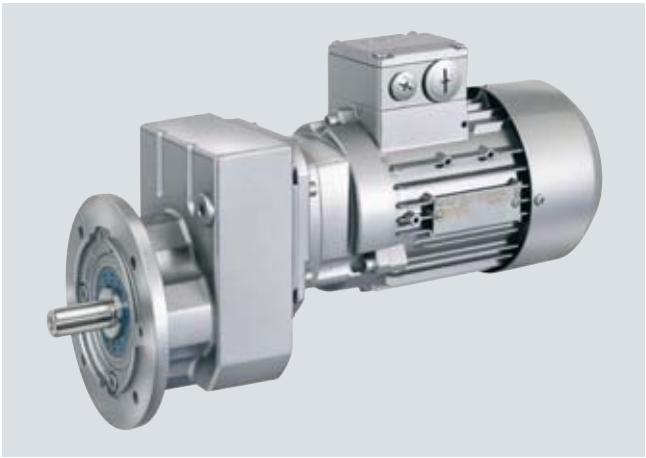
Helical geared motors

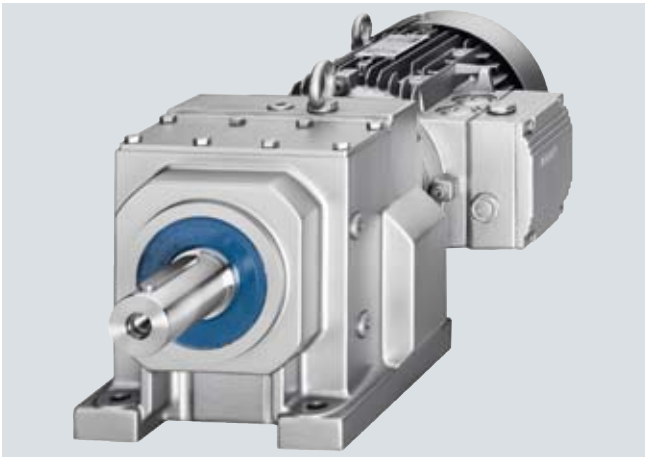
2

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

Type of intermediate gearbox

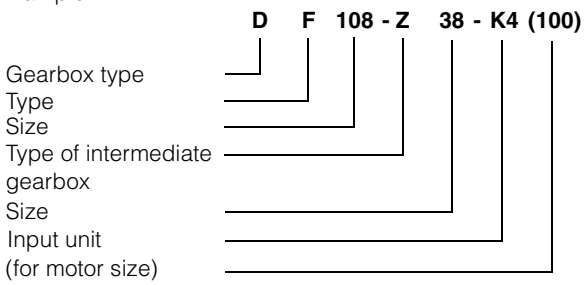
(-) Helical gearboxes

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:



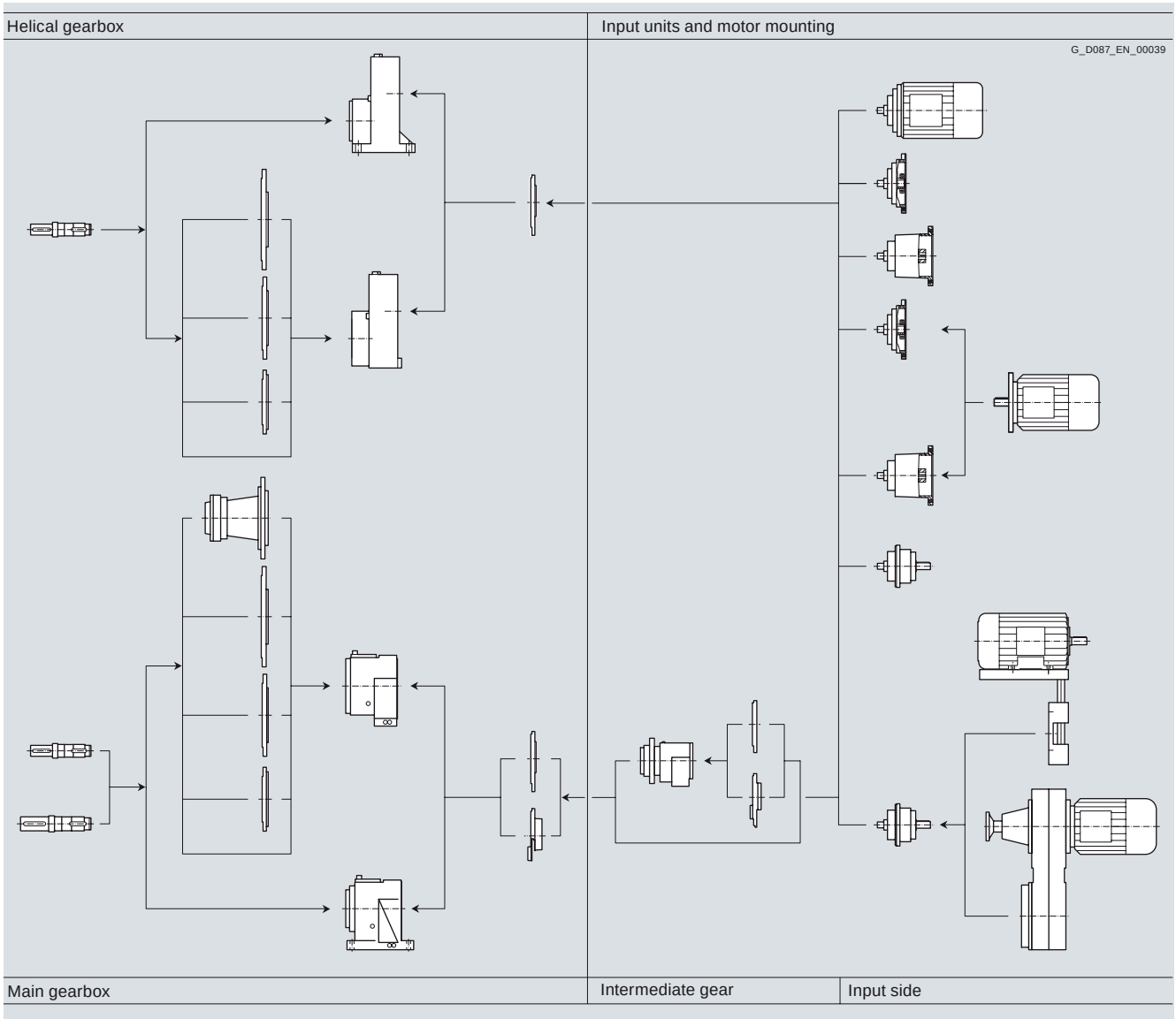
The series currently comprises 11 sizes for D and Z gearboxes and 7 sizes for E gearboxes.

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.

Orientation

Modular system



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	F_{Rperm} in N with x = l/2 for output speeds n_2 in rpm: Direction of rotation when viewing the output shaft	≤ 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	F_{Rperm} in N with x = l/2 for output speeds n_2 in rpm: Direction of rotation when viewing the output shaft	≤ 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.

2

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	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.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.

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}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.09 (50 Hz)	**D.48-LA71M8**								
0.11 (60 Hz)	**3.0**	**3.6**	285	1.6	208.77	★	**2KJ1203 - ■CE13 - ■■S1**	**P02**	27
	3.4	**4.1**	253	1.8	185.66		**2KJ1203 - ■CE13 - ■■R1**	**P02**	27
	3.9	**4.7**	220	2.0	161.05	★	**2KJ1203 - ■CE13 - ■■Q1**	**P02**	27
	D.38-LA71M8								
	3.3	**4.0**	262	0.84	191.75	★	**2KJ1202 - ■CE13 - ■■S1**	**P02**	18
	3.7	**4.4**	232	0.95	170.24		**2KJ1202 - ■CE13 - ■■R1**	**P02**	18
	4.2	**5.0**	204	1.10	149.26	★	**2KJ1202 - ■CE13 - ■■Q1**	**P02**	18
	D.38-LA71B6								
	4.6	**5.5**	186	1.2	191.75	★	**2KJ1202 - ■CB13 - ■■S1**	**P01**	18
	5.2	**6.2**	165	1.3	170.24		**2KJ1202 - ■CB13 - ■■R1**	**P01**	18
	5.9	**7.1**	145	1.5	149.26	★	**2KJ1202 - ■CB13 - ■■Q1**	**P01**	18
	6.6	**7.9**	130	1.7	133.57		**2KJ1202 - ■CB13 - ■■P1**	**P01**	18
0.12 (50 Hz)	**D.188-D48-LA71B4**								
0.14 (60 Hz)	**0.05**	**0.06**	15 788	1.3	28 260		**2KJ1236 - ■CB13 - ■■J1**		604
	0.06	**0.07**	12 656	1.6	22 654		**2KJ1236 - ■CB13 - ■■G1**		604
	0.06	**0.07**	13 965	1.4	24 996	★	**2KJ1236 - ■CB13 - ■■H1**		604
	0.07	**0.08**	11 172	1.8	19 997	★	**2KJ1236 - ■CB13 - ■■F1**		604
	0.08	**0.10**	10 078	2.0	18 039		**2KJ1236 - ■CB13 - ■■E1**		604
	D.168-D48-LA71B4								
	0.05	**0.06**	15 652	0.89	28 017	★	**2KJ1234 - ■CB13 - ■■F1**		460
	0.06	**0.07**	12 807	1.1	22 923	★	**2KJ1234 - ■CB13 - ■■D1**		460
	0.06	**0.07**	14 120	0.99	25 274		**2KJ1234 - ■CB13 - ■■E1**		460
	0.07	**0.08**	11 668	1.2	20 886		**2KJ1234 - ■CB13 - ■■C1**		460
	D.168-Z48-LA71B4								
	0.08	**0.10**	10 003	1.4	17 519		**2KJ1232 - ■CB13 - ■■A2**		459
	0.09	**0.11**	8 852	1.6	15 504	★	**2KJ1232 - ■CB13 - ■■X1**		459
	0.10	**0.12**	8 047	1.7	14 094		**2KJ1232 - ■CB13 - ■■W1**		459
	0.11	**0.13**	7 229	1.9	12 661	★	**2KJ1232 - ■CB13 - ■■V1**		459
	D.148-D38-LA71B4								
	0.08	**0.1**	9 926	0.81	17767		**2KJ1230 - ■CB13 - ■■C1**		284
	D.148-Z38-LA71B4								
	0.09	**0.11**	8 467	0.94	14 830		**2KJ1228 - ■CB13 - ■■X1**		283
	0.11	**0.13**	7 530	1.1	13 188		**2KJ1228 - ■CB13 - ■■W1**		283
	0.12	**0.14**	6 532	1.2	11 440		**2KJ1228 - ■CB13 - ■■V1**		283
	0.13	**0.16**	6 103	1.3	10 689		**2KJ1228 - ■CB13 - ■■U1**		283
	0.15	**0.18**	5 368	1.5	9 401		**2KJ1228 - ■CB13 - ■■T1**		283
	0.17	**0.20**	4 701	1.7	8 233		**2KJ1228 - ■CB13 - ■■S1**		283

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.12 (50 Hz)	**D.148-Z38-LA71B4**								
0.14 (60 Hz)	**0.19**	**0.23**	4 158	1.9	7 282		**2KJ1228 - ■CB13 - ■■R1**		283
	D.128-Z38-LA71B4								
	0.13	**0.16**	6 007	0.85	10 521		**2KJ1225 - ■CB13 - ■■W1**		198
	0.15	**0.18**	5 211	0.98	9 127	★	**2KJ1225 - ■CB13 - ■■V1**		198
	0.16	**0.19**	4 869	1.0	8 528		**2KJ1225 - ■CB13 - ■■U1**		198
	0.19	**0.23**	4 282	1.2	7 500	★	**2KJ1225 - ■CB13 - ■■T1**		198
	0.21	**0.25**	3 751	1.4	6 569		**2KJ1225 - ■CB13 - ■■S1**		198
	0.24	**0.29**	3 317	1.5	5 810	★	**2KJ1225 - ■CB13 - ■■R1**		198
	0.27	**0.32**	3 007	1.7	5 266		**2KJ1225 - ■CB13 - ■■Q1**		198
	0.3	**0.36**	2 654	1.9	4 648	★	**2KJ1225 - ■CB13 - ■■P1**		198
	D.108-Z38-LA71B4								
	0.22	**0.26**	3 556	0.87	6 228		**2KJ1223 - ■CB13 - ■■F2**		127
	0.25	**0.30**	3 208	0.97	5 618		**2KJ1223 - ■CB13 - ■■E2**		127
	0.28	**0.34**	2 910	1.1	5 096		**2KJ1223 - ■CB13 - ■■D2**		127
	0.30	**0.36**	2 651	1.2	4 643		**2KJ1223 - ■CB13 - ■■C2**		127
	0.33	**0.40**	2 424	1.3	4 246		**2KJ1223 - ■CB13 - ■■B2**		127
	0.37	**0.44**	2 168	1.4	3 797		**2KJ1223 - ■CB13 - ■■A2**		127
	0.39	**0.47**	2 069	1.5	3 624		**2KJ1223 - ■CB13 - ■■X1**		127
	0.43	**0.52**	1 840	1.7	3 223		**2KJ1223 - ■CB13 - ■■W1**		127
	0.50	**0.60**	1 596	1.9	2 796		**2KJ1223 - ■CB13 - ■■V1**		127
	D.88-Z28-LA71B4								
	0.39	**0.47**	2 041	0.82	3 574		**2KJ1218 - ■CB13 - ■■A2**		76
	0.45	**0.54**	1 778	0.94	3 114	★	**2KJ1218 - ■CB13 - ■■X1**		76
	0.5	**0.6**	1 597	1.1	2 797		**2KJ1218 - ■CB13 - ■■W1**		76
	0.55	**0.66**	1 442	1.2	2 525	★	**2KJ1218 - ■CB13 - ■■V1**		76
	0.61	**0.73**	1 307	1.3	2 290		**2KJ1218 - ■CB13 - ■■U1**		76
	0.67	**0.8**	1 190	1.4	2 084	★	**2KJ1218 - ■CB13 - ■■T1**		76
	0.76	**0.91**	1 052	1.6	1 842		**2KJ1218 - ■CB13 - ■■S1**		76
	0.82	**0.98**	971	1.7	1 701	★	**2KJ1218 - ■CB13 - ■■R1**		76
	0.96	**1.2**	836	2.0	1 465		**2KJ1218 - ■CB13 - ■■Q1**		76
	D.68-Z28-LA71B4								
	0.84	**1.0**	955	0.84	1 672		**2KJ1214 - ■CB13 - ■■S1**		46
	0.91	**1.1**	882	0.91	1 544	★	**2KJ1214 - ■CB13 - ■■R1**		46
	1.1	**1.3**	759	1.1	1 329		**2KJ1214 - ■CB13 - ■■Q1**		46
	1.2	**1.4**	690	1.2	1 208	★	**2KJ1214 - ■CB13 - ■■P1**		46
	1.3	**1.6**	627	1.3	1 098	★	**2KJ1214 - ■CB13 - ■■N1**		46
	1.4	**1.7**	569	1.4	996		**2KJ1214 - ■CB13 - ■■M1**		46
	1.5	**1.8**	517	1.5	906	★	**2KJ1214 - ■CB13 - ■■L1**		46
	1.7	**2.0**	457	1.7	801		**2KJ1214 - ■CB13 - ■■K1**		46
	1.9	**2.3**	423	1.9	740	★	**2KJ1214 - ■CB13 - ■■J1**		46
	D.68-LA71MB8								
	2.3	**2.8**	499	1.6	281.01		**2KJ1204 - ■CF13 - ■■U1**	**P02**	46
	2.6	**3.1**	442	1.8	248.68	★	**2KJ1204 - ■CF13 - ■■T1**	**P02**	46

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.12 (50 Hz) 0.14 (60 Hz)	**D.68-LA71MB8**								
	2.9	**3.5**	402	2.0	226.07		**2KJ1204 - ■CF13 - ■■S1**	**P02**	46
	D.48-Z28-LA71B4								
	1.6	**1.9**	505	0.89	885		**2KJ1212 - ■CB13 - ■■Q1**		29
	1.7	**2.0**	460	0.98	805	★	**2KJ1212 - ■CB13 - ■■P1**		29
	1.9	**2.3**	417	1.1	731	★	**2KJ1212 - ■CB13 - ■■N1**		29
	2.1	**2.5**	379	1.2	663		**2KJ1212 - ■CB13 - ■■M1**		29
	2.3	**2.8**	344	1.3	603	★	**2KJ1212 - ■CB13 - ■■L1**		29
	2.6	**3.1**	305	1.5	534		**2KJ1212 - ■CB13 - ■■K1**		29
	2.8	**3.4**	281	1.6	493	★	**2KJ1212 - ■CB13 - ■■J1**		29
	D.48-LA71MB8								
	3.1	**3.7**	371	1.2	208.77	★	**2KJ1203 - ■CF13 - ■■S1**	**P02**	27
	3.5	**4.2**	330	1.4	185.66		**2KJ1203 - ■CF13 - ■■R1**	**P02**	27
	D.48-LA71C6								
	4.1	**4.9**	278	1.6	208.77	★	**2KJ1203 - ■CC13 - ■■S1**	**P01**	27
	4.6	**5.5**	247	1.8	185.66		**2KJ1203 - ■CC13 - ■■R1**	**P01**	27
	5.3	**6.4**	215	2.1	161.05	★	**2KJ1203 - ■CC13 - ■■Q1**	**P01**	27
	Z.38-Z28-LA71B4								
	3	**3.6**	268	0.82	464	★	**2KJ1112 - ■CB13 - ■■H1**		20
	D.38-LA71MB8								
	4.3	**5.2**	265	0.83	149.26	★	**2KJ1202 - ■CF13 - ■■Q1**	**P02**	18
	D.38-LA71C6								
	4.5	**5.4**	256	0.86	191.75	★	**2KJ1202 - ■CC13 - ■■S1**	**P01**	18
	5.1	**6.1**	227	0.97	170.24		**2KJ1202 - ■CC13 - ■■R1**	**P01**	18
	5.8	**7.0**	199	1.1	149.26	★	**2KJ1202 - ■CC13 - ■■Q1**	**P01**	18
	6.4	**7.7**	178	1.2	133.57		**2KJ1202 - ■CC13 - ■■P1**	**P01**	18
	D.38-LA71B4								
	7.3	**8.8**	157	1.4	191.75	★	**2KJ1202 - ■CB13 - ■■S1**		18
	8.2	**9.8**	139	1.6	170.24		**2KJ1202 - ■CB13 - ■■R1**		18
	9.4	**11.3**	122	1.8	149.26	★	**2KJ1202 - ■CB13 - ■■Q1**		18
	10.5	**12.6**	109	2.0	133.57		**2KJ1202 - ■CB13 - ■■P1**		18
	D.28-LA71B4								
	6.7	**8.0**	170	0.82	207.96	★	**2KJ1201 - ■CB13 - ■■M1**		10
	7.8	**9.4**	146	0.96	178.66		**2KJ1201 - ■CB13 - ■■L1**		10
	8.5	**10.2**	135	1.0	164.48	★	**2KJ1201 - ■CB13 - ■■K1**		10
	9.4	**11.3**	122	1.1	149.53		**2KJ1201 - ■CB13 - ■■J1**		10
	10.6	**12.7**	108	1.3	132.35	★	**2KJ1201 - ■CB13 - ■■H1**		10
	12.6	**15.1**	91	1.5	110.86		**2KJ1201 - ■CB13 - ■■G1**		10
	14.8	**17.8**	77	1.8	94.52	★	**2KJ1201 - ■CB13 - ■■F1**		10
	17.4	**21**	66	2.1	80.34	★	**2KJ1201 - ■CB13 - ■■E1**		10
	20	**24**	57	2.4	69.82		**2KJ1201 - ■CB13 - ■■D1**		10
	23	**28**	50	2.8	60.77	★	**2KJ1201 - ■CB13 - ■■C1**		10
	Z.28-LA71B4								
	27	**32**	42	3.3	51.35		**2KJ1101 - ■CB13 - ■■C2**		10

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.12 (50 Hz)	**Z.28-LA71B4**							
0.14 (60 Hz)	**32**	**38**	35	3.9	43.30 ★	**2KJ1101 - ■CB13 - ■■B2**		10
	36	**43**	32	4.4	38.45	**2KJ1101 - ■CB13 - ■■A2**		10
	42	**50**	28	5.1	33.71 ★	**2KJ1101 - ■CB13 - ■■X1**		10
	46	**55**	25	5.7	30.16	**2KJ1101 - ■CB13 - ■■W1**		10
	52	**62**	22	6.4	26.77 ★	**2KJ1101 - ■CB13 - ■■V1**		10
	60	**72**	19	7.3	23.46	**2KJ1101 - ■CB13 - ■■U1**		10
	68	**82**	17	8.3	20.63 ★	**2KJ1101 - ■CB13 - ■■T1**		10
	75	**90**	15	9.2	18.63	**2KJ1101 - ■CB13 - ■■S1**		10
	86	**103**	13	10.5	16.24 ★	**2KJ1101 - ■CB13 - ■■R1**		10
	96	**115**	12	11.7	14.58	**2KJ1101 - ■CB13 - ■■Q1**		10
	106	**127**	11	13.0	13.17 ★	**2KJ1101 - ■CB13 - ■■P1**		10
	117	**140**	9.8	14.3	11.94	**2KJ1101 - ■CB13 - ■■N1**		10
	D.18-LA71B4							
	10.2	**12.2**	112	0.80	136.71 ★	**2KJ1200 - ■CB13 - ■■L1**		9
	11.3	**13.6**	102	0.88	124.29	**2KJ1200 - ■CB13 - ■■K1**		9
	12.7	**15.2**	90	1.0	110.01 ★	**2KJ1200 - ■CB13 - ■■J1**		9
	15.2	**18.2**	75	1.2	92.14	**2KJ1200 - ■CB13 - ■■H1**		9
	17.8	**21**	64	1.4	78.56 ★	**2KJ1200 - ■CB13 - ■■G1**		9
	21	**25**	55	1.6	66.78 ★	**2KJ1200 - ■CB13 - ■■F1**		9
	24	**29**	48	1.9	58.03	**2KJ1200 - ■CB13 - ■■E1**		9
	28	**34**	41	2.2	50.51 ★	**2KJ1200 - ■CB13 - ■■D1**		9
	Z.18-LA71B4							
	32	**38**	35	2.5	43.15	**2KJ1100 - ■CB13 - ■■U1**		9
	38	**46**	30	3.0	37.23 ★	**2KJ1100 - ■CB13 - ■■T1**		9
	44	**53**	26	3.4	31.98	**2KJ1100 - ■CB13 - ■■S1**		9
	48	**58**	24	3.7	29.45 ★	**2KJ1100 - ■CB13 - ■■R1**		9
	52	**62**	22	4.1	26.77	**2KJ1100 - ■CB13 - ■■Q1**		9
	59	**71**	19	4.6	23.69 ★	**2KJ1100 - ■CB13 - ■■P1**		9
	70	**84**	16	5.5	19.85	**2KJ1100 - ■CB13 - ■■N1**		9
	83	**100**	14	6.5	16.92 ★	**2KJ1100 - ■CB13 - ■■M1**		9
	97	**116**	12	7.6	14.38 ★	**2KJ1100 - ■CB13 - ■■L1**		9
	112	**134**	10	8.8	12.50	**2KJ1100 - ■CB13 - ■■K1**		9
	129	**155**	8.9	9.8	10.88 ★	**2KJ1100 - ■CB13 - ■■J1**		9
	143	**172**	8	10.3	9.81	**2KJ1100 - ■CB13 - ■■H1**		9
	162	**194**	7.1	11.3	8.66	**2KJ1100 - ■CB13 - ■■G1**		9
	189	**227**	6.1	9.1	7.42 ★	**2KJ1100 - ■CB13 - ■■F1**		9
	217	**260**	5.3	10.0	6.45	**2KJ1100 - ■CB13 - ■■E1**		9
	250	**300**	4.6	11.1	5.61 ★	**2KJ1100 - ■CB13 - ■■D1**		9
	277	**332**	4.1	11.8	5.06	**2KJ1100 - ■CB13 - ■■C1**		9
	313	**376**	3.7	13.4	4.47	**2KJ1100 - ■CB13 - ■■B1**		9
0.18 (50 Hz)	**D.188-D48-LA71C4**							
0.22 (60 Hz)	**0.06**	**0.07**	21 556	0.93	22 654	**2KJ1236 - ■CC13 - ■■G1**		604

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.18 (50 Hz)	**D.188-D48-LA71C4**								
0.22 (60 Hz)	**0.06**	**0.07**	23 784	0.84	24 996	★	**2KJ1236 - ■CC13 - ■■H1**		604
	0.07	**0.08**	19 027	1.1	19 997	★	**2KJ1236 - ■CC13 - ■■F1**		604
	0.08	**0.1**	15 568	1.3	16 361	★	**2KJ1236 - ■CC13 - ■■D1**		604
	0.08	**0.1**	17 164	1.2	18 039		**2KJ1236 - ■CC13 - ■■E1**		604
	0.09	**0.11**	14 184	1.4	14 907		**2KJ1236 - ■CC13 - ■■C1**		604
	D.188-Z48-LA71C4								
	0.11	**0.13**	12 159	1.6	12 504		**2KJ1235 - ■CC13 - ■■X1**		603
	0.12	**0.14**	10 761	1.9	11 066	★	**2KJ1235 - ■CC13 - ■■W1**		603
	D.168-Z48-LA71C4								
	0.08	**0.10**	17 036	0.82	17 519		**2KJ1232 - ■CC13 - ■■A2**		459
	0.09	**0.11**	15 077	0.93	15 504	★	**2KJ1232 - ■CC13 - ■■X1**		459
	0.10	**0.12**	13 705	1.0	14 094		**2KJ1232 - ■CC13 - ■■W1**		459
	0.11	**0.13**	12 312	1.1	12 661	★	**2KJ1232 - ■CC13 - ■■V1**		459
	0.13	**0.16**	10 554	1.3	10 853		**2KJ1232 - ■CC13 - ■■U1**		459
	0.14	**0.17**	9 548	1.5	9 819	★	**2KJ1232 - ■CC13 - ■■T1**		459
	0.15	**0.18**	8 814	1.6	9 064		**2KJ1232 - ■CC13 - ■■S1**		459
	0.17	**0.20**	7 664	1.8	7 881	★	**2KJ1232 - ■CC13 - ■■R1**		459
	0.19	**0.23**	6 959	2.0	7 156		**2KJ1232 - ■CC13 - ■■Q1**		459
	D.148-Z38-LA71C4								
	0.15	**0.18**	9 142	0.88	9 401		**2KJ1228 - ■CC13 - ■■T1**		283
	0.17	**0.20**	8 006	1.0	8 233		**2KJ1228 - ■CC13 - ■■S1**		283
	0.19	**0.23**	7 081	1.1	7 282		**2KJ1228 - ■CC13 - ■■R1**		283
	0.21	**0.25**	6 418	1.2	6 600		**2KJ1228 - ■CC13 - ■■Q1**		283
	0.24	**0.29**	5 665	1.4	5 826		**2KJ1228 - ■CC13 - ■■P1**		283
	0.26	**0.31**	5 111	1.6	5 256		**2KJ1228 - ■CC13 - ■■N1**		283
	0.29	**0.35**	4 636	1.7	4 767		**2KJ1228 - ■CC13 - ■■M1**		283
	0.32	**0.38**	4 223	1.9	4 343		**2KJ1228 - ■CC13 - ■■L1**		283
	D.128-Z38-LA71C4								
	0.21	**0.25**	6 388	0.8	6 569		**2KJ1225 - ■CC13 - ■■S1**		198
	0.24	**0.29**	5 650	0.9	5 810	★	**2KJ1225 - ■CC13 - ■■R1**		198
	0.26	**0.31**	5 121	1.0	5 266		**2KJ1225 - ■CC13 - ■■Q1**		198
	0.30	**0.36**	4 520	1.1	4 648	★	**2KJ1225 - ■CC13 - ■■P1**		198
	0.33	**0.40**	4 077	1.3	4 193		**2KJ1225 - ■CC13 - ■■N1**		198
	0.36	**0.43**	3 698	1.4	3 803	★	**2KJ1225 - ■CC13 - ■■M1**		198
	0.40	**0.48**	3 369	1.5	3 465		**2KJ1225 - ■CC13 - ■■L1**		198
	0.43	**0.52**	3 082	1.7	3 169	★	**2KJ1225 - ■CC13 - ■■K1**		198
	0.48	**0.58**	2 756	1.9	2 834		**2KJ1225 - ■CC13 - ■■J1**		198
	0.53	**0.64**	2 530	2.0	2 602	★	**2KJ1225 - ■CC13 - ■■H1**		198
	D.108-Z38-LA71C4								
	0.36	**0.43**	3 692	0.84	3 797		**2KJ1223 - ■CC13 - ■■A2**		127
	0.38	**0.46**	3 524	0.88	3 624		**2KJ1223 - ■CC13 - ■■X1**		127
	0.42	**0.50**	3 134	0.99	3 223		**2KJ1223 - ■CC13 - ■■W1**		127
	0.49	**0.59**	2 719	1.1	2 796		**2KJ1223 - ■CC13 - ■■V1**		127

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.18 (50 Hz)	**D.108-Z38-LA71C4**								
0.22 (60 Hz)	**0.52**	**0.62**	2 540	1.2	2 612		**2KJ1223 - ■CC13 - ■■U1**		127
	0.60	**0.72**	2 234	1.4	2 297		**2KJ1223 - ■CC13 - ■■T1**		127
	0.68	**0.82**	1 957	1.6	2 012		**2KJ1223 - ■CC13 - ■■S1**		127
	0.77	**0.92**	1 731	1.8	1 780		**2KJ1223 - ■CC13 - ■■R1**		127
	0.85	**1.00**	1 569	2.0	1 613		**2KJ1223 - ■CC13 - ■■Q1**		127
	D.88-Z28-LA71C4								
	0.66	**0.79**	2 027	0.83	2 084	★	**2KJ1218 - ■CC13 - ■■T1**		76
	0.74	**0.89**	1 791	0.94	1 842		**2KJ1218 - ■CC13 - ■■S1**		76
	0.80	**0.96**	1 654	1.0	1 701	★	**2KJ1218 - ■CC13 - ■■R1**		76
	0.94	**1.1**	1 425	1.2	1 465		**2KJ1218 - ■CC13 - ■■Q1**		76
	1.0	**1.2**	1 294	1.3	1 331	★	**2KJ1218 - ■CC13 - ■■P1**		76
	1.1	**1.3**	1 177	1.4	1 210	★	**2KJ1218 - ■CC13 - ■■N1**		76
	1.2	**1.4**	1 067	1.6	1 097		**2KJ1218 - ■CC13 - ■■M1**		76
	1.4	**1.7**	971	1.7	999	★	**2KJ1218 - ■CC13 - ■■L1**		76
	1.6	**1.9**	859	2.0	883		**2KJ1218 - ■CC13 - ■■K1**		76
	D.68-Z28-LA71C4								
	1.4	**1.7**	969	0.83	996		**2KJ1214 - ■CC13 - ■■M1**		46
	1.5	**1.8**	881	0.91	906	★	**2KJ1214 - ■CC13 - ■■L1**		46
	1.7	**2.0**	779	1.0	801		**2KJ1214 - ■CC13 - ■■K1**		46
	1.9	**2.3**	720	1.1	740	★	**2KJ1214 - ■CC13 - ■■J1**		46
	2.2	**2.6**	619	1.3	637		**2KJ1214 - ■CC13 - ■■H1**		46
	D.68-LA80S8								
	2.4	**2.9**	716	1.1	281.01		**2KJ1204 - ■DB13 - ■■U1**	**P02**	50
	2.7	**3.2**	633	1.3	248.68	★	**2KJ1204 - ■DB13 - ■■T1**	**P02**	50
	D.68-LA71S6								
	3.0	**3.6**	568	1.4	281.01		**2KJ1204 - ■CD13 - ■■U1**	**P01**	46
	3.4	**4.1**	503	1.6	248.68	★	**2KJ1204 - ■CD13 - ■■T1**	**P01**	46
	3.8	**4.6**	457	1.7	226.07		**2KJ1204 - ■CD13 - ■■S1**	**P01**	46
	4.2	**5.0**	411	1.9	203.09	★	**2KJ1204 - ■CD13 - ■■R1**	**P01**	46
	D.48-Z28-LA71C4								
	2.6	**3.1**	519	0.87	534		**2KJ1212 - ■CC13 - ■■K1**		29
	2.8	**3.4**	479	0.94	493	★	**2KJ1212 - ■CC13 - ■■J1**		29
	D.48-LA80S8								
	3.2	**3.8**	532	0.85	208.77	★	**2KJ1203 - ■DB13 - ■■S1**	**P02**	31
	3.6	**4.3**	473	0.95	185.66		**2KJ1203 - ■DB13 - ■■R1**	**P02**	31
	D.48-LA71S6								
	4.1	**4.9**	422	1.1	208.77	★	**2KJ1203 - ■CD13 - ■■S1**	**P01**	27
	4.6	**5.5**	375	1.2	185.66		**2KJ1203 - ■CD13 - ■■R1**	**P01**	27
	5.3	**6.4**	326	1.4	161.05	★	**2KJ1203 - ■CD13 - ■■Q1**	**P01**	27
	5.6	**6.7**	304	1.5	150.48		**2KJ1203 - ■CD13 - ■■P1**	**P01**	27
	D.48-LA71C4								
	6.6	**7.9**	262	1.7	208.77	★	**2KJ1203 - ■CC13 - ■■S1**		27
	7.4	**8.9**	233	1.9	185.66		**2KJ1203 - ■CC13 - ■■R1**		27

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.18 (50 Hz) 0.22 (60 Hz)	**D.38-LA71S6**							
	6.4	**7.7**	270	0.81	133.57	**2KJ1202 - ■CD13 - ■■P1**	**P01**	18
	D.38-LA71C4							
	7.1	**8.5**	241	0.91	191.75 ★	**2KJ1202 - ■CC13 - ■■S1**		18
	8.0	**9.6**	214	1.0	170.24	**2KJ1202 - ■CC13 - ■■R1**		18
	9.2	**11.0**	187	1.2	149.26 ★	**2KJ1202 - ■CC13 - ■■Q1**		18
	10.3	**12.4**	168	1.3	133.57	**2KJ1202 - ■CC13 - ■■P1**		18
	11.6	**13.9**	149	1.5	118.55 ★	**2KJ1202 - ■CC13 - ■■N1**		18
	13.2	**15.8**	130	1.7	103.89	**2KJ1202 - ■CC13 - ■■M1**		18
	15.0	**18.0**	115	1.9	91.34 ★	**2KJ1202 - ■CC13 - ■■L1**		18
	16.6	**19.9**	104	2.1	82.52	**2KJ1202 - ■CC13 - ■■K1**		18
	D.28-LA71C4							
	10.4	**12.5**	166	0.84	132.35 ★	**2KJ1201 - ■CC13 - ■■H1**		10
	12.4	**14.9**	139	1.0	110.86	**2KJ1201 - ■CC13 - ■■G1**		10
	14.5	**17.4**	119	1.2	94.52 ★	**2KJ1201 - ■CC13 - ■■F1**		10
	17.1	**21**	101	1.4	80.34 ★	**2KJ1201 - ■CC13 - ■■E1**		10
	19.6	**24**	88	1.6	69.82	**2KJ1201 - ■CC13 - ■■D1**		10
	22	**26**	76	1.8	60.77 ★	**2KJ1201 - ■CC13 - ■■C1**		10
	Z.28-LA71C4							
	27	**32**	64	2.2	51.35	**2KJ1101 - ■CC13 - ■■C2**		10
	32	**38**	54	2.6	43.30 ★	**2KJ1101 - ■CC13 - ■■B2**		10
	36	**43**	48	2.9	38.45	**2KJ1101 - ■CC13 - ■■A2**		10
	41	**49**	42	3.3	33.71 ★	**2KJ1101 - ■CC13 - ■■X1**		10
	45	**54**	38	3.7	30.16	**2KJ1101 - ■CC13 - ■■W1**		10
	51	**61**	34	4.2	26.77 ★	**2KJ1101 - ■CC13 - ■■V1**		10
	58	**70**	29	4.8	23.46	**2KJ1101 - ■CC13 - ■■U1**		10
	66	**79**	26	5.4	20.63 ★	**2KJ1101 - ■CC13 - ■■T1**		10
	74	**89**	23	6.0	18.63	**2KJ1101 - ■CC13 - ■■S1**		10
	84	**101**	20	6.9	16.24 ★	**2KJ1101 - ■CC13 - ■■R1**		10
	94	**113**	18	7.7	14.58	**2KJ1101 - ■CC13 - ■■Q1**		10
	104	**125**	16	8.5	13.17 ★	**2KJ1101 - ■CC13 - ■■P1**		10
	115	**138**	15	9.3	11.94	**2KJ1101 - ■CC13 - ■■N1**		10
	126	**151**	14	10.3	10.87 ★	**2KJ1101 - ■CC13 - ■■M1**		10
	143	**172**	12	11.6	9.61	**2KJ1101 - ■CC13 - ■■L1**		10
	154	**185**	11	12.6	8.87 ★	**2KJ1101 - ■CC13 - ■■K1**		10
	179	**215**	9.6	14.2	7.64	**2KJ1101 - ■CC13 - ■■J1**		10
	217	**260**	7.9	12.0	6.31 ★	**2KJ1101 - ■CC13 - ■■G1**		10
	240	**288**	7.2	13.0	5.72	**2KJ1101 - ■CC13 - ■■F1**		10
	263	**316**	6.5	14.1	5.21 ★	**2KJ1101 - ■CC13 - ■■E1**		10
	D.18-LA71C4							
	17.4	**21**	99	0.91	78.56 ★	**2KJ1200 - ■CC13 - ■■G1**		9
	20	**24**	84	1.1	66.78 ★	**2KJ1200 - ■CC13 - ■■F1**		9
	24	**29**	73	1.2	58.03	**2KJ1200 - ■CC13 - ■■E1**		9
	27	**32**	63	1.4	50.51 ★	**2KJ1200 - ■CC13 - ■■D1**		9

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.18 (50 Hz)	**Z.18-LA71C4**							
0.22 (60 Hz)	**32**	**38**	54	1.7	43.15	**2KJ1100 - ■CC13 - ■■U1**		9
	37	**44**	47	1.9	37.23 ★	**2KJ1100 - ■CC13 - ■■T1**		9
	43	**52**	40	2.2	31.98	**2KJ1100 - ■CC13 - ■■S1**		9
	46	**55**	37	2.4	29.45 ★	**2KJ1100 - ■CC13 - ■■R1**		9
	51	**61**	34	2.7	26.77	**2KJ1100 - ■CC13 - ■■Q1**		9
	58	**70**	30	3.0	23.69 ★	**2KJ1100 - ■CC13 - ■■P1**		9
	69	**83**	25	3.6	19.85	**2KJ1100 - ■CC13 - ■■N1**		9
	81	**97**	21	4.2	16.92 ★	**2KJ1100 - ■CC13 - ■■M1**		9
	95	**114**	18	5.0	14.38 ★	**2KJ1100 - ■CC13 - ■■L1**		9
	110	**132**	16	5.7	12.50	**2KJ1100 - ■CC13 - ■■K1**		9
	126	**151**	14	6.4	10.88 ★	**2KJ1100 - ■CC13 - ■■J1**		9
	140	**168**	12	6.7	9.81	**2KJ1100 - ■CC13 - ■■H1**		9
	158	**190**	11	7.4	8.66	**2KJ1100 - ■CC13 - ■■G1**		9
	185	**222**	9.3	5.9	7.42 ★	**2KJ1100 - ■CC13 - ■■F1**		9
	212	**254**	8.1	6.5	6.45	**2KJ1100 - ■CC13 - ■■E1**		9
	244	**293**	7.0	7.2	5.61 ★	**2KJ1100 - ■CC13 - ■■D1**		9
	271	**325**	6.3	7.7	5.06	**2KJ1100 - ■CC13 - ■■C1**		9
	306	**367**	5.6	8.7	4.47	**2KJ1100 - ■CC13 - ■■B1**		9
	383	**460**	4.5	10.2	3.58 ★	**2KJ1100 - ■CC13 - ■■A1**		9
	E.38-LA71C4							
	147	**176**	12	2.7	9.33 ★	**2KJ1001 - ■CC13 - ■■S1**		13
	165	**198**	10	3.1	8.3	**2KJ1001 - ■CC13 - ■■R1**		13
	190	**228**	9	4.2	7.2 ★	**2KJ1001 - ■CC13 - ■■Q1**		13
0.25 (50 Hz)	**D.188-D48-LA71S4**							
0.3 (60 Hz)	**0.08**	**0.10**	23 171	0.86	16 361 ★	**2KJ1236 - ■CD13 - ■■D1**		604
	0.09	**0.11**	21 112	0.95	14 907	**2KJ1236 - ■CD13 - ■■C1**		604
	D.188-Z48-LA71S4							
	0.11	**0.13**	18 098	1.1	12 504	**2KJ1235 - ■CD13 - ■■X1**		603
	0.12	**0.14**	16 016	1.2	11 066 ★	**2KJ1235 - ■CD13 - ■■W1**		603
	0.15	**0.18**	13 080	1.5	9 037 ★	**2KJ1235 - ■CD13 - ■■V1**		603
	0.17	**0.20**	11 211	1.8	7 746	**2KJ1235 - ■CD13 - ■■U1**		603
	0.19	**0.23**	10 143	2.0	7 008 ★	**2KJ1235 - ■CD13 - ■■T1**		603
	D.168-Z48-LA71S4							
	0.12	**0.14**	15 708	0.89	10 853	**2KJ1232 - ■CD13 - ■■U1**		459
	0.14	**0.17**	14 212	0.99	9 819 ★	**2KJ1232 - ■CD13 - ■■T1**		459
	0.15	**0.18**	13 119	1.1	9 064	**2KJ1232 - ■CD13 - ■■S1**		459
	0.17	**0.20**	11 407	1.2	7 881 ★	**2KJ1232 - ■CD13 - ■■R1**		459
	0.19	**0.23**	10 357	1.4	7 156	**2KJ1232 - ■CD13 - ■■Q1**		459
	0.21	**0.25**	9 457	1.5	6 534 ★	**2KJ1232 - ■CD13 - ■■P1**		459
	0.22	**0.26**	8 677	1.6	5 995	**2KJ1232 - ■CD13 - ■■N1**		459
	0.24	**0.29**	7 994	1.8	5 523 ★	**2KJ1232 - ■CD13 - ■■M1**		459
	0.27	**0.32**	7 260	1.9	5 016	**2KJ1232 - ■CD13 - ■■L1**		459

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 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 (50 Hz) 0.3 (60 Hz)	**D.148-Z38-LA71S4**								
	0.2	**0.24**	9 553	0.84	6 600		**2KJ1228 - ■CD13 - ■■Q1**		283
	0.23	**0.28**	8 432	0.95	5 826		**2KJ1228 - ■CD13 - ■■P1**		283
	0.26	**0.31**	7 607	1.1	5 256		**2KJ1228 - ■CD13 - ■■N1**		283
	0.28	**0.34**	6 900	1.2	4 767		**2KJ1228 - ■CD13 - ■■M1**		283
	0.31	**0.37**	6 286	1.3	4 343		**2KJ1228 - ■CD13 - ■■L1**		283
	0.34	**0.41**	5 749	1.4	3 972		**2KJ1228 - ■CD13 - ■■K1**		283
	0.38	**0.46**	5 141	1.6	3 552		**2KJ1228 - ■CD13 - ■■J1**		283
	0.41	**0.49**	4 720	1.7	3 261		**2KJ1228 - ■CD13 - ■■H1**		283
	0.46	**0.55**	4 254	1.9	2 939		**2KJ1228 - ■CD13 - ■■G1**		283
	D.128-Z38-LA71S4								
	0.32	**0.38**	6 069	0.84	4 193		**2KJ1225 - ■CD13 - ■■N1**		198
	0.36	**0.43**	5 504	0.93	3 803	★	**2KJ1225 - ■CD13 - ■■M1**		198
	0.39	**0.47**	5 015	1.0	3 465		**2KJ1225 - ■CD13 - ■■L1**		198
	0.43	**0.52**	4 587	1.1	3 169	★	**2KJ1225 - ■CD13 - ■■K1**		198
	0.48	**0.58**	4 102	1.2	2 834		**2KJ1225 - ■CD13 - ■■J1**		198
	0.52	**0.62**	3 766	1.4	2 602	★	**2KJ1225 - ■CD13 - ■■H1**		198
	0.58	**0.7**	3 394	1.5	2 345		**2KJ1225 - ■CD13 - ■■G1**		198
	0.67	**0.8**	2 911	1.8	2 011	★	**2KJ1225 - ■CD13 - ■■E1**		198
	0.67	**0.8**	2 919	1.7	2 017	★	**2KJ1225 - ■CD13 - ■■F1**		198
	0.75	**0.9**	2 602	2.0	1 798		**2KJ1225 - ■CD13 - ■■D1**		198
	D.108-Z38-LA71S4								
	0.52	**0.62**	3 780	0.82	2 612		**2KJ1223 - ■CD13 - ■■U1**		127
	0.59	**0.71**	3 325	0.93	2 297		**2KJ1223 - ■CD13 - ■■T1**		127
	0.67	**0.8**	2 912	1.1	2 012		**2KJ1223 - ■CD13 - ■■S1**		127
	0.76	**0.91**	2 576	1.2	1 780		**2KJ1223 - ■CD13 - ■■R1**		127
	0.84	**1.0**	2 335	1.3	1 613		**2KJ1223 - ■CD13 - ■■Q1**		127
	0.95	**1.1**	2 0 61	1.5	1 424		**2KJ1223 - ■CD13 - ■■P1**		127
	1.1	**1.3**	1 858	1.7	1 284		**2KJ1223 - ■CD13 - ■■N1**		127
	1.2	**1.4**	1 686	1.8	1 165		**2KJ1223 - ■CD13 - ■■M1**		127
	1.3	**1.6**	1 536	2.0	1 061		**2KJ1223 - ■CD13 - ■■L1**		127
	D.88-Z28-LA71S4								
	1.0	**1.2**	1 926	0.87	1 331	★	**2KJ1218 - ■CD13 - ■■P1**		76
	1.1	**1.3**	1 751	0.96	1 210	★	**2KJ1218 - ■CD13 - ■■N1**		76
	1.2	**1.4**	1 588	1.1	1 097		**2KJ1218 - ■CD13 - ■■M1**		76
	1.4	**1.7**	1 446	1.2	999	★	**2KJ1218 - ■CD13 - ■■L1**		76
	1.5	**1.8**	1 278	1.3	883		**2KJ1218 - ■CD13 - ■■K1**		76
	1.7	**2.0**	1 180	1.4	815	★	**2KJ1218 - ■CD13 - ■■J1**		76
	1.9	**2.3**	1 016	1.7	702		**2KJ1218 - ■CD13 - ■■H1**		76
	2.1	**2.5**	936	1.8	647	★	**2KJ1218 - ■CD13 - ■■G1**		76
	D.88-LA80M8								
	2.3	**2.8**	1 047	1.6	300.41	★	**2KJ1205 - ■DC13 - ■■V1**	**P02**	82
	2.5	**3.0**	944	1.8	270.90		**2KJ1205 - ■DC13 - ■■U1**	**P02**	82
	2.8	**3.4**	851	2.0	244.29	★	**2KJ1205 - ■DC13 - ■■T1**	**P02**	82

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.25 (50 Hz) 0.3 (60 Hz)	**D.88-LA80M8**							
	2.9	**3.5**	834	2.0	300.41 ★	**2KJ1205 - ■CE13 - ■■V1**	**P02**	78
	D.68-Z28-LA71S4							
	2.1	**2.5**	922	0.87	637	**2KJ1214 - ■CD13 - ■■H1**		46
	2.2	**2.6**	879	0.91	607 ★	**2KJ1214 - ■CD13 - ■■G1**		46
	D.68-LA80M8							
	2.4	**2.9**	979	0.82	281.01	**2KJ1204 - ■DC13 - ■■U1**	**P02**	50
	2.8	**3.4**	867	0.92	248.68 ★	**2KJ1204 - ■DC13 - ■■T1**	**P02**	50
	D.68-LA71M6							
	3.1	**3.7**	780	1.0	281.01	**2KJ1204 - ■CE13 - ■■U1**	**P01**	46
	3.5	**4.2**	690	1.2	248.68 ★	**2KJ1204 - ■CE13 - ■■T1**	**P01**	46
	3.8	**4.6**	628	1.3	226.07	**2KJ1204 - ■CE13 - ■■S1**	**P01**	46
	4.2	**5.0**	564	1.4	203.09 ★	**2KJ1204 - ■CE13 - ■■R1**	**P01**	46
	D.68-LA71S4							
	4.8	**5.8**	497	1.6	281.01	**2KJ1204 - ■CD13 - ■■U1**		46
	5.4	**6.5**	440	1.8	248.68 ★	**2KJ1204 - ■CD13 - ■■T1**		46
	6.0	**7.2**	400	2.0	226.07	**2KJ1204 - ■CD13 - ■■S1**		46
	D.48-LA71M6							
	4.6	**5.5**	515	0.87	185.66	**2KJ1203 - ■CE13 - ■■R1**	**P01**	27
	5.3	**6.4**	447	1.0	161.05 ★	**2KJ1203 - ■CE13 - ■■Q1**	**P01**	27
	5.7	**6.8**	418	1.1	150.48	**2KJ1203 - ■CE13 - ■■P1**	**P01**	27
	D.48-LA71S4							
	6.5	**7.8**	369	1.2	208.77 ★	**2KJ1203 - ■CD13 - ■■S1**		27
	7.3	**8.8**	328	1.4	185.66	**2KJ1203 - ■CD13 - ■■R1**		27
	8.4	**10.1**	285	1.6	161.05 ★	**2KJ1203 - ■CD13 - ■■Q1**		27
	9.0	**10.8**	266	1.7	150.48	**2KJ1203 - ■CD13 - ■■P1**		27
	10.2	**12.2**	234	1.9	132.34 ★	**2KJ1203 - ■CD13 - ■■N1**		27
	11.6	**13.9**	205	2.2	115.91	**2KJ1203 - ■CD13 - ■■M1**		27
	D.38-LA71S4							
	9.0	**10.8**	264	0.83	149.26 ★	**2KJ1202 - ■CD13 - ■■Q1**		18
	10.1	**12.1**	236	0.93	133.57	**2KJ1202 - ■CD13 - ■■P1**		18
	11.4	**13.7**	210	1.0	118.55 ★	**2KJ1202 - ■CD13 - ■■N1**		18
	13.0	**15.6**	184	1.2	103.89	**2KJ1202 - ■CD13 - ■■M1**		18
	14.8	**17.8**	162	1.4	91.34 ★	**2KJ1202 - ■CD13 - ■■L1**		18
	16.4	**19.7**	146	1.5	82.52	**2KJ1202 - ■CD13 - ■■K1**		18
	18.8	**23**	127	1.7	71.91 ★	**2KJ1202 - ■CD13 - ■■J1**		18
	21	**25**	114	1.9	64.58	**2KJ1202 - ■CD13 - ■■H1**		18
	23	**28**	103	2.1	58.30 ★	**2KJ1202 - ■CD13 - ■■G1**		18
	26	**31**	94	2.4	52.86	**2KJ1202 - ■CD13 - ■■F1**		18
	Z.38-LA71S4							
	31	**37**	78	2.3	44.12 ★	**2KJ1102 - ■CD13 - ■■A2**		17
	D.28-LA71S4							
	14.3	**17.2**	167	0.84	94.52 ★	**2KJ1201 - ■CD13 - ■■F1**		10
	16.8	**20**	142	0.99	80.34 ★	**2KJ1201 - ■CD13 - ■■E1**		10

★ Preferred transmission ratio

Shaft designs, see page 2/117 — 1, 2 or 9
Frequency and voltage, see page 8/20 — 1 to 9
Gearbox housing mounting position, see page 2/119 — A, F, H or R

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.25 (50 Hz) 0.3 (60 Hz)	**D.28-LA71S4**							
	19.3	**23**	123	1.1	69.82	**2KJ1201 - ■CD13 - ■■D1**		10
	22	**26**	107	1.3	60.77 ★	**2KJ1201 - ■CD13 - ■■C1**		10
	Z.28-LA71S4							
	26	**31**	91	1.5	51.35	**2KJ1101 - ■CD13 - ■■C2**		10
	31	**37**	77	1.8	43.30 ★	**2KJ1101 - ■CD13 - ■■B2**		10
	35	**42**	68	2.1	38.45	**2KJ1101 - ■CD13 - ■■A2**		10
	40	**48**	60	2.3	33.71 ★	**2KJ1101 - ■CD13 - ■■X1**		10
	45	**54**	53	2.6	30.16	**2KJ1101 - ■CD13 - ■■W1**		10
	50	**60**	47	3.0	26.77 ★	**2KJ1101 - ■CD13 - ■■V1**		10
	58	**70**	42	3.4	23.46	**2KJ1101 - ■CD13 - ■■U1**		10
	65	**78**	36	3.8	20.63 ★	**2KJ1101 - ■CD13 - ■■T1**		10
	72	**86**	33	4.2	18.63	**2KJ1101 - ■CD13 - ■■S1**		10
	83	**100**	29	4.9	16.24 ★	**2KJ1101 - ■CD13 - ■■R1**		10
	93	**112**	26	5.4	14.58	**2KJ1101 - ■CD13 - ■■Q1**		10
	103	**124**	23	6.0	13.17 ★	**2KJ1101 - ■CD13 - ■■P1**		10
	113	**136**	21	6.6	11.94	**2KJ1101 - ■CD13 - ■■N1**		10
	124	**149**	19	7.3	10.87 ★	**2KJ1101 - ■CD13 - ■■M1**		10
	140	**168**	17	8.2	9.61	**2KJ1101 - ■CD13 - ■■L1**		10
	152	**182**	16	8.9	8.87 ★	**2KJ1101 - ■CD13 - ■■K1**		10
	177	**212**	14	10.1	7.64	**2KJ1101 - ■CD13 - ■■J1**		10
	195	**234**	12	10.8	6.94 ★	**2KJ1101 - ■CD13 - ■■H1**		10
	214	**257**	11	8.5	6.31 ★	**2KJ1101 - ■CD13 - ■■G1**		10
	236	**283**	10	9.2	5.72	**2KJ1101 - ■CD13 - ■■F1**		10
	259	**311**	9.2	10.0	5.21 ★	**2KJ1101 - ■CD13 - ■■E1**		10
	293	**352**	8.1	10.8	4.60	**2KJ1101 - ■CD13 - ■■D1**		10
	318	**382**	7.5	12.0	4.25 ★	**2KJ1101 - ■CD13 - ■■C1**		10
	369	**443**	6.5	12.4	3.66	**2KJ1101 - ■CD13 - ■■B1**		10
	405	**486**	5.9	13.1	3.33 ★	**2KJ1101 - ■CD13 - ■■A1**		10
	D.18-LA71S4							
	23	**28**	103	0.88	58.03	**2KJ1200 - ■CD13 - ■■E1**		9
	27	**32**	89	1.0	50.51 ★	**2KJ1200 - ■CD13 - ■■D1**		9
	Z.18-LA71S4							
	31	**37**	76	1.2	43.15	**2KJ1100 - ■CD13 - ■■U1**		9
	36	**43**	66	1.4	37.23 ★	**2KJ1100 - ■CD13 - ■■T1**		9
	42	**50**	57	1.6	31.98	**2KJ1100 - ■CD13 - ■■S1**		9
	46	**55**	52	1.7	29.45 ★	**2KJ1100 - ■CD13 - ■■R1**		9
	50	**60**	47	1.9	26.77	**2KJ1100 - ■CD13 - ■■Q1**		9
	57	**68**	42	2.1	23.69 ★	**2KJ1100 - ■CD13 - ■■P1**		9
	68	**82**	35	2.6	19.85	**2KJ1100 - ■CD13 - ■■N1**		9
	80	**96**	30	3.0	16.92 ★	**2KJ1100 - ■CD13 - ■■M1**		9
	94	**113**	25	3.5	14.38 ★	**2KJ1100 - ■CD13 - ■■L1**		9
	108	**130**	22	4.1	12.50	**2KJ1100 - ■CD13 - ■■K1**		9
	124	**149**	19	4.5	10.88 ★	**2KJ1100 - ■CD13 - ■■J1**		9

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.25 (50 Hz)	**Z.18-LA71S4**								
0.3 (60 Hz)	**138**	**166**	17	4.8	9.81		**2KJ1100 - ■CD13 - ■■H1**		9
	156	**187**	15	5.2	8.66		**2KJ1100 - ■CD13 - ■■G1**		9
	182	**218**	13	4.2	7.42	★	**2KJ1100 - ■CD13 - ■■F1**		9
	209	**251**	11	4.6	6.45		**2KJ1100 - ■CD13 - ■■E1**		9
	241	**289**	9.9	5.1	5.61	★	**2KJ1100 - ■CD13 - ■■D1**		9
	267	**320**	8.9	5.5	5.06		**2KJ1100 - ■CD13 - ■■C1**		9
	302	**362**	7.9	6.2	4.47		**2KJ1100 - ■CD13 - ■■B1**		9
	377	**452**	6.3	7.3	3.58	★	**2KJ1100 - ■CD13 - ■■A1**		9
	E.48-LA71S4								
	119	**143**	20	2.8	11.3		**2KJ1002 - ■CD13 - ■■U1**		16
	149	**179**	16	4	9.09		**2KJ1002 - ■CD13 - ■■S1**		16
	E.38-LA71S4								
	145	**174**	16	1.9	9.33	★	**2KJ1001 - ■CD13 - ■■S1**		13
	163	**196**	15	2.2	8.30		**2KJ1001 - ■CD13 - ■■R1**		13
	188	**226**	13	3.0	7.20	★	**2KJ1001 - ■CD13 - ■■Q1**		13
	201	**241**	12	4.0	6.73		**2KJ1001 - ■CD13 - ■■P1**		13
0.37 (50 Hz)	**D.188-Z48-LA71M4**								
0.44 (60 Hz)	**0.12**	**0.14**	24 391	0.82	11 066	★	**2KJ1235 - ■CE13 - ■■W1**		603
	0.15	**0.18**	19 919	1.0	9 037	★	**2KJ1235 - ■CE13 - ■■V1**		603
	0.18	**0.22**	17 073	1.2	7 746		**2KJ1235 - ■CE13 - ■■U1**		603
	0.20	**0.24**	15 447	1.3	7 008	★	**2KJ1235 - ■CE13 - ■■T1**		603
	0.21	**0.25**	14 259	1.4	6 469		**2KJ1235 - ■CE13 - ■■S1**		603
	0.24	**0.29**	12 398	1.6	5 625	★	**2KJ1235 - ■CE13 - ■■R1**		603
	0.27	**0.32**	11 257	1.8	5 107		**2KJ1235 - ■CE13 - ■■Q1**		603
	0.29	**0.35**	10 278	1.9	4 663	★	**2KJ1235 - ■CE13 - ■■P1**		603
	D.168-Z48-LA71M4								
	0.17	**0.20**	17 371	0.81	7 881	★	**2KJ1232 - ■CE13 - ■■R1**		459
	0.19	**0.23**	15 773	0.89	7 156		**2KJ1232 - ■CE13 - ■■Q1**		459
	0.21	**0.25**	14 402	0.97	6 534	★	**2KJ1232 - ■CE13 - ■■P1**		459
	0.23	**0.28**	13 214	1.1	5 995		**2KJ1232 - ■CE13 - ■■N1**		459
	0.25	**0.30**	12 174	1.2	5 523	★	**2KJ1232 - ■CE13 - ■■M1**		459
	0.27	**0.32**	11 056	1.3	5 016		**2KJ1232 - ■CE13 - ■■L1**		459
	0.30	**0.36**	10 071	1.4	4 569	★	**2KJ1232 - ■CE13 - ■■K1**		459
	0.33	**0.40**	9 227	1.5	4 186		**2KJ1232 - ■CE13 - ■■J1**		459
	0.37	**0.44**	8 233	1.7	3 735	★	**2KJ1232 - ■CE13 - ■■H1**		459
	D.148-Z38-LA71M4								
	0.32	**0.38**	9 573	0.84	4 343		**2KJ1228 - ■CE13 - ■■L1**		283
	0.34	**0.41**	8 755	0.91	3 972		**2KJ1228 - ■CE13 - ■■K1**		283
	0.39	**0.47**	7 829	1.0	3 552		**2KJ1228 - ■CE13 - ■■J1**		283
	0.42	**0.50**	7 188	1.1	3 261		**2KJ1228 - ■CE13 - ■■H1**		283
	0.47	**0.56**	6 478	1.2	2 939		**2KJ1228 - ■CE13 - ■■G1**		283
	0.54	**0.65**	5 557	1.4	2 521		**2KJ1228 - ■CE13 - ■■E1**		283

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.37 (50 Hz) 0.44 (60 Hz)	**D.148-Z38-LA71M4**								
	0.54	**0.65**	5 572	1.4	2 528		**2KJ1228 - ■CE13 - ■■F1**		283
	0.61	**0.73**	4 968	1.6	2 254		**2KJ1228 - ■CE13 - ■■D1**		283
	0.66	**0.79**	4 563	1.8	2 070		**2KJ1228 - ■CE13 - ■■C1**		283
	0.74	**0.89**	4 111	1.9	1 865		**2KJ1228 - ■CE13 - ■■B1**		283
	D.128-Z48-LA71M4								
	1.1	**1.3**	2 801	1.8	1 271		**2KJ1227 - ■CE13 - ■■P1**		208
	1.2	**1.4**	2 570	2	1 166		**2KJ1227 - ■CE13 - ■■N1**		208
	D.128-Z38-LA71M4								
	0.48	**0.58**	6 247	0.82	2 834		**2KJ1225 - ■CE13 - ■■J1**		198
	0.53	**0.64**	5 735	0.89	2 602	★	**2KJ1225 - ■CE13 - ■■H1**		198
	0.58	**0.70**	5 169	0.99	2 345		**2KJ1225 - ■CE13 - ■■G1**		198
	0.68	**0.82**	4 433	1.2	2 011	★	**2KJ1225 - ■CE13 - ■■E1**		198
	0.68	**0.82**	4 446	1.1	2 017	★	**2KJ1225 - ■CE13 - ■■F1**		198
	0.76	**0.91**	3 963	1.3	1 798		**2KJ1225 - ■CE13 - ■■D1**		198
	0.83	**1.0**	3 639	1.4	1 651	★	**2KJ1225 - ■CE13 - ■■C1**		198
	0.92	**1.1**	3 280	1.6	1 488		**2KJ1225 - ■CE13 - ■■B1**		198
	1.1	**1.3**	2 821	1.8	1 280	★	**2KJ1225 - ■CE13 - ■■A1**		198
	D.108-Z38-LA71M4								
	0.85	**1.0**	3 555	0.87	1 613		**2KJ1223 - ■CE13 - ■■Q1**		127
	0.96	**1.2**	3 139	0.99	1 424		**2KJ1223 - ■CE13 - ■■P1**		127
	1.1	**1.3**	2 830	1.1	1 284		**2KJ1223 - ■CE13 - ■■N1**		127
	1.2	**1.4**	2 568	1.2	1 165		**2KJ1223 - ■CE13 - ■■M1**		127
	1.3	**1.6**	2 339	1.3	1 061		**2KJ1223 - ■CE13 - ■■L1**		127
	1.4	**1.7**	2 140	1.4	971		**2KJ1223 - ■CE13 - ■■K1**		127
	1.6	**1.9**	1 913	1.6	868		**2KJ1223 - ■CE13 - ■■J1**		127
	1.7	**2.0**	1 757	1.8	797		**2KJ1223 - ■CE13 - ■■H1**		127
	D.108-LA90SA8								
	1.9	**2.3**	1 881	1.6	359.30		**2KJ1206 - ■EB13 - ■■V1**	**P02**	133
	2.1	**2.5**	1 702	1.8	325.21	★	**2KJ1206 - ■EB13 - ■■U1**	**P02**	133
	D.88-Z28-LA71M4								
	1.6	**1.9**	1 946	0.86	883		**2KJ1218 - ■CE13 - ■■K1**		76
	1.7	**2.0**	1 796	0.94	815	★	**2KJ1218 - ■CE13 - ■■J1**		76
	2.0	**2.4**	1 547	1.1	702		**2KJ1218 - ■CE13 - ■■H1**		76
	2.1	**2.5**	1 426	1.2	647	★	**2KJ1218 - ■CE13 - ■■G1**		76
	D.88-LA90SA8								
	2.2	**2.6**	1 573	1.1	300.41	★	**2KJ1205 - ■EB13 - ■■V1**	**P02**	85
	2.5	**3.0**	1 418	1.2	270.90		**2KJ1205 - ■EB13 - ■■U1**	**P02**	85
	2.8	**3.4**	1 279	1.3	244.29	★	**2KJ1205 - ■EB13 - ■■T1**	**P02**	85
	D.88-LA80S6								
	3.1	**3.7**	1 154	1.5	300.41	★	**2KJ1205 - ■DB13 - ■■V1**	**P01**	82
	3.4	**4.1**	1 040	1.6	270.90		**2KJ1205 - ■DB13 - ■■U1**	**P01**	82
	3.8	**4.6**	938	1.8	244.29	★	**2KJ1205 - ■DB13 - ■■T1**	**P01**	82
	4.3	**5.2**	821	2.0	213.64		**2KJ1205 - ■DB13 - ■■S1**	**P01**	82

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**
Frequency and voltage, see page 8/20 — **1 to 9**
Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.37 (50 Hz) 0.44 (60 Hz)	**D.68-LA80S6**							
	3.7	**4.4**	955	0.84	248.68 ★	**2KJ1204 - ■DB13 - ■■T1**	**P01**	50
	4.1	**4.9**	868	0.92	226.07	**2KJ1204 - ■DB13 - ■■S1**	**P01**	50
	4.5	**5.4**	780	1.0	203.09 ★	**2KJ1204 - ■DB13 - ■■R1**	**P01**	50
	D.68-LA71M4							
	4.9	**5.9**	725	1.1	281.01	**2KJ1204 - ■CE13 - ■■U1**		46
	5.5	**6.6**	641	1.2	248.68 ★	**2KJ1204 - ■CE13 - ■■T1**		46
	6.1	**7.3**	583	1.4	226.07	**2KJ1204 - ■CE13 - ■■S1**		46
	6.7	**8.0**	524	1.5	203.09 ★	**2KJ1204 - ■CE13 - ■■R1**		46
	7.9	**9.5**	449	1.8	174.08	**2KJ1204 - ■CE13 - ■■Q1**		46
	8.7	**10.4**	406	2.0	157.50 ★	**2KJ1204 - ■CE13 - ■■P1**		46
	9.4	**11.3**	375	2.1	145.38	**2KJ1204 - ■CE13 - ■■N1**		46
	D.48-LA71M4							
	6.6	**7.9**	538	0.84	208.77 ★	**2KJ1203 - ■CE13 - ■■S1**		27
	7.4	**8.9**	479	0.94	185.66	**2KJ1203 - ■CE13 - ■■R1**		27
	8.5	**10.2**	415	1.1	161.05 ★	**2KJ1203 - ■CE13 - ■■Q1**		27
	9.1	**10.9**	388	1.2	150.48	**2KJ1203 - ■CE13 - ■■P1**		27
	10.4	**12.5**	341	1.3	132.34 ★	**2KJ1203 - ■CE13 - ■■N1**		27
	11.8	**14.2**	299	1.5	115.91	**2KJ1203 - ■CE13 - ■■M1**		27
	13.4	**16.1**	264	1.7	102.52 ★	**2KJ1203 - ■CE13 - ■■L1**		27
	14.7	**17.6**	240	1.9	92.91	**2KJ1203 - ■CE13 - ■■K1**		27
	16.7	**20.0**	212	2.1	82.02 ★	**2KJ1203 - ■CE13 - ■■J1**		27
	Z.48-LA71M4							
	27	**32**	132	2.2	51.28	**2KJ1103 - ■CE13 - ■■A2**		27
	D.38-LA71M4							
	13.2	**15.8**	268	0.82	103.89	**2KJ1202 - ■CE13 - ■■M1**		18
	15.0	**18.0**	236	0.93	91.34 ★	**2KJ1202 - ■CE13 - ■■L1**		18
	16.6	**19.9**	213	1.0	82.52	**2KJ1202 - ■CE13 - ■■K1**		18
	19.1	**23**	185	1.2	71.91 ★	**2KJ1202 - ■CE13 - ■■J1**		18
	21	**25**	167	1.3	64.58	**2KJ1202 - ■CE13 - ■■H1**		18
	24	**29**	150	1.5	58.30 ★	**2KJ1202 - ■CE13 - ■■G1**		18
	26	**31**	136	1.6	52.86	**2KJ1202 - ■CE13 - ■■F1**		18
	28	**34**	124	1.8	48.10 ★	**2KJ1202 - ■CE13 - ■■E1**		18
	Z.38-LA71M4							
	31	**37**	114	1.6	44.12 ★	**2KJ1102 - ■CE13 - ■■A2**		17
	35	**42**	101	2.1	39.24	**2KJ1102 - ■CE13 - ■■X1**		17
	40	**48**	88	2.5	34.04 ★	**2KJ1102 - ■CE13 - ■■W1**		17
	43	**52**	82	2.7	31.80	**2KJ1102 - ■CE13 - ■■V1**		17
	D.28-LA71M4							
	22	**26**	157	0.89	60.77 ★	**2KJ1201 - ■CE13 - ■■C1**		10
	Z.28-LA71M4							
	27	**32**	132	1.1	51.35	**2KJ1101 - ■CE13 - ■■C2**		10
	32	**38**	112	1.3	43.30 ★	**2KJ1101 - ■CE13 - ■■B2**		10
	36	**43**	99	1.4	38.45	**2KJ1101 - ■CE13 - ■■A2**		10

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.37 (50 Hz) 0.44 (60 Hz)	**Z.28-LA71M4**							
	41	**49**	87	1.6	33.71 ★	**2KJ1101 - ■CE13 - ■■X1**		10
	45	**54**	78	1.8	30.16	**2KJ1101 - ■CE13 - ■■W1**		10
	51	**61**	69	2.0	26.77 ★	**2KJ1101 - ■CE13 - ■■V1**		10
	58	**70**	60	2.3	23.46	**2KJ1101 - ■CE13 - ■■U1**		10
	66	**79**	53	2.6	20.63 ★	**2KJ1101 - ■CE13 - ■■T1**		10
	74	**89**	48	2.9	18.63	**2KJ1101 - ■CE13 - ■■S1**		10
	84	**101**	42	3.3	16.24 ★	**2KJ1101 - ■CE13 - ■■R1**		10
	Z.18-LA71M4							
	32	**38**	111	0.81	43.15	**2KJ1100 - ■CE13 - ■■U1**		9
	37	**44**	96	0.94	37.23 ★	**2KJ1100 - ■CE13 - ■■T1**		9
	43	**52**	82	1.1	31.98	**2KJ1100 - ■CE13 - ■■S1**		9
	46	**55**	76	1.2	29.45 ★	**2KJ1100 - ■CE13 - ■■R1**		9
	51	**61**	69	1.3	26.77	**2KJ1100 - ■CE13 - ■■Q1**		9
	58	**70**	61	1.5	23.69 ★	**2KJ1100 - ■CE13 - ■■P1**		9
	69	**83**	51	1.8	19.85	**2KJ1100 - ■CE13 - ■■N1**		9
	81	**97**	44	2.1	16.92 ★	**2KJ1100 - ■CE13 - ■■M1**		9
	95	**114**	37	2.4	14.38 ★	**2KJ1100 - ■CE13 - ■■L1**		9
	110	**132**	32	2.8	12.50	**2KJ1100 - ■CE13 - ■■K1**		9
	126	**151**	28	3.1	10.88 ★	**2KJ1100 - ■CE13 - ■■J1**		9
	140	**168**	25	3.3	9.81	**2KJ1100 - ■CE13 - ■■H1**		9
	158	**190**	22	3.6	8.66	**2KJ1100 - ■CE13 - ■■G1**		9
	185	**222**	19	2.9	7.42 ★	**2KJ1100 - ■CE13 - ■■F1**		9
	212	**254**	17	3.2	6.45	**2KJ1100 - ■CE13 - ■■E1**		9
	244	**293**	14	3.5	5.61 ★	**2KJ1100 - ■CE13 - ■■D1**		9
	271	**325**	13	3.8	5.06	**2KJ1100 - ■CE13 - ■■C1**		9
	306	**367**	12	4.3	4.47	**2KJ1100 - ■CE13 - ■■B1**		9
	383	**460**	9.2	5.0	3.58 ★	**2KJ1100 - ■CE13 - ■■A1**		9
	E.68-LA71M4							
	110	**132**	32	2.5	12.40 ★	**2KJ1003 - ■CE13 - ■■W1**		26
	123	**148**	29	3.2	11.18	**2KJ1003 - ■CE13 - ■■V1**		26
	136	**163**	26	3.7	10.08 ★	**2KJ1003 - ■CE13 - ■■U1**		26
	E.48-LA71M4							
	121	**145**	29	1.9	11.30	**2KJ1002 - ■CE13 - ■■U1**		16
	137	**164**	26	3.1	10.00 ★	**2KJ1002 - ■CE13 - ■■T1**		16
	151	**181**	23	2.7	9.09	**2KJ1002 - ■CE13 - ■■S1**		16
	168	**202**	21	4.0	8.17 ★	**2KJ1002 - ■CE13 - ■■R1**		16
	E.38-LA71M4							
	147	**176**	24	1.3	9.33 ★	**2KJ1001 - ■CE13 - ■■S1**		13
	165	**198**	21	1.5	8.30	**2KJ1001 - ■CE13 - ■■R1**		13
	190	**228**	19	2.0	7.20 ★	**2KJ1001 - ■CE13 - ■■Q1**		13
	204	**245**	17	2.8	6.73	**2KJ1001 - ■CE13 - ■■P1**		13
	231	**277**	15	3.5	5.92 ★	**2KJ1001 - ■CE13 - ■■N1**		13

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.55 (50 Hz)	**D.188-Z48-LA71ZMP4**								
0.66 (60 Hz)	**0.20**	**0.24**	23 625	0.85	7 008	★	**2KJ1235 - ■CG13 - ■■T1**		603
	0.21	**0.25**	21 808	0.92	6 469		**2KJ1235 - ■CG13 - ■■S1**		603
	0.24	**0.29**	18 962	1.1	5 625	★	**2KJ1235 - ■CG13 - ■■R1**		603
	0.27	**0.32**	17 216	1.2	5 107		**2KJ1235 - ■CG13 - ■■Q1**		603
	0.29	**0.35**	15 719	1.3	4 663	★	**2KJ1235 - ■CG13 - ■■P1**		603
	0.32	**0.38**	14 425	1.4	4 279		**2KJ1235 - ■CG13 - ■■N1**		603
	0.35	**0.42**	13 289	1.5	3 942	★	**2KJ1235 - ■CG13 - ■■M1**		603
	0.38	**0.46**	12 068	1.7	3 580		**2KJ1235 - ■CG13 - ■■L1**		603
	0.42	**0.50**	10 993	1.8	3 261	★	**2KJ1235 - ■CG13 - ■■K1**		603
	0.46	**0.55**	10 073	2.0	2 988		**2KJ1235 - ■CG13 - ■■J1**		603
	D.168-Z48-LA71ZMP4								
	0.27	**0.32**	16 909	0.83	5 016		**2KJ1232 - ■CG13 - ■■L1**		459
	0.30	**0.36**	15 402	0.91	4 569	★	**2KJ1232 - ■CG13 - ■■K1**		459
	D.168-Z48-LA71ZMP4								
	0.33	**0.40**	14 111	0.99	4 186		**2KJ1232 - ■CG13 - ■■J1**		459
	0.37	**0.44**	12 591	1.1	3 735	★	**2KJ1232 - ■CG13 - ■■H1**		459
	0.59	**0.71**	7 818	1.8	2 319	★	**2KJ1232 - ■CG13 - ■■D1**		459
	D.148-Z48-LA71ZMP4								
	0.84	**1.0**	5 498	1.5	1 631		**2KJ1231 - ■CG13 - ■■N1**		292
	0.91	**1.1**	5 063	1.6	1 502		**2KJ1231 - ■CG13 - ■■M1**		292
	1.0	**1.2**	4 598	1.7	1 364		**2KJ1231 - ■CG13 - ■■L1**		292
	1.1	**1.3**	4 190	1.9	1 243		**2KJ1231 - ■CG13 - ■■K1**		292
	D.148-Z38-LA71ZMP4								
	0.47	**0.56**	9 908	0.81	2 939		**2KJ1228 - ■CG13 - ■■G1**		283
	0.54	**0.65**	8 498	0.94	2 521		**2KJ1228 - ■CG13 - ■■E1**		283
	0.54	**0.65**	8 522	0.94	2 528		**2KJ1228 - ■CG13 - ■■F1**		283
	0.61	**0.73**	7 598	1.1	2 254		**2KJ1228 - ■CG13 - ■■D1**		283
	0.66	**0.79**	6 978	1.1	2 070		**2KJ1228 - ■CG13 - ■■C1**		283
	0.74	**0.89**	6 287	1.3	1 865		**2KJ1228 - ■CG13 - ■■B1**		283
	0.85	**1.00**	5 407	1.5	1 604		**2KJ1228 - ■CG13 - ■■A1**		283
	D.128-Z38-LA71ZMP4								
	0.76	**0.91**	6 061	0.84	1 798		**2KJ1225 - ■CG13 - ■■D1**		198
	0.83	**1.0**	5 566	0.92	1 651	★	**2KJ1225 - ■CG13 - ■■C1**		198
	0.92	**1.1**	5 016	1.0	1 488		**2KJ1225 - ■CG13 - ■■B1**		198
	1.1	**1.3**	4 315	1.2	1 280	★	**2KJ1225 - ■CG13 - ■■A1**		198
	1.1	**1.3**	4 285	1.2	1 271		**2KJ1227 - ■CG13 - ■■P1**		208
	1.2	**1.4**	3 931	1.3	1 166		**2KJ1227 - ■CG13 - ■■N1**		208
	1.3	**1.6**	3 621	1.4	1 074		**2KJ1227 - ■CG13 - ■■M1**		208
	1.4	**1.7**	3 287	1.6	975		**2KJ1227 - ■CG13 - ■■L1**		208
	1.5	**1.8**	2 997	1.7	889		**2KJ1227 - ■CG13 - ■■K1**		208
	1.7	**2.0**	2 744	1.9	814		**2KJ1227 - ■CG13 - ■■J1**		208
	D.108-Z38-LA71ZMP4								
	1.3	**1.6**	3 577	0.87	1 061		**2KJ1223 - ■CG13 - ■■L1**		127

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.55 (50 Hz) 0.66 (60 Hz)	**D.108-Z38-LA71ZMP4**							
	1.4	**1.7**	3 273	0.95	971	**2KJ1223 - ■CG13 - ■■K1**		127
	1.6	**1.9**	2 926	1.1	868	**2KJ1223 - ■CG13 - ■■J1**		127
	1.7	**2.0**	2 687	1.2	797	**2KJ1223 - ■CG13 - ■■H1**		127
	D.108-LA90LA8							
	1.9	**2.3**	2 796	1.1	359.30	**2KJ1206 - ■EE13 - ■■V1**	**P02**	136
	2.1	**2.5**	2 531	1.2	325.21 ★	**2KJ1206 - ■EE13 - ■■U1**	**P02**	136
	2.4	**2.9**	2 216	1.4	284.73	**2KJ1206 - ■EE13 - ■■T1**	**P02**	136
	D.108-LA80M6							
	2.5	**3.0**	2 074	1.5	359.30	**2KJ1206 - ■DC13 - ■■V1**	**P01**	130
	2.8	**3.4**	1 877	1.7	325.21 ★	**2KJ1206 - ■DC13 - ■■U1**	**P01**	130
	3.2	**3.8**	1 643	1.9	284.73	**2KJ1206 - ■DC13 - ■■T1**	**P01**	130
	D.88-LA90LA8							
	2.5	**3.0**	2 108	0.80	270.90	**2KJ1205 - ■EE13 - ■■U1**	**P02**	88
	2.8	**3.4**	1901	0.88	244.29 ★	**2KJ1205 - ■EE13 - ■■T1**	**P02**	88
	D.88-LA80M6							
	3.0	**3.6**	1 734	0.97	300.41 ★	**2KJ1205 - ■DC13 - ■■V1**	**P01**	82
	3.4	**4.1**	1 564	1.1	270.90	**2KJ1205 - ■DC13 - ■■U1**	**P01**	82
	3.7	**4.4**	1 410	1.2	244.29 ★	**2KJ1205 - ■DC13 - ■■T1**	**P01**	82
	4.3	**5.2**	1 233	1.4	213.64	**2KJ1205 - ■DC13 - ■■S1**	**P01**	82
	D.88-LA71ZMP4							
	4.6	**5.5**	1 152	1.5	300.41 ★	**2KJ1205 - ■CG13 - ■■V1**		78
	5.1	**6.1**	1 039	1.6	270.90	**2KJ1205 - ■CG13 - ■■U1**		78
	5.6	**6.7**	937	1.8	244.29 ★	**2KJ1205 - ■CG13 - ■■T1**		78
	6.4	**7.7**	819	2.1	213.64	**2KJ1205 - ■CG13 - ■■S1**		78
	D.68-LA71ZMP4							
	5.5	**6.6**	953	0.84	248.68 ★	**2KJ1204 - ■CG13 - ■■T1**		46
	6.1	**7.3**	867	0.92	226.07	**2KJ1204 - ■CG13 - ■■S1**		46
	6.7	**8.0**	779	1.0	203.09 ★	**2KJ1204 - ■CG13 - ■■R1**		46
	7.9	**9.5**	667	1.2	174.08	**2KJ1204 - ■CG13 - ■■Q1**		46
	8.7	**10.4**	604	1.3	157.50 ★	**2KJ1204 - ■CG13 - ■■P1**		46
	9.4	**11.3**	557	1.4	145.38	**2KJ1204 - ■CG13 - ■■N1**		46
	D.68-LA71ZMP4							
	10.8	**13.0**	485	1.7	126.41 ★	**2KJ1204 - ■CG13 - ■■M1**		46
	11.9	**14.3**	440	1.8	114.78	**2KJ1204 - ■CG13 - ■■L1**		46
	13.1	**15.7**	402	2.0	104.80 ★	**2KJ1204 - ■CG13 - ■■K1**		46
	14.2	**17.0**	369	2.2	96.16	**2KJ1204 - ■CG13 - ■■J1**		46
	D.48-LA71ZMP4							
	10.4	**12.5**	507	0.89	132.34 ★	**2KJ1203 - ■CG13 - ■■N1**		27
	11.8	**14.2**	444	1.0	115.91	**2KJ1203 - ■CG13 - ■■M1**		27
	13.4	**16.1**	393	1.1	102.52 ★	**2KJ1203 - ■CG13 - ■■L1**		27
	14.7	**17.6**	356	1.3	92.91	**2KJ1203 - ■CG13 - ■■K1**		27
	16.7	**20**	314	1.4	82.02 ★	**2KJ1203 - ■CG13 - ■■J1**		27
	18.5	**22**	284	1.6	73.99	**2KJ1203 - ■CG13 - ■■H1**		27

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.55 (50 Hz) 0.66 (60 Hz)	**D.48-LA71ZMP4**							
	20	**24**	257	1.7	67.10 ★	**2KJ1203 - ■CG13 - ■■G1**		27
	22	**26**	234	1.9	61.14	**2KJ1203 - ■CG13 - ■■F1**		27
	27	**32**	192	2.3	50.00	**2KJ1203 - ■CG13 - ■■D1**		27
	Z.48-LA71ZMP4							
	27	**32**	197	1.5	51.28	**2KJ1103 - ■CG13 - ■■A2**		27
	D.38-LA71ZMP4							
	19.1	**23**	276	0.80	71.91 ★	**2KJ1202 - ■CG13 - ■■J1**		18
	21	**25**	248	0.89	64.58	**2KJ1202 - ■CG13 - ■■H1**		18
	24	**29**	224	0.98	58.30 ★	**2KJ1202 - ■CG13 - ■■G1**		18
	26	**31**	203	1.1	52.86	**2KJ1202 - ■CG13 - ■■F1**		18
	Z.38-LA71ZMP4							
	31	**37**	169	1.1	44.12 ★	**2KJ1102 - ■CG13 - ■■A2**		17
	35	**42**	150	1.4	39.24	**2KJ1102 - ■CG13 - ■■X1**		17
	40	**48**	131	1.7	34.04 ★	**2KJ1102 - ■CG13 - ■■W1**		17
	43	**52**	122	1.8	31.80	**2KJ1102 - ■CG13 - ■■V1**		17
	49	**59**	107	2.1	27.97 ★	**2KJ1102 - ■CG13 - ■■U1**		17
	56	**67**	94	2.3	24.50	**2KJ1102 - ■CG13 - ■■T1**		17
	63	**76**	83	2.6	21.67 ★	**2KJ1102 - ■CG13 - ■■S1**		17
	70	**84**	75	2.9	19.64	**2KJ1102 - ■CG13 - ■■R1**		17
	Z.28-LA71ZMP4							
	32	**38**	166	0.84	43.30 ★	**2KJ1101 - ■CG13 - ■■B2**		10
	36	**43**	147	0.95	38.45	**2KJ1101 - ■CG13 - ■■A2**		10
	41	**49**	129	1.1	33.71 ★	**2KJ1101 - ■CG13 - ■■X1**		10
	45	**54**	116	1.2	30.16	**2KJ1101 - ■CG13 - ■■W1**		10
	51	**61**	103	1.4	26.77 ★	**2KJ1101 - ■CG13 - ■■V1**		10
	58	**70**	90	1.6	23.46	**2KJ1101 - ■CG13 - ■■U1**		10
	66	**79**	79	1.8	20.63 ★	**2KJ1101 - ■CG13 - ■■T1**		10
	74	**89**	71	2.0	18.63	**2KJ1101 - ■CG13 - ■■S1**		10
	84	**101**	62	2.2	16.24 ★	**2KJ1101 - ■CG13 - ■■R1**		10
	94	**113**	56	2.5	14.58	**2KJ1101 - ■CG13 - ■■Q1**		10
	104	**125**	50	2.8	13.17 ★	**2KJ1101 - ■CG13 - ■■P1**		10
	Z.28-LA71ZMP4							
	115	**138**	46	3.1	11.94	**2KJ1101 - ■CG13 - ■■N1**		10
	126	**151**	42	3.4	10.87 ★	**2KJ1101 - ■CG13 - ■■M1**		10
	143	**172**	37	3.8	9.61	**2KJ1101 - ■CG13 - ■■L1**		10
	217	**260**	24	3.9	6.31 ★	**2KJ1101 - ■CG13 - ■■G1**		10
	240	**288**	22	4.2	5.72	**2KJ1101 - ■CG13 - ■■F1**		10
	263	**316**	20	4.6	5.21 ★	**2KJ1101 - ■CG13 - ■■E1**		10
	298	**358**	18	5.0	4.60	**2KJ1101 - ■CG13 - ■■D1**		10
	Z.18-LA71ZMP4							
	46	**55**	113	0.8	29.45 ★	**2KJ1100 - ■CG13 - ■■R1**		9
	51	**61**	103	0.88	26.77	**2KJ1100 - ■CG13 - ■■Q1**		9
	58	**70**	91	0.99	23.69 ★	**2KJ1100 - ■CG13 - ■■P1**		9

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 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 (50 Hz)	**Z.18-LA71ZMP4**							
0.66 (60 Hz)	**69**	**83**	76	1.2	19.85	**2KJ1100 - ■CG13 - ■■N1**		9
	81	**97**	65	1.4	16.92 ★	**2KJ1100 - ■CG13 - ■■M1**		9
	95	**114**	55	1.6	14.38 ★	**2KJ1100 - ■CG13 - ■■L1**		9
	110	**132**	48	1.9	12.50	**2KJ1100 - ■CG13 - ■■K1**		9
	126	**151**	42	2.1	10.88 ★	**2KJ1100 - ■CG13 - ■■J1**		9
	140	**168**	38	2.2	9.81	**2KJ1100 - ■CG13 - ■■H1**		9
	158	**190**	33	2.4	8.66	**2KJ1100 - ■CG13 - ■■G1**		9
	185	**222**	28	1.9	7.42 ★	**2KJ1100 - ■CG13 - ■■F1**		9
	212	**254**	25	2.1	6.45	**2KJ1100 - ■CG13 - ■■E1**		9
	244	**293**	22	2.4	5.61 ★	**2KJ1100 - ■CG13 - ■■D1**		9
	271	**325**	19	2.5	5.06	**2KJ1100 - ■CG13 - ■■C1**		9
	306	**367**	17	2.9	4.47	**2KJ1100 - ■CG13 - ■■B1**		9
	383	**460**	14	3.4	3.58 ★	**2KJ1100 - ■CG13 - ■■A1**		9
	E.68-LA71ZMP4							
	110	**132**	48	1.7	12.40 ★	**2KJ1003 - ■CG13 - ■■W1**		26
	123	**148**	43	2.1	11.18	**2KJ1003 - ■CG13 - ■■V1**		26
	136	**163**	39	2.5	10.08 ★	**2KJ1003 - ■CG13 - ■■U1**		26
	E.48-LA71ZMP4							
	121	**145**	43	1.3	11.30	**2KJ1002 - ■CG13 - ■■U1**		16
	137	**164**	38	2.1	10.00 ★	**2KJ1002 - ■CG13 - ■■T1**		16
	151	**181**	35	1.8	9.09	**2KJ1002 - ■CG13 - ■■S1**		16
	168	**202**	31	2.7	8.17 ★	**2KJ1002 - ■CG13 - ■■R1**		16
	196	**235**	27	3.6	7.00	**2KJ1002 - ■CG13 - ■■Q1**		16
	E.38-LA71ZMP4							
	147	**176**	36	0.89	9.33 ★	**2KJ1001 - ■CG13 - ■■S1**		13
	165	**198**	32	1.0	8.30	**2KJ1001 - ■CG13 - ■■R1**		13
	190	**228**	28	1.4	7.20 ★	**2KJ1001 - ■CG13 - ■■Q1**		13
	204	**245**	26	1.9	6.73	**2KJ1001 - ■CG13 - ■■P1**		13
	231	**277**	23	2.3	5.92 ★	**2KJ1001 - ■CG13 - ■■N1**		13
	264	**317**	20	3.5	5.18	**2KJ1001 - ■CG13 - ■■M1**		13
	299	**359**	18	4.4	4.58 ★	**2KJ1001 - ■CG13 - ■■L1**		13
	330	**396**	16	3.9	4.15	**2KJ1001 - ■CG13 - ■■K1**		13
	373	**448**	14	5.0	3.67 ★	**2KJ1001 - ■CG13 - ■■J1**		13
	414	**497**	13	5.1	3.31	**2KJ1001 - ■CG13 - ■■H1**		13
0.75 (50 Hz)	**D.188-Z48-LA80M4**							
0.9 (60 Hz)	**0.27**	**0.32**	23 410	0.85	5 107	**2KJ1235 - ■DC13 - ■■Q1**		607
	0.30	**0.36**	21 375	0.94	4 663 ★	**2KJ1235 - ■DC13 - ■■P1**		607
	0.33	**0.40**	19 615	1.0	4 279	**2KJ1235 - ■DC13 - ■■N1**		607
	0.35	**0.42**	18 070	1.1	3 942 ★	**2KJ1235 - ■DC13 - ■■M1**		607
	0.39	**0.47**	16 411	1.2	3 580	**2KJ1235 - ■DC13 - ■■L1**		607
	0.43	**0.52**	14 948	1.3	3 261 ★	**2KJ1235 - ■DC13 - ■■K1**		607
	0.47	**0.56**	13 697	1.5	2 988	**2KJ1235 - ■DC13 - ■■J1**		607

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
0.75 (50 Hz)	**D.188-Z48-LA80M4**								
0.9 (60 Hz)	**0.52**	**0.62**	12 221	1.6	2 666	★	**2KJ1235 - ■DC13 - ■■H1**		607
	0.59	**0.71**	10 905	1.8	2 379		**2KJ1235 - ■DC13 - ■■G1**		607
	D.168-Z48-LA80M4								
	0.37	**0.44**	17 121	0.82	3 735	★	**2KJ1232 - ■DC13 - ■■H1**		463
	0.42	**0.50**	15 278	0.92	3 333		**2KJ1232 - ■DC13 - ■■G1**		463
	0.49	**0.59**	12 977	1.1	2 831		**2KJ1232 - ■DC13 - ■■F1**		463
	0.59	**0.71**	10 804	1.3	2 357	★	**2KJ1232 - ■DC13 - ■■E1**		463
	0.60	**0.72**	10 630	1.3	2 319	★	**2KJ1232 - ■DC13 - ■■D1**		463
	0.67	**0.80**	9 489	1.5	2 070		**2KJ1232 - ■DC13 - ■■C1**		463
	0.79	**0.95**	8 059	1.7	1 758		**2KJ1232 - ■DC13 - ■■B1**		463
	D.148-Z48-LA80M4								
	0.86	**1.0**	7 477	1.1	1 631		**2KJ1231 - ■DC13 - ■■N1**		296
	0.93	**1.1**	6 885	1.2	1 502		**2KJ1231 - ■DC13 - ■■M1**		296
	1.0	**1.2**	6 253	1.3	1 364		**2KJ1231 - ■DC13 - ■■L1**		296
	1.1	**1.3**	5 698	1.4	1 243		**2KJ1231 - ■DC13 - ■■K1**		296
	1.2	**1.4**	5 221	1.5	1 139		**2KJ1231 - ■DC13 - ■■J1**		296
	1.4	**1.7**	4 657	1.7	1 016		**2KJ1231 - ■DC13 - ■■H1**		296
	1.5	**1.8**	4 158	1.9	907		**2KJ1231 - ■DC13 - ■■G1**		296
	D.148-Z38-LA80M4								
	0.67	**0.8**	9 489	0.84	2070		**2KJ1228 - ■DC13 - ■■C1**		287
	0.75	**0.9**	8 549	0.94	1 865		**2KJ1228 - ■DC13 - ■■B1**		287
	0.87	**1**	7 353	1.1	1 604		**2KJ1228 - ■DC13 - ■■A1**		287
	D.128-Z48-LA80M4								
	1.1	**1.3**	5 826	0.88	1 271		**2KJ1227 - ■DC13 - ■■P1**		212
	1.2	**1.4**	5 345	0.95	1 166		**2KJ1227 - ■DC13 - ■■N1**		212
	1.3	**1.6**	4 923	1.0	1 074		**2KJ1227 - ■DC13 - ■■M1**		212
	1.4	**1.7**	4 469	1.1	975		**2KJ1227 - ■DC13 - ■■L1**		212
	1.6	**1.9**	4 075	1.3	889		**2KJ1227 - ■DC13 - ■■K1**		212
	1.7	**2.0**	3 731	1.4	814		**2KJ1227 - ■DC13 - ■■J1**		212
	1.9	**2.3**	3 328	1.5	726		**2KJ1227 - ■DC13 - ■■H1**		212
	2.2	**2.6**	2 970	1.7	648		**2KJ1227 - ■DC13 - ■■G1**		212
	D.128-Z38-LA80M4								
	1.1	**1.3**	5 868	0.87	1 280	★	**2KJ1225 - ■DC13 - ■■A1**		202
	D.128-LA100LA8								
	2.5	**3.0**	2 825	1.8	268.16	★	**2KJ1207 - ■FB13 - ■■U1**	**P02**	221
	2.8	**3.4**	2 590	2	245.93		**2KJ1207 - ■FB13 - ■■T1**	**P02**	221
	D.108-Z38-LA80M4								
	1.8	**2.2**	3 653	0.85	797		**2KJ1223 - ■DC13 - ■■H1**		131
	D.108-LA100LA8								
	2.4	**2.9**	2 999	1	284.73		**2KJ1206 - ■FB13 - ■■T1**	**P02**	144
	D.108-LA90S6								
	2.5	**3.0**	2 813	1.1	359.30		**2KJ1206 - ■EC13 - ■■V1**	**P01**	133
	2.8	**3.4**	2 546	1.2	325.21	★	**2KJ1206 - ■EC13 - ■■U1**	**P01**	133

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.75 (50 Hz) 0.9 (60 Hz)	**D.108-LA90S6**							
	3.2	**3.8**	2 229	1.4	284.73	**2KJ1206 - ■EC13 - ■■T1**	**P01**	133
	3.6	**4.3**	2 011	1.5	256.86 ★	**2KJ1206 - ■EC13 - ■■S1**	**P01**	133
	D.108-LA80M4							
	3.9	**4.7**	1 845	1.7	359.3	**2KJ1206 - ■DC13 - ■■V1**		130
	4.3	**5.2**	1 670	1.9	325.21 ★	**2KJ1206 - ■DC13 - ■■U1**		130
	D.88-LA90S6							
	3.7	**4.4**	1 912	0.88	244.29 ★	**2KJ1205 - ■EC13 - ■■T1**	**P01**	85
	4.3	**5.2**	1 672	1.0	213.64	**2KJ1205 - ■EC13 - ■■S1**	**P01**	85
	D.88-LA80M4							
	4.6	**5.5**	1 542	1.1	300.41 ★	**2KJ1205 - ■DC13 - ■■V1**		82
	5.1	**6.1**	1 391	1.2	270.90	**2KJ1205 - ■DC13 - ■■U1**		82
	5.7	**6.8**	1 254	1.3	244.29 ★	**2KJ1205 - ■DC13 - ■■T1**		82
	6.5	**7.8**	1 097	1.5	213.64	**2KJ1205 - ■DC13 - ■■S1**		82
	7.3	**8.8**	985	1.7	191.8 ★	**2KJ1205 - ■DC13 - ■■R1**		82
	8.0	**9.6**	899	1.9	175.18	**2KJ1205 - ■DC13 - ■■Q1**		82
	9.0	**10.8**	798	2.1	155.46 ★	**2KJ1205 - ■DC13 - ■■P1**		82
	D.68-LA80M4							
	8.0	**9.6**	894	0.90	174.08	**2KJ1204 - ■DC13 - ■■Q1**		50
	8.9	**10.7**	809	0.99	157.5 ★	**2KJ1204 - ■DC13 - ■■P1**		50
	9.6	**11.5**	746	1.1	145.38	**2KJ1204 - ■DC13 - ■■N1**		50
	11.0	**13.2**	649	1.2	126.41 ★	**2KJ1204 - ■DC13 - ■■M1**		50
	12.2	**14.6**	589	1.4	114.78	**2KJ1204 - ■DC13 - ■■L1**		50
	13.3	**16.0**	538	1.5	104.80 ★	**2KJ1204 - ■DC13 - ■■K1**		50
	14.5	**17.4**	494	1.6	96.16	**2KJ1204 - ■DC13 - ■■J1**		50
	15.7	**18.8**	455	1.8	88.59 ★	**2KJ1204 - ■DC13 - ■■H1**		50
	17.3	**21**	413	1.9	80.46	**2KJ1204 - ■DC13 - ■■G1**		50
	19	**23**	376	2.1	73.30 ★	**2KJ1204 - ■DC13 - ■■F1**		50
	21	**25**	345	2.3	67.14	**2KJ1204 - ■DC13 - ■■E1**		50
	Z.68-LA80M4							
	29	**35**	247	2.2	48.09 ★	**2KJ1104 - ■DC13 - ■■X1**		48
	D.48-LA80M4							
	13.6	**16.3**	526	0.85	102.52 ★	**2KJ1203 - ■DC13 - ■■L1**		31
	15.0	**18**	477	0.94	92.91	**2KJ1203 - ■DC13 - ■■K1**		31
	17.0	**20**	421	1.1	82.02 ★	**2KJ1203 - ■DC13 - ■■J1**		31
	18.9	**23**	380	1.2	73.99	**2KJ1203 - ■DC13 - ■■H1**		31
	21	**25**	345	1.3	67.10 ★	**2KJ1203 - ■DC13 - ■■G1**		31
	23	**28**	314	1.4	61.14	**2KJ1203 - ■DC13 - ■■F1**		31
	25	**30**	287	1.6	55.92 ★	**2KJ1203 - ■DC13 - ■■E1**		31
	28	**34**	257	1.8	50.00	**2KJ1203 - ■DC13 - ■■D1**		31
	Z.48-LA80M4							
	27	**32**	263	1.1	51.28	**2KJ1103 - ■DC13 - ■■A2**		31
	31	**37**	233	1.9	45.38 ★	**2KJ1103 - ■DC13 - ■■X1**		31
	34	**41**	212	2.1	41.26	**2KJ1103 - ■DC13 - ■■W1**		31

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
0.75 (50 Hz)	**Z.48-LA80M4**							
0.9 (60 Hz)	**38**	**46**	190	2.4	37.06 ★	**2KJ1103 - ■DC13 - ■■V1**		31
	D.38-LA80M4							
	26	**31**	271	0.81	52.86	**2KJ1202 - ■DC13 - ■■F1**		22
	Z.38-LA80M4							
	32	**38**	227	0.8	44.12 ★	**2KJ1102 - ■DC13 - ■■A2**		21
	36	**43**	201	1.0	39.24	**2KJ1102 - ■DC13 - ■■X1**		21
	41	**49**	175	1.3	34.04 ★	**2KJ1102 - ■DC13 - ■■W1**		21
	44	**53**	163	1.3	31.80	**2KJ1102 - ■DC13 - ■■V1**		21
	50	**60**	144	1.5	27.97 ★	**2KJ1102 - ■DC13 - ■■U1**		21
	57	**68**	126	1.7	24.50	**2KJ1102 - ■DC13 - ■■T1**		21
	64	**77**	111	2.0	21.67 ★	**2KJ1102 - ■DC13 - ■■S1**		21
	71	**85**	101	2.2	19.64	**2KJ1102 - ■DC13 - ■■R1**		21
	80	**96**	89	2.5	17.33 ★	**2KJ1102 - ■DC13 - ■■Q1**		21
	89	**107**	80	2.7	15.64	**2KJ1102 - ■DC13 - ■■P1**		21
	98	**118**	73	3.0	14.18 ★	**2KJ1102 - ■DC13 - ■■N1**		21
	108	**130**	66	3.3	12.92	**2KJ1102 - ■DC13 - ■■M1**		21
	118	**142**	61	3.6	11.82 ★	**2KJ1102 - ■DC13 - ■■L1**		21
	Z.28-LA71ZMD4							
	44	**53**	162	0.86	30.16	**2KJ1101 - ■CH13 - ■■W1**		10
	50	**60**	144	0.97	26.77 ★	**2KJ1101 - ■CH13 - ■■V1**		10
	57	**68**	126	1.1	23.46	**2KJ1101 - ■CH13 - ■■U1**		10
	64	**77**	111	1.3	20.63 ★	**2KJ1101 - ■CH13 - ■■T1**		10
	71	**85**	100	1.4	18.63	**2KJ1101 - ■CH13 - ■■S1**		10
	82	**98**	88	1.6	16.24 ★	**2KJ1101 - ■CH13 - ■■R1**		10
	91	**109**	78	1.8	14.58	**2KJ1101 - ■CH13 - ■■Q1**		10
	101	**121**	71	2.0	13.17 ★	**2KJ1101 - ■CH13 - ■■P1**		10
	111	**133**	64	2.2	11.94	**2KJ1101 - ■CH13 - ■■N1**		10
	122	**146**	58	2.4	10.87 ★	**2KJ1101 - ■CH13 - ■■M1**		10
	138	**166**	52	2.7	9.61	**2KJ1101 - ■CH13 - ■■L1**		10
	150	**180**	48	2.9	8.87 ★	**2KJ1101 - ■CH13 - ■■K1**		10
	174	**209**	41	3.3	7.64	**2KJ1101 - ■CH13 - ■■J1**		10
	192	**230**	37	3.5	6.94 ★	**2KJ1101 - ■CH13 - ■■H1**		10
	211	**253**	34	2.8	6.31 ★	**2KJ1101 - ■CH13 - ■■G1**		10
	233	**280**	31	3.0	5.72	**2KJ1101 - ■CH13 - ■■F1**		10
	255	**306**	28	3.3	5.21 ★	**2KJ1101 - ■CH13 - ■■E1**		10
	289	**347**	25	3.6	4.60	**2KJ1101 - ■CH13 - ■■D1**		10
	313	**376**	23	3.9	4.25 ★	**2KJ1101 - ■CH13 - ■■C1**		10
	363	**436**	20	4.1	3.66	**2KJ1101 - ■CH13 - ■■B1**		10
	399	**479**	18	4.3	3.33 ★	**2KJ1101 - ■CH13 - ■■A1**		10
	Z.18-LA71ZMD4							
	67	**80**	107	0.84	19.85	**2KJ1100 - ■CH13 - ■■N1**		9
	79	**95**	91	0.99	16.92 ★	**2KJ1100 - ■CH13 - ■■M1**		9
	92	**110**	77	1.2	14.38 ★	**2KJ1100 - ■CH13 - ■■L1**		9

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 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 (50 Hz) 0.9 (60 Hz)	**Z.18-LA71ZMD4**							
	106	**127**	67	1.3	12.50	**2KJ1100 - ■CH13 - ■■K1**		9
	122	**146**	59	1.5	10.88 ★	**2KJ1100 - ■CH13 - ■■J1**		9
	136	**163**	53	1.6	9.81	**2KJ1100 - ■CH13 - ■■H1**		9
	154	**185**	47	1.7	8.66	**2KJ1100 - ■CH13 - ■■G1**		9
	179	**215**	40	1.4	7.42 ★	**2KJ1100 - ■CH13 - ■■F1**		9
	206	**247**	35	1.5	6.45	**2KJ1100 - ■CH13 - ■■E1**		9
	237	**284**	30	1.7	5.61 ★	**2KJ1100 - ■CH13 - ■■D1**		9
	263	**316**	27	1.8	5.06	**2KJ1100 - ■CH13 - ■■C1**		9
	298	**358**	24	2.0	4.47	**2KJ1100 - ■CH13 - ■■B1**		9
	372	**446**	19	2.4	3.58 ★	**2KJ1100 - ■CH13 - ■■A1**		9
	E.68-LA80M4							
	112	**134**	64	1.3	12.40 ★	**2KJ1003 - ■DC13 - ■■W1**		30
	125	**150**	57	1.6	11.18	**2KJ1003 - ■DC13 - ■■V1**		30
	138	**166**	52	1.8	10.08 ★	**2KJ1003 - ■DC13 - ■■U1**		30
	158	**190**	45	3.3	8.82	**2KJ1003 - ■DC13 - ■■T1**		30
	176	**211**	41	4.2	7.92 ★	**2KJ1003 - ■DC13 - ■■S1**		30
	193	**232**	37	4.0	7.23	**2KJ1003 - ■DC13 - ■■R1**		30
	E.48-LA80M4							
	123	**148**	58	0.95	11.30	**2KJ1002 - ■DC13 - ■■U1**		20
	140	**168**	51	1.6	10.00 ★	**2KJ1002 - ■DC13 - ■■T1**		20
	153	**184**	47	1.4	9.09	**2KJ1002 - ■DC13 - ■■S1**		20
	171	**205**	42	2.0	8.17 ★	**2KJ1002 - ■DC13 - ■■R1**		20
	199	**239**	36	2.7	7.00	**2KJ1002 - ■DC13 - ■■Q1**		20
	220	**264**	32	3.5	6.33 ★	**2KJ1002 - ■DC13 - ■■P1**		20
	238	**286**	30	4.0	5.85	**2KJ1002 - ■DC13 - ■■N1**		20
	275	**330**	26	4.6	5.08 ★	**2KJ1002 - ■DC13 - ■■M1**		20
	E.38-LA80M4							
	194	**233**	37	1.0	7.20 ★	**2KJ1001 - ■DC13 - ■■Q1**		17
	207	**248**	35	1.4	6.73	**2KJ1001 - ■DC13 - ■■P1**		17
	236	**283**	30	1.7	5.92 ★	**2KJ1001 - ■DC13 - ■■N1**		17
	269	**323**	27	2.6	5.18	**2KJ1001 - ■DC13 - ■■M1**		17
	305	**366**	24	3.3	4.58 ★	**2KJ1001 - ■DC13 - ■■L1**		17
	336	**403**	21	2.9	4.15	**2KJ1001 - ■DC13 - ■■K1**		17
	380	**456**	19	3.7	3.67 ★	**2KJ1001 - ■DC13 - ■■J1**		17
	421	**505**	17	3.8	3.31	**2KJ1001 - ■DC13 - ■■H1**		17
	465	**558**	15	5.2	3.00 ★	**2KJ1001 - ■DC13 - ■■G1**		17
	511	**613**	14	5.7	2.73	**2KJ1001 - ■DC13 - ■■F1**		17
	558	**670**	13	5.7	2.50 ★	**2KJ1001 - ■DC13 - ■■E1**		17
1.1 (50 Hz) 1.3 (60 Hz)	**D.188-Z48-LA90S4**							
	0.40	**0.48**	24 043	0.83	3 580	**2KJ1235 - ■EL13 - ■■L1**		610
	0.43	**0.52**	21 901	0.91	3 261 ★	**2KJ1235 - ■EL13 - ■■K1**		610
	0.47	**0.56**	20 068	1.0	2 988	**2KJ1235 - ■EL13 - ■■J1**		610

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
1.1 (50 Hz)	**D.188-Z48-LA90S4**								
1.3 (60 Hz)	**0.53**	**0.64**	17 905	1.1	2 666	★	**2KJ1235 - ■EL13 - ■■H1**		610
	0.60	**0.72**	15 977	1.3	2 379		**2KJ1235 - ■EL13 - ■■G1**		610
	0.70	**0.84**	13 573	1.5	2 021		**2KJ1235 - ■EL13 - ■■F1**		610
	0.84	**1.0**	11 296	1.8	1 682	★	**2KJ1235 - ■EL13 - ■■E1**		610
	0.86	**1.0**	11 115	1.8	1 655	★	**2KJ1235 - ■EL13 - ■■D1**		610
	0.96	**1.2**	9 920	2.0	1 477		**2KJ1235 - ■EL13 - ■■C1**		610
	D.168-Z48-LA90S4								
	0.60	**0.72**	15 830	0.88	2 357	★	**2KJ1232 - ■EL13 - ■■E1**		466
	0.61	**0.73**	15 575	0.9	2 319	★	**2KJ1232 - ■EL13 - ■■D1**		466
	0.68	**0.82**	13 902	1.0	2 070		**2KJ1232 - ■EL13 - ■■C1**		466
	0.80	**0.96**	11 807	1.2	1 758		**2KJ1232 - ■EL13 - ■■B1**		466
	0.97	**1.2**	9 826	1.4	1 463	★	**2KJ1232 - ■EL13 - ■■A1**		466
	D.168-Z68-LA90S4								
	0.97	**1.2**	9 812	1.4	1 461		**2KJ1233 - ■EL13 - ■■J1**		483
	1.2	**1.4**	8 234	1.7	1 226		**2KJ1233 - ■EL13 - ■■H1**		483
	1.4	**1.7**	7 025	2.0	1 046		**2KJ1233 - ■EL13 - ■■G1**		483
	D.148-Z48-LA90S4								
	1.0	**1.2**	9 161	0.87	1 364		**2KJ1231 - ■EL13 - ■■L1**		299
	1.1	**1.3**	8 348	0.96	1 243		**2KJ1231 - ■EL13 - ■■K1**		299
	1.2	**1.4**	7 650	1.0	1 139		**2KJ1231 - ■EL13 - ■■J1**		299
	1.4	**1.7**	6 824	1.2	1 016		**2KJ1231 - ■EL13 - ■■H1**		299
	1.6	**1.9**	6 091	1.3	907		**2KJ1231 - ■EL13 - ■■G1**		299
	1.8	**2.2**	5 171	1.5	770		**2KJ1231 - ■EL13 - ■■F1**		299
	D.148-LA100L8								
	2	**2.4**	5 192	1.5	336.11		**2KJ1208 - ■FL13 - ■■W1**	**P02**	311
	2.3	**2.8**	4 655	1.7	301.34	★	**2KJ1208 - ■FL13 - ■■V1**	**P02**	311
	2.5	**3.0**	4 267	1.9	276.23		**2KJ1208 - ■FL13 - ■■U1**	**P02**	311
	2.7	**3.2**	3 935	2.0	254.70	★	**2KJ1208 - ■FL13 - ■■T1**	**P02**	311
	D.128-Z48-LA90S4								
	1.6	**1.9**	5 971	0.85	889		**2KJ1227 - ■EL13 - ■■K1**		215
	1.7	**2.0**	5 467	0.93	814		**2KJ1227 - ■EL13 - ■■J1**		215
	1.9	**2.3**	4 876	1.0	726		**2KJ1227 - ■EL13 - ■■H1**		215
	2.2	**2.6**	4 352	1.2	648		**2KJ1227 - ■EL13 - ■■G1**		215
	D.128-LA100L8								
	2.5	**3.0**	4 143	1.2	268.16	★	**2KJ1207 - ■FL13 - ■■U1**	**P02**	221
	2.8	**3.4**	3 799	1.3	245.93		**2KJ1207 - ■FL13 - ■■T1**	**P02**	221
	3.1	**3.7**	3 394	1.5	219.72	★	**2KJ1207 - ■FL13 - ■■S1**	**P02**	221
	D.128-LA90L6								
	3.4	**4.1**	3 079	1.7	268.16	★	**2KJ1207 - ■EP13 - ■■U1**	**P01**	213
	3.7	**4.4**	2 823	1.8	245.93		**2KJ1207 - ■EP13 - ■■T1**	**P01**	213
	4.2	**5.0**	2 523	2.0	219.72	★	**2KJ1207 - ■EP13 - ■■S1**	**P01**	213
	D.108-LA90L6								
	2.8	**3.4**	3 734	0.83	325.21	★	**2KJ1206 - ■EP13 - ■■U1**	**P01**	136

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
1.1 (50 Hz) 1.3 (60 Hz)	**D.108-LA90L6**							
	3.2	**3.8**	3 269	0.95	284.73	**2KJ1206 - ■EP13 - ■■T1**	**P01**	136
	3.6	**4.3**	2 949	1.1	256.86 ★	**2KJ1206 - ■EP13 - ■■S1**	**P01**	136
	D.108-LA90S4							
	3.9	**4.7**	2 667	1.2	359.30	**2KJ1206 - ■EL13 - ■■V1**		133
	4.4	**5.3**	2 414	1.3	325.21 ★	**2KJ1206 - ■EL13 - ■■U1**		133
	5.0	**6.0**	2 114	1.5	284.73	**2KJ1206 - ■EL13 - ■■T1**		133
	5.5	**6.6**	1 907	1.6	256.86 ★	**2KJ1206 - ■EL13 - ■■S1**		133
	6.0	**7.2**	1 746	1.8	235.19	**2KJ1206 - ■EL13 - ■■R1**		133
	6.8	**8.2**	1 553	2.0	209.21 ★	**2KJ1206 - ■EL13 - ■■Q1**		133
	D.88-LA90S4							
	5.2	**6.2**	2 011	0.84	270.90	**2KJ1205 - ■EL13 - ■■U1**		85
	5.8	**7.0**	1 814	0.93	244.29 ★	**2KJ1205 - ■EL13 - ■■T1**		85
	6.6	**7.9**	1 586	1.1	213.64	**2KJ1205 - ■EL13 - ■■S1**		85
	7.4	**8.9**	1 424	1.2	191.80 ★	**2KJ1205 - ■EL13 - ■■R1**		85
	8.1	**9.7**	1 301	1.3	175.18	**2KJ1205 - ■EL13 - ■■Q1**		85
	9.1	**10.9**	1 154	1.5	155.46 ★	**2KJ1205 - ■EL13 - ■■P1**		85
	9.9	**11.9**	1 065	1.6	143.50	**2KJ1205 - ■EL13 - ■■N1**		85
	10.9	**13.1**	964	1.7	129.79 ★	**2KJ1205 - ■EL13 - ■■M1**		85
	11.8	**14.2**	887	1.9	119.52	**2KJ1205 - ■EL13 - ■■L1**		85
	12.8	**15.4**	821	2.0	110.54 ★	**2KJ1205 - ■EL13 - ■■K1**		85
	13.8	**16.6**	762	2.2	102.61	**2KJ1205 - ■EL13 - ■■J1**		85
	D.68-LA90S4							
	11.2	**13.4**	938	0.85	126.41 ★	**2KJ1204 - ■EL13 - ■■M1**		53
	12.3	**14.8**	852	0.94	114.78	**2KJ1204 - ■EL13 - ■■L1**		53
	13.5	**16.2**	778	1.0	104.80 ★	**2KJ1204 - ■EL13 - ■■K1**		53
	14.7	**17.6**	714	1.1	96.16	**2KJ1204 - ■EL13 - ■■J1**		53
	16.0	**19.2**	658	1.2	88.59 ★	**2KJ1204 - ■EL13 - ■■H1**		53
	17.6	**21**	597	1.3	80.46	**2KJ1204 - ■EL13 - ■■G1**		53
	19.3	**23**	544	1.5	73.30 ★	**2KJ1204 - ■EL13 - ■■F1**		53
	21	**25**	498	1.6	67.14	**2KJ1204 - ■EL13 - ■■E1**		53
	24	**29**	445	1.8	59.91 ★	**2KJ1204 - ■EL13 - ■■D1**		53
	26	**31**	397	2.0	53.47	**2KJ1204 - ■EL13 - ■■C1**		53
	Z.68-LA90S4							
	29	**35**	357	1.5	48.09 ★	**2KJ1104 - ■EL13 - ■■X1**		51
	34	**41**	312	2.6	42.06	**2KJ1104 - ■EL13 - ■■W1**		51
	D.48-LA90S4							
	19.1	**23**	549	0.82	73.99	**2KJ1203 - ■EL13 - ■■H1**		34
	21	**25**	498	0.90	67.10 ★	**2KJ1203 - ■EL13 - ■■G1**		34
	23	**28**	454	0.99	61.14	**2KJ1203 - ■EL13 - ■■F1**		34
	25	**30**	415	1.1	55.92 ★	**2KJ1203 - ■EL13 - ■■E1**		34
	28	**34**	371	1.2	50.00	**2KJ1203 - ■EL13 - ■■D1**		34
	Z.48-LA90S4							
	31	**37**	337	1.3	45.38 ★	**2KJ1103 - ■EL13 - ■■X1**		34

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
1.1 (50 Hz)	**Z.48-LA90S4**							
1.3 (60 Hz)	**34**	**41**	306	1.5	41.26	**2KJ1103 - ■EL13 - ■■W1**		34
	38	**46**	275	1.6	37.06 ★	**2KJ1103 - ■EL13 - ■■V1**		34
	44	**53**	236	1.9	31.77	**2KJ1103 - ■EL13 - ■■U1**		34
	49	**59**	213	2.1	28.74 ★	**2KJ1103 - ■EL13 - ■■T1**		34
	53	**64**	197	2.3	26.53	**2KJ1103 - ■EL13 - ■■S1**		34
	61	**73**	171	2.6	23.07 ★	**2KJ1103 - ■EL13 - ■■R1**		34
	68	**82**	156	2.9	20.95	**2KJ1103 - ■EL13 - ■■Q1**		34
	74	**89**	142	3.2	19.13 ★	**2KJ1103 - ■EL13 - ■■P1**		34
	Z.38-LA90S4							
	42	**50**	253	0.87	34.04 ★	**2KJ1102 - ■EL13 - ■■W1**		24
	44	**53**	236	0.93	31.80	**2KJ1102 - ■EL13 - ■■V1**		24
	51	**61**	208	1.1	27.97 ★	**2KJ1102 - ■EL13 - ■■U1**		24
	58	**70**	182	1.2	24.50	**2KJ1102 - ■EL13 - ■■T1**		24
	65	**78**	161	1.4	21.67 ★	**2KJ1102 - ■EL13 - ■■S1**		24
	72	**86**	146	1.5	19.64	**2KJ1102 - ■EL13 - ■■R1**		24
	82	**98**	129	1.7	17.33 ★	**2KJ1102 - ■EL13 - ■■Q1**		24
	90	**108**	116	1.9	15.64	**2KJ1102 - ■EL13 - ■■P1**		24
	100	**120**	105	2.1	14.18 ★	**2KJ1102 - ■EL13 - ■■N1**		24
	110	**132**	96	2.3	12.92	**2KJ1102 - ■EL13 - ■■M1**		24
	120	**144**	88	2.5	11.82 ★	**2KJ1102 - ■EL13 - ■■L1**		24
	134	**161**	78	2.7	10.57	**2KJ1102 - ■EL13 - ■■K1**		24
	146	**175**	72	2.8	9.70 ★	**2KJ1102 - ■EL13 - ■■J1**		24
	162	**194**	65	3.0	8.75	**2KJ1102 - ■EL13 - ■■H1**		24
	188	**226**	56	3.4	7.52 ★	**2KJ1102 - ■EL13 - ■■G1**		24
	189	**227**	56	3.3	7.50 ★	**2KJ1102 - ■EL13 - ■■F1**		24
	211	**253**	50	3.6	6.71	**2KJ1102 - ■EL13 - ■■D1**		24
	230	**276**	46	3.7	6.16 ★	**2KJ1102 - ■EL13 - ■■C1**		24
	255	**306**	41	4.0	5.55	**2KJ1102 - ■EL13 - ■■B1**		24
	297	**356**	35	4.5	4.77 ★	**2KJ1102 - ■EL13 - ■■A1**		24
	Z.28-LA90S4							
	60	**72**	174	0.8	23.46	**2KJ1101 - ■EL13 - ■■U1**		17
	69	**83**	153	0.91	20.63 ★	**2KJ1101 - ■EL13 - ■■T1**		17
	76	**91**	138	1.0	18.63	**2KJ1101 - ■EL13 - ■■S1**		17
	87	**104**	121	1.2	16.24 ★	**2KJ1101 - ■EL13 - ■■R1**		17
	97	**116**	108	1.3	14.58	**2KJ1101 - ■EL13 - ■■Q1**		17
	107	**128**	98	1.4	13.17 ★	**2KJ1101 - ■EL13 - ■■P1**		17
	119	**143**	89	1.6	11.94	**2KJ1101 - ■EL13 - ■■N1**		17
	130	**156**	81	1.7	10.87 ★	**2KJ1101 - ■EL13 - ■■M1**		17
	147	**176**	71	2.0	9.61	**2KJ1101 - ■EL13 - ■■L1**		17
	160	**192**	66	2.1	8.87 ★	**2KJ1101 - ■EL13 - ■■K1**		17
	185	**222**	57	2.4	7.64	**2KJ1101 - ■EL13 - ■■J1**		17
	204	**245**	52	2.6	6.94 ★	**2KJ1101 - ■EL13 - ■■H1**		17
	224	**269**	47	2.0	6.31 ★	**2KJ1101 - ■EL13 - ■■G1**		17

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
1.1 (50 Hz) 1.3 (60 Hz)	**Z.28-LA90S4**							
	247	**296**	42	2.2	5.72	**2KJ1101 - ■EL13 - ■■F1**		17
	272	**326**	39	2.4	5.21 ★	**2KJ1101 - ■EL13 - ■■E1**		17
	308	**370**	34	2.6	4.60	**2KJ1101 - ■EL13 - ■■D1**		17
	333	**400**	32	2.9	4.25 ★	**2KJ1101 - ■EL13 - ■■C1**		17
	387	**464**	27	2.9	3.66	**2KJ1101 - ■EL13 - ■■B1**		17
	425	**510**	25	3.1	3.33 ★	**2KJ1101 - ■EL13 - ■■A1**		17
	E.88-LA90S4							
	137	**164**	77	3.0	10.33 ★	**2KJ1004 - ■EL13 - ■■S1**		50
	150	**180**	70	3.0	9.46	**2KJ1004 - ■EL13 - ■■R1**		50
	168	**202**	62	3.9	8.42 ★	**2KJ1004 - ■EL13 - ■■Q1**		50
	184	**221**	57	4.3	7.69	**2KJ1004 - ■EL13 - ■■P1**		50
	E.68-LA90S4							
	114	**137**	92	0.88	12.40 ★	**2KJ1003 - ■EL13 - ■■W1**		33
	127	**152**	83	1.1	11.18	**2KJ1003 - ■EL13 - ■■V1**		33
	140	**168**	75	1.3	10.08 ★	**2KJ1003 - ■EL13 - ■■U1**		33
	160	**192**	66	2.3	8.82	**2KJ1003 - ■EL13 - ■■T1**		33
	179	**215**	59	2.9	7.92 ★	**2KJ1003 - ■EL13 - ■■S1**		33
	196	**235**	54	2.8	7.23	**2KJ1003 - ■EL13 - ■■R1**		33
	220	**264**	48	3.6	6.42 ★	**2KJ1003 - ■EL13 - ■■P1**		33
	239	**287**	44	4.3	5.92	**2KJ1003 - ■EL13 - ■■N1**		33
	E.48-LA90S4							
	142	**170**	74	1.10	10.00 ★	**2KJ1002 - ■EL13 - ■■T1**		23
	156	**187**	68	0.95	9.09	**2KJ1002 - ■EL13 - ■■S1**		23
	173	**208**	61	1.4	8.17 ★	**2KJ1002 - ■EL13 - ■■R1**		23
	202	**242**	52	1.9	7.00	**2KJ1002 - ■EL13 - ■■Q1**		23
	224	**269**	47	2.4	6.33 ★	**2KJ1002 - ■EL13 - ■■P1**		23
	242	**290**	43	2.8	5.85	**2KJ1002 - ■EL13 - ■■N1**		23
	279	**335**	38	3.2	5.08 ★	**2KJ1002 - ■EL13 - ■■M1**		23
	306	**367**	34	3.8	4.62	**2KJ1002 - ■EL13 - ■■L1**		23
	336	**403**	31	4.8	4.21 ★	**2KJ1002 - ■EL13 - ■■K1**		23
	397	**476**	26	5.3	3.56 ★	**2KJ1002 - ■EL13 - ■■H1**		23
	E.38-LA90S4							
	210	**252**	50	0.96	6.73	**2KJ1001 - ■EL13 - ■■P1**		20
	239	**287**	44	1.2	5.92 ★	**2KJ1001 - ■EL13 - ■■N1**		20
	273	**328**	38	1.8	5.18	**2KJ1001 - ■EL13 - ■■M1**		20
	309	**371**	34	2.3	4.58 ★	**2KJ1001 - ■EL13 - ■■L1**		20
	341	**409**	31	2.0	4.15	**2KJ1001 - ■EL13 - ■■K1**		20
	386	**463**	27	2.6	3.67 ★	**2KJ1001 - ■EL13 - ■■J1**		20
	427	**512**	25	2.6	3.31	**2KJ1001 - ■EL13 - ■■H1**		20
	472	**566**	22	3.6	3.00 ★	**2KJ1001 - ■EL13 - ■■G1**		20
	518	**622**	20	3.9	2.73	**2KJ1001 - ■EL13 - ■■F1**		20
	566	**679**	19	3.9	2.5 ★	**2KJ1001 - ■EL13 - ■■E1**		20
	632	**758**	17	4.3	2.24	**2KJ1001 - ■EL13 - ■■D1**		20

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
1.1 (50 Hz)	**E.38-LA90S4**								
1.3 (60 Hz)	**690**	**828**	15	5.3	2.05	★	**2KJ1001 - ■EL13 - ■■C1**		20
	765	**918**	14	6.0	1.85		**2KJ1001 - ■EL13 - ■■B1**		20
	890	**1 068**	12	6.1	1.59	★	**2KJ1001 - ■EL13 - ■■A1**		20
1.5 (50 Hz)	**D.188-Z68-LA90L4**								
1.8 (60 Hz)	**1.1**	**1.3**	11 502	1.7	1 251		**2KJ1237 - ■EP13 - ■■J1**		630
	D.188-Z48-LA90L4								
	0.53	**0.64**	24 512	0.82	2 666	★	**2KJ1235 - ■EP13 - ■■H1**		613
	0.60	**0.72**	21 873	0.91	2 379		**2KJ1235 - ■EP13 - ■■G1**		613
	0.70	**0.84**	18 582	1.1	2 021		**2KJ1235 - ■EP13 - ■■F1**		613
	0.84	**1.0**	15 465	1.3	1 682	★	**2KJ1235 - ■EP13 - ■■E1**		613
	0.86	**1.0**	15 216	1.3	1 655	★	**2KJ1235 - ■EP13 - ■■D1**		613
	0.96	**1.2**	13 580	1.5	1 477		**2KJ1235 - ■EP13 - ■■C1**		613
	1.1	**1.3**	11 539	1.7	1 255		**2KJ1235 - ■EP13 - ■■B1**		613
	D.168-Z68-LA90L4								
	0.97	**1.2**	13 433	1.0	1 461		**2KJ1233 - ■EP13 - ■■J1**		486
	1.2	**1.4**	11 272	1.2	1 226		**2KJ1233 - ■EP13 - ■■H1**		486
	1.4	**1.7**	9 617	1.5	1 046		**2KJ1233 - ■EP13 - ■■G1**		486
	D.168-Z48-LA90L4								
	0.81	**0.97**	16 163	0.87	1 758		**2KJ1232 - ■EP13 - ■■B1**		469
	0.97	**1.2**	13 451	1.0	1 463	★	**2KJ1232 - ■EP13 - ■■A1**		469
	D.148-Z48-LA90L4								
	1.4	**1.7**	9 341	0.86	1 016		**2KJ1231 - ■EP13 - ■■H1**		302
	1.6	**1.9**	8 339	0.96	907		**2KJ1231 - ■EP13 - ■■G1**		302
	1.8	**2.2**	7 080	1.1	770		**2KJ1231 - ■EP13 - ■■F1**		302
	D.148-LA112M8								
	2.1	**2.5**	6 829	1.2	336.11		**2KJ1208 - ■GG13 - ■■W1**	**P02**	318
	2.3	**2.8**	6 123	1.3	301.34	★	**2KJ1208 - ■GG13 - ■■V1**	**P02**	318
	2.6	**3.1**	5 613	1.4	276.23		**2KJ1208 - ■GG13 - ■■U1**	**P02**	318
	D.148-LA100L6								
	2.8	**3.4**	5 205	1.5	336.11		**2KJ1208 - ■FL13 - ■■W1**	**P01**	311
	3.1	**3.7**	4 667	1.7	301.34	★	**2KJ1208 - ■FL13 - ■■V1**	**P01**	311
	3.3	**4.0**	4 278	1.9	276.23		**2KJ1208 - ■FL13 - ■■U1**	**P01**	311
	3.6	**4.3**	3 944	2.0	254.7	★	**2KJ1208 - ■FL13 - ■■T1**	**P01**	311
	D.128-Z48-LA90L4								
	2.2	**2.6**	5 958	0.86	648		**2KJ1227 - ■EP13 - ■■G1**		218
	D.128-LA112M8								
	2.6	**3.1**	5 449	0.94	268.16	★	**2KJ1207 - ■GG13 - ■■U1**	**P02**	228
	2.9	**3.5**	4 997	1.0	245.93		**2KJ1207 - ■GG13 - ■■T1**	**P02**	228
	3.2	**3.8**	4 465	1.1	219.72	★	**2KJ1207 - ■GG13 - ■■S1**	**P02**	228
	D.128-LA100L6								
	3.4	**4.1**	4 153	1.2	268.16	★	**2KJ1207 - ■FL13 - ■■U1**	**P01**	221
	3.8	**4.6**	3 809	1.3	245.93		**2KJ1207 - ■FL13 - ■■T1**	**P01**	221

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
1.5 (50 Hz) 1.8 (60 Hz)	**D.128-LA100L6**							
	4.2	**5.0**	3 403	1.5	219.72 ★	**2KJ1207 - ■FL13 - ■■S1**	**P01**	221
	4.6	**5.5**	3 116	1.6	201.22	**2KJ1207 - ■FL13 - ■■R1**	**P01**	221
	5.0	**6.0**	2 871	1.8	185.36 ★	**2KJ1207 - ■FL13 - ■■Q1**	**P01**	221
	D.128-LA90L4							
	5.3	**6.4**	2 705	1.9	268.16 ★	**2KJ1207 - ■EP13 - ■■U1**		213
	5.8	**7.0**	2 481	2.1	245.93	**2KJ1207 - ■EP13 - ■■T1**		213
	D.108-LA90L4							
	4.0	**4.8**	3 625	0.86	359.30	**2KJ1206 - ■EP13 - ■■V1**		136
	4.4	**5.3**	3 281	0.94	325.21 ★	**2KJ1206 - ■EP13 - ■■U1**		136
	5.0	**6.0**	2 872	1.1	284.73	**2KJ1206 - ■EP13 - ■■T1**		136
	5.5	**6.6**	2 591	1.2	256.86 ★	**2KJ1206 - ■EP13 - ■■S1**		136
	6.0	**7.2**	2 373	1.3	235.19	**2KJ1206 - ■EP13 - ■■R1**		136
	6.8	**8.2**	2 111	1.5	209.21 ★	**2KJ1206 - ■EP13 - ■■Q1**		136
	7.4	**8.9**	1 929	1.6	191.21	**2KJ1206 - ■EP13 - ■■P1**		136
	8.1	**9.7**	1 773	1.7	175.78 ★	**2KJ1206 - ■EP13 - ■■N1**		136
	8.7	**10.4**	1 638	1.9	162.40	**2KJ1206 - ■EP13 - ■■M1**		136
	9.4	**11.3**	1 520	2.0	150.70 ★	**2KJ1206 - ■EP13 - ■■L1**		136
	10.1	**12.1**	1 416	2.2	140.37	**2KJ1206 - ■EP13 - ■■K1**		136
	D.88-LA90L4							
	7.4	**8.9**	1 935	0.87	191.80 ★	**2KJ1205 - ■EP13 - ■■R1**		88
	8.1	**9.7**	1 767	0.95	175.18	**2KJ1205 - ■EP13 - ■■Q1**		88
	9.1	**10.9**	1 568	1.1	155.46 ★	**2KJ1205 - ■EP13 - ■■P1**		88
	9.9	**11.9**	1 448	1.2	143.50	**2KJ1205 - ■EP13 - ■■N1**		88
	10.9	**13.1**	1 309	1.3	129.79 ★	**2KJ1205 - ■EP13 - ■■M1**		88
	11.9	**14.3**	1 206	1.4	119.52	**2KJ1205 - ■EP13 - ■■L1**		88
	12.8	**15.4**	1 115	1.5	110.54 ★	**2KJ1205 - ■EP13 - ■■K1**		88
	13.8	**16.6**	1 035	1.6	102.61	**2KJ1205 - ■EP13 - ■■J1**		88
	15.7	**18.8**	913	1.8	90.53 ★	**2KJ1205 - ■EP13 - ■■H1**		88
	17	**20**	843	2.0	83.58	**2KJ1205 - ■EP13 - ■■G1**		88
	19	**23**	755	2.2	74.88 ★	**2KJ1205 - ■EP13 - ■■F1**		88
	21	**25**	697	2.4	69.05	**2KJ1205 - ■EP13 - ■■E1**		88
	D.68-LA90L4							
	14.8	**17.8**	970	0.82	96.16	**2KJ1204 - ■EP13 - ■■J1**		56
	16.0	**19.2**	894	0.90	88.59 ★	**2KJ1204 - ■EP13 - ■■H1**		56
	17.6	**21**	812	0.99	80.46	**2KJ1204 - ■EP13 - ■■G1**		56
	19.4	**23**	739	1.1	73.30 ★	**2KJ1204 - ■EP13 - ■■F1**		56
	21	**25**	677	1.2	67.14	**2KJ1204 - ■EP13 - ■■E1**		56
	24	**29**	604	1.3	59.91 ★	**2KJ1204 - ■EP13 - ■■D1**		56
	27	**32**	539	1.5	53.47	**2KJ1204 - ■EP13 - ■■C1**		56
	Z.68-LA90L4							
	30	**36**	485	1.1	48.09 ★	**2KJ1104 - ■EP13 - ■■X1**		54
	34	**41**	424	1.9	42.06	**2KJ1104 - ■EP13 - ■■W1**		54
	38	**46**	381	2.1	37.76 ★	**2KJ1104 - ■EP13 - ■■V1**		54

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
1.5 (50 Hz)	**Z.68-LA90L4**							
1.8 (60 Hz)	**41**	**49**	348	2.3	34.49	**2KJ1104 - ■EP13 - ■■U1**		54
	46	**55**	309	2.6	30.60 ★	**2KJ1104 - ■EP13 - ■■T1**		54
	50	**60**	285	2.8	28.25	**2KJ1104 - ■EP13 - ■■S1**		54
	D.48-LA90L4							
	25	**30**	564	0.80	55.92 ★	**2KJ1203 - ■EP13 - ■■E1**		37
	28	**34**	504	0.89	50.00	**2KJ1203 - ■EP13 - ■■D1**		37
	Z.48-LA90L4							
	31	**37**	458	0.98	45.38 ★	**2KJ1103 - ■EP13 - ■■X1**		37
	34	**41**	416	1.1	41.26	**2KJ1103 - ■EP13 - ■■W1**		37
	38	**46**	374	1.2	37.06 ★	**2KJ1103 - ■EP13 - ■■V1**		37
	45	**54**	320	1.4	31.77	**2KJ1103 - ■EP13 - ■■U1**		37
	49	**59**	290	1.6	28.74 ★	**2KJ1103 - ■EP13 - ■■T1**		37
	54	**65**	268	1.7	26.53	**2KJ1103 - ■EP13 - ■■S1**		37
	62	**74**	233	1.9	23.07 ★	**2KJ1103 - ■EP13 - ■■R1**		37
	68	**82**	211	2.1	20.95	**2KJ1103 - ■EP13 - ■■Q1**		37
	74	**89**	193	2.3	19.13 ★	**2KJ1103 - ■EP13 - ■■P1**		37
	81	**97**	177	2.5	17.55	**2KJ1103 - ■EP13 - ■■N1**		37
	88	**106**	163	2.6	16.17 ★	**2KJ1103 - ■EP13 - ■■M1**		37
	97	**116**	148	2.8	14.68	**2KJ1103 - ■EP13 - ■■L1**		37
	106	**127**	135	3.0	13.38 ★	**2KJ1103 - ■EP13 - ■■K1**		37
	116	**139**	124	3.2	12.25	**2KJ1103 - ■EP13 - ■■J1**		37
	130	**156**	110	3.5	10.93 ★	**2KJ1103 - ■EP13 - ■■H1**		37
	145	**174**	98	3.9	9.76	**2KJ1103 - ■EP13 - ■■G1**		37
	209	**251**	68	3.9	6.79 ★	**2KJ1103 - ■EP13 - ■■D1**		37
	234	**281**	61	4.4	6.06	**2KJ1103 - ■EP13 - ■■C1**		37
	Z.38-LA90L4							
	58	**70**	247	0.89	24.50	**2KJ1102 - ■EP13 - ■■T1**		27
	66	**79**	219	1.0	21.67 ★	**2KJ1102 - ■EP13 - ■■S1**		27
	72	**86**	198	1.1	19.64	**2KJ1102 - ■EP13 - ■■R1**		27
	82	**98**	175	1.3	17.33 ★	**2KJ1102 - ■EP13 - ■■Q1**		27
	91	**109**	158	1.4	15.64	**2KJ1102 - ■EP13 - ■■P1**		27
	100	**120**	143	1.5	14.18 ★	**2KJ1102 - ■EP13 - ■■N1**		27
	110	**132**	130	1.7	12.92	**2KJ1102 - ■EP13 - ■■M1**		27
	120	**144**	119	1.8	11.82 ★	**2KJ1102 - ■EP13 - ■■L1**		27
	134	**161**	107	2.0	10.57	**2KJ1102 - ■EP13 - ■■K1**		27
	146	**175**	98	2.0	9.70 ★	**2KJ1102 - ■EP13 - ■■J1**		27
	162	**194**	88	2.2	8.75	**2KJ1102 - ■EP13 - ■■H1**		27
	189	**227**	76	2.4	7.50 ★	**2KJ1102 - ■EP13 - ■■F1**		27
	189	**227**	76	2.5	7.52 ★	**2KJ1102 - ■EP13 - ■■G1**		27
	212	**254**	68	2.7	6.71	**2KJ1102 - ■EP13 - ■■D1**		27
	231	**277**	62	2.7	6.16 ★	**2KJ1102 - ■EP13 - ■■C1**		27
	256	**307**	56	2.9	5.55	**2KJ1102 - ■EP13 - ■■B1**		27
	298	**358**	48	3.3	4.77 ★	**2KJ1102 - ■EP13 - ■■A1**		27

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
1.5 (50 Hz) 1.8 (60 Hz)	**Z.28-LA90L4**							
	87	**104**	164	0.85	16.24 ★	**2KJ1101 - ■EP13 - ■■R1**		20
	97	**116**	147	0.95	14.58	**2KJ1101 - ■EP13 - ■■Q1**		20
	108	**130**	133	1.1	13.17 ★	**2KJ1101 - ■EP13 - ■■P1**		20
	119	**143**	120	1.2	11.94	**2KJ1101 - ■EP13 - ■■N1**		20
	131	**157**	110	1.3	10.87 ★	**2KJ1101 - ■EP13 - ■■M1**		20
	148	**178**	97	1.4	9.61	**2KJ1101 - ■EP13 - ■■L1**		20
	160	**192**	90	1.6	8.87 ★	**2KJ1101 - ■EP13 - ■■K1**		20
	186	**223**	77	1.8	7.64	**2KJ1101 - ■EP13 - ■■J1**		20
	205	**246**	70	1.9	6.94 ★	**2KJ1101 - ■EP13 - ■■H1**		20
	225	**270**	64	1.5	6.31 ★	**2KJ1101 - ■EP13 - ■■G1**		20
	248	**298**	58	1.6	5.72	**2KJ1101 - ■EP13 - ■■F1**		20
	273	**328**	53	1.8	5.21 ★	**2KJ1101 - ■EP13 - ■■E1**		20
	309	**371**	46	1.9	4.60	**2KJ1101 - ■EP13 - ■■D1**		20
	334	**401**	43	2.1	4.25 ★	**2KJ1101 - ■EP13 - ■■C1**		20
	388	**466**	37	2.2	3.66	**2KJ1101 - ■EP13 - ■■B1**		20
	426	**511**	34	2.3	3.33 ★	**2KJ1101 - ■EP13 - ■■A1**		20
	E.88-LA90L4							
	137	**164**	104	2.2	10.33 ★	**2KJ1004 - ■EP13 - ■■S1**		53
	150	**180**	95	2.2	9.46	**2KJ1004 - ■EP13 - ■■R1**		53
	169	**203**	85	2.9	8.42 ★	**2KJ1004 - ■EP13 - ■■Q1**		53
	185	**222**	78	3.2	7.69	**2KJ1004 - ■EP13 - ■■P1**		53
	201	**241**	71	4.1	7.07 ★	**2KJ1004 - ■EP13 - ■■N1**		53
	234	**281**	61	4.6	6.06 ★	**2KJ1004 - ■EP13 - ■■L1**		53
	E.68-LA90L4							
	127	**152**	113	0.82	11.18	**2KJ1003 - ■EP13 - ■■V1**		36
	141	**169**	102	0.93	10.08 ★	**2KJ1003 - ■EP13 - ■■U1**		36
	161	**193**	89	1.7	8.82	**2KJ1003 - ■EP13 - ■■T1**		36
	179	**215**	80	2.1	7.92 ★	**2KJ1003 - ■EP13 - ■■S1**		36
	196	**235**	73	2.1	7.23	**2KJ1003 - ■EP13 - ■■R1**		36
	221	**265**	65	2.6	6.42 ★	**2KJ1003 - ■EP13 - ■■P1**		36
	240	**288**	60	3.2	5.92	**2KJ1003 - ■EP13 - ■■N1**		36
	265	**318**	54	4.1	5.36 ★	**2KJ1003 - ■EP13 - ■■M1**		36
	288	**346**	50	4.5	4.93	**2KJ1003 - ■EP13 - ■■L1**		36
	311	**373**	46	4.8	4.56 ★	**2KJ1003 - ■EP13 - ■■K1**		36
	E.48-LA90L4							
	174	**209**	82	1.0	8.17 ★	**2KJ1002 - ■EP13 - ■■R1**		26
	203	**244**	71	1.4	7.00	**2KJ1002 - ■EP13 - ■■Q1**		26
	224	**269**	64	1.8	6.33 ★	**2KJ1002 - ■EP13 - ■■P1**		26
	243	**292**	59	2.0	5.85	**2KJ1002 - ■EP13 - ■■N1**		26
	280	**336**	51	2.3	5.08 ★	**2KJ1002 - ■EP13 - ■■M1**		26
	307	**368**	47	2.8	4.62	**2KJ1002 - ■EP13 - ■■L1**		26
	337	**404**	42	3.5	4.21 ★	**2KJ1002 - ■EP13 - ■■K1**		26
	367	**440**	39	4.1	3.87	**2KJ1002 - ■EP13 - ■■J1**		26

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
1.5 (50 Hz)	**E.48-LA90L4**								
1.8 (60 Hz)	**399**	**479**	36	3.9	3.56	★	**2KJ1002 - ■EP13 - ■■H1**		26
	438	**526**	33	4.6	3.24		**2KJ1002 - ■EP13 - ■■G1**		26
	481	**577**	30	5.7	2.95	★	**2KJ1002 - ■EP13 - ■■F1**		26
	776	**931**	18	6.2	1.83		**2KJ1002 - ■EP13 - ■■B1**		26
	934	**1 121**	15	6.5	1.52	★	**2KJ1002 - ■EP13 - ■■A1**		26
	E.38-LA90L4								
	240	**288**	60	0.89	5.92	★	**2KJ1001 - ■EP13 - ■■N1**		23
	274	**329**	52	1.3	5.18		**2KJ1001 - ■EP13 - ■■M1**		23
	310	**372**	46	1.7	4.58	★	**2KJ1001 - ■EP13 - ■■L1**		23
	342	**410**	42	1.5	4.15		**2KJ1001 - ■EP13 - ■■K1**		23
	387	**464**	37	1.9	3.67	★	**2KJ1001 - ■EP13 - ■■J1**		23
	429	**515**	33	1.9	3.31		**2KJ1001 - ■EP13 - ■■H1**		23
	473	**568**	30	2.6	3.00	★	**2KJ1001 - ■EP13 - ■■G1**		23
	520	**624**	28	2.9	2.73		**2KJ1001 - ■EP13 - ■■F1**		23
	568	**682**	25	2.9	2.50	★	**2KJ1001 - ■EP13 - ■■E1**		23
	634	**761**	23	3.2	2.24		**2KJ1001 - ■EP13 - ■■D1**		23
	693	**832**	21	3.9	2.05	★	**2KJ1001 - ■EP13 - ■■C1**		23
	768	**922**	19	4.4	1.85		**2KJ1001 - ■EP13 - ■■B1**		23
	893	**1 072**	16	4.5	1.59	★	**2KJ1001 - ■EP13 - ■■A1**		23
2.2 (50 Hz)	**D.188-Z68-LA100L4**								
2.6 (60 Hz)	**1.1**	**1.3**	16 979	1.2	1 251		**2KJ1237 - ■FL13 - ■■J1**		638
	1.4	**1.7**	14 251	1.4	1 050		**2KJ1237 - ■FL13 - ■■H1**		638
	1.6	**1.9**	12 161	1.6	896	★	**2KJ1237 - ■FL13 - ■■G1**		638
	1.9	**2.3**	10 125	2.0	746		**2KJ1237 - ■FL13 - ■■F1**		638
	D.188-Z48-LA100L4								
	0.84	**1.0**	22 829	0.88	1 682	★	**2KJ1235 - ■FL13 - ■■E1**		621
	0.86	**1.0**	22 462	0.89	1 655	★	**2KJ1235 - ■FL13 - ■■D1**		621
	0.96	**1.2**	20 046	1.0	1 477		**2KJ1235 - ■FL13 - ■■C1**		621
	1.1	**1.3**	17 033	1.2	1 255		**2KJ1235 - ■FL13 - ■■B1**		621
	1.4	**1.7**	14 170	1.4	1 044	★	**2KJ1235 - ■FL13 - ■■A1**		621
	D.168-Z68-LA100L4								
	1.2	**1.4**	16 640	0.84	1 226		**2KJ1233 - ■FL13 - ■■H1**		494
	1.4	**1.7**	14 197	0.99	1 046		**2KJ1233 - ■FL13 - ■■G1**		494
	1.6	**1.9**	11 822	1.2	871		**2KJ1233 - ■FL13 - ■■F1**		494
	D.168-LA132S8								
	2.0	**2.4**	10 253	1.4	341.61	★	**2KJ1210 - ■HE13 - ■■U1**	**P02**	499
	2.2	**2.6**	9 407	1.5	313.41		**2KJ1210 - ■HE13 - ■■T1**	**P02**	499
	2.4	**2.9**	8 681	1.6	289.23	★	**2KJ1210 - ■HE13 - ■■S1**	**P02**	499
	2.6	**3.1**	8 053	1.7	268.29		**2KJ1210 - ■HE13 - ■■R1**	**P02**	499
	D.148-LA132S8								
	2.3	**2.8**	9 045	0.88	301.34	★	**2KJ1208 - ■HE13 - ■■V1**	**P02**	328
	2.5	**3.0**	8 291	0.96	276.23		**2KJ1208 - ■HE13 - ■■U1**	**P02**	328

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
2.2 (50 Hz) 2.6 (60 Hz)	**D.148-LA132S8**							
	2.7	**3.2**	7 645	1	254.70 ★	**2KJ1208 - ■HE13 - ■■T1**	**P02**	328
	D.148-LA112M6							
	2.8	**3.4**	7 512	1.1	336.11	**2KJ1208 - ■GG13 - ■■W1**	**P01**	318
	3.1	**3.7**	6 735	1.2	301.34 ★	**2KJ1208 - ■GG13 - ■■V1**	**P01**	318
	3.4	**4.1**	6 174	1.3	276.23	**2KJ1208 - ■GG13 - ■■U1**	**P01**	318
	3.7	**4.4**	5 693	1.4	254.70 ★	**2KJ1208 - ■GG13 - ■■T1**	**P01**	318
	4.0	**4.8**	5 276	1.5	236.05	**2KJ1208 - ■GG13 - ■■S1**	**P01**	318
	D.148-LA100L4							
	4.2	**5.0**	4 973	1.6	336.11	**2KJ1208 - ■FL13 - ■■W1**		311
	4.7	**5.6**	4 459	1.8	301.34 ★	**2KJ1208 - ■FL13 - ■■V1**		311
	5.1	**6.1**	4 087	2.0	276.23	**2KJ1208 - ■FL13 - ■■U1**		311
	5.6	**6.7**	3 768	2.1	254.70 ★	**2KJ1208 - ■FL13 - ■■T1**		311
	D.128-LA112M6							
	3.5	**4.2**	5 994	0.85	268.16 ★	**2KJ1207 - ■GG13 - ■■U1**	**P01**	228
	3.8	**4.6**	5 497	0.93	245.93	**2KJ1207 - ■GG13 - ■■T1**	**P01**	228
	4.3	**5.2**	4 911	1.0	219.72 ★	**2KJ1207 - ■GG13 - ■■S1**	**P01**	228
	4.7	**5.6**	4 497	1.1	201.22	**2KJ1207 - ■GG13 - ■■R1**	**P01**	228
	5.1	**6.1**	4 143	1.2	185.36 ★	**2KJ1207 - ■GG13 - ■■Q1**	**P01**	228
	D.128-LA100L4							
	5.3	**6.4**	3 968	1.3	268.16 ★	**2KJ1207 - ■FL13 - ■■U1**		221
	5.8	**7.0**	3 639	1.4	245.93	**2KJ1207 - ■FL13 - ■■T1**		221
	6.5	**7.8**	3 251	1.6	219.72 ★	**2KJ1207 - ■FL13 - ■■S1**		221
	7.1	**8.5**	2 977	1.7	201.22	**2KJ1207 - ■FL13 - ■■R1**		221
	7.7	**9.2**	2 743	1.9	185.36 ★	**2KJ1207 - ■FL13 - ■■Q1**		221
	8.3	**10**	2 539	2.0	171.62	**2KJ1207 - ■FL13 - ■■P1**		221
	D.108-LA100L4							
	5.5	**6.6**	3 800	0.82	256.86 ★	**2KJ1206 - ■FL13 - ■■S1**		144
	6.0	**7.2**	3 480	0.89	235.19	**2KJ1206 - ■FL13 - ■■R1**		144
	6.8	**8.2**	3 095	1.0	209.21 ★	**2KJ1206 - ■FL13 - ■■Q1**		144
	7.4	**8.9**	2 829	1.1	191.21	**2KJ1206 - ■FL13 - ■■P1**		144
	8.1	**9.7**	2 601	1.2	175.78 ★	**2KJ1206 - ■FL13 - ■■N1**		144
	8.7	**10.4**	2 403	1.3	162.40	**2KJ1206 - ■FL13 - ■■M1**		144
	9.4	**11.3**	2 230	1.4	150.70 ★	**2KJ1206 - ■FL13 - ■■L1**		144
	10.1	**12.1**	2 077	1.5	140.37	**2KJ1206 - ■FL13 - ■■K1**		144
	11.2	**13.4**	1 878	1.7	126.90 ★	**2KJ1206 - ■FL13 - ■■J1**		144
	12.2	**14.6**	1 729	1.8	116.83	**2KJ1206 - ■FL13 - ■■H1**		144
	13.5	**16.2**	1 555	2	105.08 ★	**2KJ1206 - ■FL13 - ■■G1**		144
	14.6	**17.5**	1 434	2.2	96.94	**2KJ1206 - ■FL13 - ■■F1**		144
	D.88-LA100L4							
	10.9	**13.1**	1 920	0.87	129.79 ★	**2KJ1205 - ■FL13 - ■■M1**		96
	11.9	**14.3**	1 768	0.95	119.52	**2KJ1205 - ■FL13 - ■■L1**		96
	12.8	**15.4**	1 636	1	110.54 ★	**2KJ1205 - ■FL13 - ■■K1**		96
	13.8	**16.6**	1 518	1.1	102.61	**2KJ1205 - ■FL13 - ■■J1**		96

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
2.2 (50 Hz) 2.6 (60 Hz)	**D.88-LA100L4**							
	15.7	**18.8**	1 339	1.3	90.53 ★	**2KJ1205 - ■FL13 - ■■H1**		96
	17	**20**	1 237	1.4	83.58	**2KJ1205 - ■FL13 - ■■G1**		96
	19	**23**	1 108	1.5	74.88 ★	**2KJ1205 - ■FL13 - ■■F1**		96
	21	**25**	1 022	1.6	69.05	**2KJ1205 - ■FL13 - ■■E1**		96
	24	**29**	857	2	57.93	**2KJ1205 - ■FL13 - ■■D1**		96
	Z.88-LA100L4							
	28	**34**	751	2	50.73	**2KJ1105 - ■FL13 - ■■B2**		94
	31	**37**	677	2.5	45.76 ★	**2KJ1105 - ■FL13 - ■■A2**		94
	D.68-LA100L4							
	21	**25**	993	0.81	67.14	**2KJ1204 - ■FL13 - ■■E1**		64
	24	**29**	886	0.9	59.91 ★	**2KJ1204 - ■FL13 - ■■D1**		64
	27	**32**	791	1	53.47	**2KJ1204 - ■FL13 - ■■C1**		64
	Z.68-LA100L4							
	34	**41**	622	1.3	42.06	**2KJ1104 - ■FL13 - ■■W1**		62
	38	**46**	559	1.4	37.76 ★	**2KJ1104 - ■FL13 - ■■V1**		62
	41	**49**	510	1.6	34.49	**2KJ1104 - ■FL13 - ■■U1**		62
	46	**55**	453	1.8	30.6 ★	**2KJ1104 - ■FL13 - ■■T1**		62
	50	**60**	418	1.9	28.25	**2KJ1104 - ■FL13 - ■■S1**		62
	56	**67**	378	2.1	25.55 ★	**2KJ1104 - ■FL13 - ■■R1**		62
	60	**72**	348	2.3	23.53	**2KJ1104 - ■FL13 - ■■Q1**		62
	65	**78**	322	2.5	21.76 ★	**2KJ1104 - ■FL13 - ■■P1**		62
	70	**84**	299	2.7	20.2	**2KJ1104 - ■FL13 - ■■N1**		62
	80	**96**	264	3.0	17.82 ★	**2KJ1104 - ■FL13 - ■■M1**		62
	86	**103**	243	3.3	16.45	**2KJ1104 - ■FL13 - ■■L1**		62
	D.48-LA100L4							
	40	**48**	527	0.85	35.59	**2KJ1203 - ■FL13 - ■■A1**		45
	Z.48-LA100L4							
	45	**54**	470	0.96	31.77	**2KJ1103 - ■FL13 - ■■U1**		45
	49	**59**	425	1.1	28.74 ★	**2KJ1103 - ■FL13 - ■■T1**		45
	54	**65**	393	1.1	26.53	**2KJ1103 - ■FL13 - ■■S1**		45
	62	**74**	341	1.3	23.07 ★	**2KJ1103 - ■FL13 - ■■R1**		45
	68	**82**	310	1.5	20.95	**2KJ1103 - ■FL13 - ■■Q1**		45
	74	**89**	283	1.6	19.13 ★	**2KJ1103 - ■FL13 - ■■P1**		45
	81	**97**	260	1.7	17.55	**2KJ1103 - ■FL13 - ■■N1**		45
	88	**106**	239	1.8	16.17 ★	**2KJ1103 - ■FL13 - ■■M1**		45
	97	**116**	217	1.9	14.68	**2KJ1103 - ■FL13 - ■■L1**		45
	106	**127**	198	2.1	13.38 ★	**2KJ1103 - ■FL13 - ■■K1**		45
	116	**139**	181	2.2	12.25	**2KJ1103 - ■FL13 - ■■J1**		45
	130	**156**	162	2.4	10.93 ★	**2KJ1103 - ■FL13 - ■■H1**		45
	145	**174**	144	2.6	9.76	**2KJ1103 - ■FL13 - ■■G1**		45
	171	**205**	123	2.9	8.29	**2KJ1103 - ■FL13 - ■■F1**		45
	206	**247**	102	3.3	6.90 ★	**2KJ1103 - ■FL13 - ■■E1**		45
	209	**251**	100	2.7	6.79 ★	**2KJ1103 - ■FL13 - ■■D1**		45

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
2.2 (50 Hz) 2.6 (60 Hz)	**Z.48-LA100L4**							
	234	**281**	90	3.0	6.06	**2KJ1103 - ■FL13 - ■■C1**		45
	276	**331**	76	3.5	5.15	**2KJ1103 - ■FL13 - ■■B1**		45
	332	**398**	63	4.1	4.28 ★	**2KJ1103 - ■FL13 - ■■A1**		45
	Z.38-LA100L4							
	82	**98**	256	0.86	17.33 ★	**2KJ1102 - ■FL13 - ■■Q1**		35
	91	**109**	231	0.95	15.64	**2KJ1102 - ■FL13 - ■■P1**		35
	100	**120**	210	1.0	14.18 ★	**2KJ1102 - ■FL13 - ■■N1**		35
	110	**132**	191	1.2	12.92	**2KJ1102 - ■FL13 - ■■M1**		35
	120	**144**	175	1.3	11.82 ★	**2KJ1102 - ■FL13 - ■■L1**		35
	134	**161**	156	1.3	10.57	**2KJ1102 - ■FL13 - ■■K1**		35
	146	**175**	144	1.4	9.70 ★	**2KJ1102 - ■FL13 - ■■J1**		35
	162	**194**	129	1.5	8.75	**2KJ1102 - ■FL13 - ■■H1**		35
	189	**227**	111	1.7	7.50 ★	**2KJ1102 - ■FL13 - ■■F1**		35
	189	**227**	111	1.7	7.52 ★	**2KJ1102 - ■FL13 - ■■G1**		35
	212	**254**	99	1.8	6.71	**2KJ1102 - ■FL13 - ■■D1**		35
	231	**277**	91	1.9	6.16 ★	**2KJ1102 - ■FL13 - ■■C1**		35
	256	**307**	82	2.0	5.55	**2KJ1102 - ■FL13 - ■■B1**		35
	298	**358**	71	2.3	4.77 ★	**2KJ1102 - ■FL13 - ■■A1**		35
	Z.28-LA90ZLB4							
	126	**151**	166	0.84	10.87 ★	**2KJ1101 - ■EQ13 - ■■M1**		20
	143	**172**	147	0.95	9.61	**2KJ1101 - ■EQ13 - ■■L1**		20
	155	**186**	136	1.0	8.87 ★	**2KJ1101 - ■EQ13 - ■■K1**		20
	180	**216**	117	1.2	7.64	**2KJ1101 - ■EQ13 - ■■J1**		20
	198	**238**	106	1.2	6.94 ★	**2KJ1101 - ■EQ13 - ■■H1**		20
	218	**262**	96	0.99	6.31 ★	**2KJ1101 - ■EQ13 - ■■G1**		20
	240	**288**	87	1.1	5.72	**2KJ1101 - ■EQ13 - ■■F1**		20
	264	**317**	80	1.2	5.21 ★	**2KJ1101 - ■EQ13 - ■■E1**		20
	299	**359**	70	1.3	4.60	**2KJ1101 - ■EQ13 - ■■D1**		20
	324	**389**	65	1.4	4.25 ★	**2KJ1101 - ■EQ13 - ■■C1**		20
	376	**451**	56	1.4	3.66	**2KJ1101 - ■EQ13 - ■■B1**		20
	413	**496**	51	1.5	3.33 ★	**2KJ1101 - ■EQ13 - ■■A1**		20
	E.128-LA100L4							
	140	**168**	150	3.6	10.14 ★	**2KJ1006 - ■FL13 - ■■T1**		119
	E.88-LA100L4							
	137	**164**	153	1.5	10.33 ★	**2KJ1004 - ■FL13 - ■■S1**		61
	150	**180**	140	1.5	9.46	**2KJ1004 - ■FL13 - ■■R1**		61
	169	**203**	125	2.0	8.42 ★	**2KJ1004 - ■FL13 - ■■Q1**		61
	185	**222**	114	2.2	7.69	**2KJ1004 - ■FL13 - ■■P1**		61
	201	**241**	105	2.8	7.07 ★	**2KJ1004 - ■FL13 - ■■N1**		61
	217	**260**	97	3.1	6.53	**2KJ1004 - ■FL13 - ■■M1**		61
	234	**281**	90	3.1	6.06 ★	**2KJ1004 - ■FL13 - ■■L1**		61
	251	**301**	84	3.8	5.65	**2KJ1004 - ■FL13 - ■■K1**		61
	278	**334**	76	4.9	5.11 ★	**2KJ1004 - ■FL13 - ■■J1**		61

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
2.2 (50 Hz)	**E.68-LA100L4**							
2.6 (60 Hz)	**161**	**193**	130	1.1	8.82	**2KJ1003 - ■FL13 - ■■T1**		44
	179	**215**	117	1.5	7.92 ★	**2KJ1003 - ■FL13 - ■■S1**		44
	196	**235**	107	1.4	7.23	**2KJ1003 - ■FL13 - ■■R1**		44
	221	**265**	95	1.8	6.42 ★	**2KJ1003 - ■FL13 - ■■P1**		44
	240	**288**	88	2.2	5.92	**2KJ1003 - ■FL13 - ■■N1**		44
	265	**318**	79	2.8	5.36 ★	**2KJ1003 - ■FL13 - ■■M1**		44
	288	**346**	73	3.1	4.93	**2KJ1003 - ■FL13 - ■■L1**		44
	311	**373**	68	3.3	4.56 ★	**2KJ1003 - ■FL13 - ■■K1**		44
	335	**402**	63	3.7	4.24	**2KJ1003 - ■FL13 - ■■J1**		44
	380	**456**	55	4.2	3.74 ★	**2KJ1003 - ■FL13 - ■■H1**		44
	412	**494**	51	4.7	3.45	**2KJ1003 - ■FL13 - ■■G1**		44
	460	**552**	46	5.5	3.09 ★	**2KJ1003 - ■FL13 - ■■F1**		44
	E.48-LA100L4							
	203	**244**	104	0.94	7.00	**2KJ1002 - ■FL13 - ■■Q1**		34
	224	**269**	94	1.2	6.33 ★	**2KJ1002 - ■FL13 - ■■P1**		34
	243	**292**	87	1.4	5.85	**2KJ1002 - ■FL13 - ■■N1**		34
	280	**336**	75	1.6	5.08 ★	**2KJ1002 - ■FL13 - ■■M1**		34
	307	**368**	68	1.9	4.62	**2KJ1002 - ■FL13 - ■■L1**		34
	337	**404**	62	2.4	4.21 ★	**2KJ1002 - ■FL13 - ■■K1**		34
	367	**440**	57	2.8	3.87	**2KJ1002 - ■FL13 - ■■J1**		34
	399	**479**	53	2.7	3.56 ★	**2KJ1002 - ■FL13 - ■■H1**		34
	438	**526**	48	3.1	3.24	**2KJ1002 - ■FL13 - ■■G1**		34
	481	**577**	44	3.9	2.95 ★	**2KJ1002 - ■FL13 - ■■F1**		34
	526	**631**	40	4.0	2.70	**2KJ1002 - ■FL13 - ■■E1**		34
	589	**707**	36	4.2	2.41 ★	**2KJ1002 - ■FL13 - ■■D1**		34
	660	**792**	32	4.2	2.15	**2KJ1002 - ■FL13 - ■■C1**		34
	776	**931**	27	4.2	1.83	**2KJ1002 - ■FL13 - ■■B1**		34
	934	**1 121**	22	4.4	1.52 ★	**2KJ1002 - ■FL13 - ■■A1**		34
	E.38-LA100L4							
	274	**329**	77	0.91	5.18	**2KJ1001 - ■FL13 - ■■M1**		31
	310	**372**	68	1.2	4.58 ★	**2KJ1001 - ■FL13 - ■■L1**		31
	342	**410**	61	1.0	4.15	**2KJ1001 - ■FL13 - ■■K1**		31
	387	**464**	54	1.3	3.67 ★	**2KJ1001 - ■FL13 - ■■J1**		31
	429	**515**	49	1.3	3.31	**2KJ1001 - ■FL13 - ■■H1**		31
	473	**568**	44	1.8	3.00 ★	**2KJ1001 - ■FL13 - ■■G1**		31
	520	**624**	40	2.0	2.73	**2KJ1001 - ■FL13 - ■■F1**		31
	568	**682**	37	2.0	2.50 ★	**2KJ1001 - ■FL13 - ■■E1**		31
	634	**761**	33	2.2	2.24	**2KJ1001 - ■FL13 - ■■D1**		31
	693	**832**	30	2.6	2.05 ★	**2KJ1001 - ■FL13 - ■■C1**		31
	768	**922**	27	3.0	1.85	**2KJ1001 - ■FL13 - ■■B1**		31
	893	**1 072**	24	3.1	1.59 ★	**2KJ1001 - ■FL13 - ■■A1**		31

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio		Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}			(No. of poles)	kg
3.0 (50 Hz) 3.6 (60 Hz)	**D.188-Z68-LA100LB4**								
	1.1	**1.3**	23 239	0.86	1 251		**2KJ1237 - ■FM13 - ■■J1**		638
	1.4	**1.7**	19 505	1.0	1 050		**2KJ1237 - ■FM13 - ■■H1**		638
	1.6	**1.9**	16 644	1.2	896	★	**2KJ1237 - ■FM13 - ■■G1**		638
	1.9	**2.3**	13 858	1.4	746		**2KJ1237 - ■FM13 - ■■F1**		638
	2.3	**2.8**	11 499	1.7	619	★	**2KJ1237 - ■FM13 - ■■E1**		638
	2.6	**3.1**	10 143	2.0	546		**2KJ1237 - ■FM13 - ■■D1**		638
	D.188-Z48-LA100LB4								
	1.1	**1.3**	23 313	0.86	1 255		**2KJ1235 - ■FM13 - ■■B1**		621
	1.4	**1.7**	19 393	1.0	1 044	★	**2KJ1235 - ■FM13 - ■■A1**		621
	D.188-LA132MA8								
	2.9	**3.5**	9 979	2.0	243.82		**2KJ1211 - ■HG13 - ■■N1**	**P02**	652
	D.168-Z68-LA100LB4								
	1.6	**1.9**	16 180	0.87	871		**2KJ1233 - ■FM13 - ■■F1**		494
	D.168-LA132MA8								
	2.0	**2.4**	13 982	1.0	341.61	★	**2KJ1210 - ■HG13 - ■■U1**	**P02**	507
	2.2	**2.6**	12 827	1.1	313.41		**2KJ1210 - ■HG13 - ■■T1**	**P02**	507
	2.4	**2.9**	11 838	1.2	289.23	★	**2KJ1210 - ■HG13 - ■■S1**	**P02**	507
	2.6	**3.1**	10 981	1.3	268.29		**2KJ1210 - ■HG13 - ■■R1**	**P02**	507
	D.168-LA132S6								
	2.8	**3.4**	10 302	1.4	341.61	★	**2KJ1210 - ■HE13 - ■■U1**	**P01**	499
	3.0	**3.6**	9 452	1.5	313.41		**2KJ1210 - ■HE13 - ■■T1**	**P01**	499
	3.3	**4.0**	8 723	1.6	289.23	★	**2KJ1210 - ■HE13 - ■■S1**	**P01**	499
	3.5	**4.2**	8 091	1.7	268.29		**2KJ1210 - ■HE13 - ■■R1**	**P01**	499
	3.8	**4.6**	7 632	1.8	253.08	★	**2KJ1210 - ■HE13 - ■■Q1**	**P01**	499
	4.0	**4.8**	7 139	2.0	236.72		**2KJ1210 - ■HE13 - ■■P1**	**P01**	499
	D.148-LA132S6								
	3.2	**3.8**	9 088	0.88	301.34	★	**2KJ1208 - ■HE13 - ■■V1**	**P01**	328
	3.4	**4.1**	8 331	0.96	276.23		**2KJ1208 - ■HE13 - ■■U1**	**P01**	328
	3.7	**4.4**	7 681	1.0	254.70	★	**2KJ1208 - ■HE13 - ■■T1**	**P01**	328
	4.0	**4.8**	7 119	1.1	236.05		**2KJ1208 - ■HE13 - ■■S1**	**P01**	328
	D.148-LA100LB4								
	4.2	**5.0**	6 781	1.2	336.11		**2KJ1208 - ■FM13 - ■■W1**		311
	4.7	**5.6**	6 080	1.3	301.34	★	**2KJ1208 - ■FM13 - ■■V1**		311
	5.1	**6.1**	5 573	1.4	276.23		**2KJ1208 - ■FM13 - ■■U1**		311
	5.6	**6.7**	5 139	1.6	254.70	★	**2KJ1208 - ■FM13 - ■■T1**		311
	6.0	**7.2**	4 763	1.7	236.05		**2KJ1208 - ■FM13 - ■■S1**		311
	6.3	**7.6**	4 528	1.8	224.43	★	**2KJ1208 - ■FM13 - ■■R1**		311
	6.8	**8.2**	4 232	1.9	209.76		**2KJ1208 - ■FM13 - ■■Q1**		311
	7.7	**9.2**	3 733	2.1	185.03	★	**2KJ1208 - ■FM13 - ■■P1**		311
	D.128-LA132S6								
	4.7	**5.6**	6 068	0.84	201.22		**2KJ1207 - ■HE13 - ■■R1**	**P01**	238
	5.1	**6.1**	5 590	0.91	185.36	★	**2KJ1207 - ■HE13 - ■■Q1**	**P01**	238

★ Preferred transmission ratio

Shaft designs, see page 2/117 — 1, 2 or 9
Frequency and voltage, see page 8/20 — 1 to 9
Gearbox housing mounting position, see page 2/119 — A, F, H or R

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
3.0 (50 Hz) 3.6 (60 Hz)	**D.128-LA100LB4**							
	5.3	**6.4**	5 410	0.94	268.16 ★	**2KJ1207 - ■FM13 - ■■U1**		221
	5.8	**7.0**	4 962	1.0	245.93	**2KJ1207 - ■FM13 - ■■T1**		221
	6.5	**7.8**	4 433	1.2	219.72 ★	**2KJ1207 - ■FM13 - ■■S1**		221
	7.1	**8.5**	4 060	1.3	201.22	**2KJ1207 - ■FM13 - ■■R1**		221
	7.7	**9.2**	3 740	1.4	185.36 ★	**2KJ1207 - ■FM13 - ■■Q1**		221
	8.3	**10.0**	3 463	1.5	171.62	**2KJ1207 - ■FM13 - ■■P1**		221
	8.9	**10.7**	3 220	1.6	159.60 ★	**2KJ1207 - ■FM13 - ■■N1**		221
	9.5	**11.4**	3 006	1.7	148.99	**2KJ1207 - ■FM13 - ■■M1**		221
	10.7	**12.8**	2 689	1.9	133.30 ★	**2KJ1207 - ■FM13 - ■■L1**		221
	11.5	**13.8**	2 492	2.0	123.53	**2KJ1207 - ■FM13 - ■■K1**		221
	12.5	**15.0**	2 285	2.2	113.24 ★	**2KJ1207 - ■FM13 - ■■J1**		221
	D.108-LA100LB4							
	7.4	**8.9**	3 858	0.8	191.21	**2KJ1206 - ■FM13 - ■■P1**		144
	8.1	**9.7**	3 547	0.87	175.78 ★	**2KJ1206 - ■FM13 - ■■N1**		144
	8.7	**10.4**	3 277	0.95	162.40	**2KJ1206 - ■FM13 - ■■M1**		144
	9.4	**11.3**	3 041	1.0	150.70 ★	**2KJ1206 - ■FM13 - ■■L1**		144
	10.1	**12.1**	2 832	1.1	140.37	**2KJ1206 - ■FM13 - ■■K1**		144
	11.2	**13.4**	2 560	1.2	126.9 ★	**2KJ1206 - ■FM13 - ■■J1**		144
	12.2	**14.6**	2 357	1.3	116.83	**2KJ1206 - ■FM13 - ■■H1**		144
	13.5	**16.2**	2 120	1.5	105.08 ★	**2KJ1206 - ■FM13 - ■■G1**		144
	14.6	**17.5**	1 956	1.6	96.94	**2KJ1206 - ■FM13 - ■■F1**		144
	17.3	**21**	1 657	1.9	82.14	**2KJ1206 - ■FM13 - ■■E1**		144
	19.8	**24**	1 444	2.1	71.59 ★	**2KJ1206 - ■FM13 - ■■D1**		144
	Z.108-LA100LB4							
	24	**29**	1 191	2.0	59.05 ★	**2KJ1106 - ■FM13 - ■■E2**		140
	26	**31**	1 093	2.1	54.15	**2KJ1106 - ■FM13 - ■■D2**		140
	D.88-LA100LB4							
	13.8	**16.6**	2 070	0.81	102.61	**2KJ1205 - ■FM13 - ■■J1**		96
	15.7	**18.8**	1 827	0.92	90.53 ★	**2KJ1205 - ■FM13 - ■■H1**		96
	17	**20**	1 686	1.0	83.58	**2KJ1205 - ■FM13 - ■■G1**		96
	19	**23**	1 511	1.1	74.88 ★	**2KJ1205 - ■FM13 - ■■F1**		96
	21	**25**	1 393	1.2	69.05	**2KJ1205 - ■FM13 - ■■E1**		96
	24	**29**	1 169	1.4	57.93	**2KJ1205 - ■FM13 - ■■D1**		96
	Z.88-LA100LB4							
	28	**34**	1 024	1.4	50.73	**2KJ1105 - ■FM13 - ■■B2**		94
	31	**37**	923	1.8	45.76 ★	**2KJ1105 - ■FM13 - ■■A2**		94
	34	**41**	845	2.0	41.90	**2KJ1105 - ■FM13 - ■■X1**		94
	38	**46**	752	2.2	37.27 ★	**2KJ1105 - ■FM13 - ■■W1**		94
	42	**50**	687	2.4	34.07	**2KJ1105 - ■FM13 - ■■V1**		94
	45	**54**	632	2.7	31.32 ★	**2KJ1105 - ■FM13 - ■■U1**		94
	Z.68-LA100LB4							
	34	**41**	849	0.94	42.06	**2KJ1104 - ■FM13 - ■■W1**		62
	38	**46**	762	1.1	37.76 ★	**2KJ1104 - ■FM13 - ■■V1**		62

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
3.0 (50 Hz) 3.6 (60 Hz)	**Z.68-LA100LB4**							
	41	**49**	696	1.1	34.49	**2KJ1104 - ■FM13 - ■■U1**		62
	46	**55**	617	1.3	30.60 ★	**2KJ1104 - ■FM13 - ■■T1**		62
	50	**60**	570	1.4	28.25	**2KJ1104 - ■FM13 - ■■S1**		62
	56	**67**	515	1.6	25.55 ★	**2KJ1104 - ■FM13 - ■■R1**		62
	60	**72**	475	1.7	23.53	**2KJ1104 - ■FM13 - ■■Q1**		62
	65	**78**	439	1.8	21.76 ★	**2KJ1104 - ■FM13 - ■■P1**		62
	70	**84**	408	2.0	20.20	**2KJ1104 - ■FM13 - ■■N1**		62
	80	**96**	360	2.2	17.82 ★	**2KJ1104 - ■FM13 - ■■M1**		62
	86	**103**	332	2.4	16.45	**2KJ1104 - ■FM13 - ■■L1**		62
	96	**115**	297	2.7	14.74 ★	**2KJ1104 - ■FM13 - ■■K1**		62
	104	**125**	274	2.9	13.59	**2KJ1104 - ■FM13 - ■■J1**		62
	125	**150**	230	3.4	11.40	**2KJ1104 - ■FM13 - ■■H1**		62
	146	**175**	196	3.8	9.73 ★	**2KJ1104 - ■FM13 - ■■G1**		62
	239	**287**	120	4.1	5.93	**2KJ1104 - ■FM13 - ■■D1**		62
	281	**337**	102	4.7	5.06 ★	**2KJ1104 - ■FM13 - ■■C1**		62
	Z.48-LA100LB4							
	54	**65**	535	0.84	26.53	**2KJ1103 - ■FM13 - ■■S1**		45
	62	**74**	465	0.97	23.07 ★	**2KJ1103 - ■FM13 - ■■R1**		45
	68	**82**	423	1.1	20.95	**2KJ1103 - ■FM13 - ■■Q1**		45
	74	**89**	386	1.2	19.13 ★	**2KJ1103 - ■FM13 - ■■P1**		45
	81	**97**	354	1.3	17.55	**2KJ1103 - ■FM13 - ■■N1**		45
	88	**106**	326	1.3	16.17 ★	**2KJ1103 - ■FM13 - ■■M1**		45
	97	**116**	296	1.4	14.68	**2KJ1103 - ■FM13 - ■■L1**		45
	106	**127**	270	1.5	13.38 ★	**2KJ1103 - ■FM13 - ■■K1**		45
	116	**139**	247	1.6	12.25	**2KJ1103 - ■FM13 - ■■J1**		45
	130	**156**	221	1.8	10.93 ★	**2KJ1103 - ■FM13 - ■■H1**		45
	145	**174**	197	1.9	9.76	**2KJ1103 - ■FM13 - ■■G1**		45
	171	**205**	167	2.2	8.29	**2KJ1103 - ■FM13 - ■■F1**		45
	206	**247**	139	2.4	6.90 ★	**2KJ1103 - ■FM13 - ■■E1**		45
	209	**251**	137	2.0	6.79 ★	**2KJ1103 - ■FM13 - ■■D1**		45
	234	**281**	122	2.2	6.06	**2KJ1103 - ■FM13 - ■■C1**		45
	276	**331**	104	2.6	5.15	**2KJ1103 - ■FM13 - ■■B1**		45
	332	**398**	86	3.0	4.28 ★	**2KJ1103 - ■FM13 - ■■A1**		45
	Z.38-LA100LB4							
	110	**132**	261	0.84	12.92	**2KJ1102 - ■FM13 - ■■M1**		35
	120	**144**	238	0.92	11.82 ★	**2KJ1102 - ■FM13 - ■■L1**		35
	134	**161**	213	0.98	10.57	**2KJ1102 - ■FM13 - ■■K1**		35
	146	**175**	196	1.0	9.70 ★	**2KJ1102 - ■FM13 - ■■J1**		35
	162	**194**	177	1.1	8.75	**2KJ1102 - ■FM13 - ■■H1**		35
	189	**227**	151	1.2	7.50 ★	**2KJ1102 - ■FM13 - ■■F1**		35
	189	**227**	152	1.3	7.52 ★	**2KJ1102 - ■FM13 - ■■G1**		35
	212	**254**	135	1.3	6.71	**2KJ1102 - ■FM13 - ■■D1**		35
	231	**277**	124	1.4	6.16 ★	**2KJ1102 - ■FM13 - ■■C1**		35

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
3.0 (50 Hz)	**Z.38-LA100LB4**							
3.6 (60 Hz)	**256**	**307**	112	1.5	5.55	**2KJ1102 - ■FM13 - ■■B1**		35
	298	**358**	96	1.7	4.77 ★	**2KJ1102 - ■FM13 - ■■A1**		35
	E.128-LA100LB4							
	140	**168**	205	2.7	10.14 ★	**2KJ1006 - ■FM13 - ■■T1**		119
	151	**181**	190	3.1	9.40	**2KJ1006 - ■FM13 - ■■S1**		119
	159	**191**	180	3.5	8.94 ★	**2KJ1006 - ■FM13 - ■■R1**		119
	170	**204**	168	4.2	8.35	**2KJ1006 - ■FM13 - ■■Q1**		119
	E.88-LA100LB4							
	137	**164**	208	1.1	10.33 ★	**2KJ1004 - ■FM13 - ■■S1**		61
	150	**180**	191	1.1	9.46	**2KJ1004 - ■FM13 - ■■R1**		61
	169	**203**	170	1.4	8.42 ★	**2KJ1004 - ■FM13 - ■■Q1**		61
	185	**222**	155	1.6	7.69	**2KJ1004 - ■FM13 - ■■P1**		61
	201	**241**	143	2.0	7.07 ★	**2KJ1004 - ■FM13 - ■■N1**		61
	217	**260**	132	2.3	6.53	**2KJ1004 - ■FM13 - ■■M1**		61
	234	**281**	122	2.3	6.06 ★	**2KJ1004 - ■FM13 - ■■L1**		61
	251	**301**	114	2.8	5.65	**2KJ1004 - ■FM13 - ■■K1**		61
	278	**334**	103	3.6	5.11 ★	**2KJ1004 - ■FM13 - ■■J1**		61
	302	**362**	95	4.1	4.70	**2KJ1004 - ■FM13 - ■■H1**		61
	336	**403**	85	4.7	4.23 ★	**2KJ1004 - ■FM13 - ■■G1**		61
	364	**437**	79	4.9	3.90	**2KJ1004 - ■FM13 - ■■F1**		61
	E.68-LA100LB4							
	161	**193**	178	0.84	8.82	**2KJ1003 - ■FM13 - ■■T1**		44
	179	**215**	160	1.1	7.92 ★	**2KJ1003 - ■FM13 - ■■S1**		44
	196	**235**	146	1.0	7.23	**2KJ1003 - ■FM13 - ■■R1**		44
	221	**265**	130	1.3	6.42 ★	**2KJ1003 - ■FM13 - ■■P1**		44
	240	**288**	119	1.6	5.92	**2KJ1003 - ■FM13 - ■■N1**		44
	265	**318**	108	2.0	5.36 ★	**2KJ1003 - ■FM13 - ■■M1**		44
	288	**346**	100	2.3	4.93	**2KJ1003 - ■FM13 - ■■L1**		44
	311	**373**	92	2.4	4.56 ★	**2KJ1003 - ■FM13 - ■■K1**		44
	335	**402**	86	2.7	4.24	**2KJ1003 - ■FM13 - ■■J1**		44
	380	**456**	76	3.0	3.74 ★	**2KJ1003 - ■FM13 - ■■H1**		44
	412	**494**	70	3.4	3.45	**2KJ1003 - ■FM13 - ■■G1**		44
	460	**552**	62	4.0	3.09 ★	**2KJ1003 - ■FM13 - ■■F1**		44
	498	**598**	58	4.3	2.85	**2KJ1003 - ■FM13 - ■■E1**		44
	594	**713**	48	4.8	2.39	**2KJ1003 - ■FM13 - ■■D1**		44
	696	**835**	41	5.1	2.04 ★	**2KJ1003 - ■FM13 - ■■C1**		44
	835	**1 002**	34	5.1	1.70	**2KJ1003 - ■FM13 - ■■B1**		44
	1 007	**1 208**	28	5.3	1.41 ★	**2KJ1003 - ■FM13 - ■■A1**		44
	E.48-LA100LB4							
	224	**269**	128	0.9	6.33 ★	**2KJ1002 - ■FM13 - ■■P1**		34
	243	**292**	118	1	5.85	**2KJ1002 - ■FM13 - ■■N1**		34
	280	**336**	102	1.2	5.08 ★	**2KJ1002 - ■FM13 - ■■M1**		34
	307	**368**	93	1.4	4.62	**2KJ1002 - ■FM13 - ■■L1**		34

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**
Frequency and voltage, see page 8/20 — **1 to 9**
Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight *) kg
3.0 (50 Hz) 3.6 (60 Hz)	**E.48-LA100LB4**							
	337	**404**	85	1.8	4.21 ★	**2KJ1002 - ■FM13 - ■■K1**		34
	367	**440**	78	2.0	3.87	**2KJ1002 - ■FM13 - ■■J1**		34
	399	**479**	72	1.9	3.56 ★	**2KJ1002 - ■FM13 - ■■H1**		34
	438	**526**	65	2.3	3.24	**2KJ1002 - ■FM13 - ■■G1**		34
	481	**577**	60	2.9	2.95 ★	**2KJ1002 - ■FM13 - ■■F1**		34
	526	**631**	54	2.9	2.70	**2KJ1002 - ■FM13 - ■■E1**		34
	589	**707**	49	3.1	2.41 ★	**2KJ1002 - ■FM13 - ■■D1**		34
	660	**792**	43	3.1	2.15	**2KJ1002 - ■FM13 - ■■C1**		34
	776	**931**	37	3.1	1.83	**2KJ1002 - ■FM13 - ■■B1**		34
	934	**1 121**	31	3.3	1.52 ★	**2KJ1002 - ■FM13 - ■■A1**		34
	E.38-LA100LB4							
	310	**372**	92	0.84	4.58 ★	**2KJ1001 - ■FM13 - ■■L1**		31
	387	**464**	74	0.95	3.67 ★	**2KJ1001 - ■FM13 - ■■J1**		31
	429	**515**	67	0.97	3.31	**2KJ1001 - ■FM13 - ■■H1**		31
	473	**568**	60	1.3	3.00 ★	**2KJ1001 - ■FM13 - ■■G1**		31
	520	**624**	55	1.5	2.73	**2KJ1001 - ■FM13 - ■■F1**		31
	634	**761**	45	1.6	2.24	**2KJ1001 - ■FM13 - ■■D1**		31
	693	**832**	41	1.9	2.05 ★	**2KJ1001 - ■FM13 - ■■C1**		31
	768	**922**	37	2.2	1.85	**2KJ1001 - ■FM13 - ■■B1**		31
	893	**1 072**	32	2.2	1.59 ★	**2KJ1001 - ■FM13 - ■■A1**		31
4.0 (50 Hz) 4.8 (60 Hz)	**D.188-Z68-LA112MB4**							
	1.6	**1.9**	21 939	0.91	896 ★	**2KJ1237 - ■GH13 - ■■G1**		645
	1.9	**2.3**	18 266	1.1	746	**2KJ1237 - ■GH13 - ■■F1**		645
	2.3	**2.8**	15 157	1.3	619 ★	**2KJ1237 - ■GH13 - ■■E1**		645
	2.6	**3.1**	13 369	1.5	546	**2KJ1237 - ■GH13 - ■■D1**		645
	D.188-LA160M8							
	2.9	**3.5**	13 026	1.5	243.82	**2KJ1211 - ■JE13 - ■■N1**	**P02**	676
	3.2	**3.8**	11 763	1.7	220.17	**2KJ1211 - ■JE13 - ■■M1**	**P02**	676
	3.5	**4.2**	11 024	1.8	206.34	**2KJ1211 - ■JE13 - ■■L1**	**P02**	676
	D.188-LA132MA6							
	3.9	**4.7**	9 804	2.0	243.82	**2KJ1211 - ■HG13 - ■■N1**	**P01**	652
	D.168-LA132MA6							
	2.8	**3.4**	13 736	1.0	341.61 ★	**2KJ1210 - ■HG13 - ■■U1**	**P01**	507
	3.0	**3.6**	12 602	1.1	313.41	**2KJ1210 - ■HG13 - ■■T1**	**P01**	507
	3.3	**4.0**	11 630	1.2	289.23 ★	**2KJ1210 - ■HG13 - ■■S1**	**P01**	507
	3.5	**4.2**	10 788	1.3	268.29	**2KJ1210 - ■HG13 - ■■R1**	**P01**	507
	3.8	**4.6**	10 176	1.4	253.08 ★	**2KJ1210 - ■HG13 - ■■Q1**	**P01**	507
	4.0	**4.8**	9 519	1.5	236.72	**2KJ1210 - ■HG13 - ■■P1**	**P01**	507
	D.148-LA132MA6							
	4.0	**4.8**	9 492	0.84	236.05	**2KJ1208 - ■HG13 - ■■S1**	**P01**	336
	D.148-LA112MB4							
	4.3	**5.2**	8 916	0.9	336.11	**2KJ1208 - ■GH13 - ■■W1**		318

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**
Frequency and voltage, see page 8/20 — **1 to 9**
Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
4.0 (50 Hz) 4.8 (60 Hz)	**D.148-LA112MB4**							
	4.8	**5.8**	7 994	1	301.34 ★	**2KJ1208 - ■GH13 - ■■V1**		318
	5.2	**6.2**	7 328	1.1	276.23	**2KJ1208 - ■GH13 - ■■U1**		318
	5.7	**6.8**	6 757	1.2	254.70 ★	**2KJ1208 - ■GH13 - ■■T1**		318
	6.1	**7.3**	6 262	1.3	236.05	**2KJ1208 - ■GH13 - ■■S1**		318
	6.4	**7.7**	5 954	1.3	224.43 ★	**2KJ1208 - ■GH13 - ■■R1**		318
	6.9	**8.3**	5 564	1.4	209.76	**2KJ1208 - ■GH13 - ■■Q1**		318
	7.8	**9.4**	4 908	1.6	185.03 ★	**2KJ1208 - ■GH13 - ■■P1**		318
	8.3	**10**	4 630	1.7	174.53	**2KJ1208 - ■GH13 - ■■N1**		318
	9.2	**11**	4 148	1.9	156.38 ★	**2KJ1208 - ■GH13 - ■■M1**		318
	10	**12**	3 830	2.1	144.39	**2KJ1208 - ■GH13 - ■■L1**		318
	D.128-LA112MB4							
	6.6	**7.9**	5 829	0.87	219.72 ★	**2KJ1207 - ■GH13 - ■■S1**		228
	7.2	**8.6**	5 338	0.96	201.22	**2KJ1207 - ■GH13 - ■■R1**		228
	7.8	**9.4**	4 917	1.0	185.36 ★	**2KJ1207 - ■GH13 - ■■Q1**		228
	8.4	**10.1**	4 553	1.1	171.62	**2KJ1207 - ■GH13 - ■■P1**		228
	9.0	**10.8**	4 234	1.2	159.60 ★	**2KJ1207 - ■GH13 - ■■N1**		228
	9.7	**11.6**	3 952	1.3	148.99	**2KJ1207 - ■GH13 - ■■M1**		228
	10.8	**13.0**	3 536	1.4	133.30 ★	**2KJ1207 - ■GH13 - ■■L1**		228
	11.7	**14.0**	3 277	1.6	123.53	**2KJ1207 - ■GH13 - ■■K1**		228
	12.7	**15.2**	3 004	1.7	113.24 ★	**2KJ1207 - ■GH13 - ■■J1**		228
	13.9	**16.7**	2 754	1.9	103.80	**2KJ1207 - ■GH13 - ■■H1**		228
	16.3	**19.6**	2 347	2.2	88.46	**2KJ1207 - ■GH13 - ■■G1**		228
	D.108-LA112MB4							
	10.3	**12.4**	3 724	0.83	140.37	**2KJ1206 - ■GH13 - ■■K1**		151
	11.3	**13.6**	3 366	0.92	126.90 ★	**2KJ1206 - ■GH13 - ■■J1**		151
	12.3	**14.8**	3 099	1	116.83	**2KJ1206 - ■GH13 - ■■H1**		151
	13.7	**16.4**	2 788	1.1	105.08 ★	**2KJ1206 - ■GH13 - ■■G1**		151
	14.9	**17.9**	2 572	1.2	96.94	**2KJ1206 - ■GH13 - ■■F1**		151
	17.5	**21**	2 179	1.4	82.14	**2KJ1206 - ■GH13 - ■■E1**		151
	20	**24**	1 899	1.6	71.59 ★	**2KJ1206 - ■GH13 - ■■D1**		151
	24	**29**	1 616	1.9	60.90	**2KJ1206 - ■GH13 - ■■C1**		151
	Z.108-LA112MB4							
	24	**29**	1 566	1.5	59.05 ★	**2KJ1106 - ■GH13 - ■■E2**		147
	27	**32**	1 436	1.6	54.15	**2KJ1106 - ■GH13 - ■■D2**		147
	30	**36**	1 283	2.4	48.38 ★	**2KJ1106 - ■GH13 - ■■C2**		147
	D.88-LA112MB4							
	19.2	**23**	1 986	0.85	74.88 ★	**2KJ1205 - ■GH13 - ■■F1**		103
	21	**25**	1 832	0.92	69.05	**2KJ1205 - ■GH13 - ■■E1**		103
	25	**30**	1 537	1.1	57.93	**2KJ1205 - ■GH13 - ■■D1**		103
	Z.88-LA112MB4							
	32	**38**	1 214	1.4	45.76 ★	**2KJ1105 - ■GH13 - ■■A2**		101
	34	**41**	1 112	1.5	41.90	**2KJ1105 - ■GH13 - ■■X1**		101
	39	**47**	989	1.7	37.27 ★	**2KJ1105 - ■GH13 - ■■W1**		101

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
4.0 (50 Hz) 4.8 (60 Hz)	**Z.88-LA112MB4**							
	42	**50**	904	1.9	34.07	**2KJ1105 - ■GH13 - ■■V1**		101
	46	**55**	831	2.0	31.32 ★	**2KJ1105 - ■GH13 - ■■U1**		101
	50	**60**	767	2.2	28.93	**2KJ1105 - ■GH13 - ■■T1**		101
	54	**65**	712	2.4	26.85 ★	**2KJ1105 - ■GH13 - ■■S1**		101
	58	**70**	663	2.5	25.01	**2KJ1105 - ■GH13 - ■■R1**		101
	64	**77**	600	2.8	22.61 ★	**2KJ1105 - ■GH13 - ■■Q1**		101
	69	**83**	552	3.0	20.81	**2KJ1105 - ■GH13 - ■■P1**		101
	Z.68-LA112MB4							
	38	**46**	1 002	0.80	37.76 ★	**2KJ1104 - ■GH13 - ■■V1**		69
	42	**50**	915	0.87	34.49	**2KJ1104 - ■GH13 - ■■U1**		69
	47	**56**	812	0.99	30.60 ★	**2KJ1104 - ■GH13 - ■■T1**		69
	51	**61**	749	1.1	28.25	**2KJ1104 - ■GH13 - ■■S1**		69
	56	**67**	678	1.2	25.55 ★	**2KJ1104 - ■GH13 - ■■R1**		69
	61	**73**	624	1.3	23.53	**2KJ1104 - ■GH13 - ■■Q1**		69
	66	**79**	577	1.4	21.76 ★	**2KJ1104 - ■GH13 - ■■P1**		69
	71	**85**	536	1.5	20.20	**2KJ1104 - ■GH13 - ■■N1**		69
	81	**97**	473	1.7	17.82 ★	**2KJ1104 - ■GH13 - ■■M1**		69
	88	**106**	436	1.8	16.45	**2KJ1104 - ■GH13 - ■■L1**		69
	98	**118**	391	2.0	14.74 ★	**2KJ1104 - ■GH13 - ■■K1**		69
	106	**127**	361	2.2	13.59	**2KJ1104 - ■GH13 - ■■J1**		69
	126	**151**	302	2.6	11.40	**2KJ1104 - ■GH13 - ■■H1**		69
	148	**178**	258	2.9	9.73 ★	**2KJ1104 - ■GH13 - ■■G1**		69
	178	**214**	215	3.3	8.11	**2KJ1104 - ■GH13 - ■■F1**		69
	214	**257**	178	3.6	6.72 ★	**2KJ1104 - ■GH13 - ■■E1**		69
	243	**292**	157	3.1	5.93	**2KJ1104 - ■GH13 - ■■D1**		69
	285	**342**	134	3.6	5.06 ★	**2KJ1104 - ■GH13 - ■■C1**		69
	341	**409**	112	4.2	4.22	**2KJ1104 - ■GH13 - ■■B1**		69
	413	**496**	93	4.5	3.49 ★	**2KJ1104 - ■GH13 - ■■A1**		69
	Z.48-LA112MB4							
	69	**83**	556	0.81	20.95	**2KJ1103 - ■GH13 - ■■Q1**		52
	75	**90**	507	0.89	19.13 ★	**2KJ1103 - ■GH13 - ■■P1**		52
	82	**98**	466	0.97	17.55	**2KJ1103 - ■GH13 - ■■N1**		52
	89	**107**	429	1.0	16.17 ★	**2KJ1103 - ■GH13 - ■■M1**		52
	98	**118**	389	1.1	14.68	**2KJ1103 - ■GH13 - ■■L1**		52
	108	**130**	355	1.2	13.38 ★	**2KJ1103 - ■GH13 - ■■K1**		52
	118	**142**	325	1.2	12.25	**2KJ1103 - ■GH13 - ■■J1**		52
	132	**158**	290	1.3	10.93 ★	**2KJ1103 - ■GH13 - ■■H1**		52
	148	**178**	259	1.5	9.76	**2KJ1103 - ■GH13 - ■■G1**		52
	174	**209**	220	1.6	8.29	**2KJ1103 - ■GH13 - ■■F1**		52
	209	**251**	183	1.9	6.90 ★	**2KJ1103 - ■GH13 - ■■E1**		52
	212	**254**	180	1.5	6.79 ★	**2KJ1103 - ■GH13 - ■■D1**		52
	238	**286**	161	1.7	6.06	**2KJ1103 - ■GH13 - ■■C1**		52
	280	**336**	137	2.0	5.15	**2KJ1103 - ■GH13 - ■■B1**		52

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
4.0 (50 Hz)	**Z.48-LA112MB4**							
4.8 (60 Hz)	**336**	**403**	114	2.3	4.28 ★	**2KJ1103 - ■GH13 - ■■A1**		52
	Z.38-LA112MB4							
	165	**198**	232	0.84	8.75	**2KJ1102 - ■GH13 - ■■H1**		42
	191	**229**	199	0.95	7.52 ★	**2KJ1102 - ■GH13 - ■■G1**		42
	192	**230**	199	0.93	7.50 ★	**2KJ1102 - ■GH13 - ■■F1**		42
	215	**258**	178	1.0	6.71	**2KJ1102 - ■GH13 - ■■D1**		42
	234	**281**	163	1.0	6.16 ★	**2KJ1102 - ■GH13 - ■■C1**		42
	259	**311**	147	1.1	5.55	**2KJ1102 - ■GH13 - ■■B1**		42
	302	**362**	127	1.3	4.77 ★	**2KJ1102 - ■GH13 - ■■A1**		42
	E.128-LA112MB4							
	142	**170**	269	2.0	10.14 ★	**2KJ1006 - ■GH13 - ■■T1**		126
	153	**184**	249	2.3	9.40	**2KJ1006 - ■GH13 - ■■S1**		126
	161	**193**	237	2.7	8.94 ★	**2KJ1006 - ■GH13 - ■■R1**		126
	172	**206**	222	3.2	8.35	**2KJ1006 - ■GH13 - ■■Q1**		126
	195	**234**	196	4.2	7.37 ★	**2KJ1006 - ■GH13 - ■■P1**		126
	E.108-LA112MB4							
	264	**317**	145	4.6	5.46 ★	**2KJ1005 - ■GH13 - ■■K1**		89
	E.88-LA112MB4							
	139	**167**	274	0.84	10.33 ★	**2KJ1004 - ■GH13 - ■■S1**		68
	152	**182**	251	0.84	9.46	**2KJ1004 - ■GH13 - ■■R1**		68
	171	**205**	223	1.1	8.42 ★	**2KJ1004 - ■GH13 - ■■Q1**		68
	187	**224**	204	1.2	7.69	**2KJ1004 - ■GH13 - ■■P1**		68
	204	**245**	188	1.5	7.07 ★	**2KJ1004 - ■GH13 - ■■N1**		68
	221	**265**	173	1.7	6.53	**2KJ1004 - ■GH13 - ■■M1**		68
	238	**286**	161	1.7	6.06 ★	**2KJ1004 - ■GH13 - ■■L1**		68
	255	**306**	150	2.1	5.65	**2KJ1004 - ■GH13 - ■■K1**		68
	282	**338**	136	2.7	5.11 ★	**2KJ1004 - ■GH13 - ■■J1**		68
	306	**367**	125	3.1	4.70	**2KJ1004 - ■GH13 - ■■H1**		68
	340	**408**	112	3.6	4.23 ★	**2KJ1004 - ■GH13 - ■■G1**		68
	369	**443**	103	3.7	3.90	**2KJ1004 - ■GH13 - ■■F1**		68
	436	**523**	88	5.1	3.30	**2KJ1004 - ■GH13 - ■■E1**		68
	500	**600**	76	5.7	2.88 ★	**2KJ1004 - ■GH13 - ■■D1**		68
	E.68-LA112MB4							
	182	**218**	210	0.81	7.92 ★	**2KJ1003 - ■GH13 - ■■S1**		51
	224	**269**	170	1.0	6.42 ★	**2KJ1003 - ■GH13 - ■■P1**		51
	243	**292**	157	1.2	5.92	**2KJ1003 - ■GH13 - ■■N1**		51
	269	**323**	142	1.5	5.36 ★	**2KJ1003 - ■GH13 - ■■M1**		51
	292	**350**	131	1.7	4.93	**2KJ1003 - ■GH13 - ■■L1**		51
	316	**379**	121	1.8	4.56 ★	**2KJ1003 - ■GH13 - ■■K1**		51
	340	**408**	112	2.0	4.24	**2KJ1003 - ■GH13 - ■■J1**		51
	385	**462**	99	2.3	3.74 ★	**2KJ1003 - ■GH13 - ■■H1**		51
	417	**500**	92	2.6	3.45	**2KJ1003 - ■GH13 - ■■G1**		51
	466	**559**	82	3.0	3.09 ★	**2KJ1003 - ■GH13 - ■■F1**		51

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
4.0 (50 Hz) 4.8 (60 Hz)	**E.68-LA112MB4**							
	505	**606**	76	3.3	2.85	**2KJ1003 - ■GH13 - ■■E1**		51
	603	**724**	63	3.6	2.39	**2KJ1003 - ■GH13 - ■■D1**		51
	706	**847**	54	3.9	2.04 ★	**2KJ1003 - ■GH13 - ■■C1**		51
	847	**1 016**	45	3.9	1.70	**2KJ1003 - ■GH13 - ■■B1**		51
	1 021	**1 225**	37	4.0	1.41 ★	**2KJ1003 - ■GH13 - ■■A1**		51
	E.48-LA112MB4							
	283	**340**	135	0.89	5.08 ★	**2KJ1002 - ■GH13 - ■■M1**		41
	312	**374**	123	1.1	4.62	**2KJ1002 - ■GH13 - ■■L1**		41
	342	**410**	112	1.3	4.21 ★	**2KJ1002 - ■GH13 - ■■K1**		41
	372	**446**	103	1.6	3.87	**2KJ1002 - ■GH13 - ■■J1**		41
	404	**485**	94	1.5	3.56 ★	**2KJ1002 - ■GH13 - ■■H1**		41
	444	**533**	86	1.7	3.24	**2KJ1002 - ■GH13 - ■■G1**		41
	488	**586**	78	2.2	2.95 ★	**2KJ1002 - ■GH13 - ■■F1**		41
	533	**640**	72	2.2	2.70	**2KJ1002 - ■GH13 - ■■E1**		41
	598	**718**	64	2.3	2.41 ★	**2KJ1002 - ■GH13 - ■■D1**		41
	670	**804**	57	2.4	2.15	**2KJ1002 - ■GH13 - ■■C1**		41
	787	**944**	48	2.4	1.83	**2KJ1002 - ■GH13 - ■■B1**		41
	947	**1 136**	40	2.5	1.52 ★	**2KJ1002 - ■GH13 - ■■A1**		41
	E.38-LA112MB4							
	480	**576**	80	1.0	3.00 ★	**2KJ1001 - ■GH13 - ■■G1**		38
	527	**632**	72	1.1	2.73	**2KJ1001 - ■GH13 - ■■F1**		38
	702	**842**	54	1.5	2.05 ★	**2KJ1001 - ■GH13 - ■■C1**		38
	778	**934**	49	1.7	1.85	**2KJ1001 - ■GH13 - ■■B1**		38
	906	**1 087**	42	1.7	1.59 ★	**2KJ1001 - ■GH13 - ■■A1**		38
5.5 (50 Hz) 6.6 (60 Hz)	**D.188-Z68-LA132SB4**							
	2.0	**2.4**	24 909	0.8	746	**2KJ1237 - ■HF13 - ■■F1**		655
	2.4	**2.9**	20 668	0.97	619 ★	**2KJ1237 - ■HF13 - ■■E1**		655
	2.7	**3.2**	18 231	1.1	546	**2KJ1237 - ■HF13 - ■■D1**		655
	D.188-LA160MB8							
	2.9	**3.5**	18 038	1.1	243.82	**2KJ1211 - ■JF13 - ■■N1**	**P02**	676
	3.2	**3.8**	16 288	1.2	220.17	**2KJ1211 - ■JF13 - ■■M1**	**P02**	676
	3.4	**4.1**	15 265	1.3	206.34	**2KJ1211 - ■JF13 - ■■L1**	**P02**	676
	3.9	**4.7**	13 481	1.5	243.82	**2KJ1211 - ■HJ13 - ■■N1**	**P02**	652
	4.3	**5.2**	12 173	1.6	220.17	**2KJ1211 - ■HJ13 - ■■M1**	**P02**	652
	4.6	**5.5**	11 408	1.8	206.34	**2KJ1211 - ■HJ13 - ■■L1**	**P02**	652
	D.168-LA132MB6							
	3.0	**3.6**	17 328	0.81	313.41	**2KJ1210 - ■HJ13 - ■■T1**	**P01**	507
	3.3	**4.0**	15 991	0.88	289.23 ★	**2KJ1210 - ■HJ13 - ■■S1**	**P01**	507
	3.5	**4.2**	14 834	0.94	268.29	**2KJ1210 - ■HJ13 - ■■R1**	**P01**	507
	3.8	**4.6**	13 993	1.0	253.08 ★	**2KJ1210 - ■HJ13 - ■■Q1**	**P01**	507
	4.0	**4.8**	13 088	1.1	236.72	**2KJ1210 - ■HJ13 - ■■P1**	**P01**	507

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
5.5 (50 Hz) 6.6 (60 Hz)	**D.168-LA132SB4**							
	4.3	**5.2**	12 332	1.1	341.61 ★	**2KJ1210 - ■HF13 - ■■U1**		499
	4.6	**5.5**	11 314	1.2	313.41	**2KJ1210 - ■HF13 - ■■T1**		499
	5.0	**6.0**	10 441	1.3	289.23 ★	**2KJ1210 - ■HF13 - ■■S1**		499
	5.4	**6.5**	9 685	1.4	268.29	**2KJ1210 - ■HF13 - ■■R1**		499
	5.7	**6.8**	9 136	1.5	253.08 ★	**2KJ1210 - ■HF13 - ■■Q1**		499
	6.1	**7.3**	8 546	1.6	236.72	**2KJ1210 - ■HF13 - ■■P1**		499
	6.9	**8.3**	7 599	1.8	210.49 ★	**2KJ1210 - ■HF13 - ■■N1**		499
	7.3	**8.8**	7 173	2.0	198.71	**2KJ1210 - ■HF13 - ■■M1**		499
	D.148-LA132SB4							
	5.3	**6.4**	9 972	0.8	276.23	**2KJ1208 - ■HF13 - ■■U1**		328
	5.7	**6.8**	9 195	0.87	254.70 ★	**2KJ1208 - ■HF13 - ■■T1**		328
	6.2	**7.4**	8 521	0.94	236.05	**2KJ1208 - ■HF13 - ■■S1**		328
	6.5	**7.8**	8 102	0.99	224.43 ★	**2KJ1208 - ■HF13 - ■■R1**		328
	6.9	**8.3**	7 572	1.1	209.76	**2KJ1208 - ■HF13 - ■■Q1**		328
	7.9	**9.5**	6 680	1.2	185.03 ★	**2KJ1208 - ■HF13 - ■■P1**		328
	8.3	**10.0**	6 300	1.3	174.53	**2KJ1208 - ■HF13 - ■■N1**		328
	9.3	**11.2**	5 645	1.4	156.38 ★	**2KJ1208 - ■HF13 - ■■M1**		328
	10.1	**12.1**	5 212	1.5	144.39	**2KJ1208 - ■HF13 - ■■L1**		328
	11.8	**14.2**	4 454	1.8	123.37	**2KJ1208 - ■HF13 - ■■K1**		328
	13.0	**15.6**	4 025	2.0	111.50 ★	**2KJ1208 - ■HF13 - ■■J1**		328
	13.5	**16.2**	3 878	2.1	107.42	**2KJ1208 - ■HF13 - ■■H1**		328
	Z.148-LA132SB4							
	25	**30**	2 076	2.2	57.50	**2KJ1108 - ■HF13 - ■■B2**		316
	D.128-LA132SB4							
	8.5	**10.2**	6 195	0.82	171.62	**2KJ1207 - ■HF13 - ■■P1**		238
	9.1	**10.9**	5 762	0.89	159.60 ★	**2KJ1207 - ■HF13 - ■■N1**		238
	9.8	**11.8**	5 378	0.95	148.99	**2KJ1207 - ■HF13 - ■■M1**		238
	10.9	**13.1**	4 812	1.1	133.30 ★	**2KJ1207 - ■HF13 - ■■L1**		238
	11.8	**14.2**	4 459	1.1	123.53	**2KJ1207 - ■HF13 - ■■K1**		238
	12.8	**15.4**	4 088	1.2	113.24 ★	**2KJ1207 - ■HF13 - ■■J1**		238
	14.0	**16.8**	3 747	1.4	103.80	**2KJ1207 - ■HF13 - ■■H1**		238
	16.4	**19.7**	3 193	1.6	88.46	**2KJ1207 - ■HF13 - ■■G1**		238
	18.6	**22.0**	2 818	1.8	78.06 ★	**2KJ1207 - ■HF13 - ■■F1**		238
	22.0	**26.0**	2 398	2.1	66.43	**2KJ1207 - ■HF13 - ■■E1**		238
	Z.128-LA132SB4							
	33	**40**	1 595	2.1	44.19 ★	**2KJ1107 - ■HF13 - ■■D2**		229
	36	**43**	1 479	2.2	40.96	**2KJ1107 - ■HF13 - ■■C2**		229
	D.108-LA132SB4							
	13.8	**16.6**	3 793	0.82	105.08 ★	**2KJ1206 - ■HF13 - ■■G1**		161
	15	**18**	3 500	0.89	96.94	**2KJ1206 - ■HF13 - ■■F1**		161
	17.7	**21**	2 965	1.0	82.14	**2KJ1206 - ■HF13 - ■■E1**		161
	20	**24**	2 584	1.2	71.59 ★	**2KJ1206 - ■HF13 - ■■D1**		161
	24	**29**	2 198	1.4	60.90	**2KJ1206 - ■HF13 - ■■C1**		161

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
5.5 (50 Hz) 6.6 (60 Hz)	**Z.108-LA132SB4**							
	30	**36**	1 747	1.8	48.38 ★	**2KJ1106 - ■HF13 - ■■C2**		157
	33	**40**	1 600	1.9	44.31	**2KJ1106 - ■HF13 - ■■B2**		157
	36	**43**	1 474	2.1	40.82 ★	**2KJ1106 - ■HF13 - ■■A2**		157
	38	**46**	1 364	2.3	37.79	**2KJ1106 - ■HF13 - ■■X1**		157
	41	**49**	1 269	2.4	35.14 ★	**2KJ1106 - ■HF13 - ■■W1**		157
	44	**53**	1 184	2.6	32.81	**2KJ1106 - ■HF13 - ■■V1**		157
	D.88-LA132SB4							
	25	**30**	2 091	0.80	57.93	**2KJ1205 - ■HF13 - ■■D1**		113
	29	**35**	1 784	0.94	49.42 ★	**2KJ1205 - ■HF13 - ■■C1**		113
	35	**42**	1 487	1.10	41.19	**2KJ1205 - ■HF13 - ■■B1**		113
	Z.88-LA132SB4							
	39	**47**	1 345	1.2	37.27 ★	**2KJ1105 - ■HF13 - ■■W1**		111
	43	**52**	1 230	1.4	34.07	**2KJ1105 - ■HF13 - ■■V1**		111
	46	**55**	1 131	1.5	31.32 ★	**2KJ1105 - ■HF13 - ■■U1**		111
	50	**60**	1 044	1.6	28.93	**2KJ1105 - ■HF13 - ■■T1**		111
	54	**65**	969	1.7	26.85 ★	**2KJ1105 - ■HF13 - ■■S1**		111
	58	**70**	903	1.9	25.01	**2KJ1105 - ■HF13 - ■■R1**		111
	64	**77**	816	2.1	22.61 ★	**2KJ1105 - ■HF13 - ■■Q1**		111
	70	**84**	751	2.2	20.81	**2KJ1105 - ■HF13 - ■■P1**		111
	78	**94**	676	2.5	18.72 ★	**2KJ1105 - ■HF13 - ■■N1**		111
	84	**101**	623	2.7	17.27	**2KJ1105 - ■HF13 - ■■M1**		111
	100	**120**	528	3.1	14.63	**2KJ1105 - ■HF13 - ■■L1**		111
	114	**137**	460	3.4	12.75 ★	**2KJ1105 - ■HF13 - ■■K1**		111
	134	**161**	392	3.8	10.85	**2KJ1105 - ■HF13 - ■■J1**		111
	327	**392**	161	5.0	4.45 ★	**2KJ1105 - ■HF13 - ■■C1**		111
	384	**461**	137	5.4	3.79 ★	**2KJ1105 - ■HF13 - ■■B1**		111
	Z.68-LA132SB4							
	57	**68**	922	0.87	25.55 ★	**2KJ1104 - ■HF13 - ■■R1**		79
	62	**74**	849	0.94	23.53	**2KJ1104 - ■HF13 - ■■Q1**		79
	67	**80**	786	1.0	21.76 ★	**2KJ1104 - ■HF13 - ■■P1**		79
	72	**86**	729	1.1	20.20	**2KJ1104 - ■HF13 - ■■N1**		79
	82	**98**	643	1.2	17.82 ★	**2KJ1104 - ■HF13 - ■■M1**		79
	88	**106**	594	1.3	16.45	**2KJ1104 - ■HF13 - ■■L1**		79
	99	**119**	532	1.5	14.74 ★	**2KJ1104 - ■HF13 - ■■K1**		79
	107	**128**	491	1.6	13.59	**2KJ1104 - ■HF13 - ■■J1**		79
	128	**154**	412	1.9	11.40	**2KJ1104 - ■HF13 - ■■H1**		79
	150	**180**	351	2.1	9.73 ★	**2KJ1104 - ■HF13 - ■■G1**		79
	179	**215**	293	2.4	8.11	**2KJ1104 - ■HF13 - ■■F1**		79
	217	**260**	243	2.7	6.72 ★	**2KJ1104 - ■HF13 - ■■E1**		79
	245	**294**	214	2.3	5.93	**2KJ1104 - ■HF13 - ■■D1**		79
	288	**346**	183	2.6	5.06 ★	**2KJ1104 - ■HF13 - ■■C1**		79
	345	**414**	152	3.1	4.22	**2KJ1104 - ■HF13 - ■■B1**		79
	417	**500**	126	3.3	3.49 ★	**2KJ1104 - ■HF13 - ■■A1**		79

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
5.5 (50 Hz) 6.6 (60 Hz)	**Z.48-LA132SB4**							
	109	**131**	483	0.85	13.38 ★	**2KJ1103 - ■HF13 - ■■K1**		62
	119	**143**	442	0.90	12.25	**2KJ1103 - ■HF13 - ■■J1**		62
	133	**160**	395	0.99	10.93 ★	**2KJ1103 - ■HF13 - ■■H1**		62
	149	**179**	352	1.1	9.76	**2KJ1103 - ■HF13 - ■■G1**		62
	176	**211**	299	1.2	8.29	**2KJ1103 - ■HF13 - ■■F1**		62
	211	**253**	249	1.4	6.90 ★	**2KJ1103 - ■HF13 - ■■E1**		62
	214	**257**	245	1.1	6.79 ★	**2KJ1103 - ■HF13 - ■■D1**		62
	240	**288**	219	1.2	6.06	**2KJ1103 - ■HF13 - ■■C1**		62
	283	**340**	186	1.5	5.15	**2KJ1103 - ■HF13 - ■■B1**		62
	340	**408**	155	1.7	4.28 ★	**2KJ1103 - ■HF13 - ■■A1**		62
	E.148-LA132SB4							
	106	**127**	493	1.2	13.67 ★	**2KJ1007 - ■HF13 - ■■U1**		160
	116	**139**	453	1.3	12.54	**2KJ1007 - ■HF13 - ■■T1**		160
	126	**151**	418	1.6	11.57 ★	**2KJ1007 - ■HF13 - ■■S1**		160
	136	**163**	387	2.0	10.73	**2KJ1007 - ■HF13 - ■■R1**		160
	144	**173**	366	2.2	10.13 ★	**2KJ1007 - ■HF13 - ■■Q1**		160
	154	**185**	342	2.7	9.47	**2KJ1007 - ■HF13 - ■■P1**		160
	173	**208**	304	3.3	8.42 ★	**2KJ1007 - ■HF13 - ■■N1**		160
	183	**220**	287	3.7	7.95	**2KJ1007 - ■HF13 - ■■M1**		160
	204	**245**	258	4.3	7.14 ★	**2KJ1007 - ■HF13 - ■■L1**		160
	E.128-LA132SB4							
	143	**172**	366	1.5	10.14 ★	**2KJ1006 - ■HF13 - ■■T1**		136
	155	**186**	339	1.7	9.40	**2KJ1006 - ■HF13 - ■■S1**		136
	163	**196**	323	2.0	8.94 ★	**2KJ1006 - ■HF13 - ■■R1**		136
	174	**209**	301	2.4	8.35	**2KJ1006 - ■HF13 - ■■Q1**		136
	197	**236**	266	3.1	7.37 ★	**2KJ1006 - ■HF13 - ■■P1**		136
	209	**251**	251	3.5	6.95	**2KJ1006 - ■HF13 - ■■N1**		136
	234	**281**	225	4.1	6.23 ★	**2KJ1006 - ■HF13 - ■■M1**		136
	253	**304**	208	4.6	5.75	**2KJ1006 - ■HF13 - ■■L1**		136
	E.108-LA132SB4							
	266	**319**	197	3.3	5.46 ★	**2KJ1005 - ■HF13 - ■■K1**		99
	291	**349**	180	3.8	5.00	**2KJ1005 - ■HF13 - ■■J1**		99
	342	**410**	154	4.7	4.26	**2KJ1005 - ■HF13 - ■■H1**		99
	387	**464**	136	4.4	3.76 ★	**2KJ1005 - ■HF13 - ■■G1**		99
	E.88-LA132SB4							
	173	**208**	304	0.81	8.42 ★	**2KJ1004 - ■HF13 - ■■Q1**		78
	189	**227**	278	0.88	7.69	**2KJ1004 - ■HF13 - ■■P1**		78
	206	**247**	255	1.1	7.07 ★	**2KJ1004 - ■HF13 - ■■N1**		78
	223	**268**	236	1.3	6.53	**2KJ1004 - ■HF13 - ■■M1**		78
	240	**288**	219	1.3	6.06 ★	**2KJ1004 - ■HF13 - ■■L1**		78
	258	**310**	204	1.6	5.65	**2KJ1004 - ■HF13 - ■■K1**		78
	285	**342**	184	2.0	5.11 ★	**2KJ1004 - ■HF13 - ■■J1**		78
	310	**372**	170	2.3	4.70	**2KJ1004 - ■HF13 - ■■H1**		78

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 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 (50 Hz) 6.6 (60 Hz)	**E.88-LA132SB4**							
	344	**413**	153	2.6	4.23 ★	**2KJ1004 - ■HF13 - ■■G1**		78
	373	**448**	141	2.7	3.90	**2KJ1004 - ■HF13 - ■■F1**		78
	441	**529**	119	3.8	3.30	**2KJ1004 - ■HF13 - ■■E1**		78
	505	**606**	104	4.2	2.88 ★	**2KJ1004 - ■HF13 - ■■D1**		78
	594	**713**	88	4.7	2.45	**2KJ1004 - ■HF13 - ■■C1**		78
	696	**835**	75	5.6	2.09 ★	**2KJ1004 - ■HF13 - ■■B1**		78
	851	**1 021**	62	5.8	1.71 ★	**2KJ1004 - ■HF13 - ■■A1**		78
	E.68-LA132SB4							
	246	**295**	214	0.89	5.92	**2KJ1003 - ■HF13 - ■■N1**		61
	271	**325**	193	1.1	5.36 ★	**2KJ1003 - ■HF13 - ■■M1**		61
	295	**354**	178	1.3	4.93	**2KJ1003 - ■HF13 - ■■L1**		61
	319	**383**	165	1.3	4.56 ★	**2KJ1003 - ■HF13 - ■■K1**		61
	343	**412**	153	1.5	4.24	**2KJ1003 - ■HF13 - ■■J1**		61
	389	**467**	135	1.7	3.74 ★	**2KJ1003 - ■HF13 - ■■H1**		61
	422	**506**	125	1.9	3.45	**2KJ1003 - ■HF13 - ■■G1**		61
	471	**565**	112	2.2	3.09 ★	**2KJ1003 - ■HF13 - ■■F1**		61
	511	**613**	103	2.4	2.85	**2KJ1003 - ■HF13 - ■■E1**		61
	609	**731**	86	2.7	2.39	**2KJ1003 - ■HF13 - ■■D1**		61
	713	**856**	74	2.9	2.04 ★	**2KJ1003 - ■HF13 - ■■C1**		61
	856	**1 027**	61	2.9	1.70	**2KJ1003 - ■HF13 - ■■B1**		61
	1 032	**1 238**	51	2.9	1.41 ★	**2KJ1003 - ■HF13 - ■■A1**		61
	E.48-LA132SB4							
	346	**415**	152	0.99	4.21 ★	**2KJ1002 - ■HF13 - ■■K1**		51
	376	**451**	140	1.1	3.87	**2KJ1002 - ■HF13 - ■■J1**		51
	409	**491**	129	1.1	3.56 ★	**2KJ1002 - ■HF13 - ■■H1**		51
	449	**539**	117	1.3	3.24	**2KJ1002 - ■HF13 - ■■G1**		51
	493	**592**	106	1.6	2.95 ★	**2KJ1002 - ■HF13 - ■■F1**		51
	539	**647**	98	1.6	2.70	**2KJ1002 - ■HF13 - ■■E1**		51
	604	**725**	87	1.7	2.41 ★	**2KJ1002 - ■HF13 - ■■D1**		51
	677	**812**	78	1.7	2.15	**2KJ1002 - ■HF13 - ■■C1**		51
	795	**954**	66	1.7	1.83	**2KJ1002 - ■HF13 - ■■B1**		51
	957	**1 148**	55	1.8	1.52 ★	**2KJ1002 - ■HF13 - ■■A1**		51
7.5 (50 Hz) 9.0 (60 Hz)	**D.188-Z68-LA132M4**							
	2.7	**3.2**	24 896	0.8	546	**2KJ1237 - ■HH13 - ■■D1**		663
	D.188-LA160LB8							
	2.9	**3.5**	24 425	0.82	243.82	**2KJ1211 - ■JJ13 - ■■N1**	**P02**	688
	3.2	**3.8**	22 055	0.91	220.17	**2KJ1211 - ■JJ13 - ■■M1**	**P02**	688
	3.5	**4.2**	20 670	0.97	206.34	**2KJ1211 - ■JJ13 - ■■L1**	**P02**	688
	D.188-LA160MB6							
	3.9	**4.7**	18 191	1.1	243.82	**2KJ1211 - ■JF13 - ■■N1**	**P01**	676
	4.4	**5.3**	16 427	1.2	220.17	**2KJ1211 - ■JF13 - ■■M1**	**P01**	676
	4.7	**5.6**	15 395	1.3	206.34	**2KJ1211 - ■JF13 - ■■L1**	**P01**	676

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
7.5 (50 Hz) 9.0 (60 Hz)	**D.188-LA160MB6**							
	5.4	**6.5**	13 223	1.5	177.23 ★	**2KJ1211 - ■JF13 - ■■K1**	**P01**	676
	D.188-LA132M4							
	6	**7.2**	12 002	1.7	243.82	**2KJ1211 - ■HH13 - ■■N1**		652
	6.6	**7.9**	10 838	1.8	220.17	**2KJ1211 - ■HH13 - ■■M1**		652
	7.1	**8.5**	10 157	2.0	206.34	**2KJ1211 - ■HH13 - ■■L1**		652
	D.168-LA132M4							
	4.3	**5.2**	16 816	0.83	341.61 ★	**2KJ1210 - ■HH13 - ■■U1**		507
	4.6	**5.5**	15 428	0.91	313.41	**2KJ1210 - ■HH13 - ■■T1**		507
	5.0	**6.0**	14 238	0.98	289.23 ★	**2KJ1210 - ■HH13 - ■■S1**		507
	5.4	**6.5**	13 207	1.1	268.29	**2KJ1210 - ■HH13 - ■■R1**		507
	5.7	**6.8**	12 458	1.1	253.08 ★	**2KJ1210 - ■HH13 - ■■Q1**		507
	6.1	**7.3**	11 653	1.2	236.72	**2KJ1210 - ■HH13 - ■■P1**		507
	6.9	**8.3**	10 362	1.4	210.49 ★	**2KJ1210 - ■HH13 - ■■N1**		507
	7.3	**8.8**	9 782	1.4	198.71	**2KJ1210 - ■HH13 - ■■M1**		507
	8.2	**9.8**	8 781	1.6	178.38 ★	**2KJ1210 - ■HH13 - ■■L1**		507
	8.9	**10.7**	8 059	1.7	163.72	**2KJ1210 - ■HH13 - ■■K1**		507
	10.3	**12.4**	6 955	2.0	141.28	**2KJ1210 - ■HH13 - ■■J1**		507
	D.148-LA132M4							
	7.9	**9.5**	9 108	0.88	185.03 ★	**2KJ1208 - ■HH13 - ■■P1**		336
	8.3	**10.0**	8 592	0.93	174.53	**2KJ1208 - ■HH13 - ■■N1**		336
	9.3	**11.2**	7 698	1.0	156.38 ★	**2KJ1208 - ■HH13 - ■■M1**		336
	10.1	**12.1**	7 108	1.1	144.39	**2KJ1208 - ■HH13 - ■■L1**		336
	11.8	**14.2**	6 073	1.3	123.37	**2KJ1208 - ■HH13 - ■■K1**		336
	13.0	**15.6**	5 489	1.5	111.50 ★	**2KJ1208 - ■HH13 - ■■J1**		336
	13.5	**16.2**	5 288	1.5	107.42	**2KJ1208 - ■HH13 - ■■H1**		336
	15.7	**18.8**	4 574	1.7	92.91	**2KJ1208 - ■HH13 - ■■G1**		336
	18	**22**	3 989	2.0	81.04 ★	**2KJ1208 - ■HH13 - ■■F1**		336
	21	**25**	3 414	2.3	69.36 ★	**2KJ1208 - ■HH13 - ■■E1**		336
	Z.148-LA132M4							
	25	**30**	2 831	1.6	57.50	**2KJ1108 - ■HH13 - ■■B2**		324
	D.128-LA132M4							
	11.8	**14.2**	6 081	0.84	123.53	**2KJ1207 - ■HH13 - ■■K1**		246
	12.8	**15.4**	5 574	0.91	113.24 ★	**2KJ1207 - ■HH13 - ■■J1**		246
	14.0	**16.8**	5 110	1.0	103.80	**2KJ1207 - ■HH13 - ■■H1**		246
	16.4	**19.7**	4 355	1.2	88.46	**2KJ1207 - ■HH13 - ■■G1**		246
	18.6	**22**	3 843	1.3	78.06 ★	**2KJ1207 - ■HH13 - ■■F1**		246
	22	**26**	3 270	1.6	66.43	**2KJ1207 - ■HH13 - ■■E1**		246
	25	**30**	2 833	1.8	57.56 ★	**2KJ1207 - ■HH13 - ■■D1**		246
	30	**36**	2 385	2.1	48.44 ★	**2KJ1207 - ■HH13 - ■■C1**		246
	33	**40**	21 52	2.4	43.71	**2KJ1207 - ■HH13 - ■■B1**		246
	Z.128-LA132M4							
	33	**40**	2 175	1.5	44.19 ★	**2KJ1107 - ■HH13 - ■■D2**		237
	36	**43**	2 016	1.6	40.96	**2KJ1107 - ■HH13 - ■■C2**		237

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
7.5 (50 Hz) 9.0 (60 Hz)	**D.108-LA132M4**							
	20	**24**	3 524	0.88	71.59 ★	**2KJ1206 - ■HH13 - ■■D1**		169
	24	**29**	2 998	1.0	60.90	**2KJ1206 - ■HH13 - ■■C1**		169
	Z.108-LA132M4							
	30	**36**	2 382	1.3	48.38 ★	**2KJ1106 - ■HH13 - ■■C2**		165
	33	**40**	2 181	1.4	44.31	**2KJ1106 - ■HH13 - ■■B2**		165
	36	**43**	2 009	1.5	40.82 ★	**2KJ1106 - ■HH13 - ■■A2**		165
	38	**46**	1 860	1.7	37.79	**2KJ1106 - ■HH13 - ■■X1**		165
	41	**49**	1 730	1.8	35.14 ★	**2KJ1106 - ■HH13 - ■■W1**		165
	44	**53**	1 615	1.9	32.81	**2KJ1106 - ■HH13 - ■■V1**		165
	50	**60**	1 445	2.1	29.35 ★	**2KJ1106 - ■HH13 - ■■U1**		165
	54	**65**	1 339	2.3	27.20	**2KJ1106 - ■HH13 - ■■T1**		165
	58	**70**	1 228	2.5	24.94 ★	**2KJ1106 - ■HH13 - ■■S1**		165
	64	**77**	1 125	2.8	22.86	**2KJ1106 - ■HH13 - ■■R1**		165
	75	**90**	959	3.2	19.48	**2KJ1106 - ■HH13 - ■■Q1**		165
	278	**334**	258	4.4	5.24 ★	**2KJ1106 - ■HH13 - ■■D1**		165
	D.88-LA132M4							
	35	**42**	2 028	0.83	41.19	**2KJ1205 - ■HH13 - ■■B1**		121
	Z.88-LA132M4							
	39	**47**	1 835	0.92	37.27 ★	**2KJ1105 - ■HH13 - ■■W1**		119
	43	**52**	1 677	1.0	34.07	**2KJ1105 - ■HH13 - ■■V1**		119
	46	**55**	1 542	1.1	31.32 ★	**2KJ1105 - ■HH13 - ■■U1**		119
	50	**60**	1 424	1.2	28.93	**2KJ1105 - ■HH13 - ■■T1**		119
	54	**65**	1 322	1.3	26.85 ★	**2KJ1105 - ■HH13 - ■■S1**		119
	58	**70**	1 231	1.4	25.01	**2KJ1105 - ■HH13 - ■■R1**		119
	64	**77**	1 113	1.5	22.61 ★	**2KJ1105 - ■HH13 - ■■Q1**		119
	70	**84**	1 024	1.6	20.81	**2KJ1105 - ■HH13 - ■■P1**		119
	78	**94**	922	1.8	18.72 ★	**2KJ1105 - ■HH13 - ■■N1**		119
	84	**101**	850	2.0	17.27	**2KJ1105 - ■HH13 - ■■M1**		119
	100	**120**	720	2.2	14.63	**2KJ1105 - ■HH13 - ■■L1**		119
	114	**137**	628	2.5	12.75 ★	**2KJ1105 - ■HH13 - ■■K1**		119
	134	**161**	534	2.8	10.85	**2KJ1105 - ■HH13 - ■■J1**		119
	157	**188**	456	3.0	9.26 ★	**2KJ1105 - ■HH13 - ■■H1**		119
	192	**230**	374	3.5	7.59 ★	**2KJ1105 - ■HH13 - ■■G1**		119
	209	**251**	343	3.7	6.96	**2KJ1105 - ■HH13 - ■■F1**		119
	245	**294**	292	4.1	5.94 ★	**2KJ1105 - ■HH13 - ■■E1**		119
	299	**359**	240	4.6	4.87 ★	**2KJ1105 - ■HH13 - ■■D1**		119
	327	**392**	219	3.7	4.45 ★	**2KJ1105 - ■HH13 - ■■C1**		119
	384	**461**	187	4.0	3.79 ★	**2KJ1105 - ■HH13 - ■■B1**		119
	468	**562**	153	4.3	3.11 ★	**2KJ1105 - ■HH13 - ■■A1**		119
	Z.68-LA132M4							
	72	**86**	994	0.80	20.20	**2KJ1104 - ■HH13 - ■■N1**		87
	82	**98**	877	0.91	17.82 ★	**2KJ1104 - ■HH13 - ■■M1**		87
	88	**106**	810	0.99	16.45	**2KJ1104 - ■HH13 - ■■L1**		87

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
7.5 (50 Hz)	**Z.68-LA132M4**							
9.0 (60 Hz)	**99**	**119**	726	1.1	14.74 ★	**2KJ1104 - ■HH13 - ■■K1**		87
	107	**128**	669	1.2	13.59	**2KJ1104 - ■HH13 - ■■J1**		87
	128	**154**	561	1.4	11.40	**2KJ1104 - ■HH13 - ■■H1**		87
	150	**180**	479	1.6	9.73 ★	**2KJ1104 - ■HH13 - ■■G1**		87
	179	**215**	399	1.8	8.11	**2KJ1104 - ■HH13 - ■■F1**		87
	217	**260**	331	2.0	6.72 ★	**2KJ1104 - ■HH13 - ■■E1**		87
	245	**294**	292	1.7	5.93	**2KJ1104 - ■HH13 - ■■D1**		87
	288	**346**	249	1.9	5.06 ★	**2KJ1104 - ■HH13 - ■■C1**		87
	345	**414**	208	2.3	4.22	**2KJ1104 - ■HH13 - ■■B1**		87
	417	**500**	172	2.4	3.49 ★	**2KJ1104 - ■HH13 - ■■A1**		87
	Z.48-LA132M4							
	176	**211**	408	0.88	8.29	**2KJ1103 - ■HH13 - ■■F1**		70
	211	**253**	340	1.00	6.90 ★	**2KJ1103 - ■HH13 - ■■E1**		70
	214	**257**	334	0.81	6.79 ★	**2KJ1103 - ■HH13 - ■■D1**		70
	240	**288**	298	0.91	6.06	**2KJ1103 - ■HH13 - ■■C1**		70
	283	**340**	254	1.1	5.15	**2KJ1103 - ■HH13 - ■■B1**		70
	340	**408**	211	1.2	4.28 ★	**2KJ1103 - ■HH13 - ■■A1**		70
	E.148-LA132M4							
	106	**127**	673	0.89	13.67 ★	**2KJ1007 - ■HH13 - ■■U1**		168
	116	**139**	617	0.97	12.54	**2KJ1007 - ■HH13 - ■■T1**		168
	126	**151**	570	1.2	11.57 ★	**2KJ1007 - ■HH13 - ■■S1**		168
	136	**163**	528	1.4	10.73	**2KJ1007 - ■HH13 - ■■R1**		168
	144	**173**	499	1.6	10.13 ★	**2KJ1007 - ■HH13 - ■■Q1**		168
	154	**185**	466	2.0	9.47	**2KJ1007 - ■HH13 - ■■P1**		168
	173	**208**	414	2.4	8.42 ★	**2KJ1007 - ■HH13 - ■■N1**		168
	183	**220**	391	2.7	7.95	**2KJ1007 - ■HH13 - ■■M1**		168
	204	**245**	351	3.2	7.14 ★	**2KJ1007 - ■HH13 - ■■L1**		168
	222	**266**	322	3.6	6.55	**2KJ1007 - ■HH13 - ■■K1**		168
	E.128-LA132M4							
	143	**172**	499	1.1	10.14 ★	**2KJ1006 - ■HH13 - ■■T1**		144
	155	**186**	463	1.3	9.40	**2KJ1006 - ■HH13 - ■■S1**		144
	163	**196**	440	1.5	8.94 ★	**2KJ1006 - ■HH13 - ■■R1**		144
	174	**209**	411	1.7	8.35	**2KJ1006 - ■HH13 - ■■Q1**		144
	197	**236**	363	2.2	7.37 ★	**2KJ1006 - ■HH13 - ■■P1**		144
	209	**251**	342	2.6	6.95	**2KJ1006 - ■HH13 - ■■N1**		144
	234	**281**	307	3.0	6.23 ★	**2KJ1006 - ■HH13 - ■■M1**		144
	253	**304**	283	3.4	5.75	**2KJ1006 - ■HH13 - ■■L1**		144
	296	**355**	242	4.0	4.91	**2KJ1006 - ■HH13 - ■■K1**		144
	328	**394**	219	4.6	4.44 ★	**2KJ1006 - ■HH13 - ■■J1**		144
	340	**408**	211	4.7	4.28	**2KJ1006 - ■HH13 - ■■H1**		144
	E.108-LA132M4							
	266	**319**	269	2.5	5.46 ★	**2KJ1005 - ■HH13 - ■■K1**		107
	291	**349**	246	2.8	5.00	**2KJ1005 - ■HH13 - ■■J1**		107

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 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 (50 Hz) 9.0 (60 Hz)	**E.108-LA132M4**							
	342	**410**	210	3.4	4.26	**2KJ1005 - ■HH13 - ■■H1**		107
	387	**464**	185	3.2	3.76 ★	**2KJ1005 - ■HH13 - ■■G1**		107
	455	**546**	158	4.7	3.20	**2KJ1005 - ■HH13 - ■■F1**		107
	525	**630**	136	4.9	2.77 ★	**2KJ1005 - ■HH13 - ■■E1**		107
	624	**749**	115	5.9	2.33 ★	**2KJ1005 - ■HH13 - ■■C1**		107
	690	**828**	104	6.0	2.11	**2KJ1005 - ■HH13 - ■■B1**		107
	804	**965**	89	6.2	1.81 ★	**2KJ1005 - ■HH13 - ■■A1**		107
	E.88-LA132M4							
	206	**247**	348	0.83	7.07 ★	**2KJ1004 - ■HH13 - ■■N1**		86
	223	**268**	321	0.93	6.53	**2KJ1004 - ■HH13 - ■■M1**		86
	240	**288**	298	0.94	6.06 ★	**2KJ1004 - ■HH13 - ■■L1**		86
	258	**310**	278	1.2	5.65	**2KJ1004 - ■HH13 - ■■K1**		86
	285	**342**	252	1.5	5.11 ★	**2KJ1004 - ■HH13 - ■■J1**		86
	310	**372**	231	1.7	4.70	**2KJ1004 - ■HH13 - ■■H1**		86
	344	**413**	208	1.9	4.23 ★	**2KJ1004 - ■HH13 - ■■G1**		86
	373	**448**	192	2.0	3.90	**2KJ1004 - ■HH13 - ■■F1**		86
	441	**529**	162	2.8	3.30	**2KJ1004 - ■HH13 - ■■E1**		86
	505	**606**	142	3.1	2.88 ★	**2KJ1004 - ■HH13 - ■■D1**		86
	594	**713**	121	3.5	2.45	**2KJ1004 - ■HH13 - ■■C1**		86
	696	**835**	103	4.1	2.09 ★	**2KJ1004 - ■HH13 - ■■B1**		86
	851	**1 021**	84	4.2	1.71 ★	**2KJ1004 - ■HH13 - ■■A1**		86
	E.68-LA132M4							
	271	**325**	264	0.83	5.36 ★	**2KJ1003 - ■HH13 - ■■M1**		69
	295	**354**	243	0.93	4.93	**2KJ1003 - ■HH13 - ■■L1**		69
	319	**383**	224	0.98	4.56 ★	**2KJ1003 - ■HH13 - ■■K1**		69
	343	**412**	209	1.1	4.24	**2KJ1003 - ■HH13 - ■■J1**		69
	389	**467**	184	1.2	3.74 ★	**2KJ1003 - ■HH13 - ■■H1**		69
	422	**506**	170	1.4	3.45	**2KJ1003 - ■HH13 - ■■G1**		69
	471	**565**	152	1.6	3.09 ★	**2KJ1003 - ■HH13 - ■■F1**		69
	511	**613**	140	1.8	2.85	**2KJ1003 - ■HH13 - ■■E1**		69
	609	**731**	118	2	2.39	**2KJ1003 - ■HH13 - ■■D1**		69
	713	**856**	100	2.1	2.04 ★	**2KJ1003 - ■HH13 - ■■C1**		69
	856	**1 027**	84	2.1	1.70	**2KJ1003 - ■HH13 - ■■B1**		69
	1 032	**1 238**	69	2.2	1.41 ★	**2KJ1003 - ■HH13 - ■■A1**		69
	E.48-LA132M4							
	376	**451**	191	0.84	3.87	**2KJ1002 - ■HH13 - ■■J1**		59
	409	**491**	175	0.8	3.56 ★	**2KJ1002 - ■HH13 - ■■H1**		59
	449	**539**	159	0.94	3.24	**2KJ1002 - ■HH13 - ■■G1**		59
	493	**592**	145	1.2	2.95 ★	**2KJ1002 - ■HH13 - ■■F1**		59
	539	**647**	133	1.2	2.70	**2KJ1002 - ■HH13 - ■■E1**		59
9.2 (50 Hz) 11.0 (60 Hz)	**D.188-LA132ZMP4**							
	5.9	**7.1**	14 825	1.3	243.82	**2KJ1211 - ■HT13 - ■■N1**		652

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
9.2 (50 Hz) 11.0 (60 Hz)	**D.188-LA132ZMP4**							
	6.6	**7.9**	13 387	1.5	220.17	**2KJ1211 - ■HT13 - ■■M1**		652
	7.0	**8.4**	12 546	1.6	206.34	**2KJ1211 - ■HT13 - ■■L1**		652
	9.4	**11.3**	9 310	2.1	153.12	**2KJ1211 - ■HT13 - ■■J1**		652
	D.168-LA132ZMP4							
	5.0	**6.0**	17 586	0.80	289.23 ★	**2KJ1210 - ■HT13 - ■■S1**		507
	5.4	**6.5**	16 313	0.86	268.29	**2KJ1210 - ■HT13 - ■■R1**		507
	5.7	**6.8**	15 388	0.91	253.08 ★	**2KJ1210 - ■HT13 - ■■Q1**		507
	6.1	**7.3**	14 393	0.97	236.72	**2KJ1210 - ■HT13 - ■■P1**		507
	6.9	**8.3**	12 798	1.10	210.49 ★	**2KJ1210 - ■HT13 - ■■N1**		507
	7.3	**8.8**	12 082	1.2	198.71	**2KJ1210 - ■HT13 - ■■M1**		507
	8.1	**9.7**	10 846	1.3	178.38 ★	**2KJ1210 - ■HT13 - ■■L1**		507
	8.8	**10.6**	9 955	1.4	163.72	**2KJ1210 - ■HT13 - ■■K1**		507
	10.2	**12.2**	8 590	1.6	141.28	**2KJ1210 - ■HT13 - ■■J1**		507
	11.7	**14.0**	7 515	1.9	123.59	**2KJ1210 - ■HT13 - ■■H1**		507
	13.4	**16.1**	6 535	2.1	107.48	**2KJ1210 - ■HT13 - ■■G1**		507
	D.148-LA132ZMP4							
	9.2	**11.0**	9 508	0.84	156.38 ★	**2KJ1208 - ■HT13 - ■■M1**		336
	10.0	**12.0**	8 779	0.91	144.39	**2KJ1208 - ■HT13 - ■■L1**		336
	11.7	**14.0**	7 501	1.1	123.37	**2KJ1208 - ■HT13 - ■■K1**		336
	13.0	**15.6**	6 780	1.2	111.50 ★	**2KJ1208 - ■HT13 - ■■J1**		336
	13.5	**16.2**	6 531	1.2	107.42	**2KJ1208 - ■HT13 - ■■H1**		336
	15.6	**18.7**	5 649	1.4	92.91	**2KJ1208 - ■HT13 - ■■G1**		336
	17.8	**21**	4 927	1.6	81.04 ★	**2KJ1208 - ■HT13 - ■■F1**		336
	21	**25**	4 217	1.9	69.36 ★	**2KJ1208 - ■HT13 - ■■E1**		336
	23	**28**	3 777	2.1	62.12	**2KJ1208 - ■HT13 - ■■D1**		336
	Z.148-LA132ZMP4							
	25	**30**	3 496	1.3	57.50	**2KJ1108 - ■HT13 - ■■B2**		324
	27	**32**	3 298	2.4	54.24 ★	**2KJ1108 - ■HT13 - ■■A2**		324
	D.128-LA132ZMP4							
	13.9	**16.7**	6 311	0.81	103.80	**2KJ1207 - ■HT13 - ■■H1**		246
	16.3	**19.6**	5 379	0.95	88.46	**2KJ1207 - ■HT13 - ■■G1**		246
	18.5	**22**	4 746	1.1	78.06 ★	**2KJ1207 - ■HT13 - ■■F1**		246
	22	**26**	4 039	1.3	66.43	**2KJ1207 - ■HT13 - ■■E1**		246
	25	**30**	3 500	1.5	57.56 ★	**2KJ1207 - ■HT13 - ■■D1**		246
	30	**36**	2 945	1.7	48.44 ★	**2KJ1207 - ■HT13 - ■■C1**		246
	33	**40**	2 658	1.9	43.71	**2KJ1207 - ■HT13 - ■■B1**		246
	Z.128-LA132ZMP4							
	33	**40**	2 687	1.2	44.19 ★	**2KJ1107 - ■HT13 - ■■D2**		237
	35	**42**	2 490	1.3	40.96	**2KJ1107 - ■HT13 - ■■C2**		237
	37	**44**	2 368	2.2	38.94 ★	**2KJ1107 - ■HT13 - ■■B2**		237
	40	**48**	2 213	2.3	36.39	**2KJ1107 - ■HT13 - ■■A2**		237
	45	**54**	1 952	2.6	32.11 ★	**2KJ1107 - ■HT13 - ■■X1**		237
	48	**58**	1 841	2.8	30.28	**2KJ1107 - ■HT13 - ■■W1**		237

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
9.2 (50 Hz)	**D.108-LA132ZMP4**							
11.0 (60 Hz)	**24**	**29**	3 703	0.84	60.9	**2KJ1206 - ■HT13 - ■■C1**		169
	Z.108-LA132ZMP4							
	30	**36**	2 942	1.1	48.38 ★	**2KJ1106 - ■HT13 - ■■C2**		165
	33	**40**	2 694	1.2	44.31	**2KJ1106 - ■HT13 - ■■B2**		165
	35	**42**	2 482	1.2	40.82 ★	**2KJ1106 - ■HT13 - ■■A2**		165
	38	**46**	2 298	1.3	37.79	**2KJ1106 - ■HT13 - ■■X1**		165
	41	**49**	2 137	1.5	35.14 ★	**2KJ1106 - ■HT13 - ■■W1**		165
	44	**53**	1 995	1.6	32.81	**2KJ1106 - ■HT13 - ■■V1**		165
	49	**59**	1 785	1.7	29.35 ★	**2KJ1106 - ■HT13 - ■■U1**		165
	53	**64**	1 654	1.9	27.20	**2KJ1106 - ■HT13 - ■■T1**		165
	58	**70**	1 516	2.0	24.94 ★	**2KJ1106 - ■HT13 - ■■S1**		165
	63	**76**	1 390	2.2	22.86	**2KJ1106 - ■HT13 - ■■R1**		165
	74	**89**	1 184	2.6	19.48	**2KJ1106 - ■HT13 - ■■Q1**		165
	84	**101**	1 045	3.0	17.19 ★	**2KJ1106 - ■HT13 - ■■P1**		165
	99	**119**	890	3.5	14.63	**2KJ1106 - ■HT13 - ■■N1**		165
	204	**245**	432	4.2	7.10 ★	**2KJ1106 - ■HT13 - ■■H1**		165
	225	**270**	390	4.5	6.41	**2KJ1106 - ■HT13 - ■■G1**		165
	276	**331**	319	3.6	5.24 ★	**2KJ1106 - ■HT13 - ■■D1**		165
	328	**394**	268	4.3	4.41 ★	**2KJ1106 - ■HT13 - ■■C1**		165
	363	**436**	242	4.6	3.98	**2KJ1106 - ■HT13 - ■■B1**		165
	423	**508**	208	5.2	3.42 ★	**2KJ1106 - ■HT13 - ■■A1**		165
	Z.88-LA132ZMP4							
	42	**50**	2 072	0.81	34.07	**2KJ1105 - ■HT13 - ■■V1**		119
	46	**55**	1 904	0.88	31.32 ★	**2KJ1105 - ■HT13 - ■■U1**		119
	50	**60**	1 759	0.96	28.93	**2KJ1105 - ■HT13 - ■■T1**		119
	54	**65**	1 633	1.0	26.85 ★	**2KJ1105 - ■HT13 - ■■S1**		119
	58	**70**	1 521	1.1	25.01	**2KJ1105 - ■HT13 - ■■R1**		119
	64	**77**	1 375	1.2	22.61 ★	**2KJ1105 - ■HT13 - ■■Q1**		119
	69	**83**	1 265	1.3	20.81	**2KJ1105 - ■HT13 - ■■P1**		119
	77	**92**	1 138	1.5	18.72 ★	**2KJ1105 - ■HT13 - ■■N1**		119
	84	**101**	1 050	1.6	17.27	**2KJ1105 - ■HT13 - ■■M1**		119
	99	**119**	890	1.8	14.63	**2KJ1105 - ■HT13 - ■■L1**		119
	113	**136**	775	2.0	12.75 ★	**2KJ1105 - ■HT13 - ■■K1**		119
	133	**160**	660	2.2	10.85	**2KJ1105 - ■HT13 - ■■J1**		119
	156	**187**	563	2.5	9.26 ★	**2KJ1105 - ■HT13 - ■■H1**		119
	190	**228**	461	2.8	7.59 ★	**2KJ1105 - ■HT13 - ■■G1**		119
	208	**250**	423	3.0	6.96	**2KJ1105 - ■HT13 - ■■F1**		119
	243	**292**	361	3.3	5.94 ★	**2KJ1105 - ■HT13 - ■■E1**		119
	297	**356**	296	3.7	4.87 ★	**2KJ1105 - ■HT13 - ■■D1**		119
	325	**390**	271	3.0	4.45 ★	**2KJ1105 - ■HT13 - ■■C1**		119
	381	**457**	230	3.2	3.79 ★	**2KJ1105 - ■HT13 - ■■B1**		119
	465	**558**	189	3.5	3.11 ★	**2KJ1105 - ■HT13 - ■■A1**		119

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
9.2 (50 Hz) 11.0 (60 Hz)	**Z.68-LA132ZMP4**							
	88	**106**	1 000	0.80	16.45	**2KJ1104 - ■HT13 - ■■L1**		87
	98	**118**	896	0.89	14.74 ★	**2KJ1104 - ■HT13 - ■■K1**		87
	106	**127**	826	0.97	13.59	**2KJ1104 - ■HT13 - ■■J1**		87
	127	**152**	693	1.1	11.40	**2KJ1104 - ■HT13 - ■■H1**		87
	149	**179**	592	1.3	9.73 ★	**2KJ1104 - ■HT13 - ■■G1**		87
	178	**214**	493	1.4	8.11	**2KJ1104 - ■HT13 - ■■F1**		87
	215	**258**	409	1.6	6.72 ★	**2KJ1104 - ■HT13 - ■■E1**		87
	244	**293**	361	1.4	5.93	**2KJ1104 - ■HT13 - ■■D1**		87
	286	**343**	308	1.6	5.06 ★	**2KJ1104 - ■HT13 - ■■C1**		87
	342	**410**	257	1.8	4.22	**2KJ1104 - ■HT13 - ■■B1**		87
	414	**497**	212	2.0	3.49 ★	**2KJ1104 - ■HT13 - ■■A1**		87
	Z.48-LA132ZMP4							
	209	**251**	420	0.81	6.90 ★	**2KJ1103 - ■HT13 - ■■E1**		70
	281	**337**	313	0.86	5.15	**2KJ1103 - ■HT13 - ■■B1**		70
	338	**406**	260	1.0	4.28 ★	**2KJ1103 - ■HT13 - ■■A1**		70
	E.148-LA132ZMP4							
	125	**150**	703	0.97	11.57 ★	**2KJ1007 - ■HT13 - ■■S1**		168
	135	**162**	652	1.2	10.73	**2KJ1007 - ■HT13 - ■■R1**		168
	143	**172**	616	1.3	10.13 ★	**2KJ1007 - ■HT13 - ■■Q1**		168
	153	**184**	576	1.6	9.47	**2KJ1007 - ■HT13 - ■■P1**		168
	172	**206**	512	2.0	8.42 ★	**2KJ1007 - ■HT13 - ■■N1**		168
	182	**218**	483	2.2	7.95	**2KJ1007 - ■HT13 - ■■M1**		168
	202	**242**	434	2.6	7.14 ★	**2KJ1007 - ■HT13 - ■■L1**		168
	221	**265**	398	2.9	6.55	**2KJ1007 - ■HT13 - ■■K1**		168
	256	**307**	344	4.0	5.65	**2KJ1007 - ■HT13 - ■■J1**		168
	293	**352**	300	4.7	4.94	**2KJ1007 - ■HT13 - ■■H1**		168
	336	**403**	261	5.1	4.30	**2KJ1007 - ■HT13 - ■■G1**		168
	E.128-LA132ZMP4							
	143	**172**	617	0.88	10.14 ★	**2KJ1006 - ■HT13 - ■■T1**		144
	154	**185**	572	1.0	9.40	**2KJ1006 - ■HT13 - ■■S1**		144
	162	**194**	544	1.2	8.94 ★	**2KJ1006 - ■HT13 - ■■R1**		144
	173	**208**	508	1.4	8.35	**2KJ1006 - ■HT13 - ■■Q1**		144
	196	**235**	448	1.8	7.37 ★	**2KJ1006 - ■HT13 - ■■P1**		144
	208	**250**	423	2.1	6.95	**2KJ1006 - ■HT13 - ■■N1**		144
	232	**278**	379	2.4	6.23 ★	**2KJ1006 - ■HT13 - ■■M1**		144
	251	**301**	350	2.7	5.75	**2KJ1006 - ■HT13 - ■■L1**		144
	294	**353**	299	3.2	4.91	**2KJ1006 - ■HT13 - ■■K1**		144
	325	**390**	270	3.7	4.44 ★	**2KJ1006 - ■HT13 - ■■J1**		144
	338	**406**	260	3.8	4.28	**2KJ1006 - ■HT13 - ■■H1**		144
	391	**469**	225	4.4	3.70	**2KJ1006 - ■HT13 - ■■G1**		144
	447	**536**	196	5.1	3.23 ★	**2KJ1006 - ■HT13 - ■■F1**		144
	E.108-LA132ZMP4							
	265	**318**	332	2.0	5.46 ★	**2KJ1005 - ■HT13 - ■■K1**		107

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
9.2 (50 Hz) 11.0 (60 Hz)	**E.108-LA132ZMP4**							
	289	**347**	304	2.2	5.00	**2KJ1005 - ■HT13 - ■■J1**		107
	339	**407**	259	2.8	4.26	**2KJ1005 - ■HT13 - ■■H1**		107
	384	**461**	229	2.6	3.76 ★	**2KJ1005 - ■HT13 - ■■G1**		107
	452	**542**	195	3.8	3.20	**2KJ1005 - ■HT13 - ■■F1**		107
	522	**626**	168	4.0	2.77 ★	**2KJ1005 - ■HT13 - ■■E1**		107
	620	**744**	142	4.8	2.33 ★	**2KJ1005 - ■HT13 - ■■C1**		107
	685	**822**	128	4.8	2.11	**2KJ1005 - ■HT13 - ■■B1**		107
	798	**958**	110	5.0	1.81 ★	**2KJ1005 - ■HT13 - ■■A1**		107
	E.88-LA132ZMP4							
	256	**307**	344	0.93	5.65	**2KJ1004 - ■HT13 - ■■K1**		86
	283	**340**	311	1.2	5.11 ★	**2KJ1004 - ■HT13 - ■■J1**		86
	307	**368**	286	1.3	4.70	**2KJ1004 - ■HT13 - ■■H1**		86
	342	**410**	257	1.6	4.23 ★	**2KJ1004 - ■HT13 - ■■G1**		86
	371	**445**	237	1.6	3.90	**2KJ1004 - ■HT13 - ■■F1**		86
	438	**526**	201	2.2	3.30	**2KJ1004 - ■HT13 - ■■E1**		86
	502	**602**	175	2.5	2.88 ★	**2KJ1004 - ■HT13 - ■■D1**		86
	590	**708**	149	2.8	2.45	**2KJ1004 - ■HT13 - ■■C1**		86
	691	**829**	127	3.3	2.09 ★	**2KJ1004 - ■HT13 - ■■B1**		86
	845	**1 014**	104	3.4	1.71 ★	**2KJ1004 - ■HT13 - ■■A1**		86
	E.68-LA132ZMP4							
	341	**409**	258	0.89	4.24	**2KJ1003 - ■HT13 - ■■J1**		69
	386	**463**	227	1.0	3.74 ★	**2KJ1003 - ■HT13 - ■■H1**		69
	419	**503**	210	1.1	3.45	**2KJ1003 - ■HT13 - ■■G1**		69
	468	**562**	188	1.3	3.09 ★	**2KJ1003 - ■HT13 - ■■F1**		69
	507	**608**	173	1.4	2.85	**2KJ1003 - ■HT13 - ■■E1**		69
	605	**726**	145	1.6	2.39	**2KJ1003 - ■HT13 - ■■D1**		69
	708	**850**	124	1.7	2.04 ★	**2KJ1003 - ■HT13 - ■■C1**		69
	850	**1 020**	103	1.7	1.70	**2KJ1003 - ■HT13 - ■■B1**		69
	1 025	**1 230**	86	1.7	1.41 ★	**2KJ1003 - ■HT13 - ■■A1**		69
	E.48-LA132ZMP4							
	490	**588**	179	0.95	2.95 ★	**2KJ1002 - ■HT13 - ■■F1**		59
	535	**642**	164	0.97	2.70	**2KJ1002 - ■HT13 - ■■E1**		59
11.0 (50 Hz) 13.2 (60 Hz)	**D.188-LA160LB6**							
	4.4	**5.3**	24 093	0.83	220.17	**2KJ1211 - ■JS13 - ■■M1**	**P01**	688
	4.7	**5.6**	22 579	0.89	206.34	**2KJ1211 - ■JS13 - ■■L1**	**P01**	688
	5.4	**6.5**	19 394	1.0	177.23 ★	**2KJ1211 - ■JS13 - ■■K1**	**P01**	688
	6	**7.2**	17 543	1.1	243.82	**2KJ1211 - ■JP13 - ■■N1**	**P01**	676
	6.6	**7.9**	15 842	1.3	220.17	**2KJ1211 - ■JP13 - ■■M1**	**P01**	676
	7.1	**8.5**	14 847	1.3	206.34	**2KJ1211 - ■JP13 - ■■L1**	**P01**	676
	8.2	**9.8**	12 752	1.6	177.23 ★	**2KJ1211 - ■JP13 - ■■K1**	**P01**	676
	9.5	**11.4**	11 017	1.8	153.12	**2KJ1211 - ■JP13 - ■■J1**	**P01**	676
	10.8	**13.0**	9 725	2.1	135.16	**2KJ1211 - ■JP13 - ■■H1**	**P01**	676

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
11.0 (50 Hz)	**D.168-LA160MB4**							
13.2 (60 Hz)	**6.2**	**7.4**	17 032	0.82	236.72	**2KJ1210 - ■JP13 - ■■P1**		531
	6.9	**8.3**	15 145	0.92	210.49 ★	**2KJ1210 - ■JP13 - ■■N1**		531
	7.3	**8.8**	14 298	0.98	198.71	**2KJ1210 - ■JP13 - ■■M1**		531
	8.2	**9.8**	12 835	1.1	178.38 ★	**2KJ1210 - ■JP13 - ■■L1**		531
	8.9	**10.7**	11 780	1.2	163.72	**2KJ1210 - ■JP13 - ■■K1**		531
	10.3	**12.4**	10 165	1.4	141.28	**2KJ1210 - ■JP13 - ■■J1**		531
	11.8	**14.2**	8 893	1.6	123.59	**2KJ1210 - ■JP13 - ■■H1**		531
	13.6	**16.3**	7 733	1.8	107.48	**2KJ1210 - ■JP13 - ■■G1**		531
	15.5	**18.6**	6 785	2.1	94.30 ★	**2KJ1210 - ■JP13 - ■■F1**		531
	D.148-LA160MB4							
	11.8	**14.2**	8 877	0.9	123.37	**2KJ1208 - ■JP13 - ■■K1**		360
	13.1	**15.7**	8 023	1.0	111.50 ★	**2KJ1208 - ■JP13 - ■■J1**		360
	13.6	**16.3**	7 729	1.0	107.42	**2KJ1208 - ■JP13 - ■■H1**		360
	15.7	**18.8**	6 685	1.2	92.91	**2KJ1208 - ■JP13 - ■■G1**		360
	18	**22**	5 831	1.4	81.04 ★	**2KJ1208 - ■JP13 - ■■F1**		360
	21	**25**	4 991	1.6	69.36 ★	**2KJ1208 - ■JP13 - ■■E1**		360
	24	**29**	4 470	1.8	62.12	**2KJ1208 - ■JP13 - ■■D1**		360
	Z.148-LA160MB4							
	27	**32**	3 903	2.0	54.24 ★	**2KJ1108 - ■JP13 - ■■A2**		348
	29	**35**	3 651	2.2	50.74	**2KJ1108 - ■JP13 - ■■X1**		348
	32	**38**	3 246	2.5	45.11 ★	**2KJ1108 - ■JP13 - ■■W1**		348
	34	**41**	3 064	2.6	42.59	**2KJ1108 - ■JP13 - ■■V1**		348
	D.128-LA160MB4							
	16.5	**19.8**	6 365	0.80	88.46	**2KJ1207 - ■JP13 - ■■G1**		270
	18.7	**22**	5 617	0.91	78.06 ★	**2KJ1207 - ■JP13 - ■■F1**		270
	22	**26**	4 780	1.1	66.43	**2KJ1207 - ■JP13 - ■■E1**		270
	25	**30**	4 142	1.2	57.56 ★	**2KJ1207 - ■JP13 - ■■D1**		270
	30	**36**	3 485	1.5	48.44 ★	**2KJ1207 - ■JP13 - ■■C1**		270
	33	**40**	3 145	1.6	43.71	**2KJ1207 - ■JP13 - ■■B1**		270
	Z.128-LA160MB4							
	38	**46**	2 802	1.8	38.94 ★	**2KJ1107 - ■JP13 - ■■B2**		261
	40	**48**	2 618	1.9	36.39	**2KJ1107 - ■JP13 - ■■A2**		261
	46	**55**	2 310	2.2	32.11 ★	**2KJ1107 - ■JP13 - ■■X1**		261
	48	**58**	2 179	2.3	30.28	**2KJ1107 - ■JP13 - ■■W1**		261
	54	**65**	1 952	2.6	27.13 ★	**2KJ1107 - ■JP13 - ■■V1**		261
	58	**70**	1 802	2.8	25.05	**2KJ1107 - ■JP13 - ■■U1**		261
	D.108-LA160MB4							
	28	**34**	3 739	0.83	51.97 ★	**2KJ1206 - ■JP13 - ■■B1**		193
	34	**41**	3 066	1	42.61 ★	**2KJ1206 - ■JP13 - ■■A1**		193
	Z.108-LA160MB4							
	42	**50**	2 528	1.2	35.14 ★	**2KJ1106 - ■JP13 - ■■W1**		189
	44	**53**	2 361	1.3	32.81	**2KJ1106 - ■JP13 - ■■V1**		189
	50	**60**	2 112	1.5	29.35 ★	**2KJ1106 - ■JP13 - ■■U1**		189

★ Preferred transmission ratio

Shaft designs, see page 2/117 — 1, 2 or 9
Frequency and voltage, see page 8/20 — 1 to 9
Gearbox housing mounting position, see page 2/119 — A, F, H or R

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
11.0 (50 Hz) 13.2 (60 Hz)	**Z.108-LA160MB4**							
	54	**65**	1 957	1.6	27.20	**2KJ1106 - ■JP13 - ■■T1**		189
	58	**70**	1 794	1.7	24.94 ★	**2KJ1106 - ■JP13 - ■■S1**		189
	64	**77**	1 645	1.9	22.86	**2KJ1106 - ■JP13 - ■■R1**		189
	75	**90**	1 402	2.2	19.48	**2KJ1106 - ■JP13 - ■■Q1**		189
	85	**102**	1 237	2.5	17.19 ★	**2KJ1106 - ■JP13 - ■■P1**		189
	100	**120**	1 053	2.9	14.63	**2KJ1106 - ■JP13 - ■■N1**		189
	115	**138**	912	3.4	12.68 ★	**2KJ1106 - ■JP13 - ■■M1**		189
	206	**247**	511	3.5	7.10 ★	**2KJ1106 - ■JP13 - ■■H1**		189
	228	**274**	461	3.8	6.41	**2KJ1106 - ■JP13 - ■■G1**		189
	265	**318**	396	4.3	5.51 ★	**2KJ1106 - ■JP13 - ■■E1**		189
	279	**335**	377	3.0	5.24 ★	**2KJ1106 - ■JP13 - ■■D1**		189
	331	**397**	317	3.6	4.41 ★	**2KJ1106 - ■JP13 - ■■C1**		189
	367	**440**	286	3.9	3.98	**2KJ1106 - ■JP13 - ■■B1**		189
	427	**512**	246	4.4	3.42 ★	**2KJ1106 - ■JP13 - ■■A1**		189
	Z.88-LA160MB4							
	54	**65**	1 932	0.87	26.85 ★	**2KJ1105 - ■JP13 - ■■S1**		143
	58	**70**	1 800	0.93	25.01	**2KJ1105 - ■JP13 - ■■R1**		143
	65	**78**	1 627	1.0	22.61 ★	**2KJ1105 - ■JP13 - ■■Q1**		143
	70	**84**	1 497	1.1	20.81	**2KJ1105 - ■JP13 - ■■P1**		143
	78	**94**	1 347	1.2	18.72 ★	**2KJ1105 - ■JP13 - ■■N1**		143
	84	**101**	1 243	1.4	17.27	**2KJ1105 - ■JP13 - ■■M1**		143
	100	**120**	1 053	1.5	14.63	**2KJ1105 - ■JP13 - ■■L1**		143
	115	**138**	917	1.7	12.75 ★	**2KJ1105 - ■JP13 - ■■K1**		143
	135	**162**	781	1.9	10.85	**2KJ1105 - ■JP13 - ■■J1**		143
	158	**190**	666	2.1	9.26 ★	**2KJ1105 - ■JP13 - ■■H1**		143
	192	**230**	546	2.4	7.59 ★	**2KJ1105 - ■JP13 - ■■G1**		143
	210	**252**	501	2.5	6.96	**2KJ1105 - ■JP13 - ■■F1**		143
	246	**295**	427	2.8	5.94 ★	**2KJ1105 - ■JP13 - ■■E1**		143
	300	**360**	350	3.2	4.87 ★	**2KJ1105 - ■JP13 - ■■D1**		143
	328	**394**	320	2.5	4.45 ★	**2KJ1105 - ■JP13 - ■■C1**		143
	385	**462**	273	2.7	3.79 ★	**2KJ1105 - ■JP13 - ■■B1**		143
	469	**563**	224	2.9	3.11 ★	**2KJ1105 - ■JP13 - ■■A1**		143
	Z.68-LA160MB4							
	107	**128**	978	0.82	13.59	**2KJ1104 - ■JP13 - ■■J1**		111
	128	**154**	820	0.96	11.40	**2KJ1104 - ■JP13 - ■■H1**		111
	150	**180**	700	1.1	9.73 ★	**2KJ1104 - ■JP13 - ■■G1**		111
	180	**216**	584	1.2	8.11	**2KJ1104 - ■JP13 - ■■F1**		111
	217	**260**	484	1.3	6.72 ★	**2KJ1104 - ■JP13 - ■■E1**		111
	246	**295**	427	1.1	5.93	**2KJ1104 - ■JP13 - ■■D1**		111
	289	**347**	364	1.3	5.06 ★	**2KJ1104 - ■JP13 - ■■C1**		111
	346	**415**	304	1.5	4.22	**2KJ1104 - ■JP13 - ■■B1**		111
	418	**502**	251	1.7	3.49 ★	**2KJ1104 - ■JP13 - ■■A1**		111

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
11.0 (50 Hz)	**E.148-LA160MB4**							
13.2 (60 Hz)	**144**	**173**	729	1.1	10.13 ★	**2KJ1007 - ■JP13 - ■■Q1**		192
	154	**185**	681	1.4	9.47	**2KJ1007 - ■JP13 - ■■P1**		192
	173	**208**	606	1.7	8.42 ★	**2KJ1007 - ■JP13 - ■■N1**		192
	184	**221**	572	1.9	7.95	**2KJ1007 - ■JP13 - ■■M1**		192
	204	**245**	514	2.2	7.14 ★	**2KJ1007 - ■JP13 - ■■L1**		192
	223	**268**	471	2.4	6.55	**2KJ1007 - ■JP13 - ■■K1**		192
	258	**310**	407	3.3	5.65	**2KJ1007 - ■JP13 - ■■J1**		192
	296	**355**	355	3.9	4.94	**2KJ1007 - ■JP13 - ■■H1**		192
	340	**408**	309	4.3	4.30	**2KJ1007 - ■JP13 - ■■G1**		192
	387	**464**	271	5.0	3.77 ★	**2KJ1007 - ■JP13 - ■■F1**		192
	E.128-LA160MB4							
	163	**196**	643	0.99	8.94 ★	**2KJ1006 - ■JP13 - ■■R1**		168
	175	**210**	601	1.20	8.35	**2KJ1006 - ■JP13 - ■■Q1**		168
	198	**238**	530	1.5	7.37 ★	**2KJ1006 - ■JP13 - ■■P1**		168
	210	**252**	500	1.8	6.95	**2KJ1006 - ■JP13 - ■■N1**		168
	234	**281**	448	2.1	6.23 ★	**2KJ1006 - ■JP13 - ■■M1**		168
	254	**305**	414	2.3	5.75	**2KJ1006 - ■JP13 - ■■L1**		168
	297	**356**	353	2.7	4.91	**2KJ1006 - ■JP13 - ■■K1**		168
	329	**395**	319	3.1	4.44 ★	**2KJ1006 - ■JP13 - ■■J1**		168
	341	**409**	308	3.2	4.28	**2KJ1006 - ■JP13 - ■■H1**		168
	395	**474**	266	3.8	3.70	**2KJ1006 - ■JP13 - ■■G1**		168
	452	**542**	232	4.3	3.23 ★	**2KJ1006 - ■JP13 - ■■F1**		168
	529	**635**	199	5.0	2.76 ★	**2KJ1006 - ■JP13 - ■■E1**		168
	591	**709**	178	5.3	2.47	**2KJ1006 - ■JP13 - ■■D1**		168
	695	**834**	151	5.7	2.10 ★	**2KJ1006 - ■JP13 - ■■C1**		168
	807	**968**	130	6.1	1.81	**2KJ1006 - ■JP13 - ■■B1**		168
	E.108-LA160MB4							
	267	**320**	393	1.7	5.46 ★	**2KJ1005 - ■JP13 - ■■K1**		131
	292	**350**	360	1.9	5.00	**2KJ1005 - ■JP13 - ■■J1**		131
	343	**412**	307	2.3	4.26	**2KJ1005 - ■JP13 - ■■H1**		131
	388	**466**	271	2.2	3.76 ★	**2KJ1005 - ■JP13 - ■■G1**		131
	456	**547**	230	3.2	3.20	**2KJ1005 - ■JP13 - ■■F1**		131
	527	**632**	199	3.4	2.77 ★	**2KJ1005 - ■JP13 - ■■E1**		131
	627	**752**	168	4.1	2.33 ★	**2KJ1005 - ■JP13 - ■■C1**		131
	692	**830**	152	4.1	2.11	**2KJ1005 - ■JP13 - ■■B1**		131
	807	**968**	130	4.2	1.81 ★	**2KJ1005 - ■JP13 - ■■A1**		131
	E.88-LA160MB4							
	286	**343**	368	1	5.11 ★	**2KJ1004 - ■JP13 - ■■J1**		110
	311	**373**	338	1.1	4.70	**2KJ1004 - ■JP13 - ■■H1**		110
	345	**414**	304	1.3	4.23 ★	**2KJ1004 - ■JP13 - ■■G1**		110
	374	**449**	281	1.4	3.90	**2KJ1004 - ■JP13 - ■■F1**		110
	442	**530**	237	1.9	3.30	**2KJ1004 - ■JP13 - ■■E1**		110
	507	**608**	207	2.1	2.88 ★	**2KJ1004 - ■JP13 - ■■D1**		110

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

2

Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Order No.	Order code (No. of poles)	Weight *) kg
11.0 (50 Hz) 13.2 (60 Hz)	**E.88-LA160MB4**							
	596	**715**	176	2.4	2.45	**2KJ1004 - ■JP13 - ■■C1**		110
	699	**839**	150	2.8	2.09 ★	**2KJ1004 - ■JP13 - ■■B1**		110
	854	**1 025**	123	2.9	1.71 ★	**2KJ1004 - ■JP13 - ■■A1**		110
	E.68-LA160MB4							
	390	**468**	269	0.85	3.74 ★	**2KJ1003 - ■JP13 - ■■H1**		93
	423	**508**	248	0.97	3.45	**2KJ1003 - ■JP13 - ■■G1**		93
	472	**566**	222	1.1	3.09 ★	**2KJ1003 - ■JP13 - ■■F1**		93
	512	**614**	205	1.2	2.85	**2KJ1003 - ■JP13 - ■■E1**		93
	1 035	**1 242**	101	1.5	1.41 ★	**2KJ1003 - ■JP13 - ■■A1**		93
15 (50 Hz) 18 (60 Hz)	**D.188-LA160L4**							
	6.0	**7.2**	23 923	0.84	243.82	**2KJ1211 - ■JR13 - ■■N1**		688
	6.6	**7.9**	21 602	0.93	220.17	**2KJ1211 - ■JR13 - ■■M1**		688
	D.188-LA160L4							
	7.1	**8.5**	20 245	0.99	206.34	**2KJ1211 - ■JR13 - ■■L1**		688
	8.2	**9.8**	17 389	1.2	177.23 ★	**2KJ1211 - ■JR13 - ■■K1**		688
	9.5	**11.4**	15 024	1.3	153.12	**2KJ1211 - ■JR13 - ■■J1**		688
	10.8	**13.0**	13 261	1.5	135.16	**2KJ1211 - ■JR13 - ■■H1**		688
	12.0	**14.4**	11 938	1.7	121.67 ★	**2KJ1211 - ■JR13 - ■■G1**		688
	14.5	**17.4**	9 906	2.0	100.96 ★	**2KJ1211 - ■JR13 - ■■F1**		688
	15.9	**19.1**	9 033	2.2	92.06	**2KJ1211 - ■JR13 - ■■E1**		688
	D.168-LA160L4							
	8.2	**9.8**	17 502	0.8	178.38 ★	**2KJ1210 - ■JR13 - ■■L1**		543
	8.9	**10.7**	16 064	0.87	163.72	**2KJ1210 - ■JR13 - ■■K1**		543
	10.3	**12.4**	13 862	1.0	141.28	**2KJ1210 - ■JR13 - ■■J1**		543
	11.8	**14.2**	12 126	1.2	123.59	**2KJ1210 - ■JR13 - ■■H1**		543
	13.6	**16.3**	10 546	1.3	107.48	**2KJ1210 - ■JR13 - ■■G1**		543
	15.5	**18.6**	9 252	1.5	94.30 ★	**2KJ1210 - ■JR13 - ■■F1**		543
	18.3	**22**	7 825	1.8	79.75 ★	**2KJ1210 - ■JR13 - ■■E1**		543
	20	**24**	7 100	2.0	72.36	**2KJ1210 - ■JR13 - ■■D1**		543
	23	**28**	6 189	2.3	63.08 ★	**2KJ1210 - ■JR13 - ■■C1**		543
	Z.168-LA160L4							
	31	**37**	4 573	2.2	46.61	**2KJ1110 - ■JR13 - ■■V1**		524
	D.148-LA160L4							
	15.7	**18.8**	9 116	0.88	92.91	**2KJ1208 - ■JR13 - ■■G1**		372
	18	**22**	7 951	1.0	81.04 ★	**2KJ1208 - ■JR13 - ■■F1**		372
	21	**25**	6 805	1.2	69.36 ★	**2KJ1208 - ■JR13 - ■■E1**		372
	24	**29**	6 095	1.3	62.12	**2KJ1208 - ■JR13 - ■■D1**		372
	Z.148-LA160L4							
	27	**32**	5 322	1.5	54.24 ★	**2KJ1108 - ■JR13 - ■■A2**		360
	29	**35**	4 978	1.6	50.74	**2KJ1108 - ■JR13 - ■■X1**		360
	32	**38**	4 426	1.8	45.11 ★	**2KJ1108 - ■JR13 - ■■W1**		360
	34	**41**	4 179	1.9	42.59	**2KJ1108 - ■JR13 - ■■V1**		360

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
15 (50 Hz)	**Z.148-LA160L4**							
18 (60 Hz)	**38**	**46**	3 751	2.1	38.23 ★	**2KJ1108 - ■JR13 - ■■U1**		360
	42	**50**	3 443	2.3	35.09	**2KJ1108 - ■JR13 - ■■T1**		360
	48	**58**	2 971	2.7	30.28	**2KJ1108 - ■JR13 - ■■S1**		360
	D.128-LA160L4							
	25	**30**	5 648	0.9	57.56 ★	**2KJ1207 - ■JR13 - ■■D1**		282
	30	**36**	4 753	1.1	48.44 ★	**2KJ1207 - ■JR13 - ■■C1**		282
	33	**40**	4 289	1.2	43.71	**2KJ1207 - ■JR13 - ■■B1**		282
	Z.128-LA160L4							
	38	**46**	3 821	1.3	38.94 ★	**2KJ1107 - ■JR13 - ■■B2**		273
	40	**48**	3 570	1.4	36.39	**2KJ1107 - ■JR13 - ■■A2**		273
	46	**55**	3 151	1.6	32.11 ★	**2KJ1107 - ■JR13 - ■■X1**		273
	48	**58**	2 971	1.7	30.28	**2KJ1107 - ■JR13 - ■■W1**		273
	54	**65**	2 662	1.9	27.13 ★	**2KJ1107 - ■JR13 - ■■V1**		273
	58	**70**	2 458	2.1	25.05	**2KJ1107 - ■JR13 - ■■U1**		273
	68	**82**	2 101	2.4	21.41	**2KJ1107 - ■JR13 - ■■T1**		273
	Z.128-LA160L4							
	76	**91**	1 899	2.7	19.35 ★	**2KJ1107 - ■JR13 - ■■S1**		273
	78	**94**	1 829	2.8	18.64	**2KJ1107 - ■JR13 - ■■R1**		273
	91	**109**	1 582	3.2	16.12	**2KJ1107 - ■JR13 - ■■Q1**		273
	104	**125**	1 380	3.5	14.06 ★	**2KJ1107 - ■JR13 - ■■P1**		273
	200	**240**	715	3.6	7.29 ★	**2KJ1107 - ■JR13 - ■■J1**		273
	234	**281**	612	4.1	6.24 ★	**2KJ1107 - ■JR13 - ■■H1**		273
	261	**313**	548	4.8	5.59 ★	**2KJ1107 - ■JR13 - ■■F1**		273
	Z.108-LA160L4							
	42	**50**	3 448	0.9	35.14 ★	**2KJ1106 - ■JR13 - ■■W1**		201
	44	**53**	3 219	0.96	32.81	**2KJ1106 - ■JR13 - ■■V1**		201
	50	**60**	2 880	1.1	29.35 ★	**2KJ1106 - ■JR13 - ■■U1**		201
	54	**65**	2 669	1.2	27.20	**2KJ1106 - ■JR13 - ■■T1**		201
	58	**70**	2 447	1.3	24.94 ★	**2KJ1106 - ■JR13 - ■■S1**		201
	64	**77**	2 243	1.4	22.86	**2KJ1106 - ■JR13 - ■■R1**		201
	75	**90**	1 911	1.6	19.48	**2KJ1106 - ■JR13 - ■■Q1**		201
	85	**102**	1 687	1.8	17.19 ★	**2KJ1106 - ■JR13 - ■■P1**		201
	100	**120**	1 435	2.2	14.63	**2KJ1106 - ■JR13 - ■■N1**		201
	115	**138**	1 244	2.5	12.68 ★	**2KJ1106 - ■JR13 - ■■M1**		201
	137	**164**	1 047	3.0	10.67 ★	**2KJ1106 - ■JR13 - ■■L1**		201
	152	**182**	944	3.3	9.62	**2KJ1106 - ■JR13 - ■■K1**		201
	177	**212**	811	3.8	8.27 ★	**2KJ1106 - ■JR13 - ■■J1**		201
	206	**247**	697	2.6	7.10 ★	**2KJ1106 - ■JR13 - ■■H1**		201
	228	**274**	629	2.8	6.41	**2KJ1106 - ■JR13 - ■■G1**		201
	265	**318**	541	3.1	5.51 ★	**2KJ1106 - ■JR13 - ■■E1**		201
	279	**335**	514	2.2	5.24 ★	**2KJ1106 - ■JR13 - ■■D1**		201
	331	**397**	433	2.6	4.41 ★	**2KJ1106 - ■JR13 - ■■C1**		201
	367	**440**	391	2.9	3.98	**2KJ1106 - ■JR13 - ■■B1**		201

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Geared motors up to 200 kW

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
15 (50 Hz)	**Z.108-LA160L4**							
18 (60 Hz)	**427**	**512**	336	3.2	3.42 ★	**2KJ1106 - ■JR13 - ■■A1**		201
	Z.88-LA160L4							
	70	**84**	2 042	0.82	20.81	**2KJ1105 - ■JR13 - ■■P1**		155
	78	**94**	1 837	0.91	18.72 ★	**2KJ1105 - ■JR13 - ■■N1**		155
	84	**101**	1 694	0.99	17.27	**2KJ1105 - ■JR13 - ■■M1**		155
	100	**120**	1 435	1.1	14.63	**2KJ1105 - ■JR13 - ■■L1**		155
	115	**138**	1 251	1.2	12.75 ★	**2KJ1105 - ■JR13 - ■■K1**		155
	135	**162**	1 065	1.4	10.85	**2KJ1105 - ■JR13 - ■■J1**		155
	158	**190**	909	1.5	9.26 ★	**2KJ1105 - ■JR13 - ■■H1**		155
	192	**230**	745	1.7	7.59 ★	**2KJ1105 - ■JR13 - ■■G1**		155
	210	**252**	683	1.8	6.96	**2KJ1105 - ■JR13 - ■■F1**		155
	246	**295**	583	2.0	5.94 ★	**2KJ1105 - ■JR13 - ■■E1**		155
	300	**360**	478	2.3	4.87 ★	**2KJ1105 - ■JR13 - ■■D1**		155
	328	**394**	437	1.8	4.45 ★	**2KJ1105 - ■JR13 - ■■C1**		155
	385	**462**	372	2.0	3.79 ★	**2KJ1105 - ■JR13 - ■■B1**		155
	469	**563**	305	2.2	3.11 ★	**2KJ1105 - ■JR13 - ■■A1**		155
	Z.68-LA160L4							
	180	**216**	796	0.88	8.11	**2KJ1104 - ■JR13 - ■■F1**		123
	217	**260**	659	0.99	6.72 ★	**2KJ1104 - ■JR13 - ■■E1**		123
	246	**295**	582	0.84	5.93	**2KJ1104 - ■JR13 - ■■D1**		123
	289	**347**	496	0.97	5.06 ★	**2KJ1104 - ■JR13 - ■■C1**		123
	346	**415**	414	1.1	4.22	**2KJ1104 - ■JR13 - ■■B1**		123
	418	**502**	342	1.2	3.49 ★	**2KJ1104 - ■JR13 - ■■A1**		123
	E.148-LA160L4							
	144	**173**	994	0.80	10.13 ★	**2KJ1007 - ■JR13 - ■■Q1**		204
	154	**185**	929	0.99	9.47	**2KJ1007 - ■JR13 - ■■P1**		204
	173	**208**	826	1.2	8.42 ★	**2KJ1007 - ■JR13 - ■■N1**		204
	184	**221**	780	1.4	7.95	**2KJ1007 - ■JR13 - ■■M1**		204
	204	**245**	701	1.6	7.14 ★	**2KJ1007 - ■JR13 - ■■L1**		204
	223	**268**	643	1.8	6.55	**2KJ1007 - ■JR13 - ■■K1**		204
	258	**310**	554	2.5	5.65	**2KJ1007 - ■JR13 - ■■J1**		204
	296	**355**	485	2.9	4.94	**2KJ1007 - ■JR13 - ■■H1**		204
	340	**408**	422	3.2	4.30	**2KJ1007 - ■JR13 - ■■G1**		204
	387	**464**	370	3.6	3.77 ★	**2KJ1007 - ■JR13 - ■■F1**		204
	458	**550**	313	5.0	3.19 ★	**2KJ1007 - ■JR13 - ■■E1**		204
	503	**604**	285	4.9	2.90	**2KJ1007 - ■JR13 - ■■D1**		204
	579	**695**	247	4.9	2.52 ★	**2KJ1007 - ■JR13 - ■■C1**		204
	682	**818**	210	5.7	2.14	**2KJ1007 - ■JR13 - ■■B1**		204
	890	**1 068**	161	6.0	1.64 ★	**2KJ1007 - ■JR13 - ■■A1**		204
	E.128-LA160L4							
	175	**210**	819	0.87	8.35	**2KJ1006 - ■JR13 - ■■Q1**		180
	198	**238**	723	1.1	7.37 ★	**2KJ1006 - ■JR13 - ■■P1**		180
	210	**252**	682	1.3	6.95	**2KJ1006 - ■JR13 - ■■N1**		180

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
15 (50 Hz) 18 (60 Hz)	**E.128-LA160L4**							
	234	**281**	611	1.5	6.23 ★	**2KJ1006 - ■JR13 - ■■M1**		180
	254	**305**	564	1.7	5.75	**2KJ1006 - ■JR13 - ■■L1**		180
	297	**356**	482	2.0	4.91	**2KJ1006 - ■JR13 - ■■K1**		180
	329	**395**	436	2.3	4.44 ★	**2KJ1006 - ■JR13 - ■■J1**		180
	341	**409**	420	2.4	4.28	**2KJ1006 - ■JR13 - ■■H1**		180
	395	**474**	363	2.8	3.70	**2KJ1006 - ■JR13 - ■■G1**		180
	452	**542**	317	3.2	3.23 ★	**2KJ1006 - ■JR13 - ■■F1**		180
	529	**635**	271	3.7	2.76 ★	**2KJ1006 - ■JR13 - ■■E1**		180
	591	**709**	242	3.9	2.47	**2KJ1006 - ■JR13 - ■■D1**		180
	695	**834**	206	4.2	2.10 ★	**2KJ1006 - ■JR13 - ■■C1**		180
	807	**968**	178	4.5	1.81	**2KJ1006 - ■JR13 - ■■B1**		180
	1 074	**1 289**	133	5.1	1.36 ★	**2KJ1006 - ■JR13 - ■■A1**		180
	E.108-LA160L4							
	267	**320**	536	1.2	5.46 ★	**2KJ1005 - ■JR13 - ■■K1**		143
	292	**350**	491	1.4	5.00	**2KJ1005 - ■JR13 - ■■J1**		143
	343	**412**	418	1.7	4.26	**2KJ1005 - ■JR13 - ■■H1**		143
	388	**466**	369	1.6	3.76 ★	**2KJ1005 - ■JR13 - ■■G1**		143
	456	**547**	314	2.4	3.20	**2KJ1005 - ■JR13 - ■■F1**		143
	527	**632**	272	2.5	2.77 ★	**2KJ1005 - ■JR13 - ■■E1**		143
	627	**752**	229	3.0	2.33 ★	**2KJ1005 - ■JR13 - ■■C1**		143
	692	**830**	207	3.0	2.11	**2KJ1005 - ■JR13 - ■■B1**		143
	807	**968**	178	3.1	1.81 ★	**2KJ1005 - ■JR13 - ■■A1**		143
	E.88-LA160L4							
	311	**373**	461	0.83	4.70	**2KJ1004 - ■JR13 - ■■H1**		122
	345	**414**	415	0.96	4.23 ★	**2KJ1004 - ■JR13 - ■■G1**		122
	374	**449**	383	1.0	3.90	**2KJ1004 - ■JR13 - ■■F1**		122
	442	**530**	324	1.4	3.30	**2KJ1004 - ■JR13 - ■■E1**		122
	507	**608**	283	1.5	2.88 ★	**2KJ1004 - ■JR13 - ■■D1**		122
	596	**715**	240	1.7	2.45	**2KJ1004 - ■JR13 - ■■C1**		122
	699	**839**	205	2.0	2.09 ★	**2KJ1004 - ■JR13 - ■■B1**		122
	854	**1 025**	168	2.1	1.71 ★	**2KJ1004 - ■JR13 - ■■A1**		122
	E.68-LA160L4							
	472	**566**	303	0.82	3.09 ★	**2KJ1003 - ■JR13 - ■■F1**		105
	512	**614**	280	0.89	2.85	**2KJ1003 - ■JR13 - ■■E1**		105
18.5 (50 Hz) 22.0 (60 Hz)	**D.188-LG180ZMB4E**							
	7.1	**8.5**	24 799	0.81	206.34	**2KJ1211 - ■KL13 - ■■L1**		743
	8.3	**10.0**	21 301	0.94	177.23 ★	**2KJ1211 - ■KL13 - ■■K1**		743
	9.6	**11.5**	18 403	1.1	153.12	**2KJ1211 - ■KL13 - ■■J1**		743
	10.9	**13.1**	16 244	1.2	135.16	**2KJ1211 - ■KL13 - ■■H1**		743
	12.1	**14.5**	14 623	1.4	121.67 ★	**2KJ1211 - ■KL13 - ■■G1**		743
	14.6	**17.5**	12 134	1.6	100.96 ★	**2KJ1211 - ■KL13 - ■■F1**		743
	16.0	**19.2**	11 064	1.8	92.06	**2KJ1211 - ■KL13 - ■■E1**		743

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
18.5 (50 Hz) 22.0 (60 Hz)	**D.188-LG180ZMB4E**							
	18.2	**22**	9 708	2.1	80.77 ★	**2KJ1211 - ■KL13 - ■■D1**		743
	21	**25**	8 342	2.4	69.41	**2KJ1211 - ■KL13 - ■■C1**		743
	Z.188-LG180ZMB4E							
	28	**34**	6 292	2.5	52.35	**2KJ1111 - ■KL13 - ■■P1**		709
	D.168-LG180ZMB4E							
	10.4	**12.5**	16 980	0.82	141.28	**2KJ1210 - ■KL13 - ■■J1**		598
	11.9	**14.3**	14 854	0.94	123.59	**2KJ1210 - ■KL13 - ■■H1**		598
	13.7	**16.4**	12 918	1.1	107.48	**2KJ1210 - ■KL13 - ■■G1**		598
	15.6	**18.7**	11 334	1.2	94.30 ★	**2KJ1210 - ■KL13 - ■■F1**		598
	18.4	**22**	9 585	1.5	79.75 ★	**2KJ1210 - ■KL13 - ■■E1**		598
	20	**24**	8 697	1.6	72.36	**2KJ1210 - ■KL13 - ■■D1**		598
	23	**28**	7 581	1.8	63.08 ★	**2KJ1210 - ■KL13 - ■■C1**		598
	27	**32**	6 437	2.2	53.56	**2KJ1210 - ■KL13 - ■■B1**		598
	Z.168-LG180ZMB4E							
	32	**38**	5 602	1.8	46.61	**2KJ1110 - ■KL13 - ■■V1**		579
	D.148-LG180ZMB4E							
	18.1	**22**	9 740	0.82	81.04 ★	**2KJ1208 - ■KL13 - ■■F1**		427
	21	**25**	8 336	0.96	69.36 ★	**2KJ1208 - ■KL13 - ■■E1**		427
	24	**29**	7 466	1.1	62.12	**2KJ1208 - ■KL13 - ■■D1**		427
	28	**34**	6 323	1.3	52.61 ★	**2KJ1208 - ■KL13 - ■■C1**		427
	Z.148-LG180ZMB4E							
	33	**40**	5 422	1.5	45.11 ★	**2KJ1108 - ■KL13 - ■■W1**		415
	34	**41**	5 119	1.6	42.59	**2KJ1108 - ■KL13 - ■■V1**		415
	38	**46**	4 595	1.7	38.23 ★	**2KJ1108 - ■KL13 - ■■U1**		415
	42	**50**	4 217	1.9	35.09	**2KJ1108 - ■KL13 - ■■T1**		415
	48	**58**	3 639	2.2	30.28	**2KJ1108 - ■KL13 - ■■S1**		415
	56	**67**	3 184	2.5	26.49	**2KJ1108 - ■KL13 - ■■R1**		415
	64	**77**	2 769	2.9	23.04	**2KJ1108 - ■KL13 - ■■Q1**		415
	D.128-LG180ZMB4E							
	30	**36**	5 822	0.88	48.44 ★	**2KJ1207 - ■KL13 - ■■C1**		337
	34	**41**	5 253	0.97	43.71	**2KJ1207 - ■KL13 - ■■B1**		337
	39	**47**	4 515	1.1	37.57 ★	**2KJ1207 - ■KL13 - ■■A1**		337
	Z.128-LG180ZMB4E							
	46	**55**	3 859	1.3	32.11 ★	**2KJ1107 - ■KL13 - ■■X1**		328
	48	**58**	3 639	1.4	30.28	**2KJ1107 - ■KL13 - ■■W1**		328
	54	**65**	3 261	1.6	27.13 ★	**2KJ1107 - ■KL13 - ■■V1**		328
	59	**71**	3 011	1.7	25.05	**2KJ1107 - ■KL13 - ■■U1**		328
	69	**83**	2 573	2.0	21.41	**2KJ1107 - ■KL13 - ■■T1**		328
	76	**91**	2 326	2.2	19.35 ★	**2KJ1107 - ■KL13 - ■■S1**		328
	79	**95**	2 240	2.3	18.64	**2KJ1107 - ■KL13 - ■■R1**		328
	91	**109**	1 937	2.6	16.12	**2KJ1107 - ■KL13 - ■■Q1**		328
	105	**126**	1 690	2.9	14.06 ★	**2KJ1107 - ■KL13 - ■■P1**		328
	122	**146**	1 446	3.3	12.03 ★	**2KJ1107 - ■KL13 - ■■N1**		328

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
18.5 (50 Hz) 22.0 (60 Hz)	**Z.128-LG180ZMB4E**							
	136	**163**	1 296	3.6	10.78	**2KJ1107 - ■KL13 - ■■M1**		328
	161	**193**	1 097	4.0	9.13 ★	**2KJ1107 - ■KL13 - ■■L1**		328
	202	**242**	876	2.9	7.29 ★	**2KJ1107 - ■KL13 - ■■J1**		328
	236	**283**	750	3.4	6.24 ★	**2KJ1107 - ■KL13 - ■■H1**		328
	263	**316**	672	3.9	5.59 ★	**2KJ1107 - ■KL13 - ■■F1**		328
	304	**365**	581	4.3	4.83	**2KJ1107 - ■KL13 - ■■E1**		328
	311	**373**	568	4.2	4.73 ★	**2KJ1107 - ■KL13 - ■■D1**		328
	359	**431**	492	4.8	4.09 ★	**2KJ1107 - ■KL13 - ■■C1**		328
	405	**486**	436	5.3	3.63 ★	**2KJ1107 - ■KL13 - ■■B1**		328
	Z.108-LG180ZMB4E							
	50	**60**	3 527	0.88	29.35 ★	**2KJ1106 - ■KL13 - ■■U1**		256
	54	**65**	3 269	0.95	27.20	**2KJ1106 - ■KL13 - ■■T1**		256
	59	**71**	2 997	1.0	24.94 ★	**2KJ1106 - ■KL13 - ■■S1**		256
	64	**77**	2 747	1.1	22.86	**2KJ1106 - ■KL13 - ■■R1**		256
	76	**91**	2 341	1.3	19.48	**2KJ1106 - ■KL13 - ■■Q1**		256
	86	**103**	2 066	1.5	17.19 ★	**2KJ1106 - ■KL13 - ■■P1**		256
	100	**120**	1 758	1.8	14.63	**2KJ1106 - ■KL13 - ■■N1**		256
	116	**139**	1 524	2.0	12.68 ★	**2KJ1106 - ■KL13 - ■■M1**		256
	138	**166**	1 282	2.4	10.67 ★	**2KJ1106 - ■KL13 - ■■L1**		256
	153	**184**	1 156	2.7	9.62	**2KJ1106 - ■KL13 - ■■K1**		256
	178	**214**	994	3.1	8.27 ★	**2KJ1106 - ■KL13 - ■■J1**		256
	207	**248**	853	2.1	7.10 ★	**2KJ1106 - ■KL13 - ■■H1**		256
	229	**275**	770	2.3	6.41	**2KJ1106 - ■KL13 - ■■G1**		256
	267	**320**	662	2.6	5.51 ★	**2KJ1106 - ■KL13 - ■■E1**		256
	281	**337**	630	1.8	5.24 ★	**2KJ1106 - ■KL13 - ■■D1**		256
	333	**400**	530	2.2	4.41 ★	**2KJ1106 - ■KL13 - ■■C1**		256
	369	**443**	478	2.3	3.98	**2KJ1106 - ■KL13 - ■■B1**		256
	430	**516**	411	2.6	3.42 ★	**2KJ1106 - ■KL13 - ■■A1**		256
	Z.88-LG180ZMB4E							
	85	**102**	2 076	0.81	17.27	**2KJ1105 - ■KL13 - ■■M1**		210
	100	**120**	1 758	0.92	14.63	**2KJ1105 - ■KL13 - ■■L1**		210
	115	**138**	1 532	1.0	12.75 ★	**2KJ1105 - ■KL13 - ■■K1**		210
	135	**162**	1 304	1.1	10.85	**2KJ1105 - ■KL13 - ■■J1**		210
	159	**191**	1 113	1.2	9.26 ★	**2KJ1105 - ■KL13 - ■■H1**		210
	194	**233**	912	1.4	7.59 ★	**2KJ1105 - ■KL13 - ■■G1**		210
	211	**253**	837	1.5	6.96	**2KJ1105 - ■KL13 - ■■F1**		210
	247	**296**	714	1.7	5.94 ★	**2KJ1105 - ■KL13 - ■■E1**		210
	302	**362**	585	1.9	4.87 ★	**2KJ1105 - ■KL13 - ■■D1**		210
	330	**396**	535	1.5	4.45 ★	**2KJ1105 - ■KL13 - ■■C1**		210
	388	**466**	456	1.6	3.79 ★	**2KJ1105 - ■KL13 - ■■B1**		210
	473	**568**	374	1.8	3.11 ★	**2KJ1105 - ■KL13 - ■■A1**		210
	E.148-LG180ZMB4E							
	175	**210**	1 012	0.99	8.42 ★	**2KJ1007 - ■KL13 - ■■N1**		259

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
18.5 (50 Hz) 22.0 (60 Hz)	**E.148-LG180ZMB4E**							
	185	**222**	955	1.1	7.95	**2KJ1007 - ■KL13 - ■■M1**		259
	206	**247**	858	1.3	7.14 ★	**2KJ1007 - ■KL13 - ■■L1**		259
	224	**269**	787	1.5	6.55	**2KJ1007 - ■KL13 - ■■K1**		259
	260	**312**	679	2.0	5.65	**2KJ1007 - ■KL13 - ■■J1**		259
	298	**358**	594	2.4	4.94	**2KJ1007 - ■KL13 - ■■H1**		259
	342	**410**	517	2.6	4.30	**2KJ1007 - ■KL13 - ■■G1**		259
	390	**468**	453	3.0	3.77 ★	**2KJ1007 - ■KL13 - ■■F1**		259
	461	**553**	383	4.0	3.19 ★	**2KJ1007 - ■KL13 - ■■E1**		259
	507	**608**	349	4.0	2.90	**2KJ1007 - ■KL13 - ■■D1**		259
	583	**700**	303	4.0	2.52 ★	**2KJ1007 - ■KL13 - ■■C1**		259
	687	**824**	257	4.7	2.14	**2KJ1007 - ■KL13 - ■■B1**		259
	896	**1 075**	197	4.9	1.64 ★	**2KJ1007 - ■KL13 - ■■A1**		259
	E.128-LG180ZMB4E							
	199	**239**	886	0.92	7.37 ★	**2KJ1006 - ■KL13 - ■■P1**		235
	212	**254**	835	1.1	6.95	**2KJ1006 - ■KL13 - ■■N1**		235
	236	**283**	749	1.2	6.23 ★	**2KJ1006 - ■KL13 - ■■M1**		235
	256	**307**	691	1.4	5.75	**2KJ1006 - ■KL13 - ■■L1**		235
	299	**359**	590	1.6	4.91	**2KJ1006 - ■KL13 - ■■K1**		235
	331	**397**	534	1.9	4.44 ★	**2KJ1006 - ■KL13 - ■■J1**		235
	343	**412**	514	1.9	4.28	**2KJ1006 - ■KL13 - ■■H1**		235
	397	**476**	445	2.2	3.70	**2KJ1006 - ■KL13 - ■■G1**		235
	455	**546**	388	2.6	3.23 ★	**2KJ1006 - ■KL13 - ■■F1**		235
	533	**640**	332	3.0	2.76 ★	**2KJ1006 - ■KL13 - ■■E1**		235
	595	**714**	297	3.2	2.47	**2KJ1006 - ■KL13 - ■■D1**		235
	700	**840**	252	3.4	2.10 ★	**2KJ1006 - ■KL13 - ■■C1**		235
	812	**974**	218	3.7	1.81	**2KJ1006 - ■KL13 - ■■B1**		235
	1 081	**1 297**	163	4.2	1.36 ★	**2KJ1006 - ■KL13 - ■■A1**		235
	E.108-LG180ZMB4E							
	269	**323**	656	1.0	5.46 ★	**2KJ1005 - ■KL13 - ■■K1**		198
	294	**353**	601	1.1	5.00	**2KJ1005 - ■KL13 - ■■J1**		198
	345	**414**	512	1.4	4.26	**2KJ1005 - ■KL13 - ■■H1**		198
	391	**469**	452	1.3	3.76 ★	**2KJ1005 - ■KL13 - ■■G1**		198
	459	**551**	385	1.9	3.20	**2KJ1005 - ■KL13 - ■■F1**		198
	531	**637**	333	2.0	2.77 ★	**2KJ1005 - ■KL13 - ■■E1**		198
	631	**757**	280	2.4	2.33 ★	**2KJ1005 - ■KL13 - ■■C1**		198
	697	**836**	254	2.4	2.11	**2KJ1005 - ■KL13 - ■■B1**		198
	812	**974**	218	2.5	1.81 ★	**2KJ1005 - ■KL13 - ■■A1**		198
	E.88-LG180ZMB4E							
	377	**452**	469	0.82	3.90	**2KJ1004 - ■KL13 - ■■F1**		177
	445	**534**	397	1.1	3.30	**2KJ1004 - ■KL13 - ■■E1**		177
	510	**612**	346	1.3	2.88 ★	**2KJ1004 - ■KL13 - ■■D1**		177
	703	**844**	251	1.7	2.09 ★	**2KJ1004 - ■KL13 - ■■B1**		177
	860	**1 032**	206	1.7	1.71 ★	**2KJ1004 - ■KL13 - ■■A1**		177

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
22 (50 Hz)	**D.188-LG180ZLB4E**							
26 (60 Hz)	**9.6**	**11.5**	21 885	0.91	153.12	**2KJ1211 - ■KP13 - ■■J1**		758
	10.9	**13.1**	19 318	1.0	135.16	**2KJ1211 - ■KP13 - ■■H1**		758
	12.1	**14.5**	17 390	1.2	121.67 ★	**2KJ1211 - ■KP13 - ■■G1**		758
	14.6	**17.5**	14 430	1.4	100.96 ★	**2KJ1211 - ■KP13 - ■■F1**		758
	16	**19.2**	13 158	1.5	92.06	**2KJ1211 - ■KP13 - ■■E1**		758
	18.2	**22**	11 544	1.7	80.77 ★	**2KJ1211 - ■KP13 - ■■D1**		758
	21	**25**	9 920	2	69.41	**2KJ1211 - ■KP13 - ■■C1**		758
	Z.188-LG180ZLB4E							
	28	**34**	7 482	2.1	52.35	**2KJ1111 - ■KP13 - ■■P1**		724
	30	**36**	6 892	2.3	48.22	**2KJ1111 - ■KP13 - ■■N1**		724
	D.168-LG180ZLB4E							
	13.7	**16.4**	15 362	0.91	107.48	**2KJ1210 - ■KP13 - ■■G1**		613
	15.6	**18.7**	13 478	1.0	94.30 ★	**2KJ1210 - ■KP13 - ■■F1**		613
	18.4	**22**	11 398	1.2	79.75 ★	**2KJ1210 - ■KP13 - ■■E1**		613
	20	**24**	10 342	1.4	72.36	**2KJ1210 - ■KP13 - ■■D1**		613
	23	**28**	9 016	1.6	63.08 ★	**2KJ1210 - ■KP13 - ■■C1**		613
	27	**32**	7 655	1.8	53.56	**2KJ1210 - ■KP13 - ■■B1**		613
	Z.168-LG180ZLB4E							
	32	**38**	6 662	1.5	46.61	**2KJ1110 - ■KP13 - ■■V1**		594
	35	**42**	6 016	2.3	42.09	**2KJ1110 - ■KP13 - ■■U1**		594
	37	**44**	5 638	2.5	39.45	**2KJ1110 - ■KP13 - ■■T1**		594
	D.148-LG180ZLB4E							
	21	**25**	9 913	0.81	69.36 ★	**2KJ1208 - ■KP13 - ■■E1**		442
	24	**29**	8 879	0.9	62.12	**2KJ1208 - ■KP13 - ■■D1**		442
	28	**34**	7 519	1.1	52.61 ★	**2KJ1208 - ■KP13 - ■■C1**		442
	Z.148-LG180ZLB4E							
	33	**40**	6 447	1.2	45.11 ★	**2KJ1108 - ■KP13 - ■■W1**		430
	34	**41**	6 087	1.3	42.59	**2KJ1108 - ■KP13 - ■■V1**		430
	38	**46**	5 464	1.5	38.23 ★	**2KJ1108 - ■KP13 - ■■U1**		430
	42	**50**	5 015	1.6	35.09	**2KJ1108 - ■KP13 - ■■T1**		430
	48	**58**	4 328	1.8	30.28	**2KJ1108 - ■KP13 - ■■S1**		430
	56	**67**	3 786	2.1	26.49	**2KJ1108 - ■KP13 - ■■R1**		430
	64	**77**	3 293	2.4	23.04	**2KJ1108 - ■KP13 - ■■Q1**		430
	73	**88**	2 889	2.8	20.21 ★	**2KJ1108 - ■KP13 - ■■P1**		430
	86	**103**	24 43	3.3	17.09 ★	**2KJ1108 - ■KP13 - ■■N1**		430
	170	**204**	1 235	3.9	8.64 ★	**2KJ1108 - ■KP13 - ■■H1**		430
	188	**226**	1 121	4.3	7.84	**2KJ1108 - ■KP13 - ■■G1**		430
	D.128-LG180ZLB4E							
	34	**41**	6 247	0.82	43.71	**2KJ1207 - ■KP13 - ■■B1**		352
	39	**47**	5 370	0.95	37.57 ★	**2KJ1207 - ■KP13 - ■■A1**		352
	Z.128-LG180ZLB4E							
	46	**55**	4 589	1.1	32.11 ★	**2KJ1107 - ■KP13 - ■■X1**		343
	48	**58**	4 328	1.2	30.28	**2KJ1107 - ■KP13 - ■■W1**		343

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
22 (50 Hz)	**Z.128-LG180ZLB4E**							
26 (60 Hz)	**54**	**65**	3 878	1.3	27.13 ★	**2KJ1107 - ■KP13 - ■■V1**		343
	59	**71**	3 580	1.4	25.05	**2KJ1107 - ■KP13 - ■■U1**		343
	69	**83**	3 060	1.7	21.41	**2KJ1107 - ■KP13 - ■■T1**		343
	76	**91**	2 766	1.8	19.35 ★	**2KJ1107 - ■KP13 - ■■S1**		343
	79	**95**	2 664	1.9	18.64	**2KJ1107 - ■KP13 - ■■R1**		343
	91	**109**	2 304	2.2	16.12	**2KJ1107 - ■KP13 - ■■Q1**		343
	105	**126**	2 010	2.4	14.06 ★	**2KJ1107 - ■KP13 - ■■P1**		343
	122	**146**	1 719	2.7	12.03 ★	**2KJ1107 - ■KP13 - ■■N1**		343
	136	**163**	1 541	3.0	10.78	**2KJ1107 - ■KP13 - ■■M1**		343
	161	**193**	1 305	3.4	9.13 ★	**2KJ1107 - ■KP13 - ■■L1**		343
	187	**224**	1 126	3.8	7.88	**2KJ1107 - ■KP13 - ■■K1**		343
	202	**242**	1 042	2.4	7.29 ★	**2KJ1107 - ■KP13 - ■■J1**		343
	236	**283**	892	2.8	6.24 ★	**2KJ1107 - ■KP13 - ■■H1**		343
	248	**298**	848	4.6	5.93 ★	**2KJ1107 - ■KP13 - ■■G1**		343
	263	**316**	799	3.3	5.59 ★	**2KJ1107 - ■KP13 - ■■F1**		343
	304	**365**	690	3.6	4.83	**2KJ1107 - ■KP13 - ■■E1**		343
	311	**373**	676	3.5	4.73 ★	**2KJ1107 - ■KP13 - ■■D1**		343
	359	**431**	585	4.0	4.09 ★	**2KJ1107 - ■KP13 - ■■C1**		343
	405	**486**	519	4.5	3.63 ★	**2KJ1107 - ■KP13 - ■■B1**		343
	479	**575**	439	5.1	3.07 ★	**2KJ1107 - ■KP13 - ■■A1**		343
	Z.108-LG180ZLB4E							
	54	**65**	3 888	0.80	27.20	**2KJ1106 - ■KP13 - ■■T1**		271
	59	**71**	3 565	0.87	24.94 ★	**2KJ1106 - ■KP13 - ■■S1**		271
	64	**77**	3 267	0.95	22.86	**2KJ1106 - ■KP13 - ■■R1**		271
	76	**91**	2 784	1.1	19.48	**2KJ1106 - ■KP13 - ■■Q1**		271
	86	**103**	2 457	1.3	17.19 ★	**2KJ1106 - ■KP13 - ■■P1**		271
	100	**120**	2 091	1.5	14.63	**2KJ1106 - ■KP13 - ■■N1**		271
	116	**139**	1 812	1.7	12.68 ★	**2KJ1106 - ■KP13 - ■■M1**		271
	138	**166**	1 525	2.0	10.67 ★	**2KJ1106 - ■KP13 - ■■L1**		271
	153	**184**	1 375	2.3	9.62	**2KJ1106 - ■KP13 - ■■K1**		271
	178	**214**	1 182	2.6	8.27 ★	**2KJ1106 - ■KP13 - ■■J1**		271
	207	**248**	1 015	1.8	7.10 ★	**2KJ1106 - ■KP13 - ■■H1**		271
	229	**275**	916	1.9	6.41	**2KJ1106 - ■KP13 - ■■G1**		271
	267	**320**	788	2.2	5.51 ★	**2KJ1106 - ■KP13 - ■■E1**		271
	281	**337**	749	1.5	5.24 ★	**2KJ1106 - ■KP13 - ■■D1**		271
	333	**400**	630	1.8	4.41 ★	**2KJ1106 - ■KP13 - ■■C1**		271
	369	**443**	569	2.0	3.98	**2KJ1106 - ■KP13 - ■■B1**		271
	430	**516**	489	2.2	3.42 ★	**2KJ1106 - ■KP13 - ■■A1**		271
	Z.88-LG180ZLB4E							
	115	**138**	1 822	0.85	12.75 ★	**2KJ1105 - ■KP13 - ■■K1**		225
	135	**162**	1 551	0.95	10.85	**2KJ1105 - ■KP13 - ■■J1**		225
	159	**191**	1 323	1.1	9.26 ★	**2KJ1105 - ■KP13 - ■■H1**		225
	194	**233**	1 085	1.2	7.59 ★	**2KJ1105 - ■KP13 - ■■G1**		225

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
22 (50 Hz)	**Z.88-LG180ZLB4E**							
26 (60 Hz)	**211**	**253**	995	1.3	6.96	**2KJ1105 - ■KP13 - ■■F1**		225
	247	**296**	849	1.4	5.94 ★	**2KJ1105 - ■KP13 - ■■E1**		225
	302	**362**	696	1.6	4.87 ★	**2KJ1105 - ■KP13 - ■■D1**		225
	330	**396**	636	1.3	4.45 ★	**2KJ1105 - ■KP13 - ■■C1**		225
	388	**466**	542	1.4	3.79 ★	**2KJ1105 - ■KP13 - ■■B1**		225
	473	**568**	444	1.5	3.11 ★	**2KJ1105 - ■KP13 - ■■A1**		225
	E.148-LG180ZLB4E							
	175	**210**	1 203	0.83	8.42 ★	**2KJ1007 - ■KP13 - ■■N1**		274
	185	**222**	1 136	0.93	7.95	**2KJ1007 - ■KP13 - ■■M1**		274
	206	**247**	1 020	1.1	7.14 ★	**2KJ1007 - ■KP13 - ■■L1**		274
	224	**269**	936	1.2	6.55	**2KJ1007 - ■KP13 - ■■K1**		274
	260	**312**	808	1.7	5.65	**2KJ1007 - ■KP13 - ■■J1**		274
	298	**358**	706	2	4.94	**2KJ1007 - ■KP13 - ■■H1**		274
	342	**410**	615	2.2	4.30	**2KJ1007 - ■KP13 - ■■G1**		274
	390	**468**	539	2.5	3.77 ★	**2KJ1007 - ■KP13 - ■■F1**		274
	461	**553**	456	3.4	3.19 ★	**2KJ1007 - ■KP13 - ■■E1**		274
	507	**608**	414	3.4	2.9	**2KJ1007 - ■KP13 - ■■D1**		274
	583	**700**	360	3.4	2.52 ★	**2KJ1007 - ■KP13 - ■■C1**		274
	687	**824**	306	3.9	2.14	**2KJ1007 - ■KP13 - ■■B1**		274
	896	**1075**	234	4.1	1.64 ★	**2KJ1007 - ■KP13 - ■■A1**		274
	E.128-LG180ZLB4E							
	212	**254**	993	0.89	6.95	**2KJ1006 - ■KP13 - ■■N1**		250
	236	**283**	890	1.0	6.23 ★	**2KJ1006 - ■KP13 - ■■M1**		250
	256	**307**	822	1.2	5.75	**2KJ1006 - ■KP13 - ■■L1**		250
	299	**359**	702	1.4	4.91	**2KJ1006 - ■KP13 - ■■K1**		250
	331	**397**	635	1.6	4.44 ★	**2KJ1006 - ■KP13 - ■■J1**		250
	343	**412**	612	1.6	4.28	**2KJ1006 - ■KP13 - ■■H1**		250
	397	**476**	529	1.9	3.70	**2KJ1006 - ■KP13 - ■■G1**		250
	455	**546**	462	2.2	3.23 ★	**2KJ1006 - ■KP13 - ■■F1**		250
	533	**640**	394	2.5	2.76 ★	**2KJ1006 - ■KP13 - ■■E1**		250
	595	**714**	353	2.7	2.47	**2KJ1006 - ■KP13 - ■■D1**		250
	700	**840**	300	2.9	2.10 ★	**2KJ1006 - ■KP13 - ■■C1**		250
	812	**974**	259	3.1	1.81	**2KJ1006 - ■KP13 - ■■B1**		250
	1 081	**1 297**	194	3.5	1.36 ★	**2KJ1006 - ■KP13 - ■■A1**		250
	E.108-LG180ZLB4E							
	269	**323**	780	0.85	5.46 ★	**2KJ1005 - ■KP13 - ■■K1**		213
	294	**353**	715	0.95	5.00	**2KJ1005 - ■KP13 - ■■J1**		213
	345	**414**	609	1.2	4.26	**2KJ1005 - ■KP13 - ■■H1**		213
	391	**469**	537	1.1	3.76 ★	**2KJ1005 - ■KP13 - ■■G1**		213
	459	**551**	457	1.6	3.20	**2KJ1005 - ■KP13 - ■■F1**		213
	531	**637**	396	1.7	2.77 ★	**2KJ1005 - ■KP13 - ■■E1**		213
	631	**757**	333	2.0	2.33 ★	**2KJ1005 - ■KP13 - ■■C1**		213
	697	**836**	302	2.1	2.11	**2KJ1005 - ■KP13 - ■■B1**		213

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
22 (50 Hz)	**E.108-LG180ZLB4E**							
26 (60 Hz)	**812**	**974**	259	2.1	1.81 ★	**2KJ1005 - ■KP13 - ■■A1**		213
	E.88-LG180ZLB4E							
	445	**534**	472	0.95	3.3	**2KJ1004 - ■KP13 - ■■E1**		192
	510	**612**	412	1.1	2.88 ★	**2KJ1004 - ■KP13 - ■■D1**		192
	860	**1 032**	244	1.5	1.71 ★	**2KJ1004 - ■KP13 - ■■A1**		192
30 (50 Hz)	**D.188-LG200LB4E**							
36 (60 Hz)	**12.1**	**14.5**	23 713	0.84	121.67 ★	**2KJ1211 - ■LM13 - ■■G1**		808
	14.6	**17.5**	19 677	1.0	100.96 ★	**2KJ1211 - ■LM13 - ■■F1**		808
	16.0	**19.2**	17 942	1.1	92.06	**2KJ1211 - ■LM13 - ■■E1**		808
	18.2	**22**	15 742	1.3	80.77 ★	**2KJ1211 - ■LM13 - ■■D1**		808
	21	**25**	13 528	1.5	69.41	**2KJ1211 - ■LM13 - ■■C1**		808
	27	**32**	10 536	1.9	54.06 ★	**2KJ1211 - ■LM13 - ■■B1**		808
	34	**41**	8 371	2.4	42.95 ★	**2KJ1211 - ■LM13 - ■■A1**		808
	Z.188-LG200LB4E							
	28	**34**	10 203	1.5	52.35	**2KJ1111 - ■LM13 - ■■P1**		774
	30	**36**	9 398	1.7	48.22	**2KJ1111 - ■LM13 - ■■N1**		774
	35	**42**	8 156	2.0	41.85 ★	**2KJ1111 - ■LM13 - ■■M1**		774
	40	**48**	7 190	2.3	36.89	**2KJ1111 - ■LM13 - ■■L1**		774
	D.168-LG200LB4E							
	18.4	**22**	15 543	0.90	79.75 ★	**2KJ1210 - ■LM13 - ■■E1**		663
	20	**24**	14 103	0.99	72.36	**2KJ1210 - ■LM13 - ■■D1**		663
	23	**28**	12 294	1.1	63.08 ★	**2KJ1210 - ■LM13 - ■■C1**		663
	27	**32**	10 439	1.3	53.56	**2KJ1210 - ■LM13 - ■■B1**		663
	Z.168-LG200LB4E							
	32	**38**	9 084	1.1	46.61	**2KJ1110 - ■LM13 - ■■V1**		644
	35	**42**	8 203	1.7	42.09	**2KJ1110 - ■LM13 - ■■U1**		644
	37	**44**	7 689	1.8	39.45	**2KJ1110 - ■LM13 - ■■T1**		644
	43	**52**	6 603	2.1	33.88 ★	**2KJ1110 - ■LM13 - ■■S1**		644
	50	**60**	5 705	2.5	29.27	**2KJ1110 - ■LM13 - ■■Q1**		644
	57	**68**	5 036	2.8	25.84	**2KJ1110 - ■LM13 - ■■P1**		644
	Z.148-LG200LB4E							
	33	**40**	8 792	0.91	45.11 ★	**2KJ1108 - ■LM13 - ■■W1**		480
	34	**41**	8 301	0.96	42.59	**2KJ1108 - ■LM13 - ■■V1**		480
	38	**46**	7 451	1.1	38.23 ★	**2KJ1108 - ■LM13 - ■■U1**		480
	42	**50**	6 839	1.2	35.09	**2KJ1108 - ■LM13 - ■■T1**		480
	48	**58**	5 902	1.4	30.28	**2KJ1108 - ■LM13 - ■■S1**		480
	56	**67**	5 163	1.5	26.49	**2KJ1108 - ■LM13 - ■■R1**		480
	64	**77**	4 490	1.8	23.04	**2KJ1108 - ■LM13 - ■■Q1**		480
	73	**88**	3 939	2.0	20.21 ★	**2KJ1108 - ■LM13 - ■■P1**		480
	86	**103**	3 331	2.4	17.09 ★	**2KJ1108 - ■LM13 - ■■N1**		480
	95	**114**	3 023	2.6	15.51	**2KJ1108 - ■LM13 - ■■M1**		480
	109	**131**	2 635	3.0	13.52 ★	**2KJ1108 - ■LM13 - ■■L1**		480

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
30 (50 Hz)	**Z.148-LG200LB4E**							
36 (60 Hz)	**128**	**154**	2 237	3.6	11.48	**2KJ1108 - ■LM13 - ■■K1**		480
	170	**204**	1 684	2.9	8.64 ★	**2KJ1108 - ■LM13 - ■■H1**		480
	188	**226**	1 528	3.1	7.84	**2KJ1108 - ■LM13 - ■■G1**		480
	194	**233**	1 475	3.8	7.57 ★	**2KJ1108 - ■LM13 - ■■F1**		480
	215	**258**	1 333	3.6	6.84 ★	**2KJ1108 - ■LM13 - ■■E1**		480
	229	**275**	1 253	4.3	6.43	**2KJ1108 - ■LM13 - ■■D1**		480
	253	**304**	1 130	3.7	5.80	**2KJ1108 - ■LM13 - ■■C1**		480
	331	**397**	865	4.4	4.44 ★	**2KJ1108 - ■LM13 - ■■A1**		480
	Z.128-LG200LB4E							
	46	**55**	6 258	0.81	32.11 ★	**2KJ1107 - ■LM13 - ■■X1**		393
	48	**58**	5 902	0.86	30.28	**2KJ1107 - ■LM13 - ■■W1**		393
	54	**65**	5 288	0.96	27.13 ★	**2KJ1107 - ■LM13 - ■■V1**		393
	59	**71**	4 882	1.0	25.05	**2KJ1107 - ■LM13 - ■■U1**		393
	69	**83**	4 173	1.2	21.41	**2KJ1107 - ■LM13 - ■■T1**		393
	76	**91**	3 771	1.4	19.35 ★	**2KJ1107 - ■LM13 - ■■S1**		393
	79	**95**	3 633	1.4	18.64	**2KJ1107 - ■LM13 - ■■R1**		393
	91	**109**	3 142	1.6	16.12	**2KJ1107 - ■LM13 - ■■Q1**		393
	105	**126**	2 740	1.8	14.06 ★	**2KJ1107 - ■LM13 - ■■P1**		393
	122	**146**	2 345	2.0	12.03 ★	**2KJ1107 - ■LM13 - ■■N1**		393
	136	**163**	2 101	2.2	10.78	**2KJ1107 - ■LM13 - ■■M1**		393
	161	**193**	1 779	2.5	9.13 ★	**2KJ1107 - ■LM13 - ■■L1**		393
	187	**224**	1 536	2.8	7.88	**2KJ1107 - ■LM13 - ■■K1**		393
	202	**242**	1 421	1.8	7.29 ★	**2KJ1107 - ■LM13 - ■■J1**		393
	236	**283**	1 216	2.1	6.24 ★	**2KJ1107 - ■LM13 - ■■H1**		393
	248	**298**	1 156	3.4	5.93 ★	**2KJ1107 - ■LM13 - ■■G1**		393
	263	**316**	1 089	2.4	5.59 ★	**2KJ1107 - ■LM13 - ■■F1**		393
	304	**365**	941	2.7	4.83	**2KJ1107 - ■LM13 - ■■E1**		393
	311	**373**	922	2.6	4.73 ★	**2KJ1107 - ■LM13 - ■■D1**		393
	359	**431**	797	3.0	4.09 ★	**2KJ1107 - ■LM13 - ■■C1**		393
	405	**486**	707	3.3	3.63 ★	**2KJ1107 - ■LM13 - ■■B1**		393
	479	**575**	598	3.7	3.07 ★	**2KJ1107 - ■LM13 - ■■A1**		393
	Z.108-LG200LB4E							
	76	**91**	3 797	0.82	19.48	**2KJ1106 - ■LM13 - ■■Q1**		321
	86	**103**	3 350	0.93	17.19 ★	**2KJ1106 - ■LM13 - ■■P1**		321
	100	**120**	2 851	1.1	14.63	**2KJ1106 - ■LM13 - ■■N1**		321
	116	**139**	2 471	1.3	12.68 ★	**2KJ1106 - ■LM13 - ■■M1**		321
	138	**166**	2 080	1.5	10.67 ★	**2KJ1106 - ■LM13 - ■■L1**		321
	153	**184**	1 875	1.7	9.62	**2KJ1106 - ■LM13 - ■■K1**		321
	178	**214**	1 612	1.9	8.27 ★	**2KJ1106 - ■LM13 - ■■J1**		321
	207	**248**	1 384	1.3	7.10 ★	**2KJ1106 - ■LM13 - ■■H1**		321
	229	**275**	1 249	1.4	6.41	**2KJ1106 - ■LM13 - ■■G1**		321
	267	**320**	1 074	1.6	5.51 ★	**2KJ1106 - ■LM13 - ■■E1**		321
	281	**337**	1 021	1.1	5.24 ★	**2KJ1106 - ■LM13 - ■■D1**		321

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
30 (50 Hz) 36 (60 Hz)	**Z.108-LG200LB4E**							
	333	**400**	860	1.3	4.41 ★	**2KJ1106 - ■LM13 - ■■C1**		321
	369	**443**	776	1.4	3.98	**2KJ1106 - ■LM13 - ■■B1**		321
	430	**516**	667	1.6	3.42 ★	**2KJ1106 - ■LM13 - ■■A1**		321
	E.148-LG200LB4E							
	206	**247**	1 392	0.8	7.14 ★	**2KJ1007 - ■LM13 - ■■L1**		324
	224	**269**	1 277	0.9	6.55	**2KJ1007 - ■LM13 - ■■K1**		324
	260	**312**	1 101	1.2	5.65	**2KJ1007 - ■LM13 - ■■J1**		324
	298	**358**	963	1.5	4.94	**2KJ1007 - ■LM13 - ■■H1**		324
	342	**410**	838	1.6	4.30	**2KJ1007 - ■LM13 - ■■G1**		324
	390	**468**	735	1.8	3.77 ★	**2KJ1007 - ■LM13 - ■■F1**		324
	461	**553**	622	2.5	3.19 ★	**2KJ1007 - ■LM13 - ■■E1**		324
	507	**608**	565	2.5	2.90	**2KJ1007 - ■LM13 - ■■D1**		324
	583	**700**	491	2.5	2.52 ★	**2KJ1007 - ■LM13 - ■■C1**		324
	687	**824**	417	2.9	2.14	**2KJ1007 - ■LM13 - ■■B1**		324
	896	**1 075**	320	3.0	1.64 ★	**2KJ1007 - ■LM13 - ■■A1**		324
	E.128-LG200LB4E							
	256	**307**	1 121	0.86	5.75	**2KJ1006 - ■LM13 - ■■L1**		300
	299	**359**	957	1.0	4.91	**2KJ1006 - ■LM13 - ■■K1**		300
	331	**397**	865	1.2	4.44 ★	**2KJ1006 - ■LM13 - ■■J1**		300
	343	**412**	834	1.2	4.28	**2KJ1006 - ■LM13 - ■■H1**		300
	397	**476**	721	1.4	3.70	**2KJ1006 - ■LM13 - ■■G1**		300
	455	**546**	630	1.6	3.23 ★	**2KJ1006 - ■LM13 - ■■F1**		300
	533	**640**	538	1.9	2.76 ★	**2KJ1006 - ■LM13 - ■■E1**		300
	595	**714**	481	2.0	2.47	**2KJ1006 - ■LM13 - ■■D1**		300
	700	**840**	409	2.1	2.10 ★	**2KJ1006 - ■LM13 - ■■C1**		300
	812	**974**	353	2.3	1.81	**2KJ1006 - ■LM13 - ■■B1**		300
	1 081	**1 297**	265	2.6	1.36 ★	**2KJ1006 - ■LM13 - ■■A1**		300
	E.108-LG200LB4E							
	345	**414**	830	0.87	4.26	**2KJ1005 - ■LM13 - ■■H1**		263
	391	**469**	733	0.82	3.76 ★	**2KJ1005 - ■LM13 - ■■G1**		263
	459	**551**	624	1.2	3.20	**2KJ1005 - ■LM13 - ■■F1**		263
	531	**637**	540	1.2	2.77 ★	**2KJ1005 - ■LM13 - ■■E1**		263
	631	**757**	454	1.5	2.33 ★	**2KJ1005 - ■LM13 - ■■C1**		263
	697	**836**	411	1.5	2.11	**2KJ1005 - ■LM13 - ■■B1**		263
	812	**974**	353	1.6	1.81 ★	**2KJ1005 - ■LM13 - ■■A1**		263
37 (50 Hz) 44 (60 Hz)	**D.188-LG225S4E**							
	14.7	**17.6**	24 104	0.83	100.96 ★	**2KJ1211 - ■ME13 - ■■F1**		888
	16.1	**19.3**	21 979	0.91	92.06	**2KJ1211 - ■ME13 - ■■E1**		888
	18.3	**22**	19 284	1.0	80.77 ★	**2KJ1211 - ■ME13 - ■■D1**		888
	21	**25**	16 572	1.2	69.41	**2KJ1211 - ■ME13 - ■■C1**		888
	27	**32**	12 907	1.5	54.06 ★	**2KJ1211 - ■ME13 - ■■B1**		888
	34	**41**	10 254	2.0	42.95 ★	**2KJ1211 - ■ME13 - ■■A1**		888

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
37 (50 Hz) 44 (60 Hz)	**Z.188-LG225S4E**							
	28	**34**	12 499	1.3	52.35	**2KJ1111 - ■ME13 - ■■P1**		854
	31	**37**	11 513	1.4	48.22	**2KJ1111 - ■ME13 - ■■N1**		854
	35	**42**	9 992	1.6	41.85 ★	**2KJ1111 - ■ME13 - ■■M1**		854
	40	**48**	8 807	1.9	36.89	**2KJ1111 - ■ME13 - ■■L1**		854
	46	**55**	7 728	2.4	32.37	**2KJ1111 - ■ME13 - ■■K1**		854
	D.168-LG225S4E							
	20	**24**	17 276	0.81	72.36	**2KJ1210 - ■ME13 - ■■D1**		743
	24	**29**	15 060	0.93	63.08 ★	**2KJ1210 - ■ME13 - ■■C1**		743
	28	**34**	12 787	1.1	53.56	**2KJ1210 - ■ME13 - ■■B1**		743
	Z.168-LG225S4E							
	35	**42**	10 049	1.4	42.09	**2KJ1110 - ■ME13 - ■■U1**		724
	38	**46**	9 419	1.5	39.45	**2KJ1110 - ■ME13 - ■■T1**		724
	44	**53**	8 089	1.7	33.88 ★	**2KJ1110 - ■ME13 - ■■S1**		724
	51	**61**	6 988	2.0	29.27	**2KJ1110 - ■ME13 - ■■Q1**		724
	57	**68**	6 169	2.3	25.84	**2KJ1110 - ■ME13 - ■■P1**		724
	64	**77**	5 553	2.5	23.26 ★	**2KJ1110 - ■ME13 - ■■N1**		724
	77	**92**	4 608	3.0	19.30 ★	**2KJ1110 - ■ME13 - ■■M1**		724
	84	**101**	4 202	3.3	17.60	**2KJ1110 - ■ME13 - ■■L1**		724
	160	**192**	2 211	3.6	9.26 ★	**2KJ1110 - ■ME13 - ■■G1**		724
	206	**247**	1 719	4.1	7.20 ★	**2KJ1110 - ■ME13 - ■■E1**		724
	Z.148-LG225S4E							
	39	**47**	9 127	0.88	38.23 ★	**2KJ1108 - ■ME13 - ■■U1**		560
	42	**50**	8 378	0.95	35.09	**2KJ1108 - ■ME13 - ■■T1**		560
	49	**59**	7 229	1.1	30.28	**2KJ1108 - ■ME13 - ■■S1**		560
	56	**67**	6 324	1.3	26.49	**2KJ1108 - ■ME13 - ■■R1**		560
	64	**77**	5 501	1.5	23.04	**2KJ1108 - ■ME13 - ■■Q1**		560
	73	**88**	4 825	1.7	20.21 ★	**2KJ1108 - ■ME13 - ■■P1**		560
	87	**104**	4 080	2.0	17.09 ★	**2KJ1108 - ■ME13 - ■■N1**		560
	95	**114**	3 703	2.2	15.51	**2KJ1108 - ■ME13 - ■■M1**		560
	109	**131**	3 228	2.5	13.52 ★	**2KJ1108 - ■ME13 - ■■L1**		560
	129	**155**	2 741	2.9	11.48	**2KJ1108 - ■ME13 - ■■K1**		560
	168	**202**	2 099	3.8	8.79 ★	**2KJ1108 - ■ME13 - ■■J1**		560
	171	**205**	2 063	2.3	8.64 ★	**2KJ1108 - ■ME13 - ■■H1**		560
	189	**227**	1 872	2.6	7.84	**2KJ1108 - ■ME13 - ■■G1**		560
	196	**235**	1 807	3.1	7.57 ★	**2KJ1108 - ■ME13 - ■■F1**		560
	216	**259**	1 633	2.9	6.84 ★	**2KJ1108 - ■ME13 - ■■E1**		560
	230	**276**	1 535	3.5	6.43	**2KJ1108 - ■ME13 - ■■D1**		560
	255	**306**	1 385	3.0	5.80	**2KJ1108 - ■ME13 - ■■C1**		560
	301	**361**	1 175	4.3	4.92 ★	**2KJ1108 - ■ME13 - ■■B1**		560
	333	**400**	1 060	3.6	4.44 ★	**2KJ1108 - ■ME13 - ■■A1**		560
	Z.128-LG225S4E							
	59	**71**	5 981	0.85	25.05	**2KJ1107 - ■ME13 - ■■U1**		473
	69	**83**	5 112	1.0	21.41	**2KJ1107 - ■ME13 - ■■T1**		473

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
37 (50 Hz) 44 (60 Hz)	**Z.128-LG225S4E**							
	76	**91**	4 620	1.1	19.35 ★	**2KJ1107 - ■ME13 - ■■S1**		473
	79	**95**	4 450	1.1	18.64	**2KJ1107 - ■ME13 - ■■R1**		473
	92	**110**	3 849	1.3	16.12	**2KJ1107 - ■ME13 - ■■Q1**		473
	105	**126**	3 357	1.5	14.06 ★	**2KJ1107 - ■ME13 - ■■P1**		473
	123	**148**	2 872	1.6	12.03 ★	**2KJ1107 - ■ME13 - ■■N1**		473
	137	**164**	2 574	1.8	10.78	**2KJ1107 - ■ME13 - ■■M1**		473
	162	**194**	2 180	2.0	9.13 ★	**2KJ1107 - ■ME13 - ■■L1**		473
	188	**226**	1 881	2.3	7.88	**2KJ1107 - ■ME13 - ■■K1**		473
	203	**244**	1 740	1.5	7.29 ★	**2KJ1107 - ■ME13 - ■■J1**		473
	237	**284**	1 490	1.7	6.24 ★	**2KJ1107 - ■ME13 - ■■H1**		473
	250	**300**	1 416	2.8	5.93 ★	**2KJ1107 - ■ME13 - ■■G1**		473
	265	**318**	1 335	2.0	5.59 ★	**2KJ1107 - ■ME13 - ■■F1**		473
	306	**367**	1 153	2.2	4.83	**2KJ1107 - ■ME13 - ■■E1**		473
	313	**376**	1 129	2.1	4.73 ★	**2KJ1107 - ■ME13 - ■■D1**		473
	362	**434**	976	2.4	4.09 ★	**2KJ1107 - ■ME13 - ■■C1**		473
	408	**490**	867	2.7	3.63 ★	**2KJ1107 - ■ME13 - ■■B1**		473
	482	**578**	733	3.0	3.07 ★	**2KJ1107 - ■ME13 - ■■A1**		473
	Z.108-K4-LGI225S4E							
	101	**121**	3 493	0.89	14.63	**2KJ1106 - ■ME13 - ■■N1**		401
	117	**140**	3 027	1.00	12.68 ★	**2KJ1106 - ■ME13 - ■■M1**		401
	139	**167**	2 547	1.20	10.67 ★	**2KJ1106 - ■ME13 - ■■L1**		401
	154	**185**	2 297	1.30	9.62	**2KJ1106 - ■ME13 - ■■K1**		401
	179	**215**	1 974	1.60	8.27 ★	**2KJ1106 - ■ME13 - ■■J1**		401
	208	**250**	1 695	1.10	7.10 ★	**2KJ1106 - ■ME13 - ■■H1**		401
	231	**277**	1 530	1.20	6.41	**2KJ1106 - ■ME13 - ■■G1**		401
	269	**323**	1 316	1.30	5.51 ★	**2KJ1106 - ■ME13 - ■■E1**		401
	282	**338**	1 251	0.91	5.24 ★	**2KJ1106 - ■ME13 - ■■D1**		401
	336	**403**	1 053	1.1	4.41 ★	**2KJ1106 - ■ME13 - ■■C1**		401
	372	**446**	950	1.2	3.98	**2KJ1106 - ■ME13 - ■■B1**		401
	433	**520**	817	1.3	3.42 ★	**2KJ1106 - ■ME13 - ■■A1**		401
	E.148-LG225S4E							
	262	**314**	1 349	1.0	5.65	**2KJ1007 - ■ME13 - ■■J1**		404
	300	**360**	1 179	1.2	4.94	**2KJ1007 - ■ME13 - ■■H1**		404
	344	**413**	1 027	1.3	4.30	**2KJ1007 - ■ME13 - ■■G1**		404
	393	**472**	900	1.5	3.77 ★	**2KJ1007 - ■ME13 - ■■F1**		404
	464	**557**	762	2.0	3.19 ★	**2KJ1007 - ■ME13 - ■■E1**		404
	510	**612**	692	2.0	2.90	**2KJ1007 - ■ME13 - ■■D1**		404
	587	**704**	602	2.0	2.52 ★	**2KJ1007 - ■ME13 - ■■C1**		404
	692	**830**	511	2.3	2.14	**2KJ1007 - ■ME13 - ■■B1**		404
	902	**1 082**	392	2.5	1.64 ★	**2KJ1007 - ■ME13 - ■■A1**		404
	E.128-LG225S4E							
	301	**361**	1 172	0.82	4.91	**2KJ1006 - ■ME13 - ■■K1**		380
	333	**400**	1 060	0.94	4.44 ★	**2KJ1006 - ■ME13 - ■■J1**		380

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
37 (50 Hz)	**E.128-LG225S4E**							
44 (60 Hz)	**346**	**415**	1 022	0.98	4.28	**2KJ1006 - ■ME13 - ■■H1**		380
	400	**480**	883	1.1	3.70	**2KJ1006 - ■ME13 - ■■G1**		380
	458	**550**	771	1.3	3.23 ★	**2KJ1006 - ■ME13 - ■■F1**		380
	536	**643**	659	1.5	2.76 ★	**2KJ1006 - ■ME13 - ■■E1**		380
	599	**719**	590	1.6	2.47	**2KJ1006 - ■ME13 - ■■D1**		380
	705	**846**	501	1.7	2.10 ★	**2KJ1006 - ■ME13 - ■■C1**		380
	818	**982**	432	1.9	1.81	**2KJ1006 - ■ME13 - ■■B1**		380
	1 088	**1 306**	325	2.1	1.36 ★	**2KJ1006 - ■ME13 - ■■A1**		380
	E.108-K4-LGI225S4E							
	462	**554**	764	0.98	3.2	**2KJ1005 - ■ME13 - ■■F1**		343
	534	**641**	661	1.0	2.77 ★	**2KJ1005 - ■ME13 - ■■E1**		343
45 (50 Hz)	**D.188-LG225ZM4E**							
54 (60 Hz)	**18.3**	**22**	23 453	0.85	80.77 ★	**2KJ1211 - ■MU13 - ■■D1**		888
	21	**25**	20 155	0.99	69.41	**2KJ1211 - ■MU13 - ■■C1**		888
	27	**32**	15 697	1.3	54.06 ★	**2KJ1211 - ■MU13 - ■■B1**		888
	34	**41**	12 471	1.6	42.95 ★	**2KJ1211 - ■MU13 - ■■A1**		888
	Z.188-LG225ZM4E							
	28	**34**	15 201	1.0	52.35	**2KJ1111 - ■MU13 - ■■P1**		854
	31	**37**	14 002	1.1	48.22	**2KJ1111 - ■MU13 - ■■N1**		854
	35	**42**	12 152	1.3	41.85 ★	**2KJ1111 - ■MU13 - ■■M1**		854
	40	**48**	10 712	1.5	36.89	**2KJ1111 - ■MU13 - ■■L1**		854
	46	**55**	9 399	2.0	32.37	**2KJ1111 - ■MU13 - ■■K1**		854
	51	**61**	8 473	2.4	29.18 ★	**2KJ1111 - ■MU13 - ■■J1**		854
	60	**72**	7 193	2.8	24.77 ★	**2KJ1111 - ■MU13 - ■■H1**		854
	64	**77**	6 681	3.0	23.01	**2KJ1111 - ■MU13 - ■■G1**		854
	D.168-LG225ZM4E							
	28	**34**	15 552	0.9	53.56	**2KJ1210 - ■MU13 - ■■B1**		743
	Z.168-LG225ZM4E							
	35	**42**	12 222	1.1	42.09	**2KJ1110 - ■MU13 - ■■U1**		724
	38	**46**	11 455	1.2	39.45	**2KJ1110 - ■MU13 - ■■T1**		724
	44	**53**	9 838	1.4	33.88 ★	**2KJ1110 - ■MU13 - ■■S1**		724
	51	**61**	8 499	1.6	29.27	**2KJ1110 - ■MU13 - ■■Q1**		724
	57	**68**	7 503	1.9	25.84	**2KJ1110 - ■MU13 - ■■P1**		724
	64	**77**	6 754	2.1	23.26 ★	**2KJ1110 - ■MU13 - ■■N1**		724
	77	**92**	5 604	2.5	19.30 ★	**2KJ1110 - ■MU13 - ■■M1**		724
	84	**101**	5 111	2.7	17.60	**2KJ1110 - ■MU13 - ■■L1**		724
	96	**115**	4 483	3.0	15.44 ★	**2KJ1110 - ■MU13 - ■■K1**		724
	112	**134**	3 853	3.4	13.27	**2KJ1110 - ■MU13 - ■■J1**		724
	160	**192**	2 689	2.9	9.26 ★	**2KJ1110 - ■MU13 - ■■G1**		724
	206	**247**	2 091	3.4	7.20 ★	**2KJ1110 - ■MU13 - ■■E1**		724
	239	**287**	1 800	4.2	6.20 ★	**2KJ1110 - ■MU13 - ■■D1**		724
	264	**317**	1 629	4.2	5.61 ★	**2KJ1110 - ■MU13 - ■■C1**		724

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
45 (50 Hz) 54 (60 Hz)	**Z.168-LG225ZM4E**							
	300	**360**	1 432	4.9	4.93 ★	**2KJ1110 - ■MU13 - ■■B1**		724
	332	**398**	1 295	5.0	4.46 ★	**2KJ1110 - ■MU13 - ■■A1**		724
	D.148-LG225ZM4E							
	43	**52**	9 916	0.81	34.15 ★	**2KJ1208 - ■MU13 - ■■A1**		572
	Z.148-LG225ZM4E							
	49	**59**	8 792	0.91	30.28	**2KJ1108 - ■MU13 - ■■S1**		560
	56	**67**	7 692	1.0	26.49	**2KJ1108 - ■MU13 - ■■R1**		560
	64	**77**	6 690	1.2	23.04	**2KJ1108 - ■MU13 - ■■Q1**		560
	73	**88**	5 868	1.4	20.21 ★	**2KJ1108 - ■MU13 - ■■P1**		560
	87	**104**	4 962	1.6	17.09 ★	**2KJ1108 - ■MU13 - ■■N1**		560
	95	**114**	4 504	1.8	15.51	**2KJ1108 - ■MU13 - ■■M1**		560
	109	**131**	3 926	2.0	13.52 ★	**2KJ1108 - ■MU13 - ■■L1**		560
	129	**155**	3 333	2.4	11.48	**2KJ1108 - ■MU13 - ■■K1**		560
	168	**202**	2 552	3.1	8.79 ★	**2KJ1108 - ■MU13 - ■■J1**		560
	171	**205**	2 509	1.9	8.64 ★	**2KJ1108 - ■MU13 - ■■H1**		560
	189	**227**	2 277	2.1	7.84	**2KJ1108 - ■MU13 - ■■G1**		560
	196	**235**	2 198	2.5	7.57 ★	**2KJ1108 - ■MU13 - ■■F1**		560
	216	**259**	1 986	2.4	6.84 ★	**2KJ1108 - ■MU13 - ■■E1**		560
	230	**276**	1 867	2.9	6.43	**2KJ1108 - ■MU13 - ■■D1**		560
	255	**306**	1 684	2.5	5.80	**2KJ1108 - ■MU13 - ■■C1**		560
	301	**361**	1 429	3.5	4.92 ★	**2KJ1108 - ■MU13 - ■■B1**		560
	333	**400**	1 289	3.0	4.44 ★	**2KJ1108 - ■MU13 - ■■A1**		560
	Z.128-LG225ZM4E							
	69	**83**	6 217	0.82	21.41	**2KJ1107 - ■MU13 - ■■T1**		473
	76	**91**	5 619	0.91	19.35 ★	**2KJ1107 - ■MU13 - ■■S1**		473
	79	**95**	5 413	0.94	18.64	**2KJ1107 - ■MU13 - ■■R1**		473
	92	**110**	4 681	1.1	16.12	**2KJ1107 - ■MU13 - ■■Q1**		473
	105	**126**	4 083	1.2	14.06 ★	**2KJ1107 - ■MU13 - ■■P1**		473
	123	**148**	3 493	1.4	12.03 ★	**2KJ1107 - ■MU13 - ■■N1**		473
	137	**164**	3 130	1.5	10.78	**2KJ1107 - ■MU13 - ■■M1**		473
	162	**194**	2 651	1.7	9.13 ★	**2KJ1107 - ■MU13 - ■■L1**		473
	188	**226**	2 288	1.9	7.88	**2KJ1107 - ■MU13 - ■■K1**		473
	203	**244**	2 117	1.2	7.29 ★	**2KJ1107 - ■MU13 - ■■J1**		473
	237	**284**	1 812	1.4	6.24 ★	**2KJ1107 - ■MU13 - ■■H1**		473
	250	**300**	1 722	2.3	5.93 ★	**2KJ1107 - ■MU13 - ■■G1**		473
	265	**318**	1 623	1.6	5.59 ★	**2KJ1107 - ■MU13 - ■■F1**		473
	306	**367**	1 402	1.8	4.83	**2KJ1107 - ■MU13 - ■■E1**		473
	313	**376**	1 373	1.7	4.73 ★	**2KJ1107 - ■MU13 - ■■D1**		473
	362	**434**	1 188	2.0	4.09 ★	**2KJ1107 - ■MU13 - ■■C1**		473
	408	**490**	1 054	2.2	3.63 ★	**2KJ1107 - ■MU13 - ■■B1**		473
	482	**578**	891	2.5	3.07 ★	**2KJ1107 - ■MU13 - ■■A1**		473
	Z.108-K4-LGI225ZM4E							
	117	**140**	3 682	0.84	12.68 ★	**2KJ1106 - ■MU13 - ■■M1**		401

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
45 (50 Hz)	**Z.108-K4-LGI225ZM4E**							
54 (60 Hz)	**139**	**167**	3 098	1.00	10.67 ★	**2KJ1106 - ■MU13 - ■■L1**		401
	154	**185**	2 793	1.10	9.62	**2KJ1106 - ■MU13 - ■■K1**		401
	179	**215**	2 401	1.30	8.27 ★	**2KJ1106 - ■MU13 - ■■J1**		401
	208	**250**	2 062	0.87	7.10 ★	**2KJ1106 - ■MU13 - ■■H1**		401
	231	**277**	1 861	0.95	6.41	**2KJ1106 - ■MU13 - ■■G1**		401
	269	**323**	1 600	1.10	5.51 ★	**2KJ1106 - ■MU13 - ■■E1**		401
	336	**403**	1 281	0.89	4.41 ★	**2KJ1106 - ■MU13 - ■■C1**		401
	372	**446**	1 156	0.97	3.98	**2KJ1106 - ■MU13 - ■■B1**		401
	433	**520**	993	1.10	3.42 ★	**2KJ1106 - ■MU13 - ■■A1**		401
	E.148-LG225ZM4E							
	262	**314**	1 641	0.83	5.65	**2KJ1007 - ■MU13 - ■■J1**		404
	300	**360**	1 434	0.98	4.94	**2KJ1007 - ■MU13 - ■■H1**		404
	344	**413**	1 249	1.1	4.30	**2KJ1007 - ■MU13 - ■■G1**		404
	393	**472**	1 095	1.2	3.77 ★	**2KJ1007 - ■MU13 - ■■F1**		404
	464	**557**	926	1.7	3.19 ★	**2KJ1007 - ■MU13 - ■■E1**		404
	510	**612**	842	1.7	2.90	**2KJ1007 - ■MU13 - ■■D1**		404
	587	**704**	732	1.7	2.52 ★	**2KJ1007 - ■MU13 - ■■C1**		404
	692	**830**	621	1.9	2.14	**2KJ1007 - ■MU13 - ■■B1**		404
	902	**1 082**	476	2.0	1.64 ★	**2KJ1007 - ■MU13 - ■■A1**		404
	E.128-LG225ZM4E							
	346	**415**	1 243	0.80	4.28	**2KJ1006 - ■MU13 - ■■H1**		380
	400	**480**	1 074	0.93	3.70	**2KJ1006 - ■MU13 - ■■G1**		380
	458	**550**	938	1.1	3.23 ★	**2KJ1006 - ■MU13 - ■■F1**		380
	536	**643**	801	1.2	2.76 ★	**2KJ1006 - ■MU13 - ■■E1**		380
	818	**982**	526	1.5	1.81	**2KJ1006 - ■MU13 - ■■B1**		380
	1 088	**1 306**	395	1.7	1.36 ★	**2KJ1006 - ■MU13 - ■■A1**		380
	E.108-K4-LGI225ZM4E							
	462	**554**	929	0.80	3.20	**2KJ1005 - ■MU13 - ■■F1**		343
	534	**641**	804	0.83	2.77 ★	**2KJ1005 - ■MU13 - ■■E1**		343
55 (50 Hz)	**D.188-LG250ZM4E**							
66 (60 Hz)	**21**	**25**	24 551	0.81	69.41	**2KJ1211 - ■NN13 - ■■C1**		978
	28	**34**	19 121	1.0	54.06 ★	**2KJ1211 - ■NN13 - ■■B1**		978
	35	**42**	15 192	1.3	42.95 ★	**2KJ1211 - ■NN13 - ■■A1**		978
	Z.188-LG250ZM4E							
	31	**37**	17 056	0.93	48.22	**2KJ1111 - ■NN13 - ■■N1**		944
	36	**43**	14 802	1.1	41.85 ★	**2KJ1111 - ■NN13 - ■■M1**		944
	40	**48**	13 048	1.3	36.89	**2KJ1111 - ■NN13 - ■■L1**		944
	46	**55**	11 449	1.6	32.37	**2KJ1111 - ■NN13 - ■■K1**		944
	51	**61**	10 321	1.9	29.18 ★	**2KJ1111 - ■NN13 - ■■J1**		944
	60	**72**	8 761	2.3	24.77 ★	**2KJ1111 - ■NN13 - ■■H1**		944
	64	**77**	8 139	2.5	23.01	**2KJ1111 - ■NN13 - ■■G1**		944
	75	**90**	6 989	2.9	19.76 ★	**2KJ1111 - ■NN13 - ■■F1**		944

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
55 (50 Hz) 66 (60 Hz)	**Z.188-LG250ZM4E**							
	179	**215**	2 936	3.7	8.30	**2KJ1111 - ■NN13 - ■■A1**		944
	Z.168-LG250ZM4E							
	38	**46**	13 954	1.0	39.45	**2KJ1110 - ■NN13 - ■■T1**		814
	44	**53**	11 983	1.2	33.88 ★	**2KJ1110 - ■NN13 - ■■S1**		814
	51	**61**	10 353	1.4	29.27	**2KJ1110 - ■NN13 - ■■Q1**		814
	58	**70**	9 140	1.5	25.84	**2KJ1110 - ■NN13 - ■■P1**		814
	64	**77**	8 227	1.7	23.26 ★	**2KJ1110 - ■NN13 - ■■N1**		814
	77	**92**	6 826	2.1	19.30 ★	**2KJ1110 - ■NN13 - ■■M1**		814
	84	**101**	6 225	2.2	17.60	**2KJ1110 - ■NN13 - ■■L1**		814
	96	**115**	5 461	2.5	15.44 ★	**2KJ1110 - ■NN13 - ■■K1**		814
	112	**134**	4 694	2.8	13.27	**2KJ1110 - ■NN13 - ■■J1**		814
	144	**173**	3 657	3.4	10.34 ★	**2KJ1110 - ■NN13 - ■■H1**		814
	160	**192**	3 275	2.4	9.26 ★	**2KJ1110 - ■NN13 - ■■G1**		814
	181	**217**	2 904	4.0	8.21 ★	**2KJ1110 - ■NN13 - ■■F1**		814
	206	**247**	2 547	2.8	7.20 ★	**2KJ1110 - ■NN13 - ■■E1**		814
	240	**288**	2 193	3.4	6.20 ★	**2KJ1110 - ■NN13 - ■■D1**		814
	265	**318**	1 984	3.4	5.61 ★	**2KJ1110 - ■NN13 - ■■C1**		814
	301	**361**	1 744	4.1	4.93 ★	**2KJ1110 - ■NN13 - ■■B1**		814
	333	**400**	1 578	4.1	4.46 ★	**2KJ1110 - ■NN13 - ■■A1**		814
	Z.148-LG250ZM4E							
	56	**67**	9 370	0.85	26.49	**2KJ1108 - ■NN13 - ■■R1**		650
	64	**77**	8 149	0.98	23.04	**2KJ1108 - ■NN13 - ■■Q1**		650
	74	**89**	7 148	1.1	20.21 ★	**2KJ1108 - ■NN13 - ■■P1**		650
	87	**104**	6 045	1.3	17.09 ★	**2KJ1108 - ■NN13 - ■■N1**		650
	96	**115**	5 486	1.5	15.51	**2KJ1108 - ■NN13 - ■■M1**		650
	110	**132**	4 782	1.7	13.52 ★	**2KJ1108 - ■NN13 - ■■L1**		650
	129	**155**	4 061	2.0	11.48	**2KJ1108 - ■NN13 - ■■K1**		650
	169	**203**	3 109	2.6	8.79 ★	**2KJ1108 - ■NN13 - ■■J1**		650
	172	**206**	3 056	1.6	8.64 ★	**2KJ1108 - ■NN13 - ■■H1**		650
	189	**227**	2 773	1.7	7.84	**2KJ1108 - ■NN13 - ■■G1**		650
	196	**235**	2 678	2.1	7.57 ★	**2KJ1108 - ■NN13 - ■■F1**		650
	217	**260**	2 419	2.0	6.84 ★	**2KJ1108 - ■NN13 - ■■E1**		650
	Z.148-LG250ZM4E							
	231	**277**	2 274	2.4	6.43	**2KJ1108 - ■NN13 - ■■D1**		650
	256	**307**	2 051	2.0	5.80	**2KJ1108 - ■NN13 - ■■C1**		650
	302	**362**	1 740	2.9	4.92 ★	**2KJ1108 - ■NN13 - ■■B1**		650
	334	**401**	1 570	2.5	4.44 ★	**2KJ1108 - ■NN13 - ■■A1**		650
	Z.128-K4-LGI250ZM4E							
	92	**110**	5 702	0.88	16.12	**2KJ1107 - ■NN13 - ■■Q1**		563
	106	**127**	4 973	0.98	14.06 ★	**2KJ1107 - ■NN13 - ■■P1**		563
	123	**148**	4 255	1.10	12.03 ★	**2KJ1107 - ■NN13 - ■■N1**		563
	138	**166**	3 813	1.20	10.78	**2KJ1107 - ■NN13 - ■■M1**		563
	163	**196**	3 229	1.40	9.13 ★	**2KJ1107 - ■NN13 - ■■L1**		563

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
55 (50 Hz)	**Z.128-K4-LGI250ZM4E**							
66 (60 Hz)	**188**	**226**	2 787	1.50	7.88	**2KJ1107 - ■NN13 - ■■K1**		563
	204	**245**	2 578	0.99	7.29 ★	**2KJ1107 - ■NN13 - ■■J1**		563
	238	**286**	2 207	1.1	6.24 ★	**2KJ1107 - ■NN13 - ■■H1**		563
	250	**300**	2 097	1.9	5.93 ★	**2KJ1107 - ■NN13 - ■■G1**		563
	266	**319**	1 977	1.3	5.59 ★	**2KJ1107 - ■NN13 - ■■F1**		563
	307	**368**	1 708	1.5	4.83	**2KJ1107 - ■NN13 - ■■E1**		563
	314	**377**	1 673	1.4	4.73 ★	**2KJ1107 - ■NN13 - ■■D1**		563
	363	**436**	1 447	1.6	4.09 ★	**2KJ1107 - ■NN13 - ■■C1**		563
	409	**491**	1 284	1.8	3.63 ★	**2KJ1107 - ■NN13 - ■■B1**		563
	484	**581**	1 086	2.0	3.07 ★	**2KJ1107 - ■NN13 - ■■A1**		563
	E.148-LG250ZM4E							
	301	**361**	1 747	0.80	4.94	**2KJ1007 - ■NN13 - ■■H1**		494
	345	**414**	1 521	0.87	4.3	**2KJ1007 - ■NN13 - ■■G1**		494
	394	**473**	1 333	1.0	3.77 ★	**2KJ1007 - ■NN13 - ■■F1**		494
	466	**559**	1 128	1.4	3.19 ★	**2KJ1007 - ■NN13 - ■■E1**		494
	512	**614**	1 026	1.4	2.90	**2KJ1007 - ■NN13 - ■■D1**		494
	694	**833**	757	1.6	2.14	**2KJ1007 - ■NN13 - ■■B1**		494
	905	**1 086**	580	1.7	1.64 ★	**2KJ1007 - ■NN13 - ■■A1**		494
	E.128-K4-LGI250ZM4E							
	460	**552**	1 142	0.88	3.23 ★	**2KJ1006 - ■NN13 - ■■F1**		470
	538	**646**	976	1.0	2.76 ★	**2KJ1006 - ■NN13 - ■■E1**		470
75 (50 Hz)	**D.188-K4-LGI280S4E**							
90 (60 Hz)	**35**	**42**	20 716	0.97	42.95 ★	**2KJ1211 - ■PG13 - ■■A1**		1103
	Z.188-K4-LGI280S4E							
	40	**48**	17 793	0.93	36.89	**2KJ1111 - ■PG13 - ■■L1**		1 069
	46	**55**	15 613	1.2	32.37	**2KJ1111 - ■PG13 - ■■K1**		1 069
	51	**61**	14 074	1.4	29.18 ★	**2KJ1111 - ■PG13 - ■■J1**		1 069
	60	**72**	11 947	1.7	24.77 ★	**2KJ1111 - ■PG13 - ■■H1**		1 069
	64	**77**	11 098	1.8	23.01	**2KJ1111 - ■PG13 - ■■G1**		1 069
	75	**90**	9 531	2.1	19.76 ★	**2KJ1111 - ■PG13 - ■■F1**		1 069
	88	**106**	8 132	2.5	16.86	**2KJ1111 - ■PG13 - ■■E1**		1 069
	112	**134**	6 405	2.9	13.28 ★	**2KJ1111 - ■PG13 - ■■D1**		1 069
	139	**167**	5 156	3.1	10.69 ★	**2KJ1111 - ■PG13 - ■■C1**		1 069
	160	**192**	4 481	3.2	9.29	**2KJ1111 - ■PG13 - ■■B1**		1 069
	179	**215**	4 003	2.7	8.3	**2KJ1111 - ■PG13 - ■■A1**		1 069
	Z.168-K4-LGI280S4E							
	51	**61**	14 118	0.99	29.27	**2KJ1110 - ■PG13 - ■■Q1**		939
	58	**70**	12 463	1.1	25.84	**2KJ1110 - ■PG13 - ■■P1**		939
	64	**77**	11 219	1.2	23.26 ★	**2KJ1110 - ■PG13 - ■■N1**		939
	77	**92**	9 309	1.5	19.30 ★	**2KJ1110 - ■PG13 - ■■M1**		939
	84	**101**	8 489	1.6	17.60	**2KJ1110 - ■PG13 - ■■L1**		939
	96	**115**	7 447	1.8	15.44 ★	**2KJ1110 - ■PG13 - ■■K1**		939

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 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 (50 Hz) 90 (60 Hz)	**Z.168-K4-LGI280S4E**							
	112	**134**	6 400	2.0	13.27	**2KJ1110 - ■PG13 - ■■J1**		939
	144	**173**	4 987	2.5	10.34 ★	**2KJ1110 - ■PG13 - ■■H1**		939
	160	**192**	4 466	1.8	9.26 ★	**2KJ1110 - ■PG13 - ■■G1**		939
	181	**217**	3 960	2.9	8.21 ★	**2KJ1110 - ■PG13 - ■■F1**		939
	206	**247**	3 473	2.0	7.20 ★	**2KJ1110 - ■PG13 - ■■E1**		939
	240	**288**	2 990	2.5	6.20 ★	**2KJ1110 - ■PG13 - ■■D1**		939
	265	**318**	2 706	2.5	5.61 ★	**2KJ1110 - ■PG13 - ■■C1**		939
	301	**361**	2 378	3.0	4.93 ★	**2KJ1110 - ■PG13 - ■■B1**		939
	333	**400**	2 151	3.0	4.46 ★	**2KJ1110 - ■PG13 - ■■A1**		939
	Z.148-K4-LGI280S4E							
	74	**89**	9 748	0.82	20.21 ★	**2KJ1108 - ■PG13 - ■■P1**		775
	87	**104**	8 243	0.97	17.09 ★	**2KJ1108 - ■PG13 - ■■N1**		775
	96	**115**	7 481	1.1	15.51	**2KJ1108 - ■PG13 - ■■M1**		775
	110	**132**	6 521	1.2	13.52 ★	**2KJ1108 - ■PG13 - ■■L1**		775
	129	**155**	5 537	1.4	11.48	**2KJ1108 - ■PG13 - ■■K1**		775
	169	**203**	4 240	1.9	8.79 ★	**2KJ1108 - ■PG13 - ■■J1**		775
	172	**206**	4 167	1.2	8.64 ★	**2KJ1108 - ■PG13 - ■■H1**		775
	189	**227**	3 781	1.3	7.84	**2KJ1108 - ■PG13 - ■■G1**		775
	196	**235**	3 651	1.5	7.57 ★	**2KJ1108 - ■PG13 - ■■F1**		775
	217	**260**	3 299	1.5	6.84 ★	**2KJ1108 - ■PG13 - ■■E1**		775
	231	**277**	3 101	1.7	6.43	**2KJ1108 - ■PG13 - ■■D1**		775
	256	**307**	2 797	1.5	5.80	**2KJ1108 - ■PG13 - ■■C1**		775
	302	**362**	2 373	2.1	4.92 ★	**2KJ1108 - ■PG13 - ■■B1**		775
	334	**401**	2 142	1.8	4.44 ★	**2KJ1108 - ■PG13 - ■■A1**		775
	E.148-K4-LGI280S4E							
	466	**559**	1 539	1.0	3.19 ★	**2KJ1007 - ■PG13 - ■■E1**		619
	512	**614**	1 399	1.0	2.90	**2KJ1007 - ■PG13 - ■■D1**		619
90 (50 Hz) 108 (60 Hz)	**D.188-K4-LGI280ZM4E**							
	35	**42**	24 859	0.8	42.95 ★	**2KJ1211 - ■PW13 - ■■A1**		1143
	Z.188-K4-LGI280ZM4E							
	46	**55**	18 735	0.98	32.37	**2KJ1111 - ■PW13 - ■■K1**		1 109
	51	**61**	16 889	1.2	29.18 ★	**2KJ1111 - ■PW13 - ■■J1**		1 109
	60	**72**	14 337	1.4	24.77 ★	**2KJ1111 - ■PW13 - ■■H1**		1 109
	64	**77**	13 318	1.5	23.01	**2KJ1111 - ■PW13 - ■■G1**		1 109
	75	**90**	11 437	1.7	19.76 ★	**2KJ1111 - ■PW13 - ■■F1**		1 109
	88	**106**	9 758	2.0	16.86	**2KJ1111 - ■PW13 - ■■E1**		1 109
	112	**134**	7 686	2.4	13.28 ★	**2KJ1111 - ■PW13 - ■■D1**		1 109
	139	**167**	6 187	2.6	10.69 ★	**2KJ1111 - ■PW13 - ■■C1**		1 109
	160	**192**	5 377	2.7	9.29	**2KJ1111 - ■PW13 - ■■B1**		1 109
	179	**215**	4 804	2.2	8.30	**2KJ1111 - ■PW13 - ■■A1**		1 109
	Z.168-K4-LGI280ZM4E							
	51	**61**	16 941	0.83	29.27	**2KJ1110 - ■PW13 - ■■Q1**		979

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
90 (50 Hz)	**Z.168-K4-LGI280ZM4E**							
108 (60 Hz)	**58**	**70**	14 956	0.94	25.84	**2KJ1110 - ■PW13 - ■■P1**		979
	64	**77**	13 463	1.00	23.26 ★	**2KJ1110 - ■PW13 - ■■N1**		979
	77	**92**	11 171	1.3	19.30 ★	**2KJ1110 - ■PW13 - ■■M1**		979
	84	**101**	10 187	1.4	17.60	**2KJ1110 - ■PW13 - ■■L1**		979
	96	**115**	8 936	1.5	15.44 ★	**2KJ1110 - ■PW13 - ■■K1**		979
	112	**134**	7 681	1.7	13.27	**2KJ1110 - ■PW13 - ■■J1**		979
	144	**173**	5 985	2.1	10.34 ★	**2KJ1110 - ■PW13 - ■■H1**		979
	160	**192**	5 360	1.5	9.26 ★	**2KJ1110 - ■PW13 - ■■G1**		979
	181	**217**	4 752	2.4	8.21 ★	**2KJ1110 - ■PW13 - ■■F1**		979
	206	**247**	4 167	1.7	7.20 ★	**2KJ1110 - ■PW13 - ■■E1**		979
	240	**288**	3 588	2.1	6.20 ★	**2KJ1110 - ■PW13 - ■■D1**		979
	265	**318**	3 247	2.1	5.61 ★	**2KJ1110 - ■PW13 - ■■C1**		979
	301	**361**	2 853	2.5	4.93 ★	**2KJ1110 - ■PW13 - ■■B1**		979
	333	**400**	2 581	2.5	4.46 ★	**2KJ1110 - ■PW13 - ■■A1**		979
	Z.148-K4-LGI280ZM4E							
	87	**104**	9 891	0.81	17.09 ★	**2KJ1108 - ■PW13 - ■■N1**		815
	96	**115**	8 977	0.89	15.51	**2KJ1108 - ■PW13 - ■■M1**		815
	110	**132**	7 825	1.00	13.52 ★	**2KJ1108 - ■PW13 - ■■L1**		815
	129	**155**	6 644	1.20	11.48	**2KJ1108 - ■PW13 - ■■K1**		815
	169	**203**	5 088	1.60	8.79 ★	**2KJ1108 - ■PW13 - ■■J1**		815
	172	**206**	5 001	0.96	8.64 ★	**2KJ1108 - ■PW13 - ■■H1**		815
	189	**227**	4 538	1.10	7.84	**2KJ1108 - ■PW13 - ■■G1**		815
	196	**235**	4 381	1.30	7.57 ★	**2KJ1108 - ■PW13 - ■■F1**		815
	217	**260**	3 959	1.20	6.84 ★	**2KJ1108 - ■PW13 - ■■E1**		815
	231	**277**	3 722	1.50	6.43	**2KJ1108 - ■PW13 - ■■D1**		815
	256	**307**	3 357	1.30	5.80	**2KJ1108 - ■PW13 - ■■C1**		815
	302	**362**	2 848	1.80	4.92 ★	**2KJ1108 - ■PW13 - ■■B1**		815
	334	**401**	2 570	1.50	4.44 ★	**2KJ1108 - ■PW13 - ■■A1**		815
	E.148-K4-LGI280ZM4E							
	466	**559**	1 846	0.84	3.19 ★	**2KJ1007 - ■PW13 - ■■E1**		659
	512	**614**	1 678	0.83	2.90	**2KJ1007 - ■PW13 - ■■D1**		659
110 (50 Hz)	**Z.188-K2-LGI315S4**							
132 (60 Hz)	**88**	**106**	11 927	1.7	16.86	**2KJ1111 - ■QQ13 - ■■E1**		1 289
	112	**134**	9 394	2.0	13.28 ★	**2KJ1111 - ■QQ13 - ■■D1**		1 289
	139	**167**	7 562	2.1	10.69 ★	**2KJ1111 - ■QQ13 - ■■C1**		1 289
	160	**192**	6 572	2.2	9.29	**2KJ1111 - ■QQ13 - ■■B1**		1 289
	179	**215**	5 871	1.8	8.30	**2KJ1111 - ■QQ13 - ■■A1**		1 289
132 (50 Hz)	**Z.188-K2-LGI315M4**							
158 (60 Hz)	**88**	**106**	14 312	1.4	16.86	**2KJ1111 - ■QS13 - ■■E1**		1 344
	112	**134**	11 273	1.7	13.28 ★	**2KJ1111 - ■QS13 - ■■D1**		1 344
	139	**167**	9 075	1.8	10.69 ★	**2KJ1111 - ■QS13 - ■■C1**		1 344

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data (continued)

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Order No.	Order code	Weight *)
kW	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_2 Nm	f_B	i_{tot}		(No. of poles)	kg
132 (50 Hz)	**Z.188-K2-LGI315M4**							
158 (60 Hz)	**160**	**192**	7 886	1.8	9.29	**2KJ1111 - ■QS13 - ■■B1**		1 344
	179	**215**	7 046	1.5	8.30	**2KJ1111 - ■QS13 - ■■A1**		1 344
160 (50 Hz)	**Z.188-K2-LGI315L4**							
192 (60 Hz)	**88**	**106**	17 348	1.2	16.86	**2KJ1111 - ■QU13 - ■■E1**		1 469
	112	**134**	13 665	1.4	13.28 ★	**2KJ1111 - ■QU13 - ■■D1**		1 469
	139	**167**	11 000	1.5	10.69 ★	**2KJ1111 - ■QU13 - ■■C1**		1 469
	160	**192**	9 559	1.5	9.29	**2KJ1111 - ■QU13 - ■■B1**		1 469
	179	**215**	8 540	1.3	8.30	**2KJ1111 - ■QU13 - ■■A1**		1 469
200 (50 Hz)	**Z.188-K2-LGI315LB4**							
240 (60 Hz)	**88**	**106**	21 685	0.92	16.86	**2KJ1111 - ■QV13 - ■■E1**		1 584
	112	**134**	17 081	1.10	13.28 ★	**2KJ1111 - ■QV13 - ■■D1**		1 584
	139	**167**	13 749	1.20	10.69 ★	**2KJ1111 - ■QV13 - ■■C1**		1 584
	160	**192**	11 949	1.20	9.29	**2KJ1111 - ■QV13 - ■■B1**		1 584
	179	**215**	10 675	1.00	8.30	**2KJ1111 - ■QV13 - ■■A1**		1 584

★ Preferred transmission ratio

Shaft designs, see page 2/117 — **1, 2 or 9**

Frequency and voltage, see page 8/20 — **1 to 9**

Gearbox housing mounting position, see page 2/119 — **A, F, H or R**

*) For mounting type B3

Selection and ordering data

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm			rpm	rpm	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	**S1**	9.33 ★	155	188	32	•	•												
32 … 82	**R1**	8.30	175	211	32	•	•	•											
	Q1	7.20 ★	201	243	38	•	•	•	•										
	P1	6.73	215	260	48	•	•	•	•										
	N1	5.92 ★	245	296	53	•	•	•	•										
	M1	5.18	280	338	70	•	•	•	•	•									
	L1	4.58 ★	317	382	78	•	•	•	•	•	• [1]								
	K1	4.15	349	422	62	•	•	•	•	•	• [1]								
	J1	3.67 ★	395	477	70	•	•	•	•	•	• [1]								
	H1	3.31	438	529	65	•	•	•	•	•	• [1]								
	G1	3.00 ★	483	583	80	•	•	•	•	•	• [1]								
	F1	2.73	531	641	80	•	•	•	•	•	• [1]								
	E1	2.50 ★	580	700	73	•	•	•	•	•	• [1]								
	D1	2.24	647	781	72	•	•	•	•	•	• [1]								
	C1	2.05 ★	707	854	80	•	•	•	•	•	• [1]								
	B1	1.85	784	946	82	•	•	•	•	•	• [1]								
	A1	1.59 ★	912	1 101	72	•	•	•	•	•	• [1]								
E.48	**U1**	11.30	128	155	55	•	•	•											
55 … 170	**T1**	10.00 ★	145	175	80	•	•	•	•										
	S1	9.09	160	193	64	•	•	•	•										
	R1	8.17 ★	177	214	85	•	•	•	•										
	Q1	7.00	207	250	97	•	•	•	•	•									
	P1	6.33 ★	229	276	115	•	•	•	•	•	•								
	N1	5.85	248	299	120	•	•	•	•	•	•								
	M1	5.08 ★	285	344	120	•	•	•	•	•	•	• [1]							
	L1	4.62	314	379	130	•	•	•	•	•	•	• [1]							
	K1	4.21 ★	344	416	150	•	•	•	•	•	•	• [1]							
	J1	3.87	375	452	160	•	•	•	•	•	•	• [1]							
	H1	3.56 ★	407	492	140	•	•	•	•	•	•	• [1]							
	G1	3.24	448	540	150	•	•	•	•	•	•	• [1]							
	F1	2.95 ★	492	593	170	•	•	•	•	•	•	• [1]							
	E1	2.70	537	648	160	•	•	•	•	•	•	• [1]							
	D1	2.41 ★	602	726	150	•	•	•	•	•	•	• [1]							
	C1	2.15	674	814	135			•	•	•	•	• [1]							
	B1	1.83	792	956	115			•	•	•	•	• [1]							
	A1	1.52 ★	954	1 151	100			•	•	•	•	• [1]							

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}		n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm				rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
E68	**W1**	12.40	★	117	141	81	•	•	•	•										
81 … 250	**V1**	11.18		130	157	92	•	•	•	•										
	U1	10.08	★	144	174	95	•	•	•	•										
	T1	8.82		164	198	150	•	•	•	•	•									
	S1	7.92	★	183	221	170	•	•	•	•	•	•								
	R1	7.23		201	242	150	•	•	•	•	•	•								
	P1	6.42	★	226	273	170	•	•	•	•	•	•	•							
	N1	5.92		245	296	190	•	•	•	•	•	•	•							
	M1	5.36	★	271	326	220	•	•	•	•	•	•	•							
	L1	4.93		294	355	225	•	•	•	•	•	•	•							
	K1	4.56	★	318	384	220	•	•	•	•	•	•	•	• [1]						
	J1	4.24		342	413	230	•	•	•	•	•	•	•	• [1]						
	H1	3.74	★	388	468	230	•	•	•	•	•	•	•	• [1]						
	G1	3.45		420	507	240	•	•	•	•	•	•	•	• [1]						
	F1	3.09	★	469	566	250	•	•	•	•	•	•	•	• [1]						
	E1	2.85		509	614	250			•	•	•	•	•	• [1]						
	D1	2.39		607	732	230			•	•	•	•	•	• [1]						
	C1	2.04	★	711	858	210			•	•	•	•	•	• [1]						
	B1	1.70		853	1 029	175					•	•	•	• [1]						
	A1	1.41	★	1 028	1 241	150					•	•	•	• [1]						
E88	**S1**	10.33	★	140	169	230				•	•	•								
210 … 450	**R1**	9.46		153	185	210				•	•	•								
	Q1	8.42	★	172	208	245				•	•	•	•							
	P1	7.69		189	228	245				•	•	•	•							
	N1	7.07	★	205	248	290				•	•	•	•							
	M1	6.53		222	268	300				•	•	•	•							
	L1	6.06	★	239	289	280				•	•	•	•	•						
	K1	5.65		257	310	320				•	•	•	•	•						
	J1	5.11	★	284	342	370				•	•	•	•	•	• [1]					
	H1	4.70		309	372	385				•	•	•	•	•	• [1]					
	G1	4.23	★	343	414	400				•	•	•	•	•	• [1]					
	F1	3.90		372	449	385				•	•	•	•	•	• [1]					
	E1	3.30		439	530	450				•	•	•	•	•	• [1]					
	D1	2.88	★	503	608	435				•	•	•	•	•	• [1]					
	C1	2.45		592	714	420					•	•	•	•	• [1]					
	B1	2.09	★	694	837	420					•	•	•	•	• [1]					
	A1	1.71	★	848	1 023	355					•	•	•	•	• [1]					

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
Nm	15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_{2N} (f_B=1) Nm	Motor size 63	71	80	90	100	112	132	160	180	200	225	250	280	315
E108	**K1**	5.46 ★	266	321	660				•	•	•	•	•	•	•	• 1)			
550 … 745	**J1**	5.00	290	350	680				•	•	•	•	•	•	•	• 1)			
	H1	4.26	340	411	720				•	•	•	•	•	•	•	• 1)			
	G1	3.76 ★	386	465	600				•	•	•	•	•	•	•	• 1)			
	F1	3.20	453	547	745					•	•	•	•	•	•	• 1)			
	E1	2.77 ★	523	632	670					•	•	•	•	•	•	• 1)			
	C1	2.33 ★	622	751	680					•	•	•	•	•	•	• 1)			
	B1	2.11	687	829	620							•	•	•	•	• 1)			
	A1	1.81 ★	801	967	550							•	•	•	•	• 1)			
E128	**T1**	10.14 ★	143	173	544					•	•	•							
544 … 1000	**S1**	9.40	154	186	584					•	•	•							
	R1	8.94 ★	162	196	640					•	•	•	•						
	Q1	8.35	174	210	712					•	•	•	•						
	P1	7.37 ★	197	237	816					•	•	•	•	•	•				
	N1	6.95	209	252	880					•	•	•	•	•	•				
	M1	6.23 ★	233	281	928					•	•	•	•	•	•	•			
	L1	5.75	252	304	960					•	•	•	•	•	•	•			
	K1	4.91	295	356	960					•	•	•	•	•	•	•			
	J1	4.44 ★	327	394	1 000					•	•	•	•	•	•	•			
	H1	4.28	339	409	1 000						•	•	•	•	•	•	• 1)		
	G1	3.70	392	473	1 000					•	•	•	•	•	•	•	• 1)		
	F1	3.23 ★	449	542	1 000					•	•	•	•	•	•	•	• 1)		
	E1	2.76 ★	525	634	1 000					•	•	•	•	•	•	•	• 1)		
	D1	2.47	587	709	950							•	•	•	•	•	• 1)		
	C1	2.10 ★	690	833	860							•	•	•	•	•	• 1)		
	B1	1.81	801	967	800								•	•	•	•	• 1)		
	A1	1.36 ★	1 066	1 287	680								•	•	•	•	• 1)		
E148	**U1**	13.67 ★	106	128	600							•							
600 … 1550	**T1**	12.54	116	140	600							•							
	S1	11.57 ★	125	151	680							•							
	R1	10.73	135	163	760							•							
	Q1	10.13 ★	143	173	800							•	•						
	P1	9.47	153	185	920							•	•						
	N1	8.42 ★	172	208	1 000							•	•	•	•				
	M1	7.95	182	220	1 060							•	•	•	•				
	L1	7.14 ★	203	245	1 120							•	•	•	•	•			
	K1	6.55	221	267	1 150							•	•	•	•	•			
	J1	5.65	257	310	1 360							•	•	•	•	•	•		
	H1	4.94	294	354	1 400							•	•	•	•	•	•		
	G1	4.30	337	407	1 330							•	•	•	•	•	•	•	
	F1	3.77 ★	385	464	1 350							•	•	•	•	•	•	•	
	E1	3.19 ★	455	549	1 550							•	•	•	•	•	•	•	
	D1	2.90	500	603	1 400							•	•	•	•	•	•	•	
	C1	2.52 ★	575	694	1 220							•	•	•	•	•	•	•	
	B1	2.14	678	818	1 200								•	•	•	•	•	•	
	A1	1.64 ★	884	1 067	960								•	•	•	•	•	•	

★ Preferred transmission ratio

1) Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}		n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm				rpm	rpm	Nm	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	**P1**	200.36		7.2	8.7	90	•													
90	**N1**	172.85	★	8.4	10.1	90	•													
	M1	148.50		9.8	11.8	90	•													
	L1	136.71	★	10.6	12.8	90	•													
	K1	124.29		11.7	14.1	90	•													
	J1	110.01	★	13.2	15.9	90	•													
	H1	92.14		15.7	19.0	90	•													
	G1	78.56	★	18.5	22.3	90	•													
	F1	66.78	★	22.0	26.0	90	•													
	E1	58.03		25.0	30.0	90	•													
	D1	50.51	★	29.0	35.0	90	•													
	C1	45.56		32.0	38.0	90	•													
	B1	40.21		36.0	44.0	90	•													
	A1	32.26	★	45.0	54.0	90	•													
Z18	**U1**	43.15		34	41	90	•													
46 … 90	**T1**	37.23	★	39	47	90	•													
	S1	31.98		45	55	90	•													
	R1	29.45	★	49	59	90	•													
	Q1	26.77		54	65	90	•													
	P1	23.69	★	61	74	90	•													
	N1	19.85		73	88	90	•													
	M1	16.92	★	86	103	90	•													
	L1	14.38	★	101	122	90	•													
	K1	12.50		116	140	90	•													
	J1	10.88	★	133	161	87	•													
	H1	9.81		148	178	83	•													
	G1	8.66		167	202	80	•													
	F1	7.42	★	195	236	55	•													
	E1	6.45		225	271	53	•													
	D1	5.61	★	258	312	51	•													
	C1	5.06		286	346	49	•													
	B1	4.47		325	392	49	•													
	A1	3.58	★	405	488	46	•													

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
Nm	15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_{2N} (f_B=1) Nm	Motor size 63	71	80	90	100	112	132	160	180	200	225	250	280	315
D28	**N1**	241.05	6.0	7.3	140		•												
140	**M1**	207.96 ★	7.0	8.4	140		•	•											
	L1	178.66	8.1	9.8	140		•	•											
	K1	164.48 ★	8.8	10.6	140		•	•	•										
	J1	149.53	9.7	11.7	140		•	•	•										
	H1	132.35 ★	11.0	13.2	140		•	•	•										
	G1	110.86	13.1	15.8	140		•	•	•										
	F1	94.52 ★	15.3	18.5	140		•	•	•										
	E1	80.34 ★	18.0	22.0	140		•	•	•										
	D1	69.82	21.0	25.0	140		•	•	•										
	C1	60.77 ★	24.0	29.0	140		•	•	•										
	B1	54.82	26.0	32.0	140		•	•	•										
	A1	48.38	30.0	36.0	140		•	•	•										
Z28	**C2**	51.35	28	34	140		•												
77 … 140	**B2**	43.30 ★	33	40	140		•	•											
	A2	38.45	38	46	140		•	•											
	X1	33.71 ★	43	52	140		•	•	•										
	W1	30.16	48	58	140		•	•	•										
	V1	26.77 ★	54	65	140		•	•	•										
	U1	23.46	62	75	140		•	•	•										
	T1	20.63 ★	70	85	140		•	•	•										
	S1	18.63	78	94	140		•	•	•	•									
	R1	16.24 ★	89	108	140		•	•	•										
	Q1	14.58	99	120	140		•	•	•										
	P1	13.17 ★	110	133	140		•	•	•	•									
	N1	11.94	121	147	140		•	•	•	•									
	M1	10.87 ★	133	161	140		•	•	•	•									
	L1	9.61	151	182	140		•	•	•	•									
	K1	8.87 ★	163	197	140		•	•	•	•									
	J1	7.64	190	229	136		•	•	•	•									
	H1	6.94 ★	209	252	132		•	•	•	•									
	G1	6.31 ★	230	277	95		•	•	•	•									
	F1	5.72	253	306	93		•	•	•	•									
	E1	5.21 ★	278	336	92		•	•	•	•									
	D1	4.60	315	380	88		•	•	•	•									
	C1	4.25 ★	341	412	90		•	•	•	•									
	B1	3.66	396	478	80		•	•	•	•									
	A1	3.33 ★	436	526	77		•	•	•	•									

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
Nm	15th and 16th position	i_{tot}		n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_{2N} (f_B=1) Nm	Motor size 63	71	80	90	100	112	132	160	180	200	225	250	280	315
Z.38-D28	**M1**	5 905		0.24	0.29	220		•												
220	**L1**	5 094	★	0.27	0.33	220		•	•											
	K1	4 376		0.32	0.39	220		•	•											
	J1	4 029	★	0.35	0.42	220		•	•	•										
	H1	3 663		0.38	0.46	220		•	•	•										
	G1	3 242	★	0.43	0.52	220		•	•	•										
	F1	2 715		0.52	0.62	220		•	•	•										
	E1	2 315	★	0.60	0.73	220		•	•	•										
	D1	1 968	★	0.71	0.85	220		•	•	•										
	C1	1 710		0.82	0.98	220		•	•	•										
	B1	1 489	★	0.94	1.13	220		•	•	•										
	A1	1 343		1.00	1.20	220		•	•	•										
Z38-Z28	**R1**	1 258		1.1	1.3	220		•												
220	**Q1**	1 061	★	1.3	1.6	220		•	•											
	P1	942		1.5	1.8	220		•	•											
	N1	890		1.6	1.9	220		•												
	M1	751	★	1.9	2.2	220		•	•											
	L1	666		2.1	2.5	220		•	•											
	K1	584	★	2.4	2.9	220		•	•	•										
	J1	523		2.7	3.2	220		•	•	•										
	H1	464	★	3.0	3.6	220		•	•	•										
	G1	407		3.4	4.1	220		•	•	•										
	F1	358	★	3.9	4.7	220		•	•	•										
	E1	323		4.3	5.2	220		•	•	•	•									
	D1	281	★	5.0	6.0	220		•	•	•										
	C1	253		5.5	6.6	220		•	•	•										
	B1	228	★	6.1	7.3	220		•	•	•	•									
	A1	207		6.8	8.1	220		•	•	•	•									

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
Nm	15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_{2N} (f_B=1) Nm	Motor size 63	71	80	90	100	112	132	160	180	200	225	250	280	315
D38	**S1**	191.75 ★	7.6	9.1	220	•	•	•											
220	**R1**	170.24	8.5	10.3	220	•	•	•											
	Q1	149.26 ★	9.7	11.7	220	•	•	•	•										
	P1	133.57	10.9	13.1	220	•	•	•	•										
	N1	118.55 ★	12.2	14.8	220	•	•	•	•										
	M1	103.89	14.0	16.8	220	•	•	•	•										
	L1	91.34 ★	15.9	19.2	220	•	•	•	•										
	K1	82.52	17.6	21.0	220	•	•	•	•										
	J1	71.91 ★	20.0	24.0	220	•	•	•	•										
	H1	64.58	22.0	27.0	220	•	•	•	•										
	G1	58.30 ★	25.0	30.0	220	•	•	•	•										
	F1	52.86	27.0	33.0	220	•	•	•	•										
	E1	48.10 ★	30.0	36.0	220	•	•	•	•										
	D1	42.53	34.0	41.0	220	•	•	•	•										
	C1	39.28 ★	37.0	45.0	220	•	•	•	•										
	B1	33.82	43.0	52.0	220	•	•	•	•										
	A1	30.74 ★	47.0	57.0	220	•	•	•	•										
Z38	**A2**	44.12 ★	33	40	220	•	•	•											
160 … 220	**X1**	39.24	37	45	208	•	•	•											
	W1	34.04 ★	43	51	220	•	•	•	•										
	V1	31.80	46	55	220	•	•	•	•										
	U1	27.97 ★	52	63	220	•	•	•	•										
	T1	24.50	59	71	220	•	•	•	•	•									
	S1	21.67 ★	67	81	220	•	•	•	•	•	• [1]								
	R1	19.64	74	89	220	•	•	•	•	•	• [1]								
	Q1	17.33 ★	84	101	220	•	•	•	•	•	• [1]								
	P1	15.64	93	112	220	•	•	•	•	•	• [1]								
	N1	14.18 ★	102	123	220	•	•	•	•	•	• [1]								
	M1	12.92	112	135	220	•	•	•	•	•	• [1]								
	L1	11.82 ★	123	148	220	•	•	•	•	•	• [1]								
	K1	10.57	137	166	210	•	•	•	•	•	• [1]								
	J1	9.70 ★	149	180	200	•	•	•	•	•	• [1]								
	H1	8.75	166	200	195	•	•	•	•	•	• [1]								
	G1	7.52 ★	193	233	190	•	•	•	•	•	• [1]								
	F1	7.50 ★	193	233	185	•	•	•	•	•	• [1]								
	D1	6.71	216	261	180	•	•	•	•	•	• [1]								
	C1	6.16 ★	235	284	170	•	•	•	•	•	• [1]								
	B1	5.55	261	315	165	•	•	•	•	•	• [1]								
	A1	4.77 ★	304	367	160	•	•	•	•	•	• [1]								

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}		n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm				rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D48-D28	**N1**	27 940		0.05	0.06	450		•												
450	**M1**	24 104	★	0.06	0.07	450		•	•											
	L1	20 708		0.07	0.08	450		•	•											
	K1	19 065	★	0.07	0.08	450		•	•	•										
	J1	17 332		0.08	0.10	450		•	•	•										
	H1	15 341	★	0.09	0.11	450		•	•	•										
	G1	12 849		0.11	0.13	450		•	•	•										
	F1	10 956	★	0.13	0.15	450		•	•	•										
	E1	9 312	★	0.15	0.18	450		•	•	•										
	D1	8 093		0.17	0.21	450		•	•	•										
	C1	7 044	★	0.20	0.24	450		•	•	•										
	B1	6 354		0.22	0.26	450		•	•	•										
	A1	5 608		0.25	0.30	450		•	•	•										
D48-Z28	**H2**	5 019	★	0.28	0.34	450		•	•											
450	**G2**	4 456		0.31	0.38	450		•	•											
	F2	3 907	★	0.36	0.43	450		•	•	•										
	E2	3 496		0.40	0.48	450		•	•	•										
	D2	3 103	★	0.45	0.54	450		•	•	•										
	C2	2 720		0.51	0.62	450		•	•	•										
	B2	2 391	★	0.59	0.70	450		•	•	•										
	A2	2 160		0.65	0.78	450		•	•	•	•									
	X1	1 882	★	0.74	0.89	450		•	•	•										
	W1	1 690		0.83	0.99	450		•	•	•										
	V1	1 526	★	0.92	1.10	450		•	•	•	•									
	U1	1 384		1.00	1.20	450		•	•	•	•									
	T1	1 259	★	1.10	1.30	450		•	•	•	•									
	S1	1 113		1.30	1.50	450		•	•	•	•									
	R1	1 028	★	1.40	1.60	450		•	•	•	•									
	Q1	885		1.60	1.90	450		•	•	•	•									
	P1	805	★	1.70	2.10	450		•	•	•	•									
	N1	731	★	1.90	2.30	450		•	•	•	•									
	M1	663		2.10	2.50	450		•	•	•	•									
	L1	603	★	2.30	2.80	450		•	•	•	•									
	K1	534		2.60	3.10	450		•	•	•	•									
	J1	493	★	2.80	3.40	450		•	•	•	•									
	H1	424		3.30	3.90	450		•	•	•	•									
	G1	423	★	3.30	4.00	450		•	•	•	•									
	F1	384		3.70	4.40	450		•	•	•	•									
	E1	349	★	4.00	4.80	450		•	•	•	•									
	D1	309		4.50	5.40	450		•	•	•	•									
	C1	285	★	4.90	5.90	450		•	•	•	•									
	B1	246		5.70	6.80	450		•	•	•	•									
	A1	223	★	6.30	7.50	450		•	•	•	•									

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
Nm	15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_{2N} (f_B=1) Nm	Motor size 63	71	80	90	100	112	132	160	180	200	225	250	280	315
D48	**S1**	208.77 ★	6.9	8.4	450	•	•	•											
450	**R1**	185.66	7.8	9.4	450	•	•	•											
	Q1	161.05 ★	9.0	10.9	450	•	•	•	•										
	P1	150.48	9.6	11.6	450	•	•	•	•										
	N1	132.34 ★	11.0	13.2	450	•	•	•	•										
	M1	115.91	12.5	15.1	450	•	•	•	•	•									
	L1	102.52 ★	14.1	17.1	450	•	•	•	•	•									
	K1	92.91	15.6	18.8	450	•	•	•	•	•									
	J1	82.02 ★	17.7	21.0	450	•	•	•	•	•									
	H1	73.99	19.6	24.0	450	•	•	•	•	•									
	G1	67.10 ★	22.0	26.0	450	•	•	•	•	•									
	F1	61.14	24.0	29.0	450	•	•	•	•	•									
	E1	55.92 ★	26.0	31.0	450	•	•	•	•	•									
	D1	50.00	29.0	35.0	450	•	•	•	•	•									
	C1	45.91 ★	32.0	38.0	450	•	•	•	•	•									
	B1	41.38	35.0	42.0	450	•	•	•	•	•									
	A1	35.59	41.0	49.0	450	•	•	•	•	•									
Z48	**A2**	51.28	28	34	292	•	•	•											
260 … 450	**X1**	45.38 ★	32	39	450	•	•	•	•										
	W1	41.26	35	42	450	•	•	•	•										
	V1	37.06 ★	39	47	450	•	•	•	•										
	U1	31.77	46	55	450	•	•	•	•	•									
	T1	28.74 ★	50	61	450	•	•	•	•	•	•								
	S1	26.53	55	66	450	•	•	•	•	•	•								
	R1	23.07 ★	63	76	450	•	•	•	•	•	•	• [1]							
	Q1	20.95	69	84	450	•	•	•	•	•	•	• [1]							
	P1	19.13 ★	76	91	450	•	•	•	•	•	•	• [1]							
	N1	17.55	83	100	450	•	•	•	•	•	•	• [1]							
	M1	16.17 ★	90	108	430	•	•	•	•	•	•	• [1]							
	L1	14.68	99	119	420	•	•	•	•	•	•	• [1]							
	K1	13.38 ★	108	131	410	•	•	•	•	•	•	• [1]							
	J1	12.25	118	143	400	•	•	•	•	•	•	• [1]							
	H1	10.93 ★	133	160	390	•	•	•	•	•	•	• [1]							
	G1	9.76	149	179	380			•	•	•	•	• [1]							
	F1	8.29	175	211	360			•	•	•	•	• [1]							
	E1	6.90 ★	210	254	340			•	•	•	•	• [1]							
	D1	6.79 ★	214	258	270	•	•	•	•	•	•	• [1]							
	C1	6.06	239	289	270			•	•	•	•	• [1]							
	B1	5.15	282	340	270			•	•	•	•	• [1]							
	A1	4.28 ★	339	409	260			•	•	•	•	• [1]							

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}		n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm				rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D68-D28	**N1**	41 961		0.03	0.04	800		•												
800	**M1**	36 200	★	0.04	0.05	800		•	•											
	L1	31 101		0.05	0.05	800		•	•											
	K1	28 633	★	0.05	0.06	800		•	•	•										
	J1	26 030		0.05	0.07	800		•	•	•										
	H1	23 039	★	0.06	0.07	800		•	•	•										
	G1	19 297		0.07	0.09	800		•	•	•										
	F1	16 454	★	0.09	0.10	800		•	•	•										
	E1	13 986	★	0.10	0.12	800		•	•	•										
	D1	12 154		0.12	0.14	800		•	•	•										
	C1	10 579	★	0.13	0.16	800		•	•	•										
	B1	9 543		0.15	0.18	800		•	•	•										
	A1	8 422		0.17	0.20	800		•	•	•										
D68-Z28	**H2**	7 538	★	0.19	0.22	800		•	•											
800	**G2**	6 693		0.21	0.25	800		•	•											
	F2	5 868	★	0.24	0.29	800		•	•	•										
	E2	5 251		0.27	0.32	800		•	•	•										
	D2	4 660	★	0.30	0.36	800		•	•	•										
	C2	4 084		0.34	0.41	800		•	•	•										
	B2	3 591	★	0.39	0.47	800		•	•	•										
	A2	3 244		0.43	0.52	800		•	•	•	•									
	X1	2 827	★	0.50	0.59	800		•	•	•										
	W1	2 539		0.55	0.66	800		•	•	•										
	V1	2 292	★	0.61	0.73	800		•	•	•	•									
	U1	2 078		0.67	0.81	800		•	•	•	•									
	T1	1 891	★	0.74	0.89	800		•	•	•	•									
	S1	1 672		0.84	1.00	800		•	•	•	•									
	R1	1 544	★	0.91	1.10	800		•	•	•	•									
	Q1	1 329		1.10	1.30	800		•	•	•	•									
	P1	1 208	★	1.20	1.40	800		•	•	•	•									
	N1	1 098	★	1.30	1.50	800		•	•	•	•									
	M1	996		1.40	1.70	800		•	•	•	•									
	L1	906	★	1.50	1.90	800		•	•	•	•									
	K1	801		1.80	2.10	800		•	•	•	•									
	J1	740	★	1.90	2.30	800		•	•	•	•									
	H1	637		2.20	2.60	800		•	•	•	•									
	G1	607	★	2.30	2.80	800		•	•	•	•									
	F1	550		2.50	3.10	800		•	•	•	•									
	E1	501	★	2.80	3.40	800		•	•	•	•									
	D1	443		3.20	3.80	800		•	•	•	•									
	C1	409	★	3.40	4.10	800		•	•	•	•									
	B1	352		4.00	4.80	800		•	•	•	•									
	A1	320	★	4.40	5.30	800		•	•	•	•									

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
Nm	15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_{2N} (f_B=1) Nm	Motor size 63	71	80	90	100	112	132	160	180	200	225	250	280	315
D68	**U1**	281.01	5.2	6.2	800	•	•	•											
800	**T1**	248.68 ★	5.8	7.0	800	•	•	•	•										
	S1	226.07	6.4	7.7	800	•	•	•	•										
	R1	203.09 ★	7.1	8.6	800	•	•	•	•										
	Q1	174.08	8.3	10.1	800	•	•	•	•	•									
	P1	157.50 ★	9.2	11.1	800	•	•	•	•	•									
	N1	145.38	10.0	12.0	800	•	•	•	•	•									
	M1	126.41 ★	11.5	13.8	800	•	•	•	•	•									
	L1	114.78	12.6	15.2	800	•	•	•	•	•									
	K1	104.80 ★	13.8	16.7	800	•	•	•	•	•									
	J1	96.16	15.1	18.2	800	•	•	•	•	•									
	H1	88.59 ★	16.4	19.8	800	•	•	•	•	•									
	G1	80.46	18.0	22.0	800	•	•	•	•	•									
	F1	73.30 ★	19.8	24.0	800	•	•	•	•	•									
	E1	67.14	22.0	26.0	800	•	•	•	•	•									
	D1	59.91 ★	24.0	29.0	800	•	•	•	•	•									
	C1	53.47	27.0	33.0	800			•	•	•									
	B1	45.41	32.0	39.0	800			•	•	•									
	A1	37.80	38.0	46.0	800			•	•	•									
Z68	**X1**	48.09 ★	30	36	535	•	•	•	•										
420 … 800	**W1**	42.06	34	42	800	•	•	•	•	•									
	V1	37.76 ★	38	46	800	•	•	•	•	•	•								
	U1	34.49	42	51	800	•	•	•	•	•	•								
	T1	30.60 ★	47	57	800	•	•	•	•	•	•	•							
	S1	28.25	51	62	800	•	•	•	•	•	•	•							
	R1	25.55 ★	57	68	800	•	•	•	•	•	•	•							
	Q1	23.53	62	74	800	•	•	•	•	•	•	•							
	P1	21.76 ★	67	80	800	•	•	•	•	•	•	•	• [1]						
	N1	20.20	72	87	800	•	•	•	•	•	•	•	• [1]						
	M1	17.82 ★	81	98	800	•	•	•	•	•	•	•	• [1]						
	L1	16.45	88	106	800	•	•	•	•	•	•	•	• [1]						
	K1	14.74 ★	98	119	800	•	•	•	•	•	•	•	• [1]						
	J1	13.59	107	129	800			•	•	•	•	•	• [1]						
	H1	11.40	127	154	785			•	•	•	•	•	• [1]						
	G1	9.73 ★	149	180	745			•	•	•	•	•	• [1]						
	F1	8.11	179	216	700					•	•	•	• [1]						
	E1	6.72 ★	216	260	650					•	•	•	• [1]						
	D1	5.93	245	295	490			•	•	•	•	•	• [1]						
	C1	5.06 ★	287	346	480			•	•	•	•	•	• [1]						
	B1	4.22	344	415	470					•	•	•	• [1]						
	A1	3.49 ★	415	501	420					•	•	•	• [1]						

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}		n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm				rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.88-D.28	**N1**	46 233		0.03	0.04	1 680		•												
800	**M1**	39 885	★	0.04	0.04	1 680		•	•											
	L1	34 267		0.04	0.05	1 680		•	•											
	K1	31 547	★	0.04	0.05	1 680		•	•	•										
	J1	28 679		0.05	0.06	1 680		•	•	•										
	H1	25 384	★	0.06	0.07	1 680		•	•	•										
	G1	21 262		0.07	0.08	1 680		•	•	•										
	F1	18 129	★	0.08	0.09	1 680		•	•	•										
	E1	15 409	★	0.09	0.11	1 680		•	•	•										
	D1	13 391		0.10	0.13	1 680		•	•	•										
	C1	11 656	★	0.12	0.14	1 680		•	•	•										
	B1	10 514		0.13	0.16	1 680		•	•	•										
	A1	9 279		0.15	0.18	1 680		•	•	•										
D.88-Z.28	**H2**	8 305	★	0.17	0.20	1 680		•	•											
800	**G2**	7 374		0.19	0.23	1 680		•	•											
	F2	6 465	★	0.22	0.26	1 680		•	•	•										
	E2	5 785		0.24	0.29	1 680		•	•	•										
	D2	5 134	★	0.27	0.33	1 680		•	•	•										
	C2	4 500		0.31	0.37	1 680		•	•	•										
	B2	3 957	★	0.35	0.43	1 680		•	•	•										
	A2	3 574		0.39	0.47	1 680		•	•	•	•									
	X1	3 114	★	0.45	0.54	1 680		•	•	•										
	W1	2 797		0.50	0.60	1 680		•	•	•										
	V1	2 525	★	0.55	0.67	1 680		•	•	•	•									
	U1	2 290		0.61	0.73	1 680		•	•	•	•									
	T1	2 084	★	0.67	0.81	1 680		•	•	•	•									
	S1	1 842		0.76	0.91	1 680		•	•	•	•									
	R1	1 701	★	0.82	0.99	1 680		•	•	•	•									
	Q1	1 465		0.96	1.10	1 680		•	•	•	•									
	P1	1 331	★	1.10	1.30	1 680		•	•	•	•									
	N1	1 210	★	1.20	1.40	1 680		•	•	•	•									
	M1	1 097		1.30	1.50	1 680		•	•	•	•									
	L1	999	★	1.40	1.70	1 680		•	•	•	•									
	K1	883		1.60	1.90	1 680		•	•	•	•									
	J1	815	★	1.70	2.10	1 680		•	•	•	•									
	H1	702		2.00	2.40	1 680		•	•	•	•									
	G1	647	★	2.20	2.60	1 680		•	•	•	•									
	F1	587		2.40	2.90	1 680		•	•	•	•									
	E1	534	★	2.60	3.10	1 680		•	•	•	•									
	D1	472		3.00	3.60	1 680		•	•	•	•									
	C1	436	★	3.20	3.90	1 680		•	•	•	•									
	B1	375		3.70	4.50	1 680		•	•	•	•									
	A1	341	★	4.10	4.90	1 680		•	•	•	•									

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
Nm	15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_{2N} (f_B=1) Nm	Motor size 63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.88	**V1**	300.41 ★	4.8	5.8	1 680	•	•	•	•										
1 680	**U1**	270.90	5.4	6.5	1 680	•	•	•	•										
	T1	244.29 ★	5.9	7.2	1 680	•	•	•	•										
	S1	213.64	6.8	8.2	1 680	•	•	•	•	•									
	R1	191.80 ★	7.6	9.1	1 680	•	•	•	•	•	•								
	Q1	175.18	8.3	10.0	1 680	•	•	•	•	•	•								
	R1	155.46 ★	9.3	11.3	1 680	•	•	•	•	•	•	•							
	N1	143.50	10.1	12.2	1 680	•	•	•	•	•	•	•							
	M1	129.79 ★	11.2	13.5	1 680	•	•	•	•	•	•	•							
	L1	119.52	12.1	14.6	1 680	•	•	•	•	•	•	•							
	K1	110.54 ★	13.1	15.8	1 680	•	•	•	•	•	•	•							
	J1	102.61	14.1	17.1	1 680	•	•	•	•	•	•	•							
	H1	90.53 ★	16.0	19.3	1 680	•	•	•	•	•	•	•							
	G1	83.58	17.3	21.0	1 680	•	•	•	•	•	•	•							
	F1	74.88 ★	19.4	23.0	1 680	•	•	•	•	•	•	•							
	E1	69.05	21.0	25.0	1 680			•	•	•	•	•							
	D1	57.93	25.0	30.0	1 680			•	•	•	•	•							
	C1	49.42 ★	29.0	35.0	1 680			•	•	•	•	•							
	B1	41.19	35.0	42.0	1 680					•	•	•							
	A1	34.14 ★	42.0	51.0	1 680					•	•	•							
Z.88	**B2**	50.73	29	34	1 468				•	•									
660 … 1 680	**A2**	45.76 ★	32	38	1 680				•	•	•								
	X1	41.90	35	42	1 680				•	•	•								
	W1	37.27 ★	39	47	1 680				•	•	•	•							
	V1	34.07	43	51	1 680				•	•	•	•							
	U1	31.32 ★	46	56	1 680				•	•	•	•							
	T1	28.93	50	60	1 680				•	•	•	•							
	S1	26.85 ★	54	65	1 680				•	•	•	•	•						
	R1	25.01	58	70	1 680				•	•	•	•	•						
	Q1	22.61 ★	64	77	1 680				•	•	•	•	•	• [1]					
	P1	20.81	70	84	1 680				•	•	•	•	•	• [1]					
	N1	18.72 ★	77	93	1 680				•	•	•	•	•	• [1]					
	M1	17.27	84	101	1 680				•	•	•	•	•	• [1]					
	L1	14.63	99	120	1 620				•	•	•	•	•	• [1]					
	K1	12.75 ★	114	137	1 550				•	•	•	•	•	• [1]					
	J1	10.85	134	161	1 470					•	•	•	•	• [1]					
	H1	9.26 ★	157	189	1 390					•	•	•	•	• [1]					
	G1	7.59 ★	191	231	1 300					•	•	•	•	• [1]					
	F1	6.96	208	251	1 260					•	•	•	•	• [1]					
	E1	5.94 ★	244	295	1 190					•	•	•	•	• [1]					
	D1	4.87 ★	298	359	1 110					•	•	•	•	• [1]					
	C1	4.45 ★	326	393	800					•	•	•	•	• [1]					
	B1	3.79 ★	383	462	740					•	•	•	•	• [1]					
	A1	3.11 ★	466	563	660					•	•	•	•	• [1]					

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm			rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.108-D38	**P1**	68 896	0.02	0.03	3 100	•	•	•											
3 100	**N1**	61 169	0.02	0.03	3 100	•	•	•											
	M1	53 627	0.03	0.03	3 100	•	•	•	•										
	L1	47 990	0.03	0.04	3 100	•	•	•	•										
	K1	42 595	0.03	0.04	3 100	•	•	•	•										
	J1	37 326	0.04	0.05	3 100	•	•	•	•										
	H1	32 819	0.04	0.05	3 100	•	•	•	•										
	G1	29 650	0.05	0.06	3 100	•	•	•	•										
	F1	25 836	0.06	0.07	3 100	•	•	•	•										
	E1	23 204	0.06	0.08	3 100	•	•	•	•										
	D1	20 948	0.07	0.08	3 100	•	•	•	•										
	C1	18 993	0.08	0.09	3 100	•	•	•	•										
	B1	17 282	0.08	0.10	3 100	•	•	•	•										
	A1	15 280	0.09	0.11	3 100	•	•	•	•										

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

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size												
Nm			rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.108-Z38	**P2**	15 853	0.09	0.11	3 100	•	•	•											
3 100	**N2**	14 098	0.10	0.12	3 100	•	•	•											
	M2	12 229	0.12	0.14	3 100	•	•	•	•										
	L2	11 426	0.13	0.15	3 100	•	•	•	•										
	K2	10 049	0.14	0.17	3 100	•	•	•	•										
	J2	8 801	0.16	0.20	3 100	•	•	•	•	•									
	H2	7 785	0.19	0.22	3 100	•	•	•	•	•									
	G2	7 055	0.21	0.25	3 100	•	•	•	•	•									
	F2	6 228	0.23	0.28	3 100	•	•	•	•	•									
	E2	5 618	0.26	0.31	3 100	•	•	•	•	•									
	D2	5 096	0.28	0.34	3 100	•	•	•	•	•									
	C2	4 643	0.31	0.38	3 100	•	•	•	•	•									
	B2	4 246	0.34	0.41	3 100	•	•	•	•	•									
	A2	3 797	0.38	0.46	3 100	•	•	•	•	•									
	X1	3 624	0.40	0.48	3 100	•	•	•											
	W1	3 223	0.45	0.54	3 100	•	•	•											
	V1	2 796	0.52	0.63	3 100	•	•	•	•										
	U1	2 612	0.56	0.67	3 100	•	•	•	•										
	T1	2 297	0.63	0.76	3 100	•	•	•	•										
	S1	2 012	0.72	0.87	3 100	•	•	•	•	•									
	R1	1 780	0.81	0.98	3 100	•	•	•	•	•									
	Q1	1 613	0.90	1.10	3 100	•	•	•	•	•									
	P1	1 424	1.00	1.20	3 100	•	•	•	•	•									
	N1	1 284	1.10	1.40	3 100	•	•	•	•	•									
	M1	1 165	1.20	1.50	3 100	•	•	•	•	•									
	L1	1 061	1.40	1.60	3 100	•	•	•	•	•									
	K1	971	1.50	1.80	3 100	•	•	•	•	•									
	J1	868	1.70	2.00	3 100	•	•	•	•	•									
	H1	797	1.80	2.20	3 100	•	•	•	•	•									
	G1	718	2.00	2.40	3 100	•	•	•	•	•									
	F1	618	2.30	2.80	3 100	•	•	•	•	•									
	E1	616	2.40	2.80	3 100	•	•	•	•	•									
	D1	551	2.60	3.20	3 100	•	•	•	•	•									
	C1	506	2.90	3.50	3 100	•	•	•	•	•									
	B1	456	3.20	3.80	3 100	•	•	•	•	•									
	A1	392	3.70	4.50	3 100	•	•	•	•	•									

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					Motor size													
Nm	15th and 16th position	i_{tot}	n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	T_{2N} (f_B=1) Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.108	V1	359.30	4.0	4.9	3 100			•	•										
3 100	U1	325.21 ★	4.5	5.4	3 100			•	•										
	T1	284.73	5.1	6.1	3 100			•	•	•									
	S1	256.86 ★	5.6	6.8	3 100			•	•	•	•								
	R1	235.19	6.2	7.4	3 100			•	•	•	•								
	Q1	209.21 ★	6.9	8.4	3 100			•	•	•	•	•							
	P1	191.21	7.6	9.2	3 100			•	•	•	•	•							
	N1	175.78 ★	8.2	10.0	3 100			•	•	•	•	•							
	M1	162.40	8.9	10.8	3 100			•	•	•	•	•							
	L1	150.70 ★	9.6	11.6	3 100			•	•	•	•	•	•						
	K1	140.37	10.3	12.5	3 100			•	•	•	•	•	•						
	J1	126.90 ★	11.4	13.8	3 100			•	•	•	•	•	•						
	H1	116.83	12.4	15.0	3 100			•	•	•	•	•	•						
	G1	105.08 ★	13.8	16.7	3 100			•	•	•	•	•	•						
	F1	96.94	15.0	18.1	3 100			•	•	•	•	•	•						
	E1	82.14	17.7	21.0	3 100			•	•	•	•	•	•						
	D1	71.59 ★	20.0	24.0	3 100			•	•	•	•	•	•						
	C1	60.90	24.0	29.0	3 100					•	•	•	•						
	B1	51.97 ★	28.0	34.0	3 100					•	•	•	•						
	A1	42.61 ★	34.0	41.0	3 100					•	•	•	•						
Z.108	E2	59.05 ★	25	30	2 368				•	•	•								
1 080 … 3 100	D2	54.15	27	32	2 306				•	•	•								
	C2	48.38 ★	30	36	3 100				•	•	•	•							
	B2	44.31	33	39	3 100				•	•	•	•							
	A2	40.82 ★	36	43	3 100				•	•	•	•							
	X1	37.79	38	46	3 100				•	•	•	•							
	W1	35.14 ★	41	50	3 100				•	•	•	•	•						
	V1	32.81	44	53	3 100				•	•	•	•	•						
	U1	29.35 ★	49	60	3 100				•	•	•	•	•	•	•				
	T1	27.20	53	64	3 100				•	•	•	•	•	•	•				
	S1	24.94 ★	58	70	3 100				•	•	•	•	•	•	•	• [1]			
	R1	22.86	63	77	3 100				•	•	•	•	•	•	•	• [1]			
	Q1	19.48	74	90	3 100				•	•	•	•	•	•	•	• [1]			
	P1	17.19 ★	84	102	3 100				•	•	•	•	•	•	•	• [1]			
	N1	14.63	99	120	3 100					•	•	•	•	•	•	• [1]			
	M1	12.68 ★	114	138	3 100					•	•	•	•	•	•	• [1]			
	L1	10.67 ★	136	164	3 100					•	•	•	•	•	•	• [1]			
	K1	9.62	151	182	3 100							•	•	•	•	• [1]			
	J1	8.27 ★	175	212	3 100							•	•	•	•	• [1]			
	H1	7.10 ★	204	246	1 800					•	•	•	•	•	•	• [1]			
	G1	6.41	226	273	1 760							•	•	•	•	• [1]			
	E1	5.51 ★	263	318	1 700							•	•	•	•	• [1]			
	D1	5.24 ★	277	334	1 140							•	•	•	•	• [1]			
	C1	4.41 ★	329	397	1 140							•	•	•	•	• [1]			
	B1	3.98 ★	364	440	1 120							•	•	•	•	• [1]			
	A1	3.42 ★	424	512	1 080							•	•	•	•	• [1]			

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}		n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm				rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.128-D38	**P1**	51 420	★	0.03	0.03	5 100	•	•	•											
5 100	**N1**	45 652		0.03	0.04	5 100	•	•	•											
	M1	40 024	★	0.04	0.04	5 100	•	•	•	•										
	L1	35 817		0.04	0.05	5 100	•	•	•	•										
	K1	31 790	★	0.05	0.06	5 100	•	•	•	•										
	J1	27 858		0.05	0.06	5 100	•	•	•	•										
	H1	24 494	★	0.06	0.07	5 100	•	•	•	•										
	G1	22 129		0.07	0.08	5 100	•	•	•	•										
	F1	19 282	★	0.08	0.09	5 100	•	•	•	•										
	E1	17 318		0.08	0.10	5 100	•	•	•	•										
	D1	15 634	★	0.09	0.11	5 100	•	•	•	•										
	C1	14 175		0.10	0.12	5 100	•	•	•	•										
	B1	12 898	★	0.11	0.14	5 100	•	•	•	•										
	A1	11 404		0.13	0.15	5 100	•	•	•	•										
D.128-Z38	**X1**	11 831	★	0.12	0.15	5 100	•	•	•											
5 100	**W1**	10 521		0.14	0.17	5 100	•	•	•											
	V1	9 127	★	0.16	0.19	5 100	•	•	•	•										
	U1	8 528		0.17	0.21	5 100	•	•	•	•										
	T1	7 500	★	0.19	0.23	5 100	•	•	•	•										
	S1	6 569		0.22	0.27	5 100	•	•	•	•	•									
	R1	5 810	★	0.25	0.30	5 100	•	•	•	•	•									
	Q1	5 266		0.28	0.33	5 100	•	•	•	•	•									
	P1	4 648	★	0.31	0.38	5 100	•	•	•	•	•									
	N1	4 193		0.35	0.42	5 100	•	•	•	•	•									
	M1	3 803	★	0.38	0.46	5 100	•	•	•	•	•									
	L1	3 465		0.42	0.51	5 100	•	•	•	•	•									
	K1	3 169	★	0.46	0.55	5 100	•	•	•	•	•									
	J1	2 834		0.51	0.62	5 100	•	•	•	•	•									
	H1	2 602	★	0.56	0.67	5 100	•	•	•	•	•									
	G1	2 345		0.62	0.75	5 100	•	•	•	•	•									
	F1	2 017	★	0.72	0.87	5 100	•	•	•	•	•									
	E1	2 011	★	0.72	0.87	5 100	•	•	•	•	•									
	C1	1 798		0.81	0.97	5 100	•	•	•	•	•									
	D1	1 651	★	0.88	1.10	5 100	•	•	•	•	•									
	B1	1 488		0.97	1.20	5 100	•	•	•	•	•									
	A1	1 280	★	1.10	1.40	5 100	•	•	•	•	•									

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	**Motor size**													
Nm			rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.128-Z48	**P1**	1 271	1.1	1.4	5 100	•	•	•	•	•	•								
5 100	**N1**	1 166	1.2	1.5	5 100	•	•	•	•	•	•								
	M1	1 074	1.4	1.6	5 100	•	•	•	•	•	•								
	L1	975	1.5	1.8	5 100	•	•	•	•	•	•								
	K1	889	1.6	2.0	5 100	•	•	•	•	•	•								
	J1	814	1.8	2.1	5 100	•	•	•	•	•	•								
	H1	726	2.0	2.4	5 100	•	•	•	•	•	•								
	G1	648	2.2	2.7	5 100			•	•	•	•								
	F1	551	2.6	3.2	5 100			•	•	•	•								
	E1	458	3.2	3.8	5 100			•	•	•	•								
	D1	451	3.2	3.9	5 100	•	•	•	•	•	•								
	C1	403	3.6	4.3	5 100			•	•	•	•								
	B1	342	4.2	5.1	5 100			•	•	•	•								
	A1	285	5.1	6.1	5 100			•	•	•	•								

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

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm			rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.128	**K1**	268.16 ★	5.4	6.5	5 100				•	•	•								
5 100	**T1**	245.93	5.9	7.1	5 100				•	•	•								
	S1	219.72 ★	6.6	8.0	5 100				•	•	•	•							
	R1	201.22	7.2	8.7	5 100				•	•	•	•							
	Q1	185.36 ★	7.8	9.4	5 100				•	•	•	•							
	P1	171.62	8.4	10.2	5 100				•	•	•	•							
	N1	159.60 ★	9.1	11.0	5 100				•	•	•	•	•						
	M1	148.99	9.7	11.7	5 100				•	•	•	•	•						
	L1	133.30 ★	10.9	13.1	5 100				•	•	•	•	•	•	•				
	K1	123.53	11.7	14.2	5 100				•	•	•	•	•	•	•				
	J1	113.24 ★	12.8	15.5	5 100				•	•	•	•	•	•	•				
	H1	103.80	14.0	16.9	5 100				•	•	•	•	•	•	•				
	G1	88.46	16.4	19.8	5 100				•	•	•	•	•	•	•				
	F1	78.06 ★	18.6	22.0	5 100				•	•	•	•	•	•	•				
	E1	66.43	22.0	26.0	5 100					•	•	•	•	•	•				
	D1	57.56 ★	25.0	30.0	5 100					•	•	•	•	•	•				
	C1	48.44 ★	30.0	36.0	5 100					•	•	•	•	•	•				
	B1	43.71	33.0	40.0	5 100							•	•	•	•				
	A1	37.57 ★	39.0	47.0	5 100							•	•	•	•				
Z.128	**D2**	44.19 ★	33	40	3 275					•	•	•							
2 220 … 5 100	**C2**	40.96	35	43	3 196					•	•	•							
	B2	38.94 ★	37	45	5 100					•	•	•	•						
	A2	36.39	40	48	5 100					•	•	•	•						
	X1	32.11 ★	45	55	5 100					•	•	•	•	•	•				
	W1	30.28	48	58	5 100					•	•	•	•	•	•				
	V1	27.13 ★	53	65	5 100					•	•	•	•	•	•	•			
	U1	25.05	58	70	5 100					•	•	•	•	•	•	•			
	T1	21.41	68	82	5 100					•	•	•	•	•	•	•	• [1]		
	S1	19.35 ★	75	90	5 100					•	•	•	•	•	•	•	• [1]		
	R1	18.64	78	94	5 100						•	•	•	•	•	•	• [1]		
	Q1	16.12	90	109	4 993					•	•	•	•	•	•	•	• [1]		
	P1	14.06 ★	103	124	4 868					•	•	•	•	•	•	•	• [1]		
	N1	12.03 ★	121	145	4 716					•	•	•	•	•	•	•	• [1]		
	M1	10.78	135	162	4 603							•	•	•	•	•	• [1]		
	L1	9.13 ★	159	192	4 425							•	•	•	•	•	• [1]		
	K1	7.88	184	222	4 258								•	•	•	•	• [1]		
	J1	7.29 ★	199	240	2 540								•	•	•	•	• [1]		
	H1	6.24 ★	232	280	2 530								•	•	•	•	• [1]		
	G1	5.93 ★	245	295	3 908								•	•	•	•	• [1]		
	F1	5.59 ★	259	313	2 607								•	•	•	•	• [1]		
	E1	4.83	300	362	2 512								•	•	•	•	• [1]		
	D1	4.73 ★	307	370	2 375								•	•	•	•	• [1]		
	C1	4.09 ★	355	428	2 360								•	•	•	•	• [1]		
	B1	3.63 ★	399	482	2 310								•	•	•	•	• [1]		
	A1	3.07 ★	472	570	2 220								•	•	•	•	• [1]		

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm			rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.148-D38	**P1**	64 450	0.02	0.03	8 000	•	•	•											
8 000	**N1**	57 221	0.03	0.03	8 000	•	•	•											
	M1	50 166	0.03	0.03	8 000	•	•	•	•										
	L1	44 893	0.03	0.04	8 000	•	•	•	•										
	K1	39 846	0.04	0.04	8 000	•	•	•	•										
	J1	34 917	0.04	0.05	8 000	•	•	•	•										
	H1	30 701	0.05	0.06	8 000	•	•	•	•										
	G1	27 736	0.05	0.06	8 000	•	•	•	•										
	F1	24 169	0.06	0.07	8 000	•	•	•	•										
	E1	21 707	0.07	0.08	8 000	•	•	•	•										
	D1	19 596	0.07	0.09	8 000	•	•	•	•										
	C1	17 767	0.08	0.10	8 000	•	•	•	•										
	B1	16 167	0.09	0.11	8 000	•	•	•	•										
	A1	14 294	0.10	0.12	8 000	•	•	•	•										
D.148-Z38	**X1**	14 830	0.10	0.12	8 000	•	•	•											
8 000	**W1**	13 188	0.11	0.13	8 000	•	•	•											
	V1	11 440	0.13	0.15	8 000	•	•	•	•										
	U1	10 689	0.14	0.16	8 000	•	•	•	•										
	T1	9 401	0.15	0.19	8 000	•	•	•	•										
	S1	8 233	0.18	0.21	8 000	•	•	•	•	•									
	R1	7 282	0.20	0.24	8 000	•	•	•	•	•									
	Q1	6 600	0.22	0.27	8 000	•	•	•	•	•									
	P1	5 826	0.25	0.30	8 000	•	•	•	•	•									
	N1	5 256	0.28	0.33	8 000	•	•	•	•	•									
	M1	4 767	0.30	0.37	8 000	•	•	•	•	•									
	L1	4 343	0.33	0.40	8 000	•	•	•	•	•									
	K1	3 972	0.37	0.44	8 000	•	•	•	•	•									
	J1	3 552	0.41	0.49	8 000	•	•	•	•	•									
	H1	3 261	0.44	0.54	8 000	•	•	•	•	•									
	G1	2 939	0.49	0.60	8 000	•	•	•	•	•									
	F1	2 528	0.57	0.69	8 000	•	•	•	•	•									
	E1	2 521	0.58	0.69	8 000	•	•	•	•	•									
	D1	2 254	0.64	0.78	8 000	•	•	•	•	•									
	C1	2 070	0.70	0.85	8 000	•	•	•	•	•									
	B1	1 865	0.78	0.94	8 000	•	•	•	•	•									
	A1	1 604	0.90	1.10	8 000	•	•	•	•	•									
D.148-Z48	**N1**	1 631	0.89	1.10	8 000	•	•	•	•	•	•								
8 000	**M1**	1 502	0.97	1.20	8 000	•	•	•	•	•	•								
	L1	1 364	1.10	1.30	8 000	•	•	•	•	•	•								
	K1	1 243	1.20	1.40	8 000	•	•	•	•	•	•								
	J1	1 139	1.30	1.50	8 000	•	•	•	•	•	•								
	H1	1 016	1.40	1.70	8 000	•	•	•	•	•	•								
	G1	907	1.60	1.90	8 000			•	•	•	•								
	F1	770	1.90	2.30	8 000			•	•	•	•								
	E1	641	2.30	2.70	8 000			•	•	•	•								
	D1	631	2.30	2.80	8 000	•	•	•	•	•	•								
	C1	563	2.60	3.10	8 000			•	•	•	•								
	B1	478	3.00	3.70	8 000			•	•	•	•								
	A1	398	3.60	4.40	8 000			•	•	•	•								

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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:

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm			rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.148	**W1**	336.11	4.3	5.2	8 000					•	•								
8 000	**V1**	301.34 ★	4.8	5.8	8 000					•	•	•							
	U1	276.23	5.2	6.3	8 000					•	•	•							
	T1	254.70 ★	5.7	6.9	8 000					•	•	•							
	S1	236.05	6.1	7.4	8 000					•	•	•							
	R1	224.43 ★	6.5	7.8	8 000					•	•	•	•						
	Q1	209.76	6.9	8.3	8 000					•	•	•	•						
	P1	185.03 ★	7.8	9.5	8 000					•	•	•	•	•	•				
	N1	174.53	8.3	10.0	8 000					•	•	•	•	•	•				
	M1	156.38 ★	9.3	11.2	8 000					•	•	•	•	•	•	•			
	L1	144.39	10.0	12.1	8 000					•	•	•	•	•	•	•			
	K1	123.37	11.8	14.2	8 000					•	•	•	•	•	•	•			
	J1	111.50 ★	13.0	15.7	8 000					•	•	•	•	•	•	•			
	H1	107.42	13.5	16.3	8 000						•	•	•	•	•	•			
	G1	92.91	15.6	18.8	8 000					•	•	•	•	•	•	•			
	F1	81.04 ★	17.9	22.0	8 000					•	•	•	•	•	•	•			
	E1	69.36 ★	21.0	25.0	8 000					•	•	•	•	•	•	•			
	D1	62.12	23.0	28.0	8 000							•	•	•	•	•			
	C1	52.61 ★	28.0	33.0	8 000							•	•	•	•	•			
	B1	45.44	32.0	39.0	8 000								•	•	•	•			
	A1	34.15 ★	42.0	51.0	8 000								•	•	•	•			
Z.148	**B2**	57.50	25	30	4 664							•							
3 850 … 8 000	**A2**	54.24 ★	27	32	8 000							•	•						
	X1	50.74	29	34	8 000							•	•						
	W1	45.11 ★	32	39	8 000							•	•	•	•				
	V1	42.59	34	41	8 000							•	•	•	•				
	U1	38.23 ★	38	46	8 000							•	•	•	•	•			
	T1	35.09	41	50	8 000							•	•	•	•	•			
	S1	30.28	48	58	8 000							•	•	•	•	•	•		
	R1	26.49	55	66	8 000							•	•	•	•	•	•		
	Q1	23.04	63	76	8 000							•	•	•	•	•	•	•	
	P1	20.21 ★	72	87	8 000							•	•	•	•	•	•	•	
	N1	17.09 ★	85	102	8 000							•	•	•	•	•	•	•	
	M1	15.51	93	113	8 000							•	•	•	•	•	•	•	
	L1	13.52 ★	107	129	8 000							•	•	•	•	•	•	•	
	K1	11.48	126	152	8 000								•	•	•	•	•	•	
	J1	8.79 ★	165	199	8 000								•	•	•	•	•	•	
	H1	8.64 ★	168	203	4 800							•	•	•	•	•	•	•	
	G1	7.84 ★	185	223	4 800							•	•	•	•	•	•	•	
	F1	7.57 ★	192	231	5 600								•	•	•	•	•	•	
	E1	6.84 ★	212	256	4 800							•	•	•	•	•	•	•	
	D1	6.43	226	272	5 400								•	•	•	•	•	•	
	C1	5.80 ★	250	302	4 200								•	•	•	•	•	•	
	B1	4.92 ★	295	356	5 050								•	•	•	•	•	•	
	A1	4.44 ★	327	394	3 850								•	•	•	•	•	•	

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

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}		n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm				rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.168-D48	**P1**	71 317	★	0.02	0.02	14 000	•	•	•											
14 000	**N1**	63 421		0.02	0.03	14 000	•	•	•											
	M1	55 016	★	0.03	0.03	14 000	•	•	•	•										
	L1	51 404		0.03	0.03	14 000	•	•	•	•										
	K1	45 210	★	0.03	0.04	14 000	•	•	•	•										
	J1	39 595		0.04	0.04	14 000	•	•	•	•	•									
	H1	35 022	★	0.04	0.05	14 000	•	•	•	•	•									
	G1	31 740		0.05	0.06	14 000	•	•	•	•	•									
	F1	28 017	★	0.05	0.06	14 000	•	•	•	•	•									
	E1	25 274		0.06	0.07	14 000	•	•	•	•	•									
	D1	22 923	★	0.06	0.08	14 000	•	•	•	•	•									
	C1	20 886		0.07	0.08	14 000	•	•	•	•	•									
	B1	19 103	★	0.08	0.09	14 000	•	•	•	•	•									
	A1	17 080		0.08	0.10	14 000	•	•	•	•	•									
D.168-Z48	**A2**	17 519		0.08	0.10	14 000	•	•	•											
14 000	**X1**	15 504	★	0.09	0.11	14 000	•	•	•	•										
	W1	14 094		0.10	0.12	14 000	•	•	•	•										
	V1	12 661	★	0.11	0.14	14 000	•	•	•	•										
	U1	10 853		0.13	0.16	14 000	•	•	•	•	•									
	T1	9 819	★	0.15	0.18	14 000	•	•	•	•	•	•								
	S1	9 064		0.16	0.19	14 000	•	•	•	•	•	•								
	R1	7 881	★	0.18	0.22	14 000	•	•	•	•	•	•								
	Q1	7 156		0.20	0.24	14 000	•	•	•	•	•	•								
	P1	6 534	★	0.22	0.27	14 000	•	•	•	•	•	•								
	N1	5 995		0.24	0.29	14 000	•	•	•	•	•	•								
	M1	5 523	★	0.26	0.32	14 000	•	•	•	•	•	•								
	L1	5 016		0.29	0.35	14 000	•	•	•	•	•	•								
	K1	4 569	★	0.32	0.38	14 000	•	•	•	•	•	•								
	J1	4 186		0.35	0.42	14 000	•	•	•	•	•	•								
	H1	3 735	★	0.39	0.47	14 000	•	•	•	•	•	•								
	G1	3 333		0.44	0.53	14 000			•	•	•	•								
	F1	2 831		0.51	0.62	14 000			•	•	•	•								
	E1	2 357	★	0.62	0.74	14 000			•	•	•	•								
	D1	2 319	★	0.63	0.75	14 000	•	•	•	•	•	•								
	C1	2 070		0.70	0.85	14 000			•	•	•	•								
	B1	1 758		0.82	1.00	14 000			•	•	•	•								
	A1	1 463	★	0.99	1.20	14 000			•	•	•	•								
D.168-Z68	**H1**	1 226		1.2	1.4	14 000			•	•	•	•	•							
14 000	**G1**	1 046		1.4	1.7	14 000			•	•	•	•	•							
	F1	871		1.7	2.0	14 000					•	•	•							
	E1	722		2.0	2.4	14 000					•	•	•							
	D1	637		2.3	2.7	14 000			•	•	•	•	•							
	C1	544		2.7	3.2	14 000			•	•	•	•	•							
	B1	453		3.2	3.9	14 000					•	•	•							
	A1	376		3.9	4.7	14 000					•	•	•							

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

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm			rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.168	**U1**	341.61 ★	4.2	5.1	14 000							•							
14000	**T1**	313.41	4.6	5.6	14 000							•							
	S1	289.23 ★	5.0	6.1	14 000							•							
	R1	268.29	5.4	6.5	14 000							•							
	Q1	253.08 ★	5.7	6.9	14 000							•	•						
	P1	236.72	6.1	7.4	14 000							•	•						
	N1	210.49 ★	6.9	8.3	14 000							•	•	•	•				
	M1	198.71	7.3	8.8	14 000							•	•	•	•				
	L1	178.38 ★	8.1	9.8	14 000							•	•	•	•	•			
	K1	163.72	8.9	10.7	14 000							•	•	•	•	•			
	J1	141.28	10.3	12.4	14 000							•	•	•	•	•			
	H1	123.59	11.7	14.2	14 000							•	•	•	•	•			
	G1	107.48	13.5	16.3	14 000							•	•	•	•	•			
	F1	94.30 ★	15.4	18.6	14 000							•	•	•	•	•			
	E1	79.75 ★	18.2	22.0	14 000							•	•	•	•	•			
	D1	72.36	20.0	24.0	14 000							•	•	•	•	•			
	C1	63.08 ★	23.0	28.0	14 000							•	•	•	•	•			
	B1	53.56	27.0	33.0	14 000								•	•	•	•			
	A1	40.99 ★	35.0	43.0	14 000								•	•	•	•			
Z.168	**V1**	46.61	31	38	10 100							•	•	•	•				
6 470 …	**U1**	42.09	34	42	14 000							•	•	•	•	•			
14 000	**T1**	39.45	37	44	14 000							•	•	•	•	•	•		
	S1	33.88 ★	43	52	14 000							•	•	•	•	•	•		
	Q1	29.27	50	60	14 000							•	•	•	•	•	•	•	
	P1	25.84	56	68	14 000							•	•	•	•	•	•	•	
	N1	23.26 ★	62	75	14 000							•	•	•	•	•	•	•	
	M1	19.30 ★	75	91	14 000							•	•	•	•	•	•	•	
	L1	17.60	82	99	13 826							•	•	•	•	•	•	•	
	K1	15.44 ★	94	113	13 486							•	•	•	•	•	•	•	
	J1	13.27	109	132	13 081							•	•	•	•	•	•	•	
	H1	10.34 ★	140	169	12 345								•	•	•	•	•	•	
	G1	9.26 ★	157	189	7 850							•	•	•	•	•	•	•	
	F1	8.21 ★	177	213	11 622									•	•	•	•	•	
	E1	7.20 ★	201	243	7 100								•	•	•	•	•	•	
	D1	6.20 ★	234	282	7 507								•	•	•	•	•	•	
	C1	5.61 ★	258	312	6 780								•	•	•	•	•	•	
	B1	4.93 ★	294	355	7 064									•	•	•	•	•	
	A1	4.46 ★	325	392	6 470									•	•	•	•	•	

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

$T_{2max} = T_1 \times i_{tot}$, 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.

Transmission ratios and maximum torques

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio		Output speed		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.						3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}		n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm				rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.188-D48	**P1**	50 901	★	0.03	0.03	20 000	•	•	•											
20 000	**N1**	45 266		0.03	0.04	20 000	•	•	•											
	M1	39 267	★	0.04	0.04	20 000	•	•	•	•										
	L1	36 689		0.04	0.05	20 000	•	•	•	•										
	K1	32 268	★	0.04	0.05	20 000	•	•	•	•										
	I1	28 260		0.05	0.06	20 000	•	•	•	•										
	H1	24 996	★	0.06	0.07	20 000	•	•	•	•	•									
	G1	22 654		0.06	0.08	20 000	•	•	•	•	•									
	F1	19 997	★	0.07	0.09	20 000	•	•	•	•	•									
	E1	18 039		0.08	0.10	20 000	•	•	•	•	•									
	D1	16 361	★	0.09	0.11	20 000	•	•	•	•	•									
	C1	14 907		0.10	0.12	20 000	•	•	•	•	•									
	B1	13 634	★	0.11	0.13	20 000	•	•	•	•	•									
	A1	12 191		0.12	0.14	20 000	•	•	•	•	•									
D.188-Z48	**X1**	12 504		0.12	0.14	20 000	•	•	•											
20 000	**W1**	11 066	★	0.13	0.16	20 000	•	•	•	•										
	V1	9 037	★	0.16	0.19	20 000	•	•	•	•										
	U1	7 746		0.19	0.23	20 000	•	•	•	•	•									
	T1	7 008	★	0.21	0.25	20 000	•	•	•	•	•	•								
	S1	6 469		0.22	0.27	20 000	•	•	•	•	•	•								
	R1	5 625	★	0.26	0.31	20 000	•	•	•	•	•	•								
	Q1	5 107		0.28	0.34	20 000	•	•	•	•	•	•								
	P1	4 663	★	0.31	0.38	20 000	•	•	•	•	•	•								
	N1	4 279		0.34	0.41	20 000	•	•	•	•	•	•								
	M1	3 942	★	0.37	0.44	20 000	•	•	•	•	•	•								
	L1	3 580		0.41	0.49	20 000	•	•	•	•	•	•								
	K1	3 261	★	0.44	0.54	20 000	•	•	•	•	•	•								
	J1	2 988		0.49	0.59	20 000	•	•	•	•	•	•								
	H1	2 666	★	0.54	0.66	20 000	•	•	•	•	•	•								
	G1	2 379		0.61	0.74	20 000			•	•	•	•								
	F1	2 021		0.72	0.87	20 000			•	•	•	•								
	E1	1 682	★	0.86	1.00	20 000			•	•	•	•								
	D1	1 655	★	0.88	1.10	20 000	•	•	•	•	•	•								
	C1	1 477		0.98	1.20	20 000			•	•	•	•								
	B1	1 255		1.20	1.40	20 000			•	•	•	•								
	A1	1 044	★	1.40	1.70	20 000			•	•	•	•								
D.188-Z68	**G1**	896	★	1.6	2.0	20 000			•	•	•	•	•							
20 000	**F1**	746		1.9	2.3	20 000					•	•	•							
	E1	619	★	2.3	2.8	20 000					•	•	•							
	D1	546		2.7	3.2	20 000			•	•	•	•	•							
	C1	466	★	3.1	3.8	20 000			•	•	•	•	•							
	B1	388		3.7	4.5	20 000					•	•	•							
	A1	322	★	4.5	5.4	20 000					•	•	•							

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

$T_{2max} = T_1 \times i_{tot}$, 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.

Selection and ordering data (continued)

Gearbox size	Ratio code	Transmission ratio	Output speed		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.					3	3	5	10	20	26	61	98	198	198	291	356	580	1290
	15th and 16th position	i_{tot}	n_2 (50 Hz)	n_2 (60 Hz)	T_{2N} (f_B=1)	Motor size													
Nm			rpm	rpm	Nm	63	71	80	90	100	112	132	160	180	200	225	250	280	315
D.188	**N1**	243.82	5.9	7.2	20 000					•	•	•	•						
20 000	**M1**	220.17	6.6	7.9	20 000					•	•	•	•	•					
	L1	206.34	7.0	8.5	20 000					•	•	•	•	•	•				
	K1	177.23 ★	8.2	9.9	20 000					•	•	•	•	•	•				
	J1	153.12	9.5	11.4	20 000					•	•	•	•	•	•	•			
	H1	135.16	10.7	13.0	20 000					•	•	•	•	•	•	•			
	G1	121.67 ★	11.9	14.4	20 000					•	•	•	•	•	•	•			
	F1	100.96 ★	14.4	17.3	20 000					•	•	•	•	•	•	•			
	E1	92.06	15.8	19.0	20 000					•	•	•	•	•	•	•			
	D1	80.77 ★	18.0	22.0	20 000					•	•	•	•	•	•	•			
	C1	69.41	21.0	25.0	20 000					•	•	•	•	•	•	•			
	B1	54.06 ★	27.0	32.0	20 000					•	•	•	•	•	•	•			
	A1	42.95 ★	34.0	41.0	20 000					•	•	•	•	•	•	•			
Z.188	**P1**	52.35	28	33	15 710								•	•	•	•			
13 040 …	**N1**	48.22	30	36	15 920								•	•	•	•	•		
20 000	**M1**	41.85 ★	35	42	16 110								•	•	•	•	•		
	L1	36.89	39	47	16 600								•	•	•	•	•	•	
	K1	32.37	45	54	18 450								•	•	•	•	•	•	
	J1	29.18 ★	50	60	20 000								•	•	•	•	•	•	
	H1	24.77 ★	59	71	20 000								•	•	•	•	•	•	
	G1	23.01	63	76	20 000								•	•	•	•	•	•	
	F1	19.76 ★	73	89	20 000								•	•	•	•	•	•	
	E1	16.86	86	104	20 000								•	•	•	•	•	•	•
	D1	13.28 ★	109	132	18 820								•	•	•	•	•	•	•
	C1	10.69 ★	136	164	16 170									•	•	•	•	•	•
	B1	9.29	156	188	14 310											•	•	•	•
	A1	✘✓	175	211	13 040												•	•	•

★ Preferred transmission ratio

[1] Only possible with integrated adapter.

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

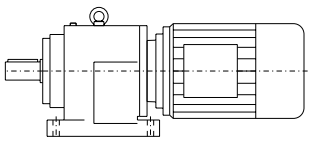
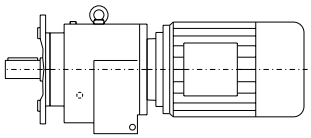
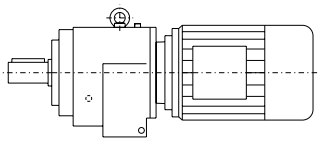
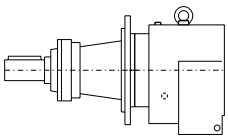
Calculation of maximum output torque T_{2max} for gearboxes with input units:

$T_{2max} = T_1 \times i_{tot}$, 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.

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 to the gearbox housing.

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.

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

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								

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.

1-stage helical gearbox, foot-mounted design

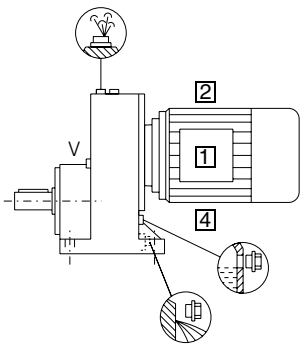
Oil control valves:

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

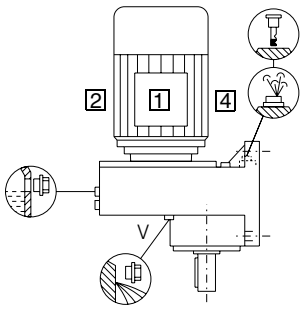
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

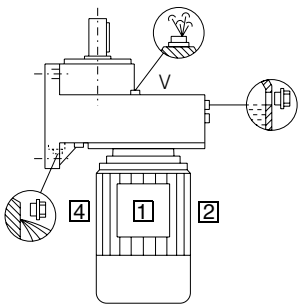
B3 (IM B3) 1)
Order code: **D04**



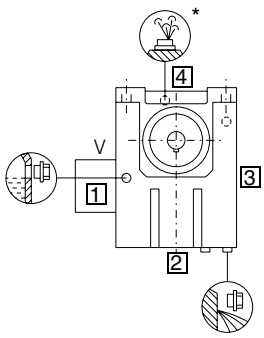
V5 (IM V5)
Order code: **E02**



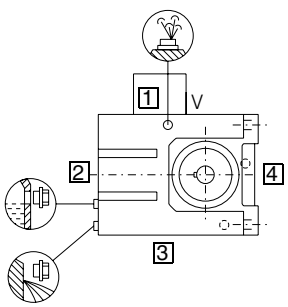
V6 (IM V6)
Order code: **E14**



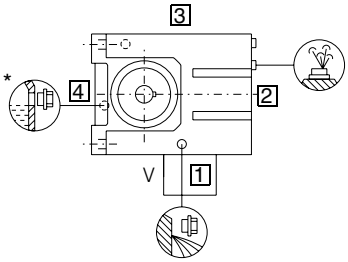
B8 (IM B8)
Order code: **D66**



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



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



Mounting types and mounting positions

Selection and ordering data (continued)

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

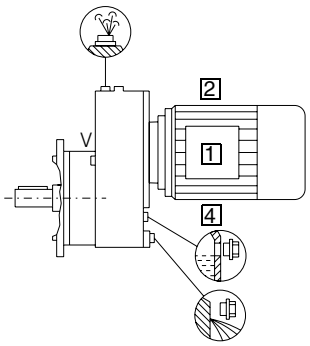
Oil control valves:

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

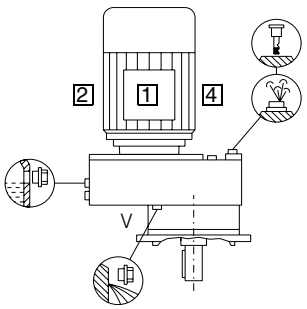
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

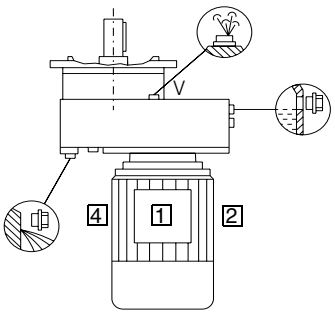
EF: B5 (IM B5) 1)
Order code: **D16**
EZ: B14 (IM B14)
Order code: **D00**



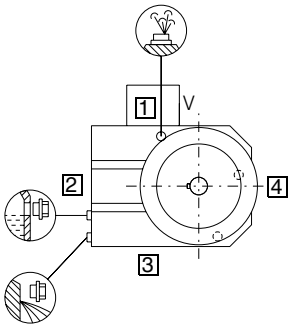
EF: V1 (IM V1)
Order code: **D88**
EZ: V18 (IM V18)
Order code: **D94**



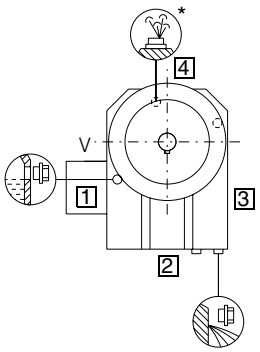
EF: V3 (IM V3)
Order code: **D96**
EZ: V19 (IM V19)
Order code: **D95**



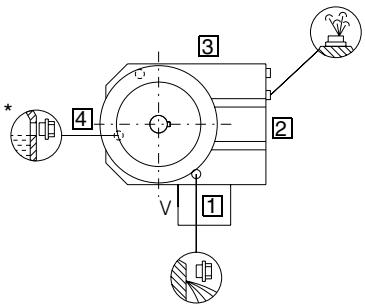
EF: B5-02 (IM B5-02)
Order code: **D26**
EZ: B14-02 (IM B14-02)
Order code: **D02**



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:

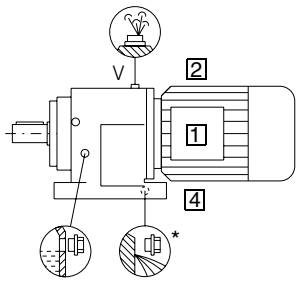
- Size 18/28: These types are lubricated for life. No ventilation, oil level, or drain plugs are present.
- Size 38: V oil inlet
- From size 48 up: Oil level, Ventilation, Oil drain, * On opposite side

② 2-stage gearbox ③ 3-stage gearbox

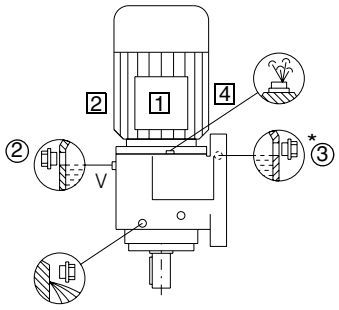
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

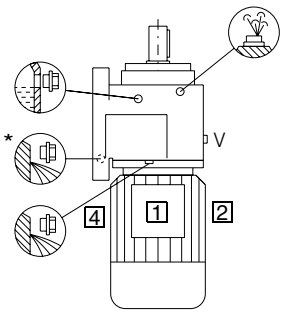
B3 (IM B3) 1)
Order code: **D04**



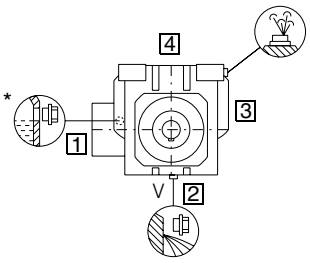
V5 (IM V5)
Order code: **E02**



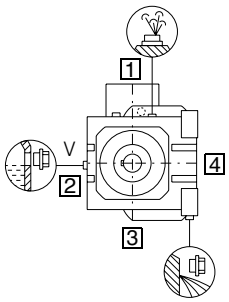
V6 (IM V6)
Order code: **E14**



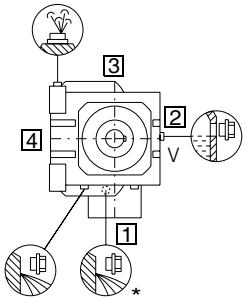
B8 (IM B8)
Order code: **D66**



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



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



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:

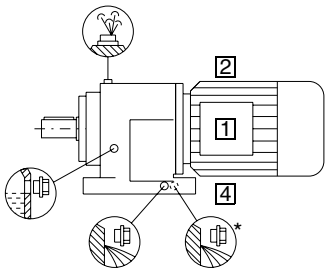
Oil level Ventilation Oil drain * On opposite side

② 2-stage gearbox ③ 3-stage gearbox

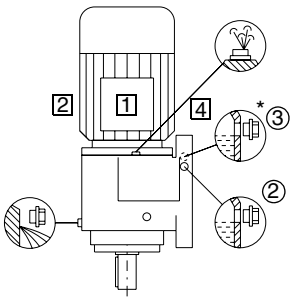
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

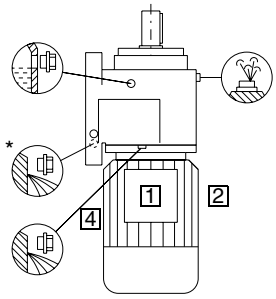
B3 (IM B3) 1)
Order code: **D04**



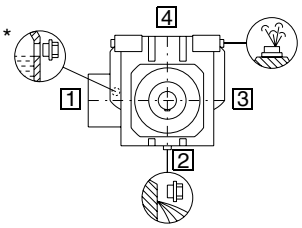
V5 (IM V5)
Order code: **E02**



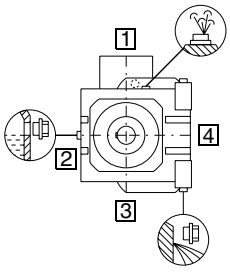
V6 (IM V6)
Order code: **E14**



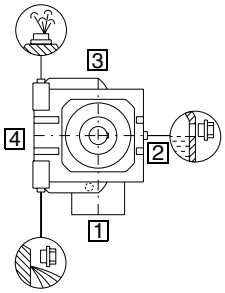
B8 (IM B8)
Order code: **D66**



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:

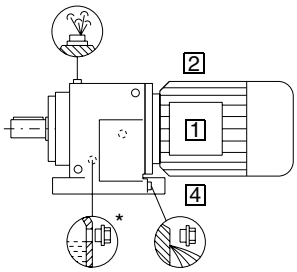
Oil level Ventilation Oil drain * On opposite side

② 2-stage gearbox ③ 3-stage gearbox ④ Tandem gearbox

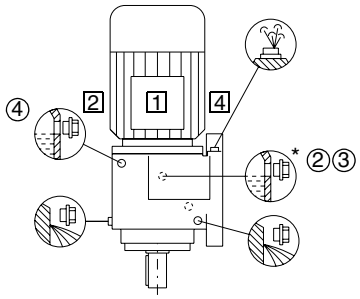
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

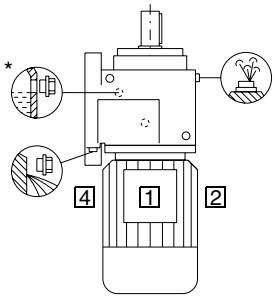
B3 (IM B3) 1)
Order code: **D04**



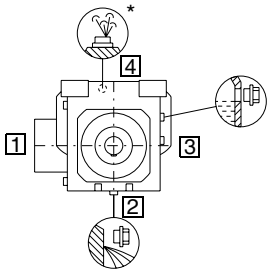
V5 (IM V5)
Order code: **E02**



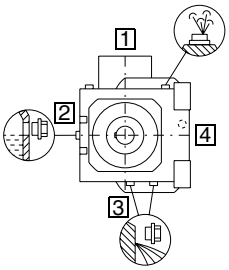
V6 (IM V6)
Order code: **E14**



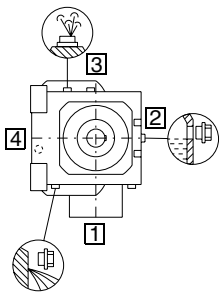
B8 (IM B8)
Order code: **D66**



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



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



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

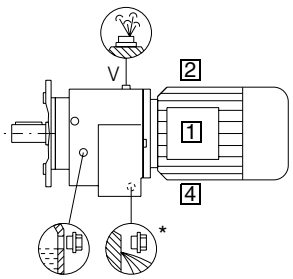
Oil control valves:

- 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

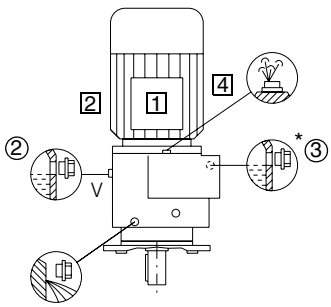
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

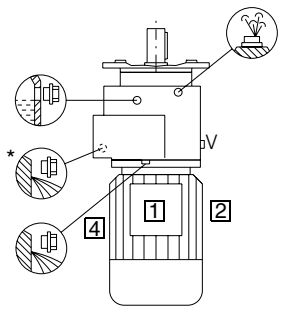
DF/ZF: B5 (IM B5) 1)
Order code: **D16**
DZ/ZZ: B14 (IM B14)
Order code: **D00**



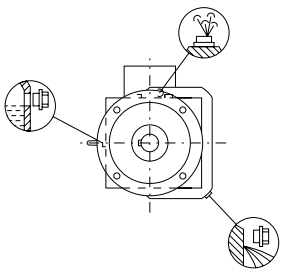
DF/ZF: V1 (IM V1)
Order code: **D88**
DZ/ZZ: V18 (IM V18)
Order code: **D94**



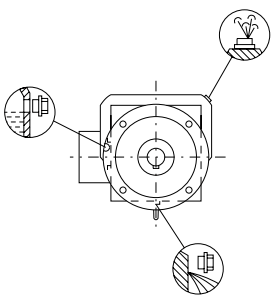
DF/ZF: V3 (IM V3)
Order code: **D96**
DZ/ZZ: V19 (IM V19)
Order code: **D95**



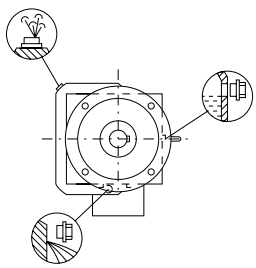
DF/ZF: B5-02 (IM B5-02)
Order code: **D26**
DZ/ZZ: B14-02 (IM B14-02)
Order code: **D02**



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**



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

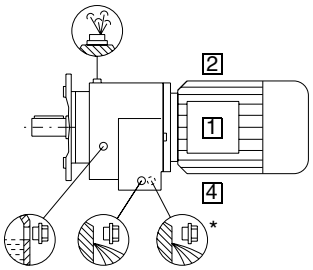
② 2-stage gearbox ③ 3-stage gearbox

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

1) Standard mounting type

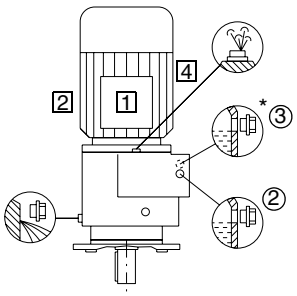
DF/ZF: B5 (IM B5) 1)
Order code: **D16**

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



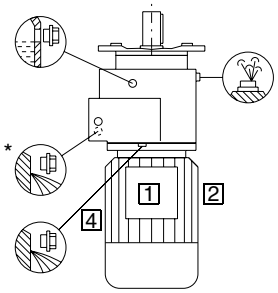
DF/ZF: V1 (IM V1)
Order code: **D88**

DZ/ZZ: V18 (IM V18)
Order code: **D94**



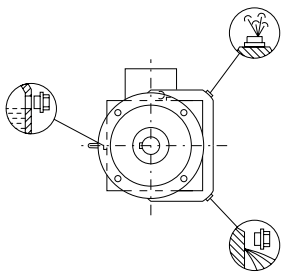
DF/ZF: V3 (IM V3)
Order code: **D96**

DZ/ZZ: V19 (IM V19)
Order code: **D95**



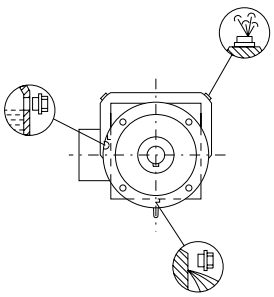
DF/ZF: B5-02 (IM B5-02)
Order code: **D26**

DZ/ZZ: B14-02 (IM B14-02)
Order code: **D02**



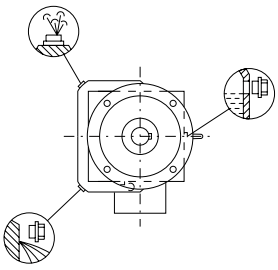
DF/ZF: B5-03 (IM B5-03)
Order code: **D31**

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**



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:

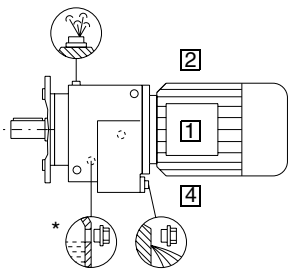
Oil level | Ventilation | Oil drain | * On opposite side

② 2-stage gearbox | ③ 3-stage gearbox | ④ Tandem gearbox

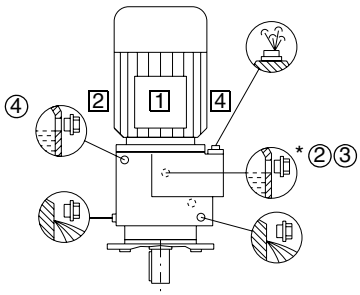
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

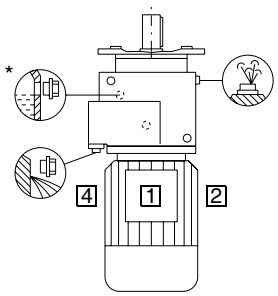
DF/ZF: B5 (IM B5) 1)
Order code: **D16**
DZ/ZZ: B14 (IM B14) 1)
Order code: **D00**



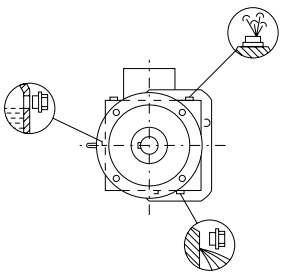
DF/ZF: V1 (IM V1)
Order code: **D88**
DZ/ZZ: V18 (IM V18)
Order code: **D94**



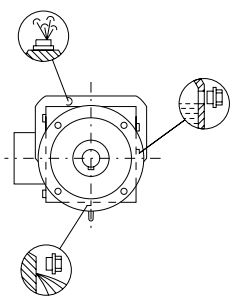
DF/ZF: V3 (IM V3)
Order code: **D96**
DZ/ZZ: V19 (IM V19)
Order code: **D95**



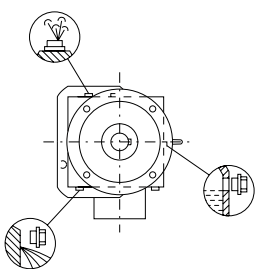
DF/ZF: B5-02 (IM B5-02)
Order code: **D26**
DZ/ZZ: B14-02 (IM B14-02)
Order code: **D02**



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:

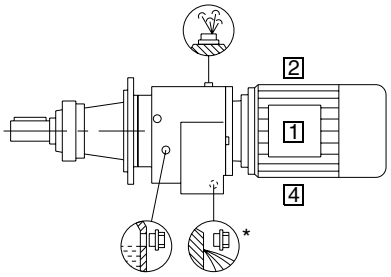
Oil level Ventilation Oil drain * On opposite side

② 2-stage gearbox ③ 3-stage gearbox

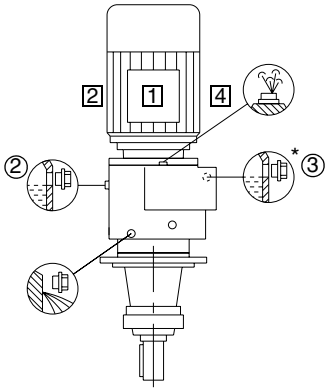
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

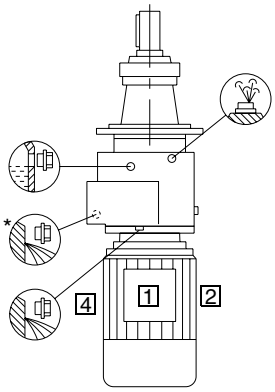
DR/ZR: B5 (IM B5) 1)
Order code: **D16**



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



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



2

Selection and ordering data (continued)

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

Oil control valves:

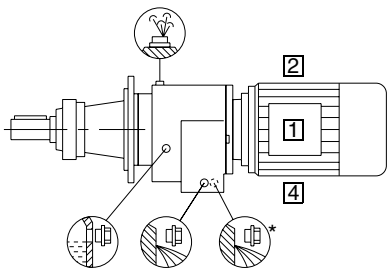
Oil level Ventilation Oil drain * On opposite side

② 2-stage gearbox ③ 3-stage gearbox

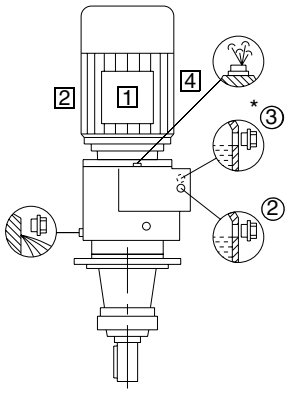
1 ... 4 Position of the terminal box, see Chapter 8

1) Standard mounting type

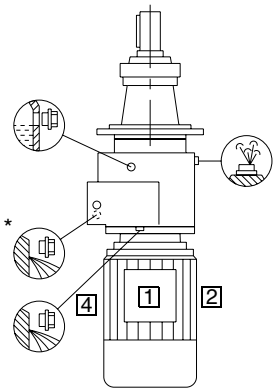
DR/ZR: B5 (IM B5) 1)
Order code: **D16**



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.

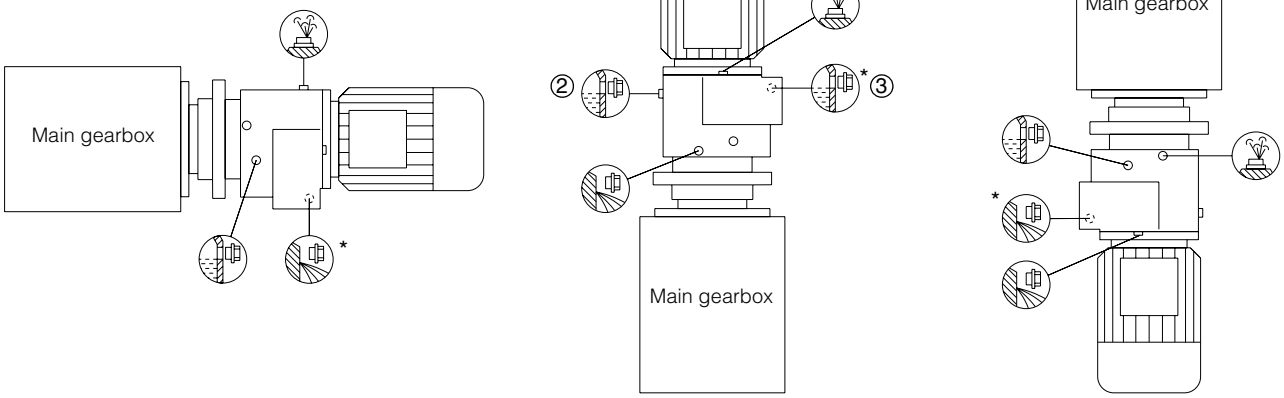
Note:

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



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.

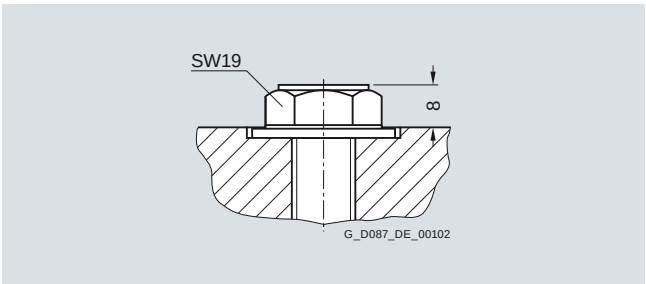
Gearboxes of sizes 48 to 188 are fitted with filler, oil level, and drain plugs as standard. The ventilation and vent filter, which is delivered loose, must be attached in place of the filler plug prior to startup.

Oil level control

Oil sight glass

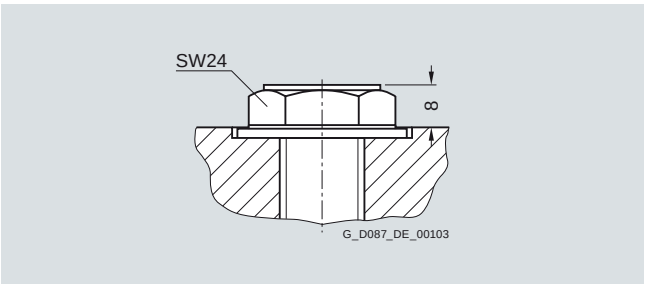
For size 48 and above, gearboxes can beequipped with a visual oil level indicator (oil sight glass) for most mounting types and mounting positions.

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

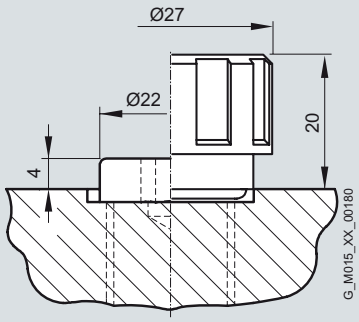
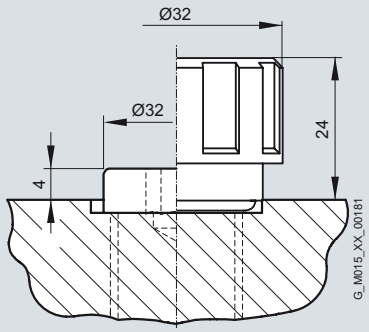
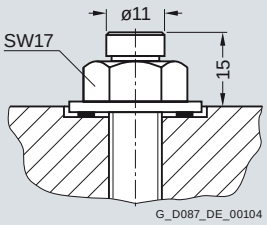
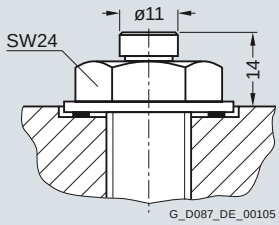
Electrical oil level monitoring system

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 Order code: **G44**		
Pressure ventilation valve Order code: **G45**		

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**

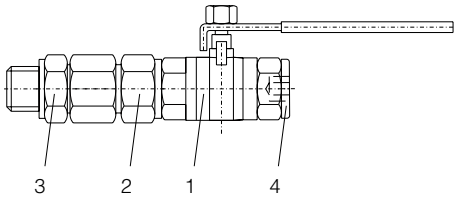
Oil drain valve

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

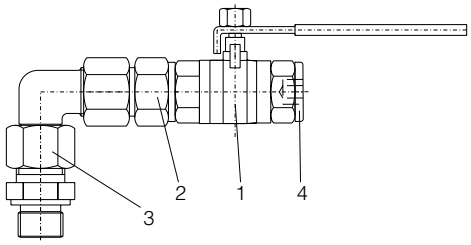
The oil drain valve may be designed as a complete unit featuring a screw plug, depending on the corresponding mounting position.

Order code:
Oil drain valve, straight **G54**

An angled oil drain valve is also available on request.



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

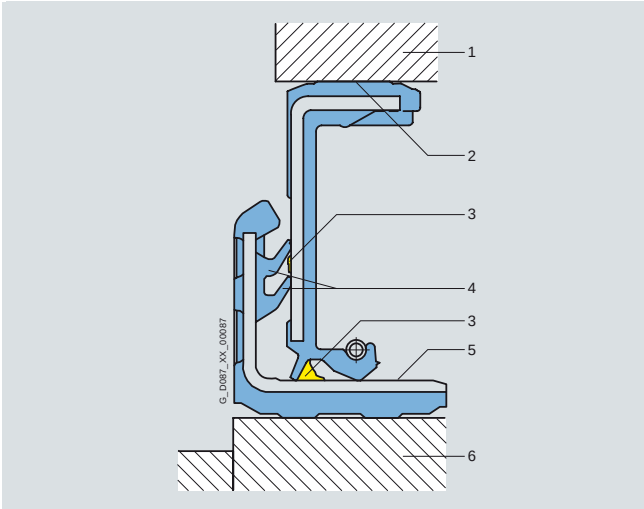


Item 3 Screwed connection GE
Item 2 Screwed connection EGE
Item 1 Oil drain valve
Item 4 Screw plug

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.



1 • Housing

2 • Rubberized inner and outer diameter

3 • Grease filling prevents dry running of the sealing lips

4 • Additional sealing lips to protect against dirt
• Decoupled sealing system prevents scoring of the shaft as a result of corrosion or dirt

5 • Protected running surface for radial shaft sealing ring
• No damage when mounting

6 • Shaft

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

Order code:

Combination shaft sealing **G24**

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.

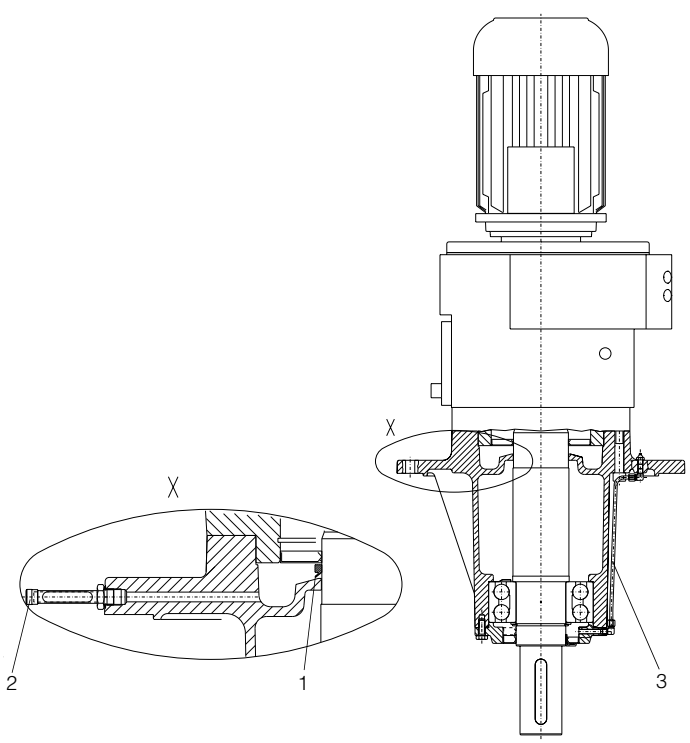
Order code:
Axially reinforced output shaft bearing **G21**

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 leakages.

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**

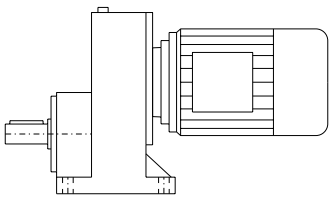
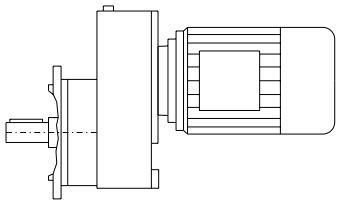
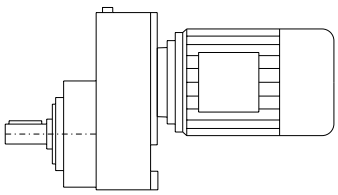
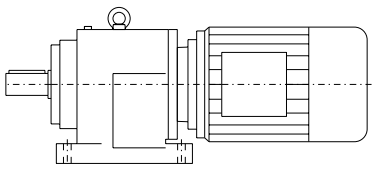
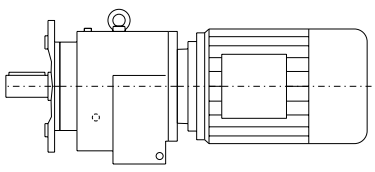


Regreasing device for the agitator flange (3)

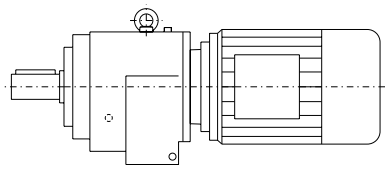
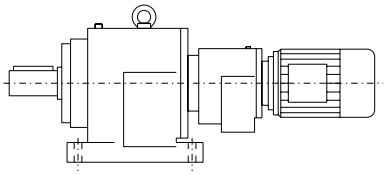
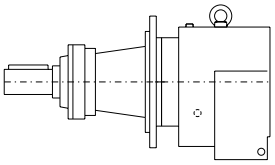
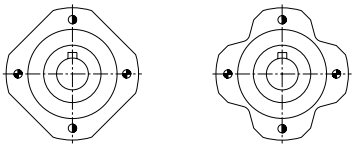
The agitator flange gearbox can be fitted with a regreasing device on request.

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

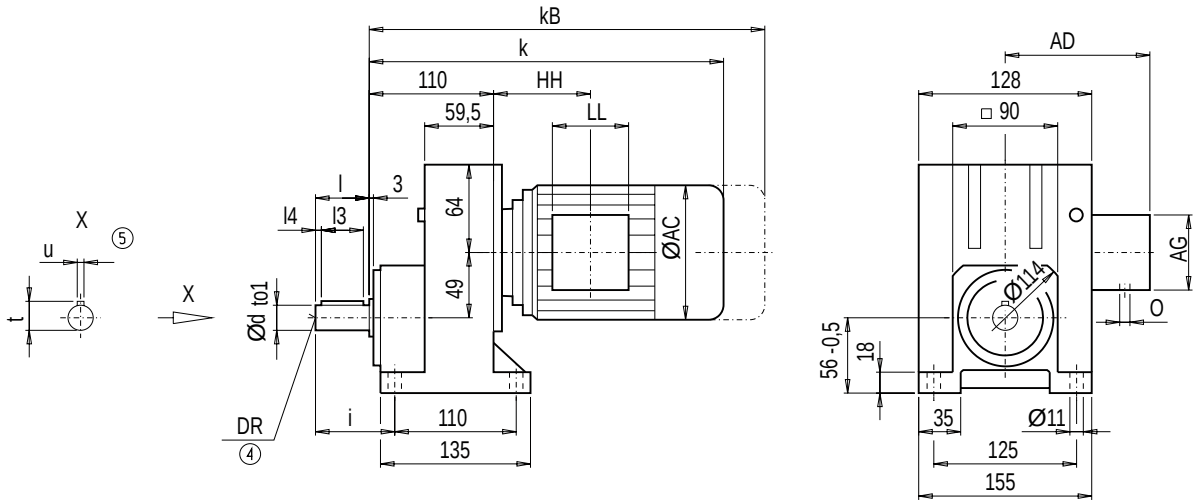
Dimension drawing overview (continued)

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

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

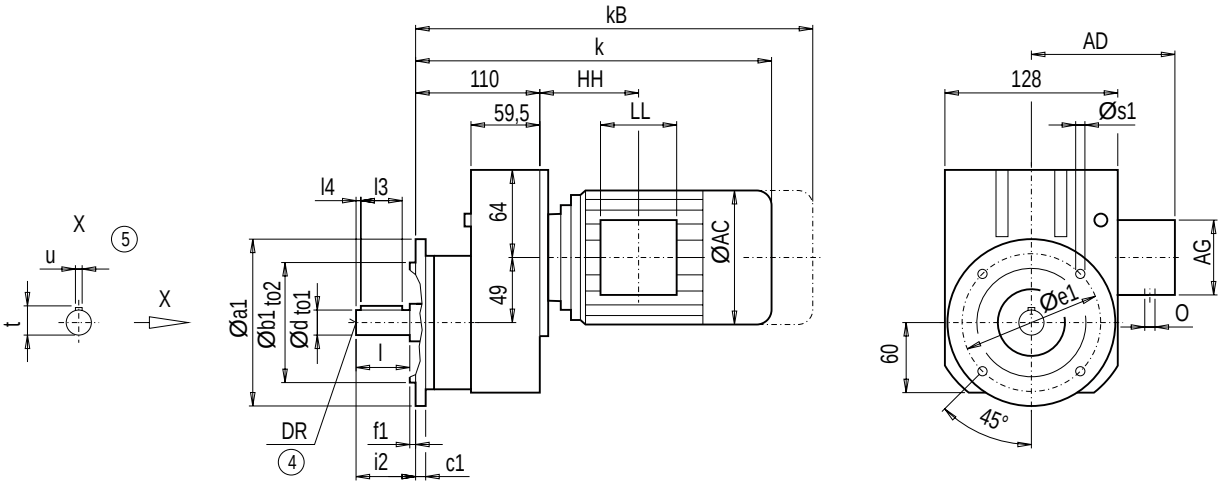
	E38								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**E38**
LA71	368.5	423.5	139.0	146	90	90	114.5	M20x1.5/M25x1.5	12
LA71Z	387.5	442.5	139.0	146	90	90	114.5	M20x1.5/M25x1.5	12
LA80	405.5	469.0	156.5	155	90	90	114.0	M20x1.5/M25x1.5	16
LA90S	436.5	507.5	174.0	163	90	90	114.0	M20x1.5/M25x1.5	21
LA90L	436.5	507.5	174.0	163	90	90	114.0	M20x1.5/M25x1.5	21
LA100L	482.5	563.5	195.0	168	120	120	154.5	2xM32x1.5	30
LA112M	512.5	593.5	219.0	181	120	120	160.5	2xM32x1.5	41

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
LA90S	436.5	507.5	174.0	163	90	90	114.0	M20x1.5/M25x1.5	24
LA90L	436.5	507.5	174.0	163	90	90	114.0	M20x1.5/M25x1.5	24
LA100L	482.5	563.5	195.0	168	120	120	154.5	2xM32x1.5	33
LA112M	512.5	593.5	219.0	181	120	120	160.5	2xM32x1.5	43

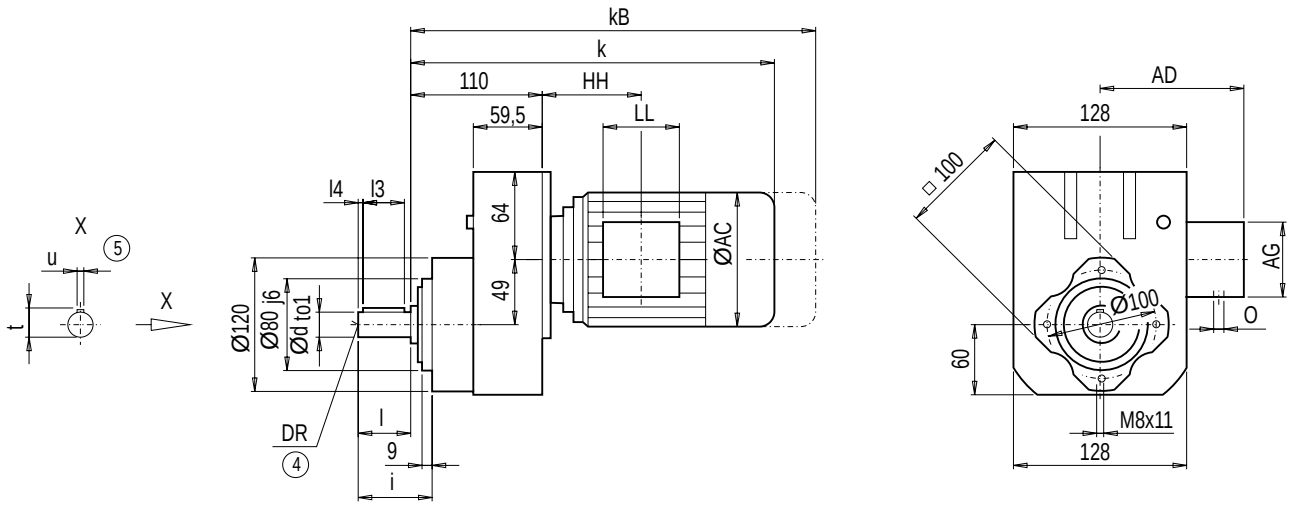
④ DIN 332

⑤ Feather key / keyway DIN 6885

Dimensions

Gearbox EZ38 (1-stage), housing-flange-mounted design (C-type)

EZ011



d	to1	l	l4	l3	t	u	i	DR
20 *)	k6	40	5	30	22.5	6	53	M6x16
25	k6	50	7	40	28.0	8	63	M10x22

*) Preferred series

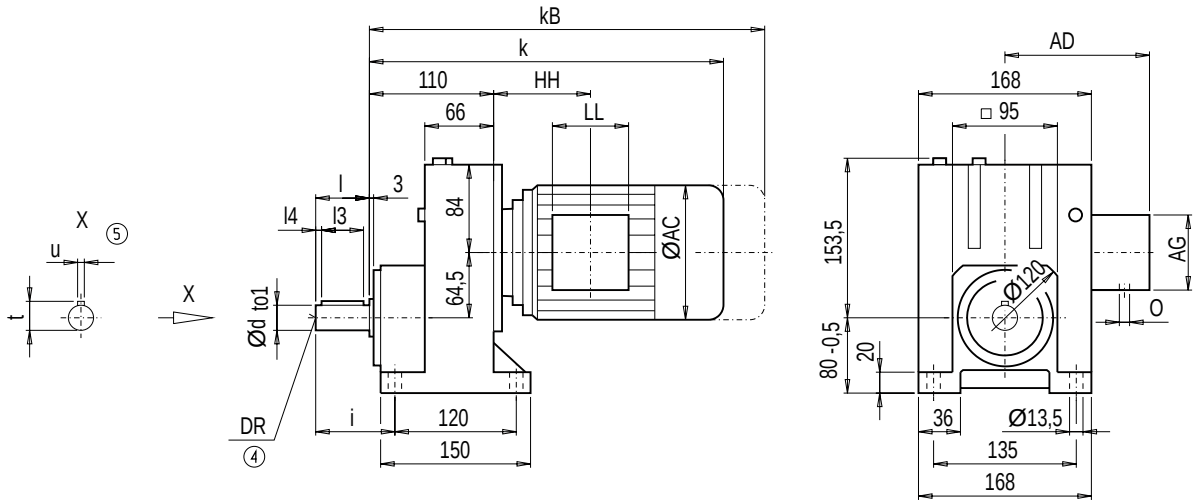
	EZ38								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**EZ38**
LA71	368.5	423.5	139.0	146	90	90	114.5	M20x1.5/M25x1.5	11
LA71Z	387.5	442.5	139.0	146	90	90	114.5	M20x1.5/M25x1.5	11
LA80	405.5	469.0	156.5	155	90	90	114.0	M20x1.5/M25x1.5	16
LA90S	436.5	507.5	174.0	163	90	90	114.0	M20x1.5/M25x1.5	20
LA90L	436.5	507.5	174.0	163	90	90	114.0	M20x1.5/M25x1.5	20
LA100L	482.5	563.5	195.0	168	120	120	154.5	2xM32x1.5	29
LA112M	512.5	593.5	219.0	181	120	120	160.5	2xM32x1.5	40

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
LA90S	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	25
LA90L	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	25
LA100L	477.0	558.0	195.0	168	120	120	149.0	2xM32x1.5	34
LA112M	506.0	587.0	219.0	181	120	120	154.0	2xM32x1.5	45
LA132S	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	55
LA132M	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	55
LA132ZM	614.5	716.5	259.0	195	140	140	197.0	2xM32x1.5	64

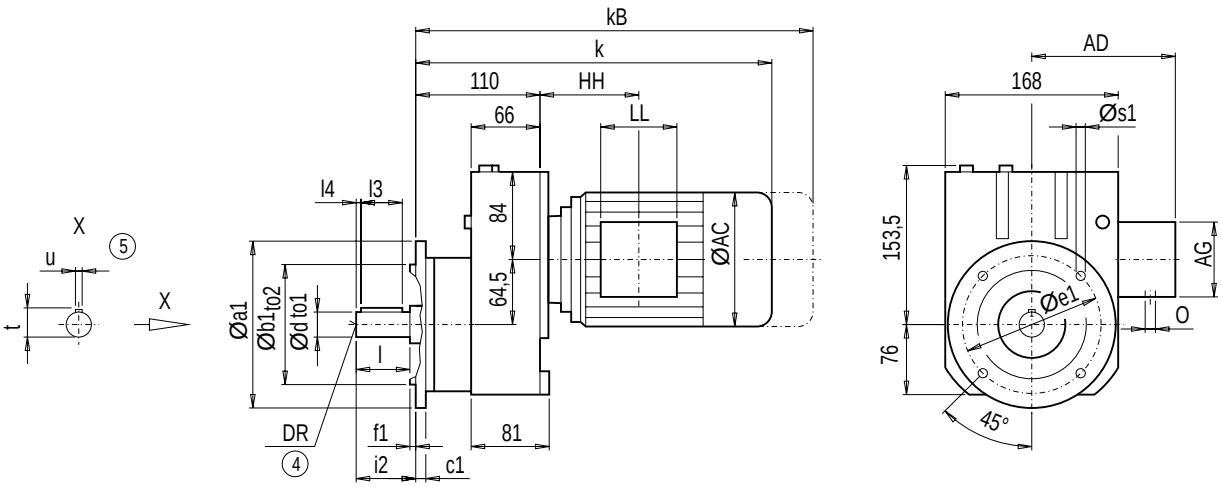
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

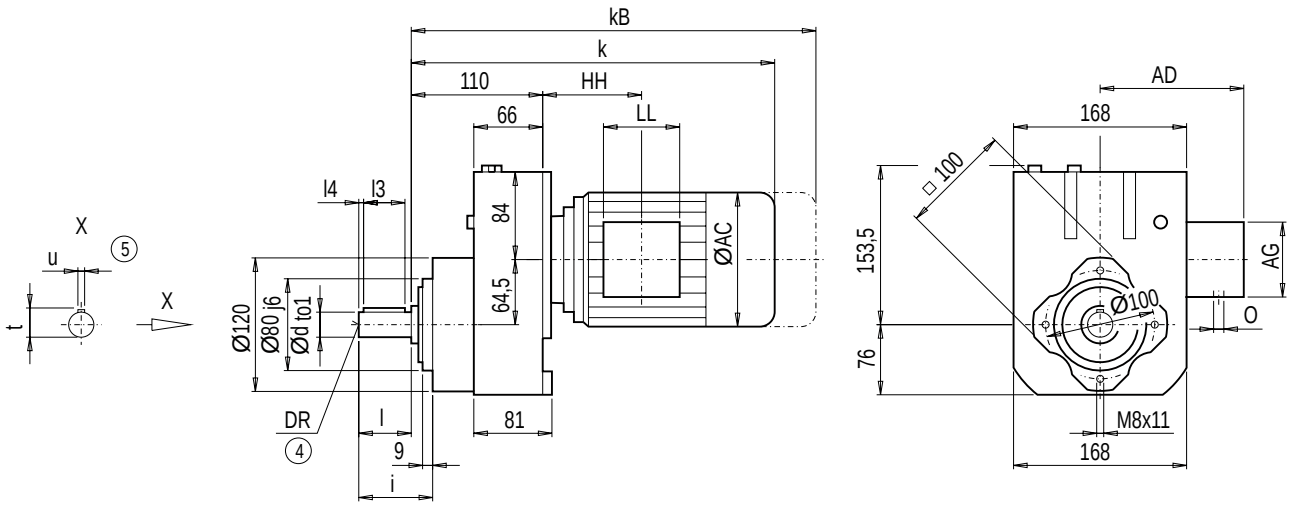
	EF48								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**EF48**
LA71	363.0	418.0	139.0	146	90	90	109.0	M20x1.5/M25x1.5	17
LA71Z	382.0	437.0	139.0	146	90	90	109.0	M20x1.5/M25x1.5	17
LA80	400.0	463.5	156.5	155	90	90	108.5	M20x1.5/M25x1.5	22
LA90S	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	27
LA90L	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	27
LA100L	477.0	558.0	195.0	168	120	120	149.0	2xM32x1.5	36
LA112M	506.0	587.0	219.0	181	120	120	154.0	2xM32x1.5	47
LA132S	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	57
LA132M	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	57
LA132ZM	614.5	716.5	259.0	195	140	140	197.0	2xM32x1.5	66

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

	EZ48								Weight
Motor	**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
LA90S	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	23
LA90L	431.0	502.0	174.0	163	90	90	108.5	M20x1.5/M25x1.5	23
LA100L	477.0	558.0	195.0	168	120	120	149.0	2xM32x1.5	33
LA112M	506.0	587.0	219.0	181	120	120	154.0	2xM32x1.5	44
LA132S	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	54
LA132M	568.5	670.5	259.0	195	140	140	197.0	2xM32x1.5	54
LA132ZM	614.5	716.5	259.0	195	140	140	197.0	2xM32x1.5	63

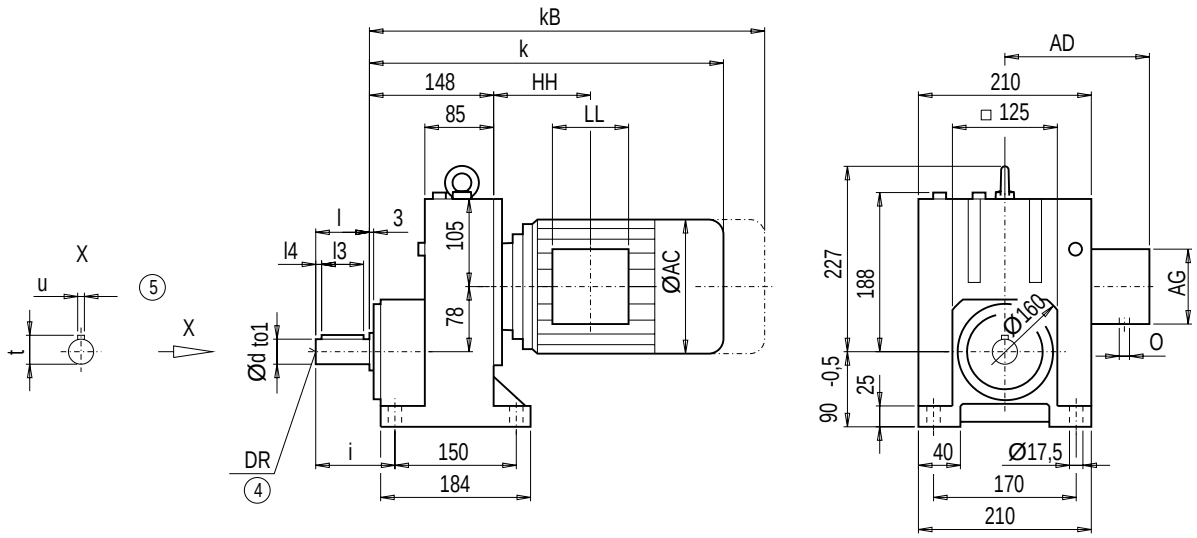
④ DIN 332

⑤ Feather key / keyway DIN 6885

Dimensions

Gearbox E68 (1-stage), foot-mounted design

E011



d	to1	l	l4	l3	t	u	i	DR
30 *)	k6	60	3.5	50	33	8	85	M10x22
40	k6	80	5	70	43	12	105	M16x36

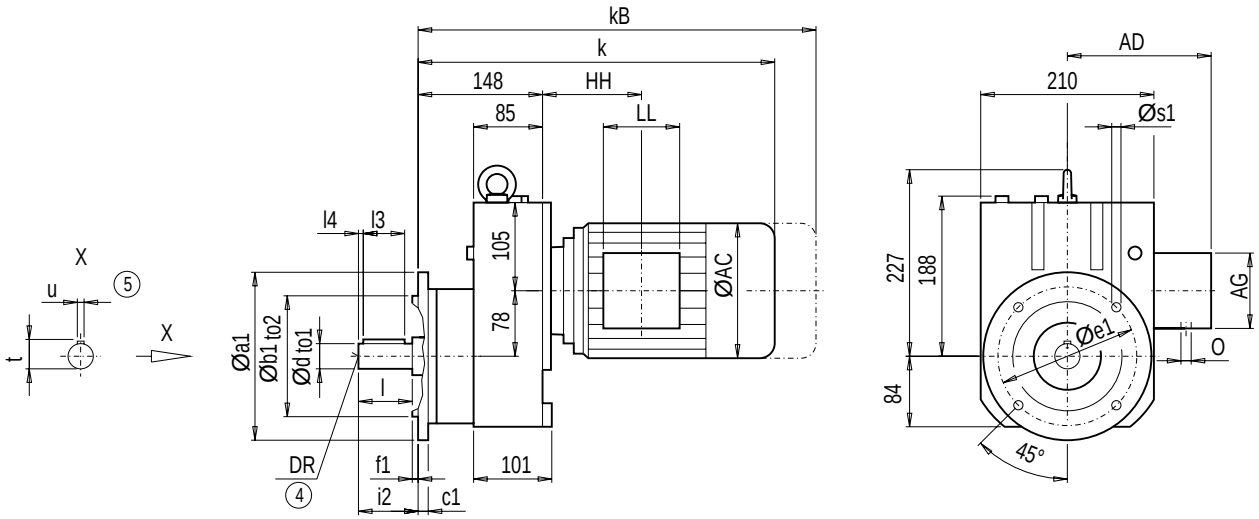
*) Preferred series

	E68								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**E68**
LA71	395	450.0	139.0	146	90	90	103.0	M20x1.5/M25x1.5	25
LA71Z	414	469.0	139.0	146	90	90	103.0	M20x1.5/M25x1.5	25
LA80	432	495.5	156.5	155	90	90	102.5	M20x1.5/M25x1.5	30
LA90S	463	534.0	174.0	163	90	90	102.5	M20x1.5/M25x1.5	34
LA90L	463	534.0	174.0	163	90	90	102.5	M20x1.5/M25x1.5	34
LA100L	509	590.0	195.0	168	120	120	143.0	2xM32x1.5	44
LA112M	536	617.0	219.0	181	120	120	146.0	2xM32x1.5	55
LA132S	596	698.0	259.0	195	140	140	186.5	2xM32x1.5	68
LA132M	596	698.0	259.0	195	140	140	186.5	2xM32x1.5	68
LA132ZM	642	744.0	259.0	195	140	140	186.5	2xM32x1.5	77
LA160M	699	817.5	313.5	227	165	165	212.5	2xM40x1.5	101
LA160L	699	817.5	313.5	227	165	165	212.5	2xM40x1.5	101

④ DIN 332 ⑤ Feather key / keyway DIN 6885

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	450.0	139.0	146	90	90	103.0	M20x1.5/M25x1.5	27
LA71Z	414	469.0	139.0	146	90	90	103.0	M20x1.5/M25x1.5	27
LA80	432	495.5	156.5	155	90	90	102.5	M20x1.5/M25x1.5	32
LA90S	463	534.0	174.0	163	90	90	102.5	M20x1.5/M25x1.5	36
LA90L	463	534.0	174.0	163	90	90	102.5	M20x1.5/M25x1.5	36
LA100L	509	590.0	195.0	168	120	120	143.0	2xM32x1.5	46
LA112M	536	617.0	219.0	181	120	120	146.0	2xM32x1.5	57
LA132S	596	698.0	259.0	195	140	140	186.5	2xM32x1.5	70
LA132M	596	698.0	259.0	195	140	140	186.5	2xM32x1.5	70
LA132ZM	642	744.0	259.0	195	140	140	186.5	2xM32x1.5	79
LA160M	699	817.5	313.5	227	165	165	212.5	2xM40x1.5	103
LA160L	699	817.5	313.5	227	165	165	212.5	2xM40x1.5	103

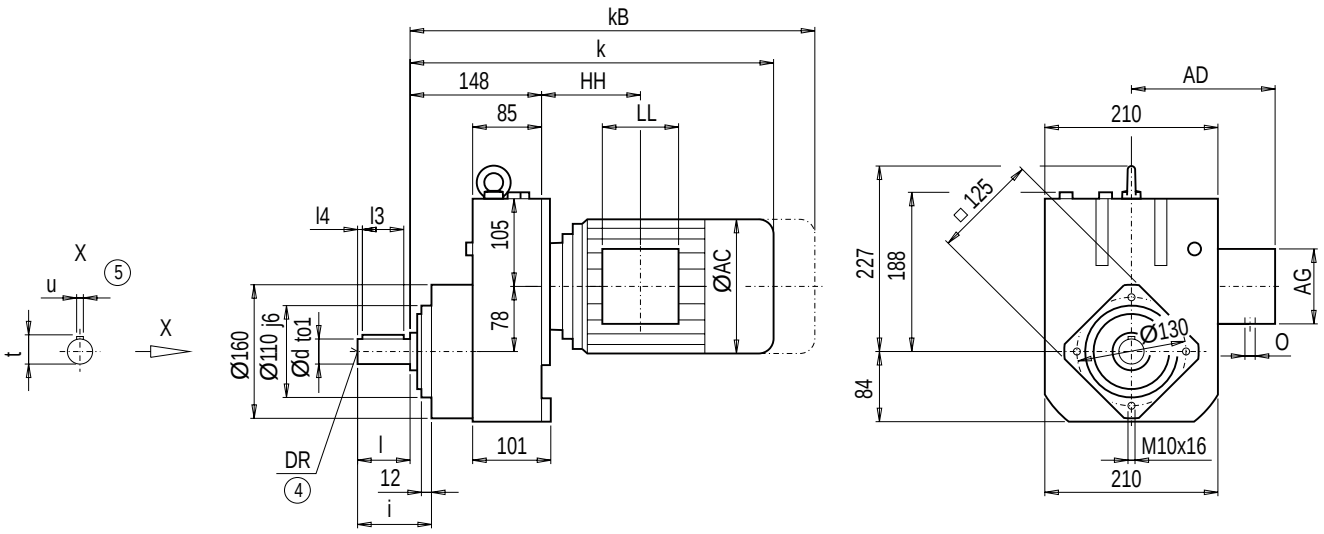
④ DIN 332

⑤ Feather key / keyway DIN 6885

Dimensions

Gearbox EZ68 (1-stage), housing-flange-mounted design (C-type)

EZ011



d	to1	l	l4	l3	t	u	i	DR
30 *)	k6	60	3.5	50	33	8	77	M10x22
40	k6	80	5	70	43	12	97	M16x36

*) Preferred series

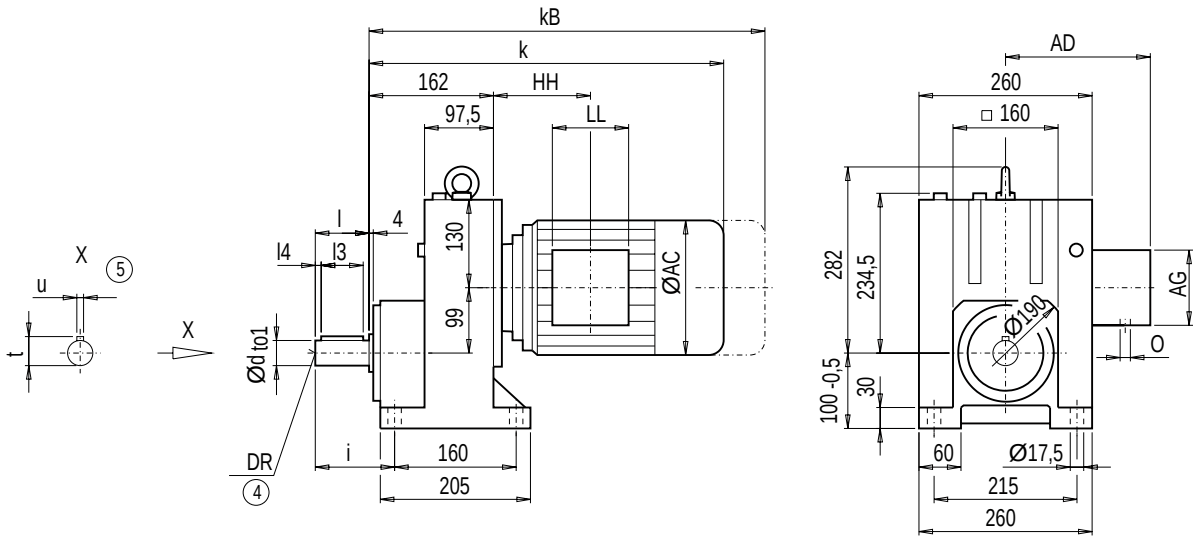
	EZ68								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**EZ68**
LA71	395	450.0	139.0	146	90	90	103.0	M20x1.5/M25x1.5	22
LA71Z	414	469.0	139.0	146	90	90	103.0	M20x1.5/M25x1.5	22
LA80	432	495.5	156.5	155	90	90	102.5	M20x1.5/M25x1.5	27
LA90S	463	534.0	174.0	163	90	90	102.5	M20x1.5/M25x1.5	32
LA90L	463	534.0	174.0	163	90	90	102.5	M20x1.5/M25x1.5	32
LA100L	509	590.0	195.0	168	120	120	143.0	2xM32x1.5	41
LA112M	536	617.0	219.0	181	120	120	146.0	2xM32x1.5	53
LA132S	596	698.0	259.0	195	140	140	186.5	2xM32x1.5	66
LA132M	596	698.0	259.0	195	140	140	186.5	2xM32x1.5	66
LA132ZM	642	744.0	259.0	195	140	140	186.5	2xM32x1.5	75
LA160M	699	817.5	313.5	227	165	165	212.5	2xM40x1.5	99
LA160L	699	817.5	313.5	227	165	165	212.5	2xM40x1.5	99

④ DIN 332

⑤ Feather key / keyway DIN 6885

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	462.0	533.0	174.0	163.0	90	90	87.5	M20x1.5/M25x1.5	52
LA90L	462.0	533.0	174.0	163.0	90	90	87.5	M20x1.5/M25x1.5	52
LA100L	505.5	586.5	195.0	168.0	120	120	125.5	2xM32x1.5	60
LA112M	531.5	612.5	219.0	181.0	120	120	127.5	2xM32x1.5	72
LA132S	591.5	693.5	259.0	195.0	140	140	168.0	2xM32x1.5	84
LA132M	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	168.0	2xM32x1.5	93
LA160M	696.0	814.5	313.5	227.0	165	165	195.5	2xM40x1.5	119
LA160L	696.0	814.5	313.5	227.0	165	165	195.5	2xM40x1.5	119
LG180M	756.0	878.0	348.0	322.5	260	192	213.0	2xM40x1.5	211
LG180ZM	807.0	929.0	348.0	322.5	260	192	213.0	2xM40x1.5	241
LG180L	756.0	878.0	348.0	322.5	260	192	213.0	2xM40x1.5	211
LG180ZL	807.0	929.0	348.0	322.5	260	192	213.0	2xM40x1.5	241

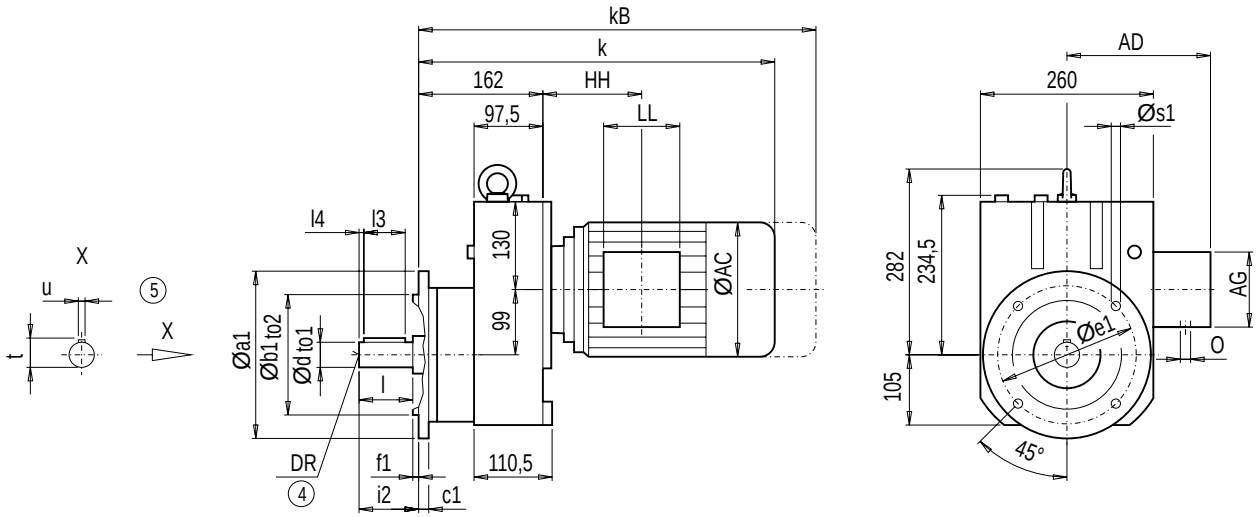
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

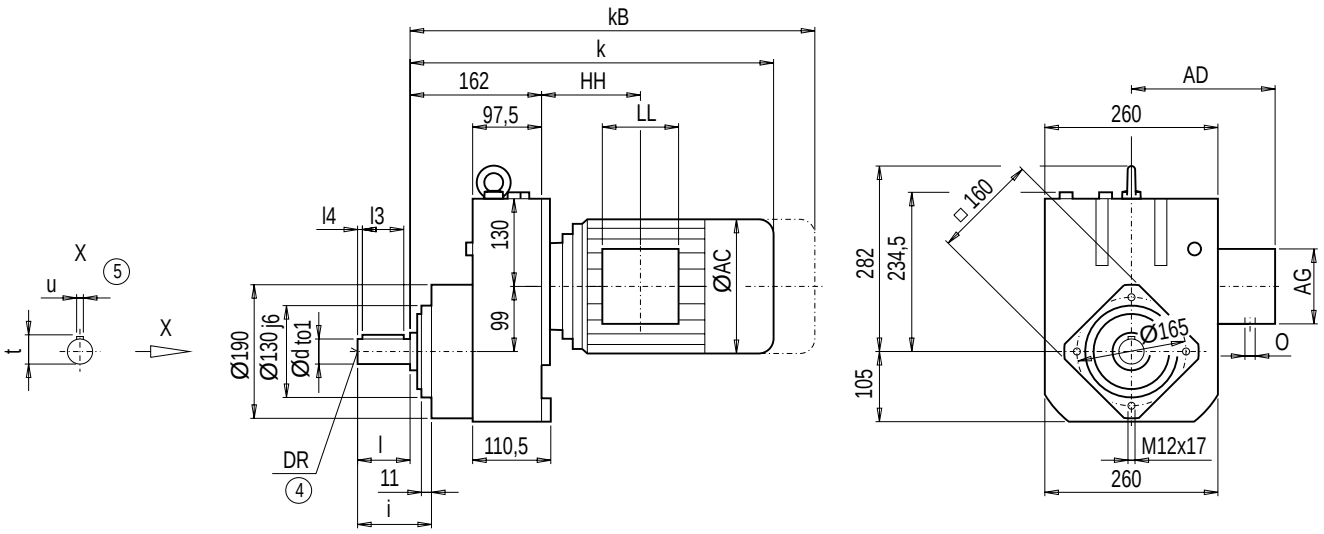
	EF88								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**EF88**
LA90S	462.0	533.0	174.0	163.0	90	90	87.5	M20x1.5/M25x1.5	54
LA90L	462.0	533.0	174.0	163.0	90	90	87.5	M20x1.5/M25x1.5	54
LA100L	505.5	586.5	195.0	168.0	120	120	125.5	2xM32x1.5	62
LA112M	531.5	612.5	219.0	181.0	120	120	127.5	2xM32x1.5	74
LA132S	591.5	693.5	259.0	195.0	140	140	168.0	2xM32x1.5	85
LA132M	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	168.0	2xM32x1.5	95
LA160M	696.0	814.5	313.5	227.0	165	165	195.5	2xM40x1.5	120
LA160L	696.0	814.5	313.5	227.0	165	165	195.5	2xM40x1.5	120
LG180M	756.0	878.0	348.0	322.5	260	192	213.0	2xM40x1.5	212
LG180ZM	807.0	929.0	348.0	322.5	260	192	213.0	2xM40x1.5	242
LG180L	756.0	878.0	348.0	322.5	260	192	213.0	2xM40x1.5	212
LG180ZL	807.0	929.0	348.0	322.5	260	192	213.0	2xM40x1.5	212

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox EZ88 (1-stage), housing-flange-mounted design (C-type)

EZ011



d	to1	l	l4	l3	t	u	i	DR
40 *)	k6	80	5	70	43	12	98	M16x36
45	k6	90	5	80	48.5	14	108	M16x36

*) Preferred series

	EZ88								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**EZ88**
LA90S	462.0	533.0	174.0	163.0	90	90	87.5	M20x1.5/M25x1.5	47
LA90L	462.0	533.0	174.0	163.0	90	90	87.5	M20x1.5/M25x1.5	47
LA100L	505.5	586.5	195.0	168.0	120	120	125.5	2xM32x1.5	55
LA112M	531.5	612.5	219.0	181.0	120	120	127.5	2xM32x1.5	67
LA132S	591.5	693.5	259.0	195.0	140	140	168.0	2xM32x1.5	79
LA132M	591.5	693.5	259.0	195.0	140	140	168.0	2xM32x1.5	79
LA132ZM	637.5	739.5	259.0	195.0	140	140	168.0	2xM32x1.5	88
LA160M	696.0	814.5	313.5	227.0	165	165	195.5	2xM40x1.5	114
LA160L	696.0	814.5	313.5	227.0	165	165	195.5	2xM40x1.5	114
LG180M	756.0	878.0	348.0	322.5	260	192	213.0	2xM40x1.5	206
LG180ZM	807.0	929.0	348.0	322.5	260	192	213.0	2xM40x1.5	236
LG180L	756.0	878.0	348.0	322.5	260	192	213.0	2xM40x1.5	206
LG180ZL	807.0	929.0	348.0	322.5	260	192	213.0	2xM40x1.5	236

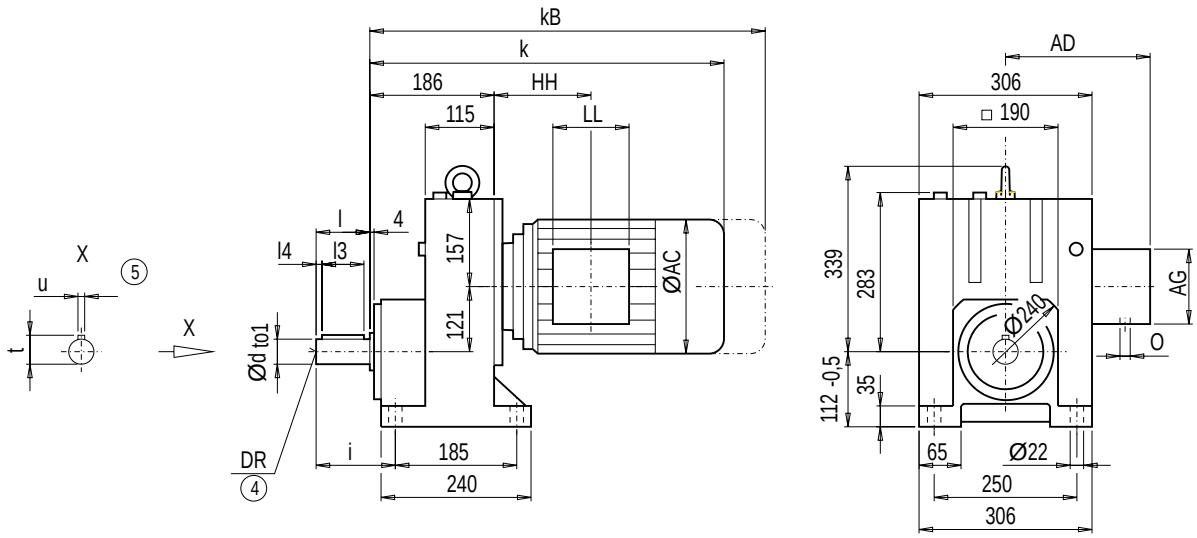
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

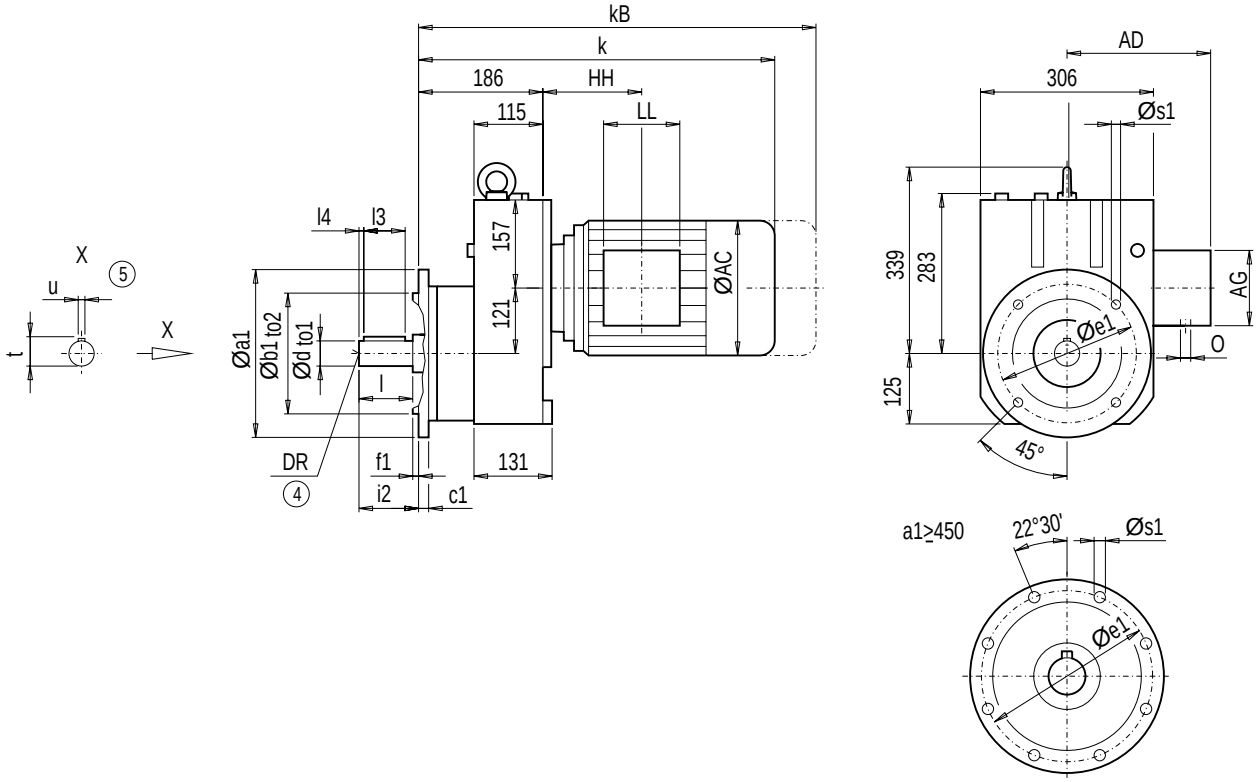
	E108								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**E108**
LA90S	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5	74
LA90L	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5	74
LA100L	517.5	598.5	195.0	168.0	120	120	113.5	2xM32x1.5	82
LA112M	544.0	625.0	219.0	181.0	120	120	116.0	2xM32x1.5	94
LA132S	603.0	705.0	259.0	195.0	140	140	155.5	2xM32x1.5	105
LA132M	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	155.5	2xM32x1.5	114
LA160M	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5	139
LA160L	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5	139
LG180M	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5	236
LG180ZM	816.0	938.0	348.0	322.5	260	192	198.0	2xM40x1.5	266
LG180L	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5	236
LG180ZL	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	439.0	325.0	260	192	197.0	2xM50x1.5	472
K4-LGI225M	1 082.0	1 321.0	439.0	325.0	260	192	197.0	2xM50x1.5	460
K4-LGI225ZM	1 142.0	1 381.0	439.0	325.0	260	192	197.0	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	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5	84
LA90L	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5	84
LA100L	517.5	598.5	195.0	168.0	120	120	113.5	2xM32x1.5	92
LA112M	544.0	625.0	219.0	181.0	120	120	116.0	2xM32x1.5	104
LA132S	603.0	705.0	259.0	195.0	140	140	155.5	2xM32x1.5	114
LA132M	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	155.5	2xM32x1.5	123
LA160M	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5	149
LA160L	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5	149
LG180M	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5	245
LG180ZM	816.0	938.0	348.0	322.5	260	192	198.0	2xM40x1.5	275
LG180L	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5	245
LG180ZL	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	197.0	2xM50x1.5	481
K4-LGI225M	1 082.0	1 321.0	442.0	325.0	260	192	197.0	2xM50x1.5	469
K4-LGI225ZM	1 142.0	1 381.0	442.0	325.0	260	192	197.0	2xM50x1.5	527

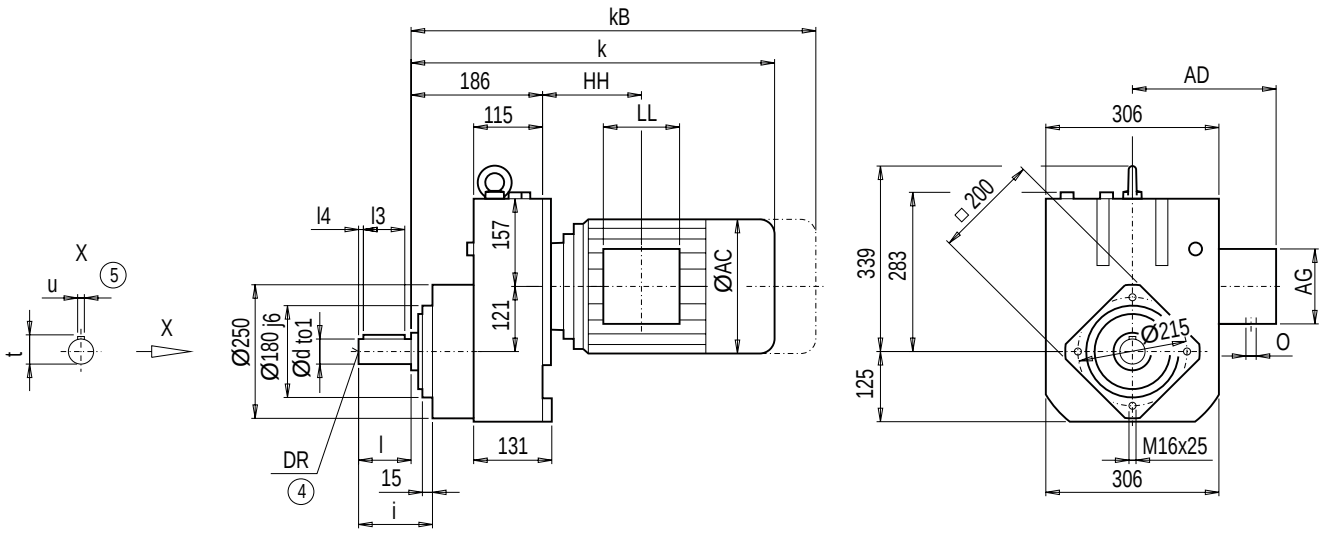
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

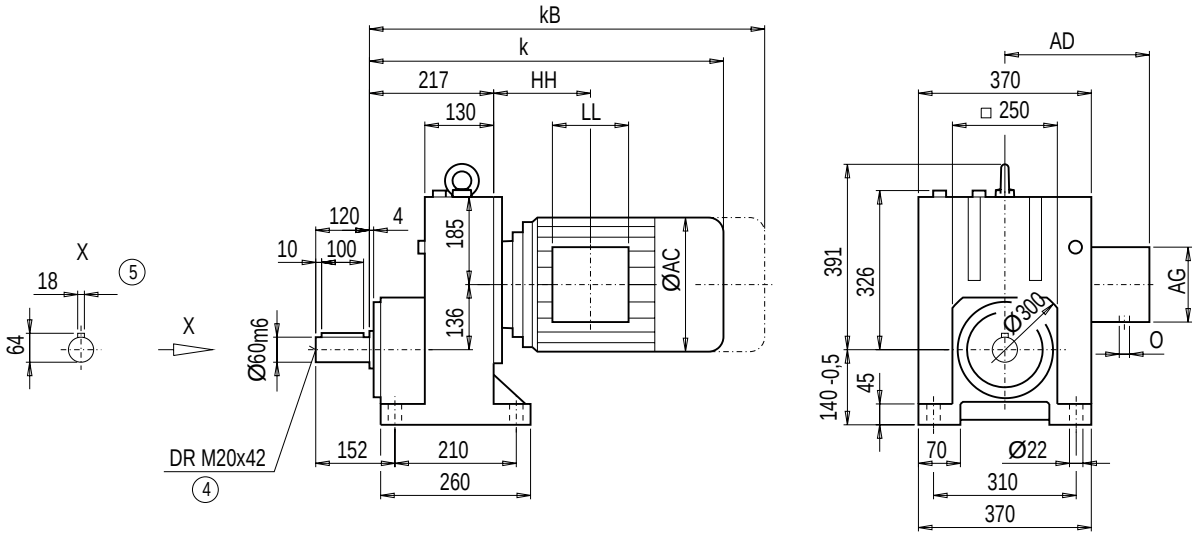
	EZ108								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**EZ108**
LA90S	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5	67
LA90L	474.5	545.5	174.0	163.0	90	90	76.0	M20x1.5/M25x1.5	67
LA100L	517.5	598.5	195.0	168.0	120	120	113.5	2xM32x1.5	75
LA112M	544.0	625.0	219.0	181.0	120	120	116.0	2xM32x1.5	87
LA132S	603.0	705.0	259.0	195.0	140	140	155.5	2xM32x1.5	98
LA132M	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	155.5	2xM32x1.5	107
LA160M	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5	132
LA160L	708.5	827.0	313.5	227.0	165	165	184.0	2xM40x1.5	132
LG180M	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5	229
LG180ZM	816.0	938.0	348.0	322.5	260	192	198.0	2xM40x1.5	259
LG180L	765.0	887.0	348.0	322.5	260	192	198.0	2xM40x1.5	229
LG180ZL	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	197.0	2xM50x1.5	465
K4-LGI225M	1 082.0	1 321.0	442.0	325.0	260	192	197.0	2xM50x1.5	453
K4-LGI225ZM	1 142.0	1 381.0	442.0	325.0	260	192	197.0	2xM50x1.5	511

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

E011



Motor	E128 k	kB	AC	AD	AG	LL	HH	O	Weight E128
LA100L	539.0	620.0	195.0	168.0	120	120	104.0	2xM32x1.5	121
LA112M	564.5	645.5	219.0	181.0	120	120	105.5	2xM32x1.5	132
LA132S	623.5	725.5	259.0	195.0	140	140	145.0	2xM32x1.5	142
LA132M	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	145.0	2xM32x1.5	151
LA160M	723.0	841.5	313.5	227.0	165	165	167.5	2xM40x1.5	181
LA160L	723.0	841.5	313.5	227.0	165	165	167.5	2xM40x1.5	181
LG180M	782.5	904.5	348.0	322.5	260	192	184.5	2xM40x1.5	272
LG180ZM	833.5	955.5	348.0	322.5	260	192	184.5	2xM40x1.5	302
LG180L	782.5	904.5	348.0	322.5	260	192	184.5	2xM40x1.5	272
LG180ZL	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	238.0	2xM63x1.5	596
K4-LGI250ZM	1 267.0	1 492.0	495.0	392.0	300	236	238.0	2xM63x1.5	699

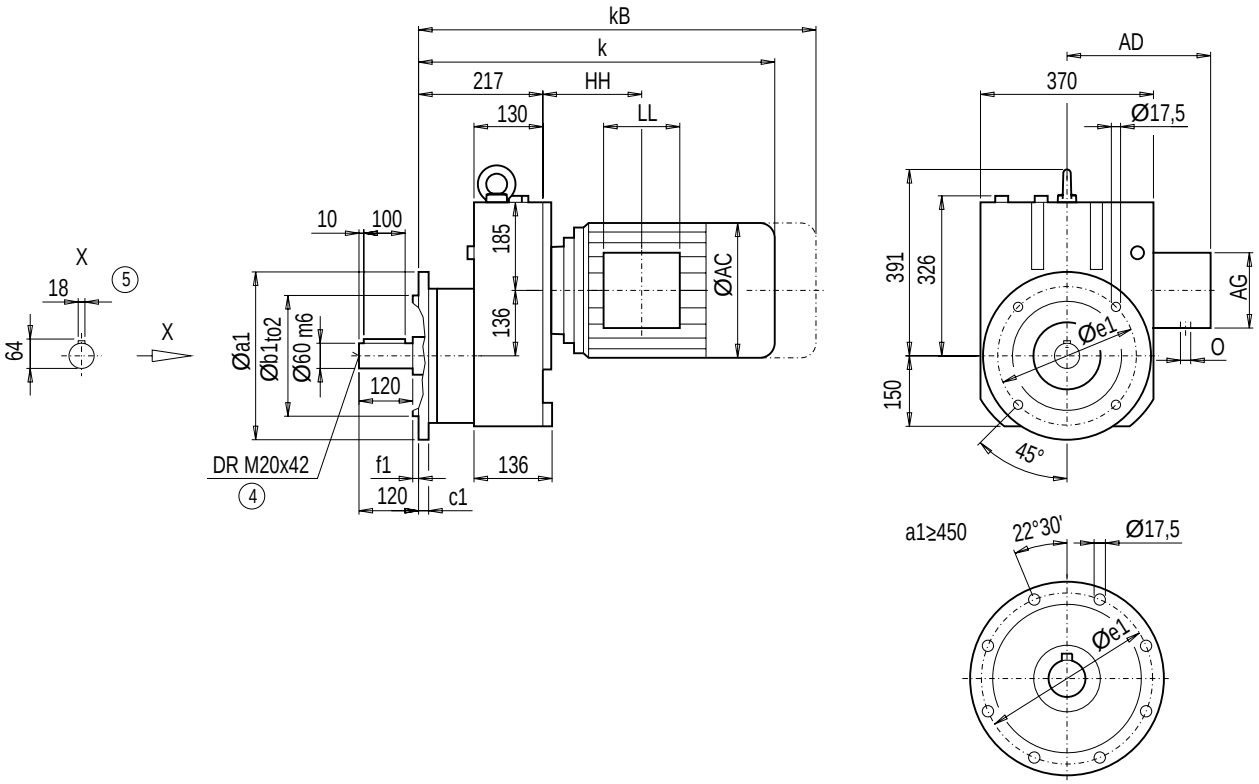
④ DIN 332

⑤ Feather key / keyway DIN 6885

Dimensions

Gearbox EF128 (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	20	400	5	17.5

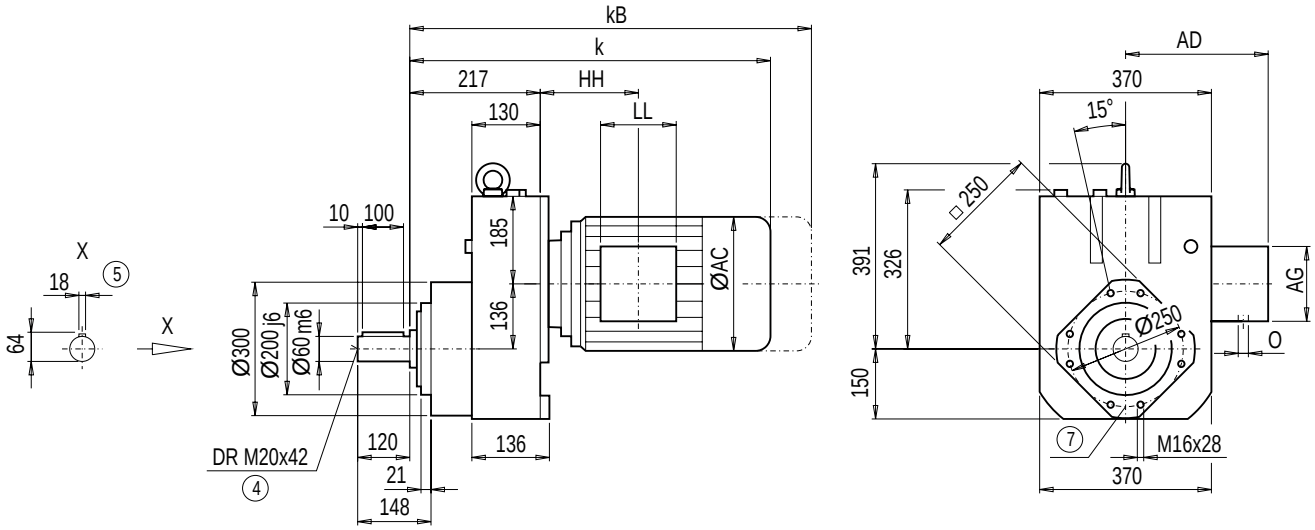
	EF128								Weight
Motor	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**EF128**
LA100L	539.0	620.0	195.0	168.0	120	120	104.0	2xM32x1.5	125
LA112M	564.5	645.5	219.0	181.0	120	120	105.5	2xM32x1.5	137
LA132S	623.5	725.5	259.0	195.0	140	140	145.0	2xM32x1.5	146
LA132M	623.5	725.5	259.0	195.0	140	140	145.0	2xM32x1.5	146
LA132ZM	669.5	771.5	259.0	195.0	140	140	145.0	2xM32x1.5	155
LA160M	723.0	841.5	313.5	227.0	165	165	167.5	2xM40x1.5	185
LA160L	723.0	841.5	313.5	227.0	165	165	167.5	2xM40x1.5	185
LG180M	782.5	904.5	348.0	322.5	260	192	184.5	2xM40x1.5	276
LG180ZM	833.5	955.5	348.0	322.5	260	192	184.5	2xM40x1.5	306
LG180L	782.5	904.5	348.0	322.5	260	192	184.5	2xM40x1.5	276
LG180ZL	833.5	955.5	348.0	322.5	260	192	184.5	2xM40x1.5	306
LG200L	838.5	964.5	385.0	301.0	260	192	214.5	2xM50x1.5	356
LG225S	909.5	1 148.5	442.0	325.0	260	192	250.5	2xM50x1.5	432
LG225M	909.5	1 148.5	442.0	325.0	260	192	250.5	2xM50x1.5	420
LG225ZM	969.5	1 208.5	442.0	325.0	260	192	250.5	2xM50x1.5	478
K4-LGI250M	1 197.0	1 422.0	495.0	392.0	300	236	238.0	2xM63x1.5	600
K4-LGI250ZM	1 267.0	1 492.0	495.0	392.0	300	236	238.0	2xM63x1.5	703

④ DIN 332

⑤ Feather key / keyway DIN 6885

Gearbox EZ128 (1-stage), housing-flange-mounted design (C-type)

EZ011



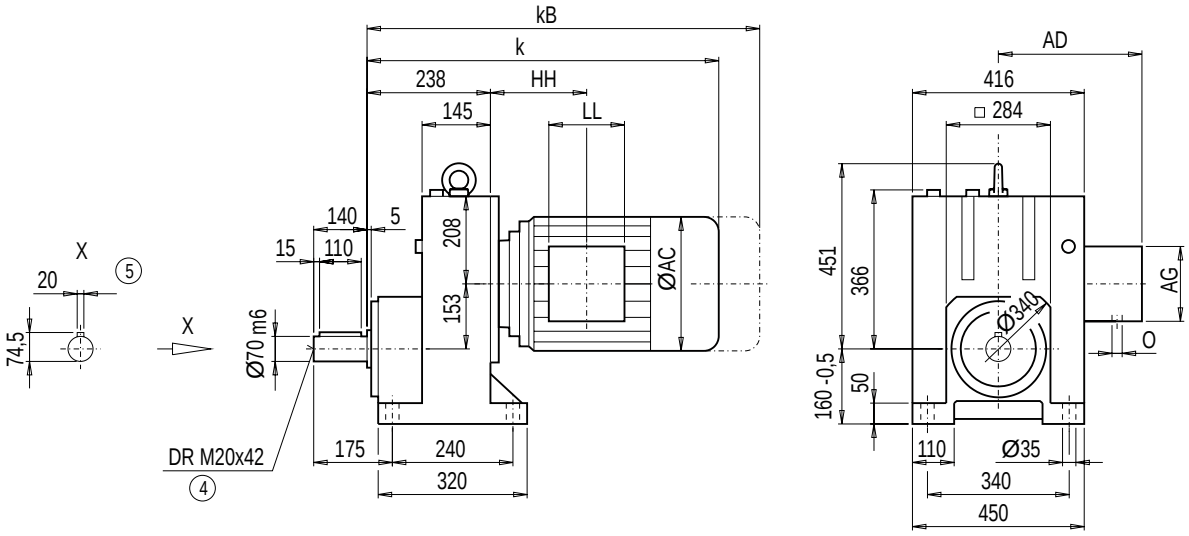
Motor	EZ128 k	kB	AC	AD	AG	LL	HH	O	Weight EZ128
LA100L	539.0	620.0	195.0	168.0	120	120	104.0	2xM32x1.5	108
LA112M	564.5	645.5	219.0	181.0	120	120	105.5	2xM32x1.5	119
LA132S	623.5	725.5	259.0	195.0	140	140	145.0	2xM32x1.5	129
LA132M	623.5	725.5	259.0	195.0	140	140	145.0	2xM32x1.5	129
LA132ZM	669.5	771.5	259.0	195.0	140	140	145.0	2xM32x1.5	138
LA160M	723.0	841.5	313.5	227.0	165	165	167.5	2xM40x1.5	168
LA160L	723.0	841.5	313.5	227.0	165	165	167.5	2xM40x1.5	168
LG180M	782.5	904.5	348.0	322.5	260	192	184.5	2xM40x1.5	259
LG180ZM	833.5	955.5	348.0	322.5	260	192	184.5	2xM40x1.5	289
LG180L	782.5	904.5	348.0	322.5	260	192	184.5	2xM40x1.5	259
LG180ZL	833.5	955.5	348.0	322.5	260	192	184.5	2xM40x1.5	289
LG200L	838.5	964.5	385.0	301.0	260	192	214.5	2xM50x1.5	339
LG225S	909.5	1 148.5	442.0	325.0	260	192	250.05	2xM50x1.5	415
LG225M	909.5	1 148.5	442.0	325.0	260	192	250.5	2xM50x1.5	403
LG225ZM	969.5	1 208.5	442.0	325.0	260	192	250.5	2xM50x1.5	461
K4-LGI250M	1 197.0	1 422.0	495.0	392.0	300	236	238.0	2xM63x1.5	583
K4-LGI250ZM	1 267.0	1 492.0	495.0	392.0	300	236	238.0	2xM63x1.5	686

④ DIN 332 ⑤ Feather key / keyway DIN 6885 ⑦ For note, see page 2/192

Dimensions

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

E011



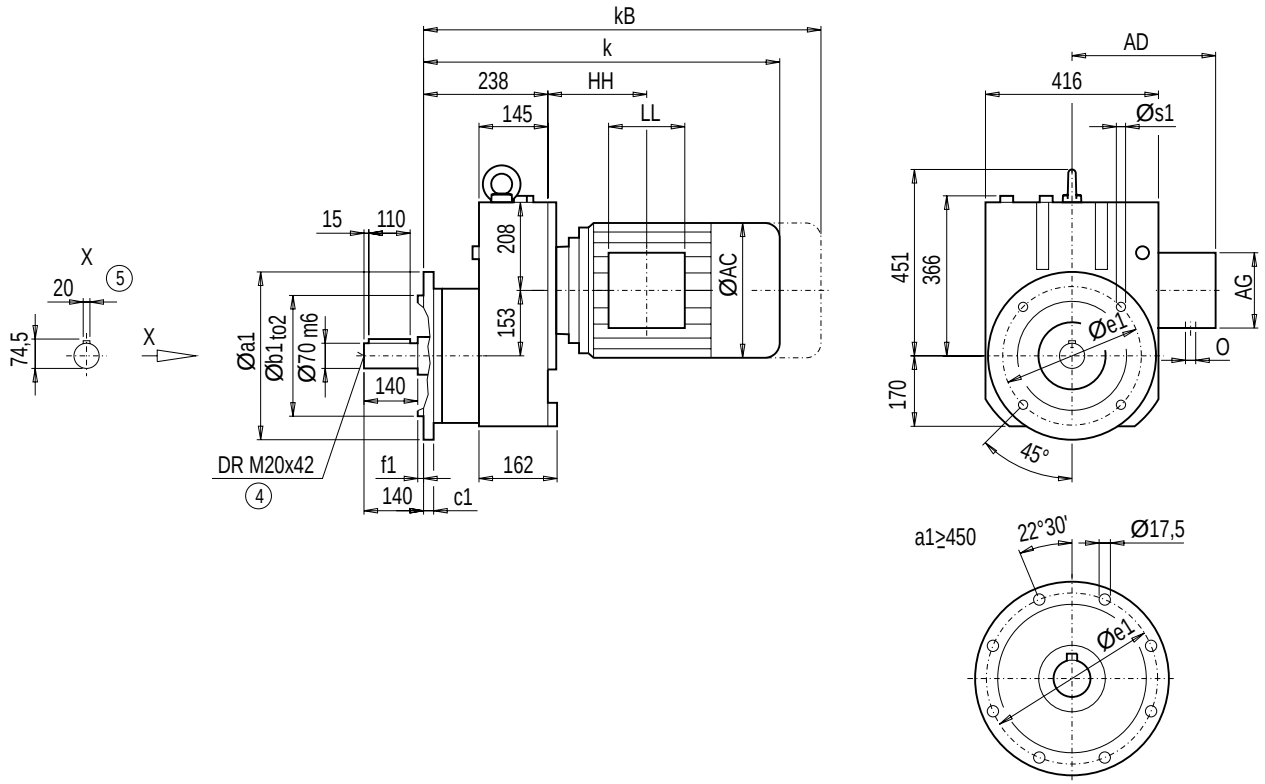
Motor	E148 k	kB	AC	AD	AG	LL	HH	O	Weight E148
LA132S	636.5	738.5	259.0	195.0	140	140	137.0	2xM32x1.5	169
LA132M	636.5	738.5	259.0	195.0	140	140	137.0	2xM32x1.5	169
LA132ZM	682.5	784.5	259.0	195.0	140	140	137.0	2xM32x1.5	178
LA160M	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	203
LA160L	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	203
LG180M	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	298
LG180ZM	847.0	969.0	348.0	322.5	260	192	177.0	2xM40x1.5	328
LG180L	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	298
LG180ZL	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	253.0	2xM63x1.5	774
K4-LGI280M	1 296.0	1 523.0	555.0	432.0	300	236	253.0	2xM63x1.5	785
K4-LGI280ZM	1 406.0	1 633.0	555.0	432.0	300	236	253.0	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	636.5	738.5	259.0	195.0	140	140	137.0	2xM32x1.5	180
LA132M	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	137.0	2xM32x1.5	190
LA160M	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	214
LA160L	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	214
LG180M	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	310
LG180ZM	847.0	969.0	348.0	322.5	260	192	177.0	2xM40x1.5	340
LG180L	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	310
LG180ZL	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	253.0	2xM63x1.5	786
K4-LGI280M	1 296.0	1 523.0	555.0	432.0	300	236	253.0	2xM63x1.5	797
K4-LGI280ZM	1 406.0	1 633.0	555.0	432.0	300	236	253.0	2xM63x1.5	886

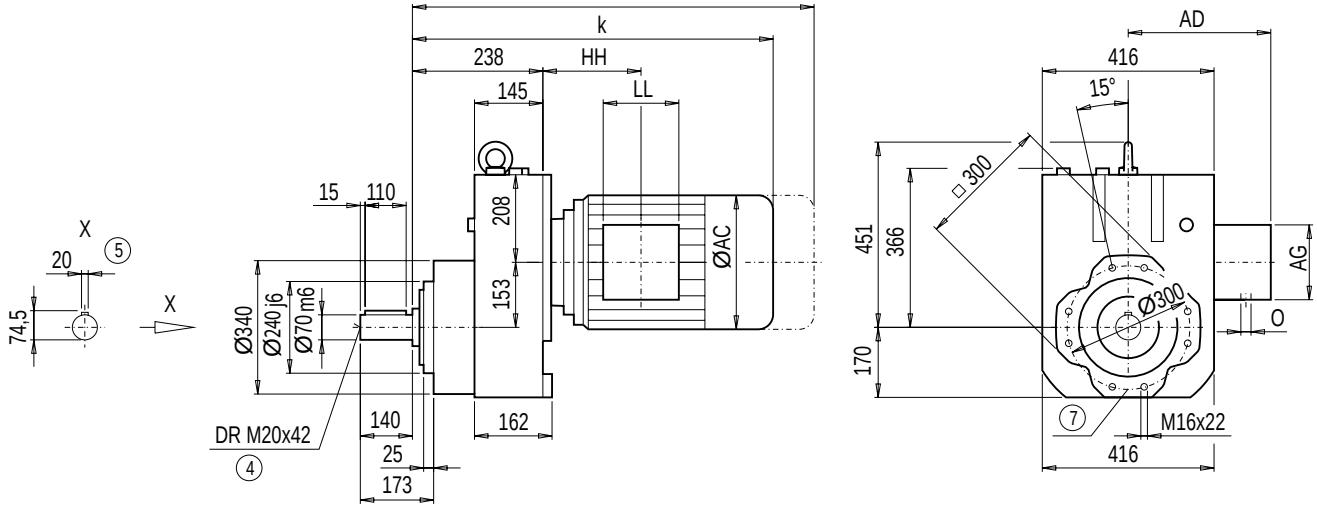
④ DIN 332

⑤ Feather key / keyway DIN 6885

Dimensions

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

EZ011

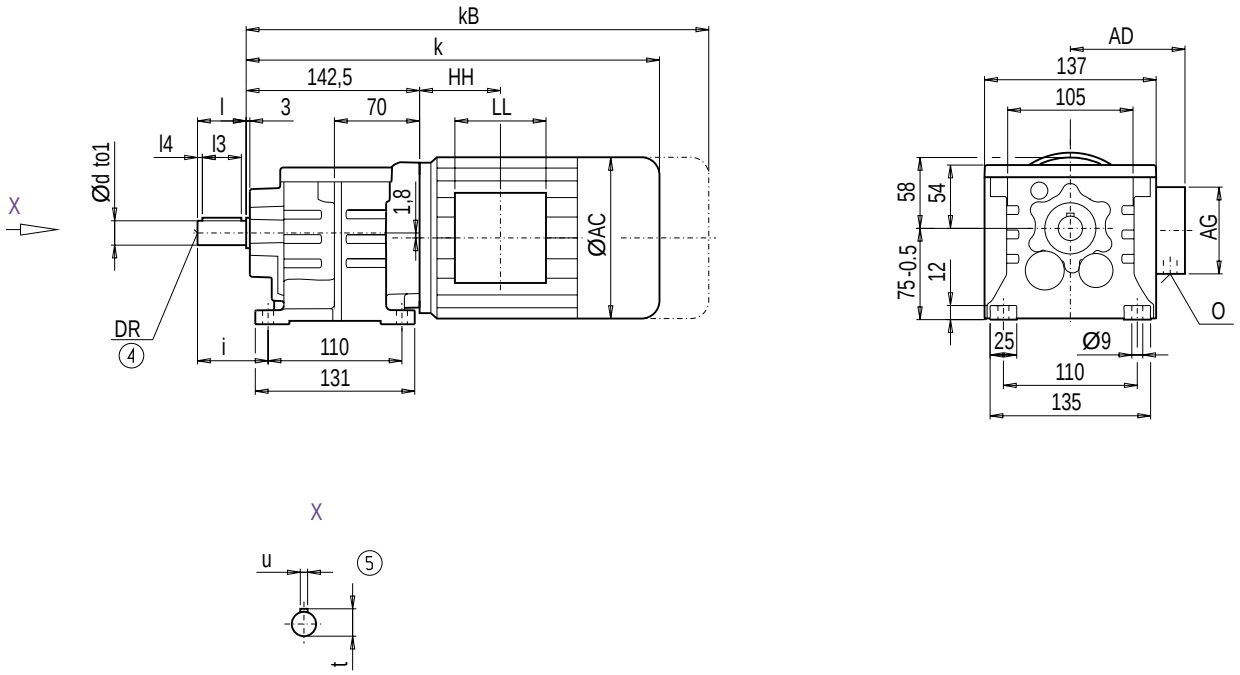


Motor	EZ148 k	kB	AC	AD	AG	LL	HH	O	Weight EZ148
LA132S	636.5	738.5	259.0	195.0	140	140	137.0	2xM32x1.5	154
LA132M	636.5	738.5	259.0	195.0	140	140	137.0	2xM32x1.5	154
LA132ZM	682.5	784.5	259.0	195.0	140	140	137.0	2xM32x1.5	163
LA160M	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	188
LA160L	736.5	855.0	313.5	227.0	165	165	160.0	2xM40x1.5	188
LG180M	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	283
LG180ZM	847.0	969.0	348.0	322.5	260	192	177.0	2xM40x1.5	313
LG180L	796.0	918.0	348.0	322.5	260	192	177.0	2xM40x1.5	283
LG180ZL	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	253.0	2xM63x1.5	759
K4-LGI280M	1 296.0	1 523.0	555.0	432.0	300	236	253.0	2xM63x1.5	770
K4-LGI280ZM	1 406.0	1 633.0	555.0	432.0	300	236	253.0	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

	Z18		D18								Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**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

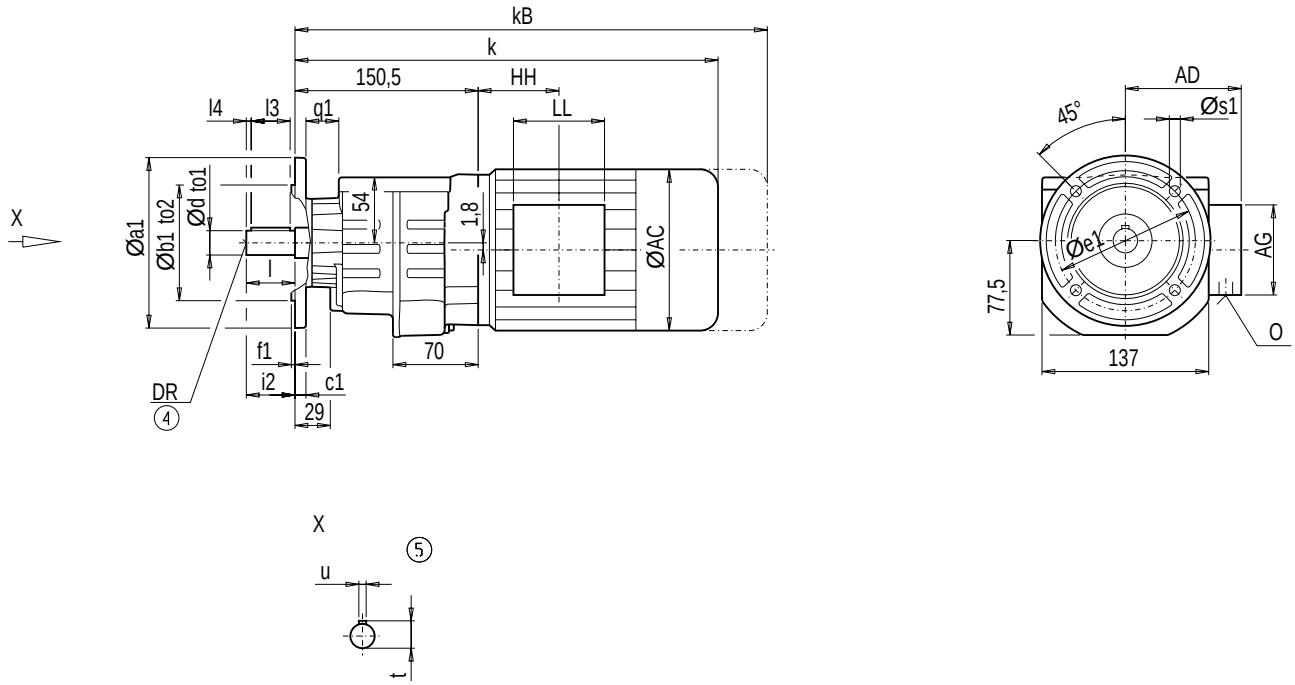
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

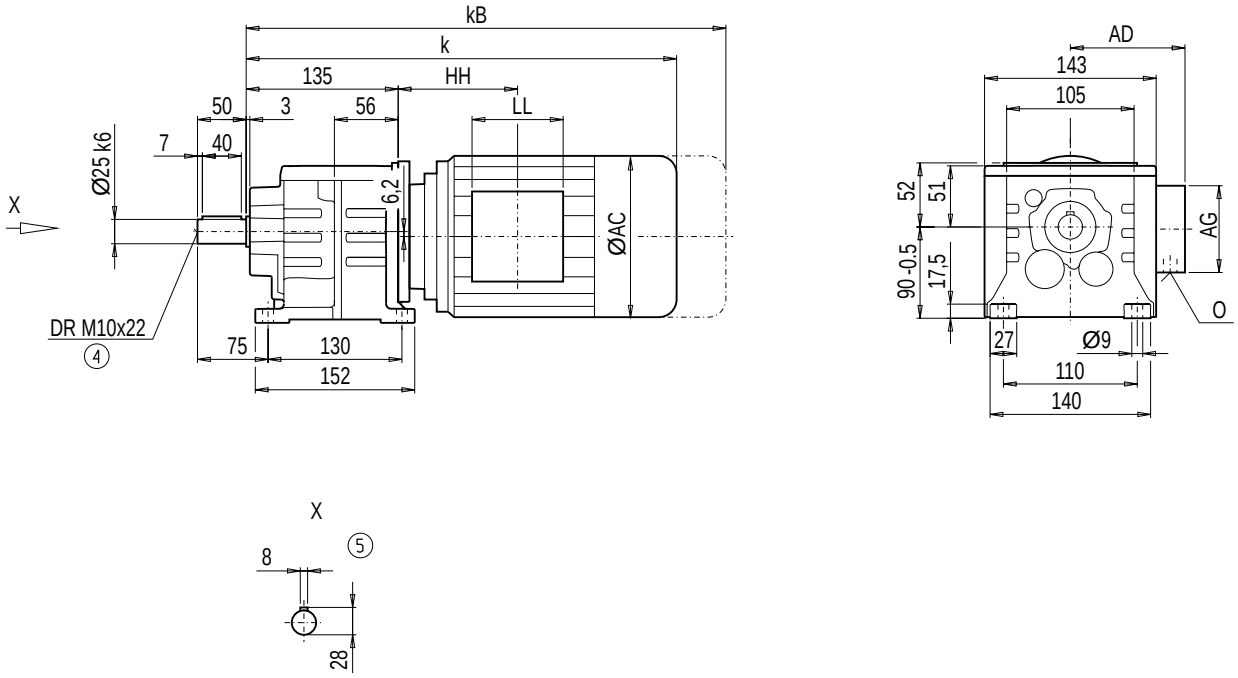
	ZF18		DF18								Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**ZF18**	**DF18**
LA71	335	390	335	390	139	146	90	90	40.5	M20x1.5/M25x1.5	8	9
LA71Z	354	409	354	409	139	146	90	90	40.5	M20x1.5/M25x1.5	8	9

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

DZ011



Motor	Z28 k	Z28 kB	D28 k	D28 kB	AC	AD	AG	LL	HH	O	Weight Z28	Weight 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
LA90S	434.5	505.5	434.5	505.5	174	185	90	90	87.0	M20x1.5/M25x1.5	18	19
LA90L	434.5	505.5	434.5	505.5	174	185	90	90	87.0	M20x1.5/M25x1.5	18	19
LA90ZL	479.5	550.5	479.5	550.5	174	185	90	90	87.0	M20x1.5/M25x1.5	21	22
LA100L	516.5	597.5	–	–	195	168	120	120	163.5	2xM32x1.5	28	–

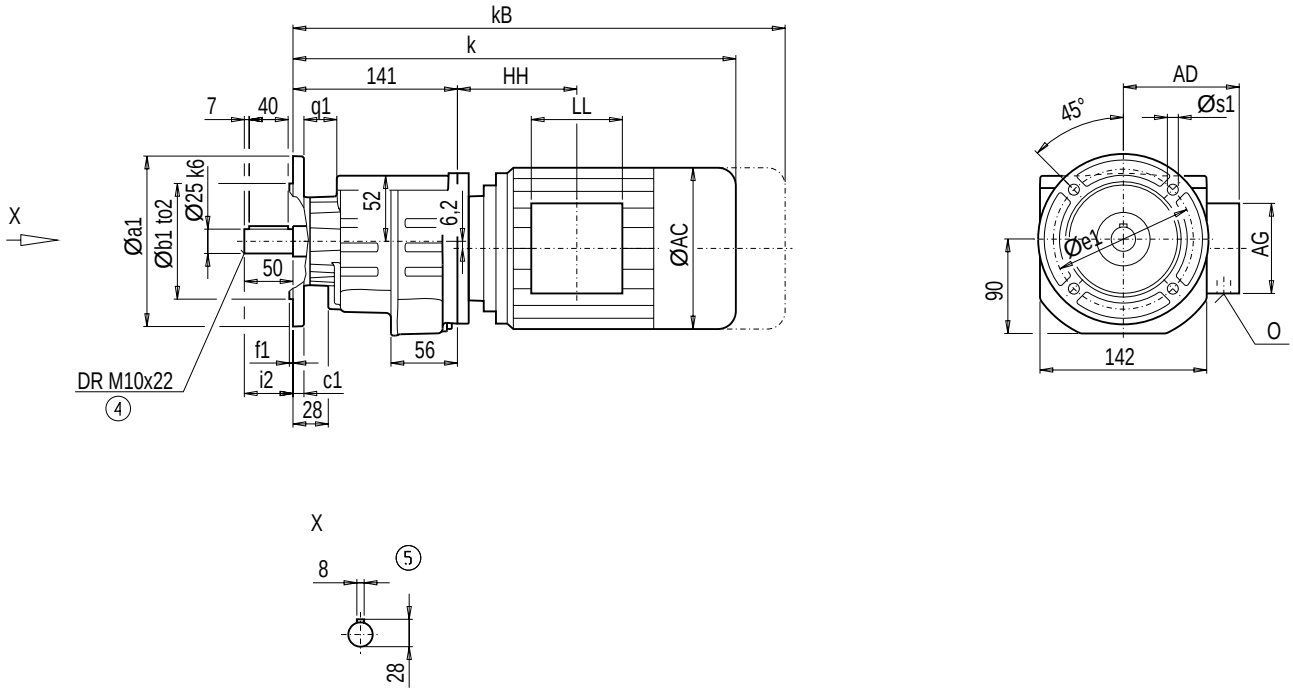
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

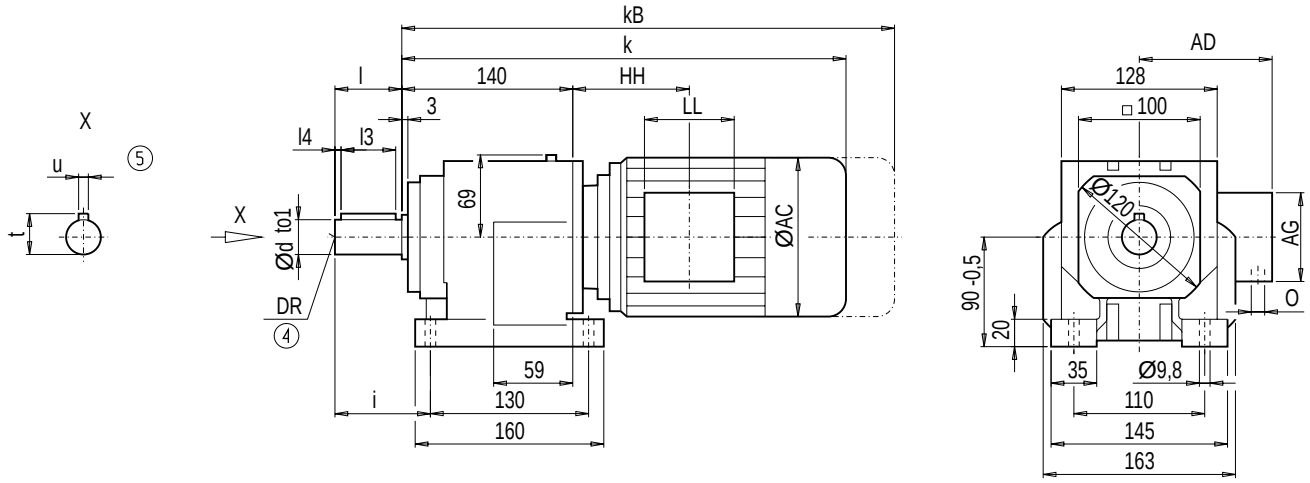
	ZF28		DF28								Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**O**	**ZF28**	**DF28**
LA71	343.5	398.5	337.5	398.5	139	146	90	90	58.5	M20x1.5/M25x1.5	9	9
LA71Z	362.5	417.5	356.5	417.5	139	146	90	90	58.5	M20x1.5/M25x1.5	9	9
LA90S	440.5	511.5	440.5	511.5	174	185	90	90	87.0	M20x1.5/M25x1.5	18	19
LA90L	440.5	511.5	440.5	511.5	174	185	90	90	87.0	M20x1.5/M25x1.5	18	19
LA90ZL	485.5	556.5	485.5	556.5	174	185	90	90	87.0	M20x1.5/M25x1.5	21	22
LA100L	522.5	603.5	–	–	195	168	120	120	163.5	2xM32x1.5	28	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

DZ011



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

	Z38		D38						Z38	D38		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**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
LA90S	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5	26	27
LA90L	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5	26	27
LA100L	512.5	593.5	–	–	195.0	168	120	120	154.5	–	2xM32x1.5	35	–
LA112M	542.0	623.0	–	–	219.0	181	120	120	160.0	–	2xM32x1.5	45	–

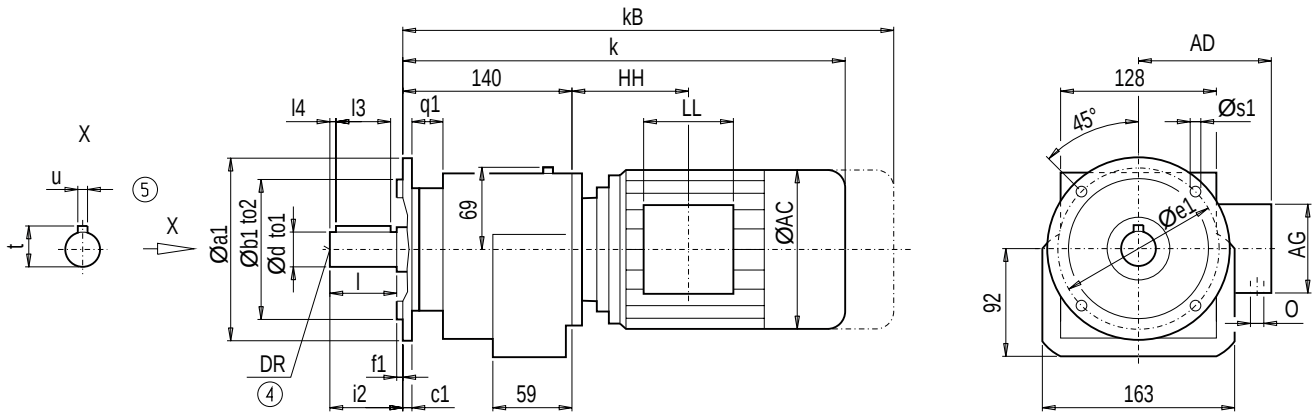
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

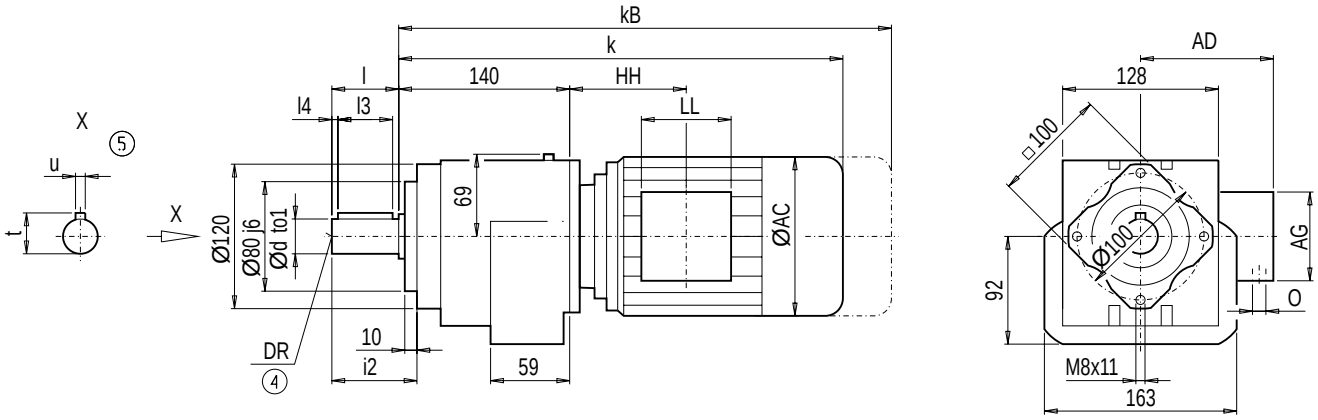
1) The A200 flange is connected to the machine using stud bolts.
*) Preferred series

	ZF38		DF38						ZF38	DF38		Weight	
Motor	**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
LA90S	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5	26	27
LA90L	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5	26	27
LA100L	512.5	593.5	–	–	195.0	168	120	120	154.5	–	2xM32x1.5	35	–
LA112M	542.0	623.0	–	–	219.0	181	120	120	160.0	–	2xM32x1.5	46	–

④ DIN 332 ⑤ Feather key / keyway DIN 6885 .

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

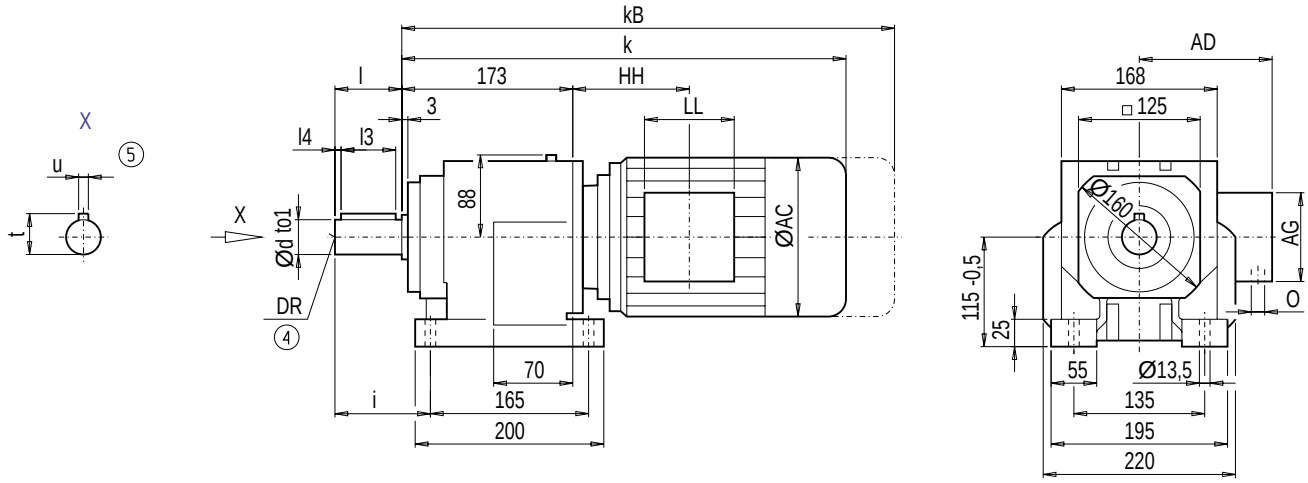
	ZZ38		DZ38						ZZ38	DZ38		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZZ38**	**DZ38**
LA71	398.5	453.5	413.5	468.5	139.0	146	90	90	114.5	129.5	M20x1.5/M25x1.5	15	16
LA71Z	417.5	472.5	432.5	487.5	139.0	146	90	90	114.5	129.5	M20x1.5/M25x1.5	15	16
LA80	435.5	499.0	450.5	514.0	156.5	155	90	90	114.0	129.0	M20x1.5/M25x1.5	20	21
LA90S	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5	24	25
LA90L	466.5	537.5	481.5	552.5	174.0	163	90	90	114.0	129.0	M20x1.5/M25x1.5	24	25
LA100L	512.5	593.5	–	–	195.0	168	120	120	154.5	–	2xM32x1.5	33	–
LA112M	542.0	623.0	–	–	219.0	181	120	120	160.0	–	2xM32x1.5	44	–

④ DIN 332 ⑤ Feather key / keyway DIN 6885

Dimensions

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

DZ011



d	to1	l	l4	l3	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

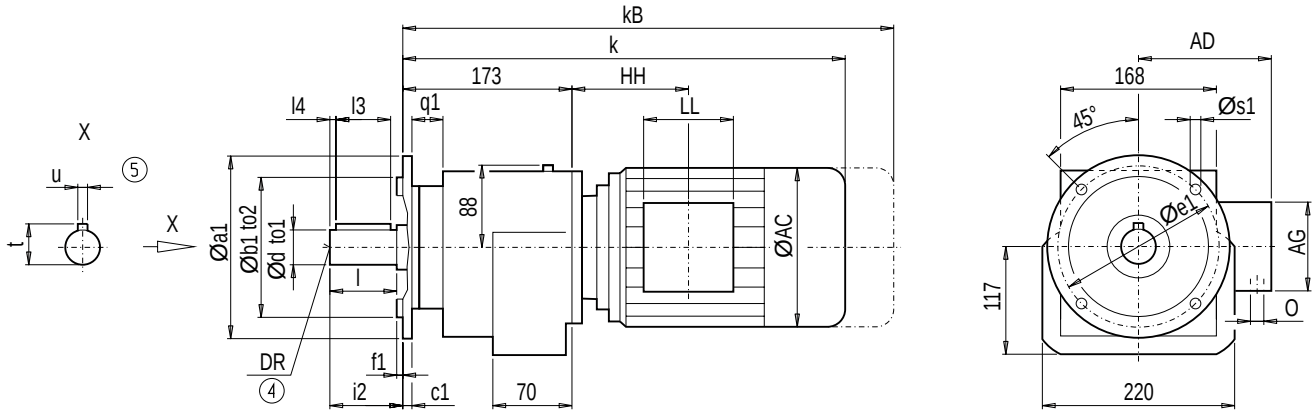
	Z48		D48						Z48	D48		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**Z48**	**D48**
LA71	426	481.0	443	498.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	26	27
LA71Z	445	500.0	462	517.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	26	27
LA80	463	526.5	480	543.5	156.5	155	90	90	108.5	125.5	M20x1.5/M25x1.5	31	32
LA90S	494	565.0	511	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	35	36
LA90L	494	565.0	511	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	35	36
LA100L	540	621.0	557	638.0	195.0	168	120	120	149.0	166.0	2xM32x1.5	44	45
LA112M	569	650.0	–	–	219.0	181	120	120	154.0	–	2xM32x1.5	56	–
LA132S	631	733.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	66	–
LA132M	631	733.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	66	–
LA132ZM	677	779.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	75	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

	ZF48		DF48						ZF48	DF48		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZF48**	**DF48**
LA71	426	481.0	443	498.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	27	28
LA71Z	445	500.0	462	517.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	27	28
LA80	463	526.5	480	543.5	156.5	155	90	90	108.5	125.5	M20x1.5/M25x1.5	32	33
LA90S	494	565.0	511	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	37	38
LA90L	494	565.0	511	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	37	38
LA100L	540	621.0	557	638.0	195.0	168	120	120	149.0	166.0	2xM32x1.5	46	47
LA112M	569	650.0	–	–	219.0	181	120	120	154.0	–	2xM32x1.5	57	–
LA132S	631	733.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	67	–
LA132M	631	733.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	67	–
LA132ZM	677	779.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	76	–

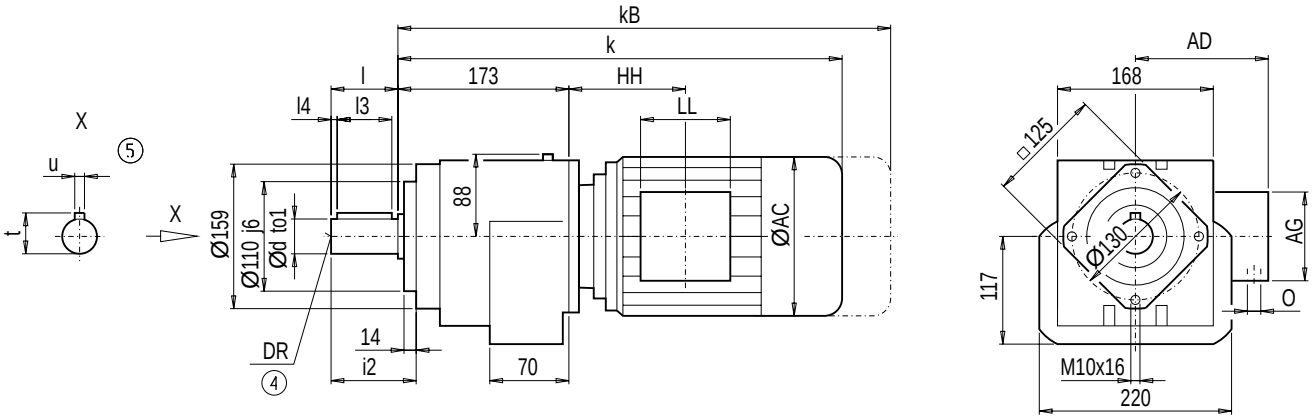
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

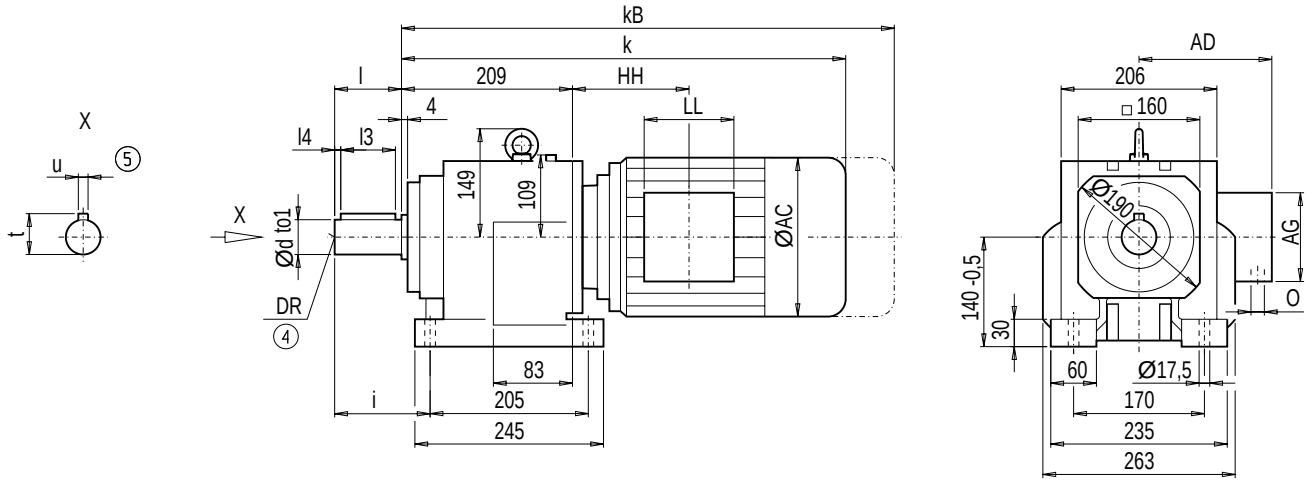
	ZZ48		DZ48						ZZ48	DZ48		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZZ48**	**DZ48**
LA71	426	481.0	443	498.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	24	25
LA71Z	445	500.0	462	517.0	139.0	146	90	90	109.0	126.0	M20x1.5/M25x1.5	24	25
LA80	463	526.5	480	543.5	156.5	155	90	90	108.5	125.5	M20x1.5/M25x1.5	29	30
LA90S	494	565.0	511	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	33	34
LA90L	494	565.0	511	582.0	174.0	163	90	90	108.5	125.5	M20x1.5/M25x1.5	33	34
LA100L	540	621.0	557	638.0	195.0	168	120	120	149.0	166.0	2xM32x1.5	42	43
LA112M	569	650.0	–	–	219.0	181	120	120	154.0	–	2xM32x1.5	54	–
LA132S	631	733.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	64	–
LA132M	631	733.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	64	–
LA132ZM	677	779.0	–	–	259.0	195	140	140	196.5	–	2xM32x1.5	73	–

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

	Z68		D68						Z68	D68		Weight	
Motor	**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
LA90S	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	52	55
LA90L	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	52	55
LA100L	570.0	651.0	588.5	669.5	195.0	168	120	120	143.0	161.5	2xM32x1.5	61	64
LA112M	597.0	678.0	–	–	219.0	181	120	120	146.0	–	2xM32x1.5	73	–
LA132S	657.0	759.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	86	–
LA132M	657.0	759.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	86	–
LA132ZM	703.0	805.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	95	–
LA160M	759.5	878.0	–	–	313.5	227	165	165	212.0	–	2xM40x1.5	119	–
LA160L	759.5	878.0	–	–	313.5	227	165	165	212.0	–	2xM40x1.5	119	–

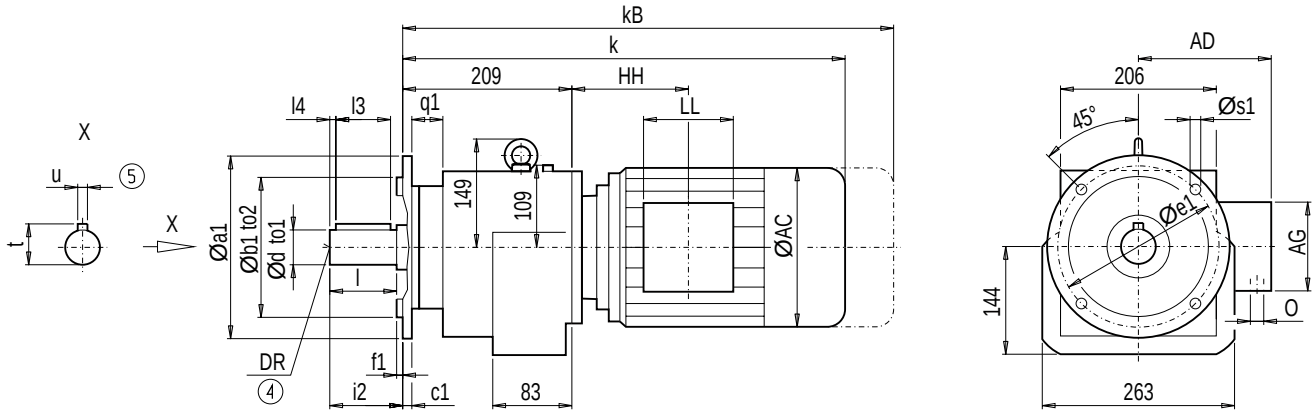
④ DIN 332

⑤ Feather key / keyway DIN 6885

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	l4	l3	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

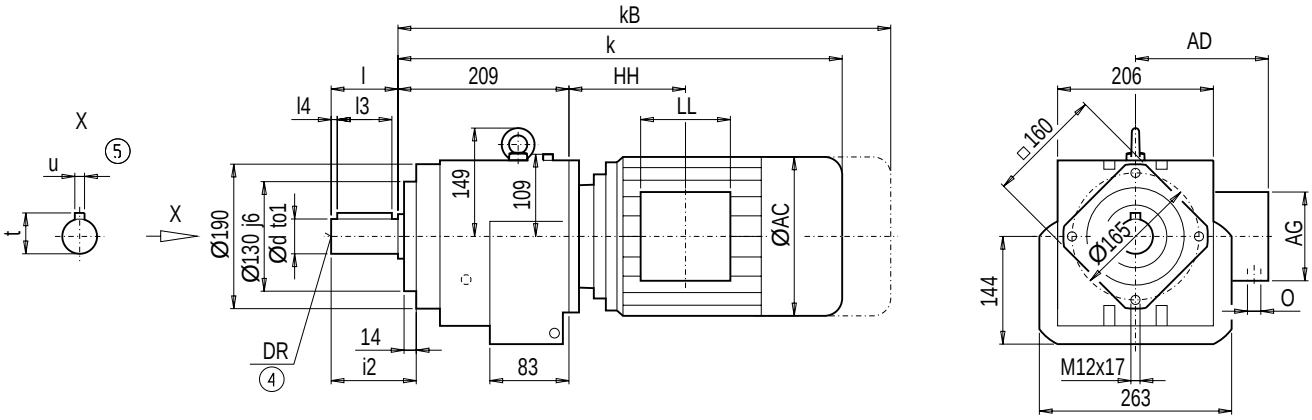
	ZF68		DF68						ZF68	DF68		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZF68**	**DF68**
LA71	456.0	511.0	474.5	529.5	139.0	146	90	90	103.0	121.5	M20x1.5/M25x1.5	45	47
LA71Z	475.0	530.0	493.5	548.5	139.0	146	90	90	103.0	121.5	M20x1.5/M25x1.5	45	47
LA80	493.0	556.5	511.5	575.0	156.5	155	90	90	102.5	121.0	M20x1.5/M25x1.5	49	52
LA90S	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	54	56
LA90L	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	54	56
LA100L	570.0	651.0	588.5	669.5	195.0	168	120	120	143.0	161.5	2xM32x1.5	63	65
LA112M	597.0	678.0	–	–	219.0	181	120	120	146.0	–	2xM32x1.5	75	–
LA132S	657.0	759.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	88	–
LA132M	657.0	759.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	88	–
LA132ZM	703.0	805.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	97	–
LA160M	759.5	878.0	–	–	313.5	227	165	165	212.0	–	2xM40x1.5	121	–
LA160L	759.5	878.0	–	–	313.5	227	165	165	212.0	–	2xM40x1.5	121	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

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 *)	k6	80	5	70	43.0	12	98	M16x36
50	k6	100	10	80	53.5	14	118	M16x36

*) Preferred series

	ZZ68		DZ68						ZZ68	DZ68		Weight	
Motor	**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
LA90S	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	49	51
LA90L	524.0	595.0	542.5	613.5	174.0	163	90	90	102.5	121.0	M20x1.5/M25x1.5	49	51
LA100L	570.0	651.0	588.5	669.5	195.0	168	120	120	143.0	161.5	2xM32x1.5	58	60
LA112M	597.0	678.0	–	–	219.0	181	120	120	146.0	–	2xM32x1.5	69	–
LA132S	657.0	759.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	82	–
LA132M	657.0	759.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	82	–
LA132ZM	703.0	805.0	–	–	259.0	195	140	140	186.5	–	2xM32x1.5	92	–
LA160M	759.5	878.0	–	–	313.5	227	165	165	212.0	–	2xM40x1.5	115	–
LA160L	759.5	878.0	–	–	313.5	227	165	165	212.0	–	2xM40x1.5	115	–

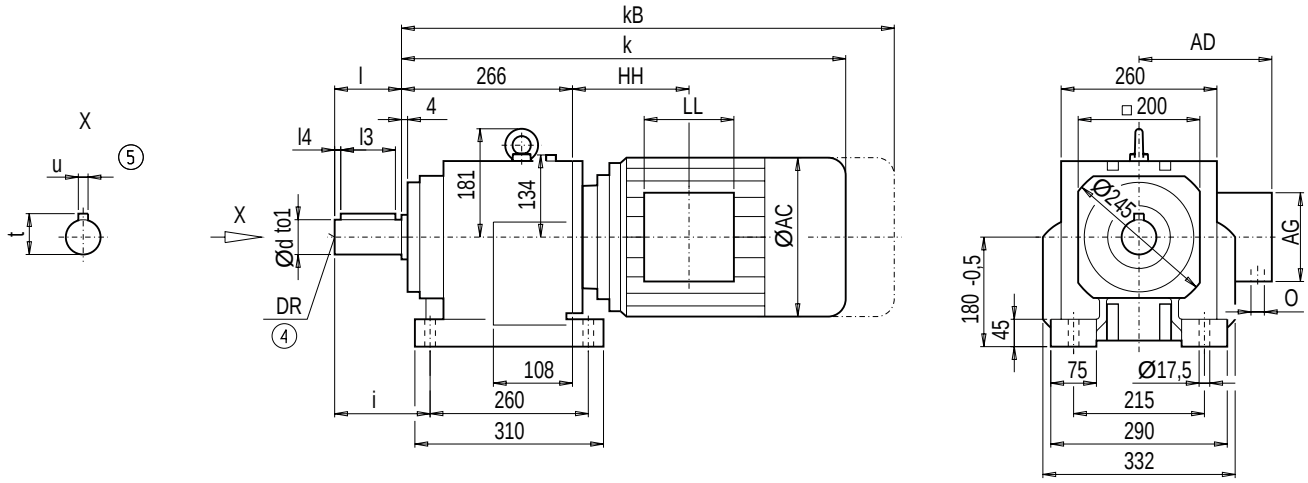
④ DIN 332

⑤ Feather key / keyway DIN 6885

Dimensions

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

DZ011



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

*) Preferred series

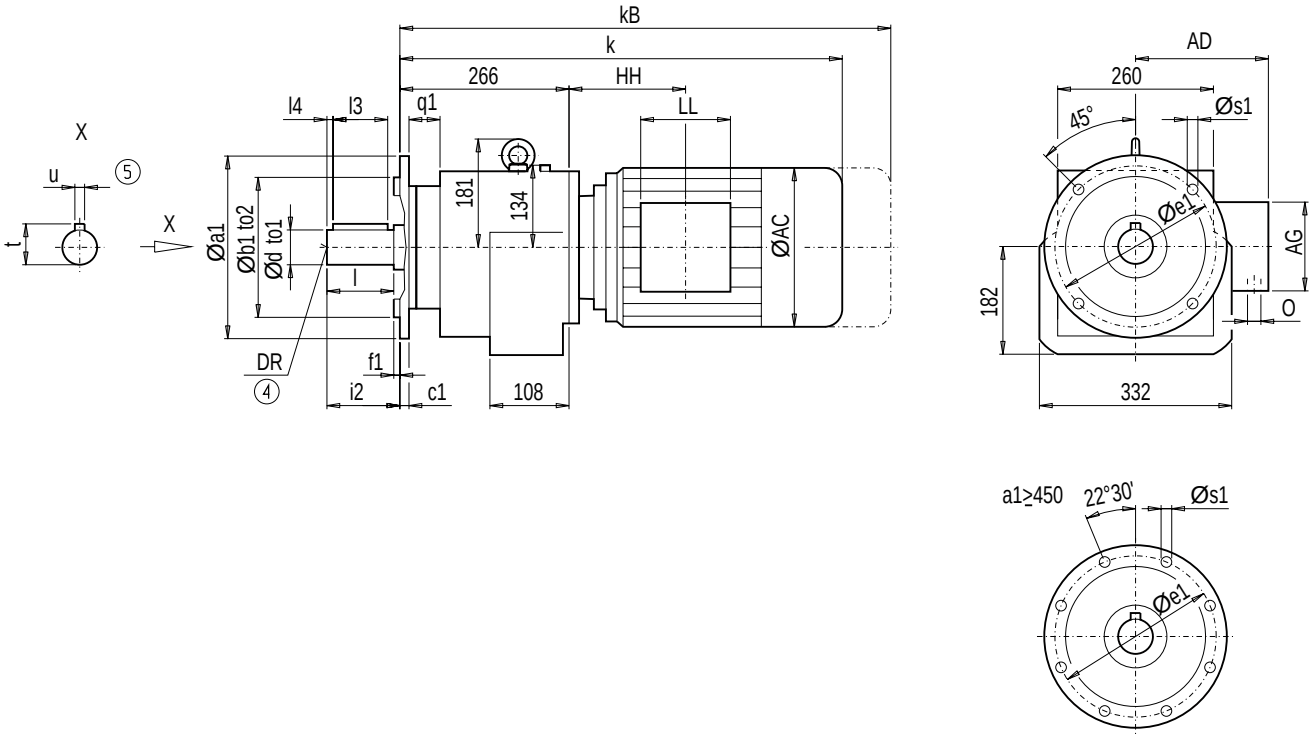
	Z88		D88						Z88	D88		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**Z88**	**D88**
LA71	–	–	523.0	578.0	139.0	146.0	90	90	–	113.0	M20x1.5/M25x1.5	–	76
LA71Z	–	–	542.0	597.0	139.0	146.0	90	90	–	113.0	M20x1.5/M25x1.5	–	76
LA80	–	–	560.0	623.5	156.5	155.0	90	90	–	112.5	M20x1.5/M25x1.5	–	81
LA90S	566.0	637.0	591.0	662.0	174.0	163.0	90	90	87.5	112.5	M20x1.5/M25x1.5	85	86
LA90L	566.0	637.0	591.0	662.0	174.0	163.0	90	90	87.5	112.5	M20x1.5/M25x1.5	85	86
LA100L	609.5	690.5	637.0	718.0	195.0	168.0	120	120	125.5	153.0	2xM32x1.5	93	95
LA112M	635.5	716.5	664.5	745.5	219.0	181.0	120	120	127.5	156.5	2xM32x1.5	106	107
LA132S	695.5	797.5	723.5	825.5	259.0	195.0	140	140	168.0	196.0	2xM32x1.5	117	120
LA132M	695.5	797.5	723.5	825.5	259.0	195.0	140	140	168.0	196.0	2xM32x1.5	117	120
LA132ZM	741.5	843.5	769.5	871.5	259.0	195.0	140	140	168.0	196.0	2xM32x1.5	126	129
LA160M	800.0	918.5	–	–	313.5	227.0	165	165	195.5	–	2xM40x1.5	152	–
LA160L	800.0	918.5	–	–	313.5	227.0	165	165	195.5	–	2xM40x1.5	152	–
LG180M	859.5	981.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	244	–
LG180ZM	910.5	1 032.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	274	–
LG180L	859.5	981.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	244	–
LG180ZL	910.5	1 032.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	274	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

	ZF88		DF88						ZF88	DF88		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**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
LA90S	566.0	637.0	591.0	662.0	174.0	163.0	90	90	87.5	112.5	M20x1.5/M25x1.5	87	88
LA90L	566.0	637.0	591.0	662.0	174.0	163.0	90	90	87.5	112.5	M20x1.5/M25x1.5	87	88
LA100L	609.5	690.5	637.0	718.0	195.0	168.0	120	120	125.5	153.0	2xM32x1.5	95	97
LA112M	635.5	716.5	664.5	745.5	219.0	181.0	120	120	127.5	156.5	2xM32x1.5	108	109
LA132S	695.5	797.5	723.5	825.5	259.0	195.0	140	140	168.0	196.0	2xM32x1.5	119	122
LA132M	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	168.0	196.0	2xM32x1.5	128	131
LA160M	800.0	918.5	–	–	313.5	227.0	165	165	195.5	–	2xM40x1.5	154	–
LA160L	800.0	918.5	–	–	313.5	227.0	165	165	195.5	–	2xM40x1.5	154	–
LG180M	859.5	981.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	246	–
LG180ZM	910.5	1 032.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	276	–
LG180L	859.5	981.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	246	–
LG180ZL	910.5	1 032.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	276	–

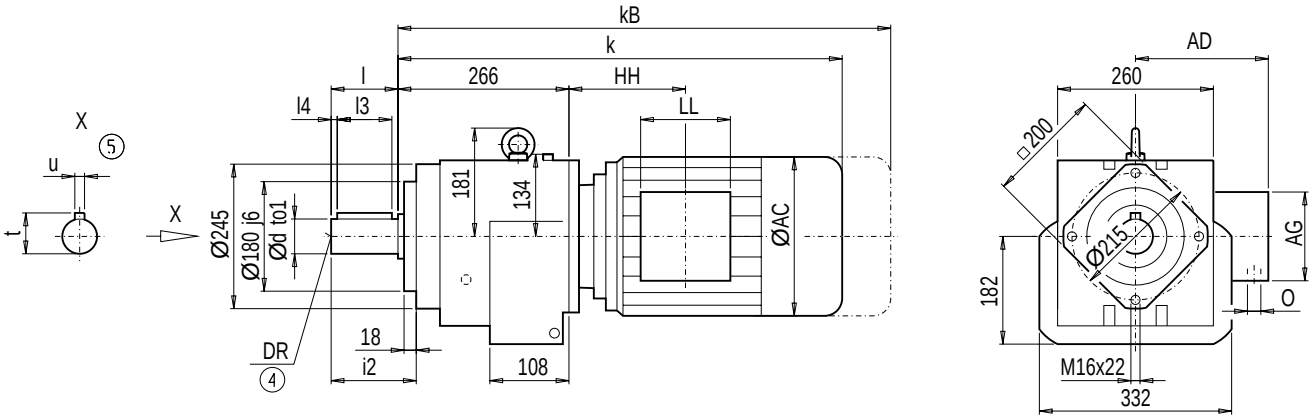
④ DIN 332

⑤ Feather key / keyway DIN 6885

Dimensions

Gearbox DZ/ZZ88 (3- / 2-stage), housing-flange-mounted design (C-type)

DZZ011



d	to1	l	l4	l3	t	u	i2	DR
50 *)	k6	100	10	80	53.5	14	122	M16x36
60	m6	120	10	100	64.0	18	142	M20x42

*) Preferred series

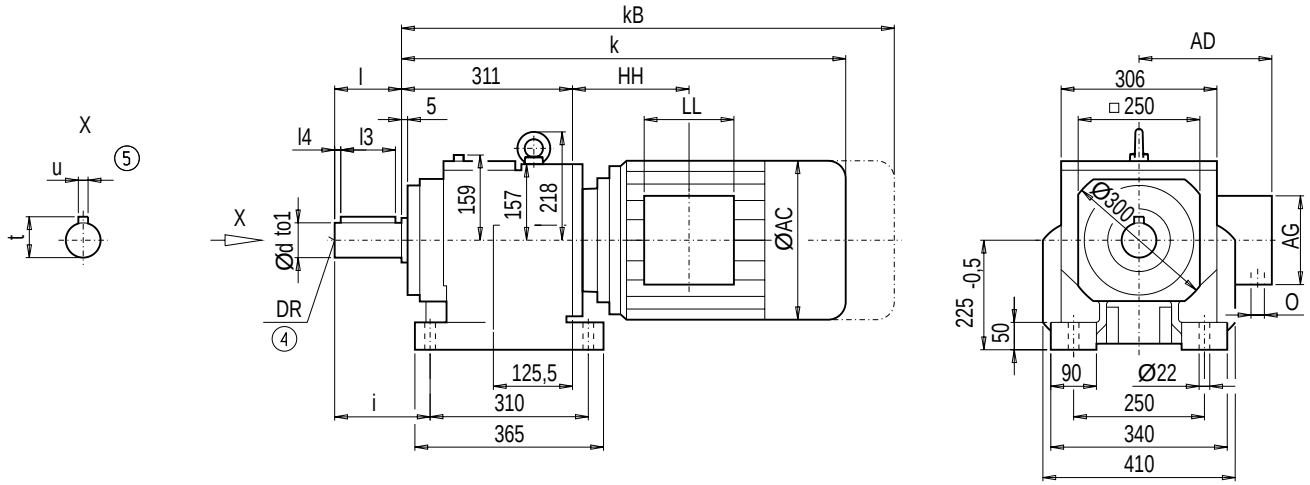
	ZZ88		DZ88						ZZ88	DZ88		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZZ88**	**DZ88**
LA71	–	–	523.0	578.0	139.0	146.0	90	90	–	113.0	M20x1.5/M25x1.5	–	69
LA71Z	–	–	542.0	597.0	139.0	146.0	90	90	–	113.0	M20x1.5/M25x1.5	–	69
LA80	–	–	560.0	623.5	156.5	155.0	90	90	–	112.5	M20x1.5/M25x1.5	–	74
LA90S	566.0	637.0	591.0	662.0	174.0	163.0	90	90	87.5	112.5	M20x1.5/M25x1.5	79	79
LA90L	566.0	637.0	591.0	662.0	174.0	163.0	90	90	87.5	112.5	M20x1.5/M25x1.5	79	79
LA100L	609.5	690.5	637.0	718.0	195.0	168.0	120	120	125.5	153.0	2xM32x1.5	87	88
LA112M	635.5	716.5	664.5	745.5	219.0	181.0	120	120	127.5	156.5	2xM32x1.5	99	101
LA132S	695.5	797.5	723.5	825.5	259.0	195.0	140	140	168.0	196.0	2xM32x1.5	110	113
LA132M	695.5	797.5	723.5	825.5	259.0	195.0	140	140	168.0	196.0	2xM32x1.5	110	113
LA132ZM	741.5	843.5	769.5	871.5	259.0	195.0	140	140	168.0	196.0	2xM32x1.5	120	122
LA160M	800.0	918.5	–	–	313.5	227.0	165	165	195.5	–	2xM40x1.5	145	–
LA160L	800.0	918.5	–	–	313.5	227.0	165	165	195.5	–	2xM40x1.5	145	–
LG180M	859.5	981.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	237	–
LG180ZM	910.5	1 032.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	267	–
LG180L	859.5	981.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	237	–
LG180ZL	910.5	1 032.5	–	–	348.0	322.5	260	192	212.5	–	2xM40x1.5	267	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

	Z108		D108						Z108	D108		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**Z108**	**D108**
LA80	–	–	599.0	662.5	156.5	155.0	90	90	–	106.5	M20x1.5/M25x1.5	–	130
LA90S	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	133	135
LA90L	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	133	135
LA100L	642.5	723.5	676.0	757.0	195.0	168.0	120	120	113.5	147.0	2xM32x1.5	141	144
LA112M	669.0	750.0	700.5	781.5	219.0	181.0	120	120	116.0	147.5	2xM32x1.5	152	156
LA132S	728.0	830.0	760.5	862.5	259.0	195.0	140	140	155.5	188.0	2xM32x1.5	163	168
LA132M	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	155.5	188.0	2xM32x1.5	172	177
LA160M	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	198	205
LA160L	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	198	205
LG180M	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	294	–
LG180ZM	941.0	1 063.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	324	–
LG180L	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	294	–
LG180ZL	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	196.5	–	2xM50x1.5	530	–
K4-LGI225M	1 206.5	1 445.5	–	–	442.0	325.0	260	192	196.5	–	2xM50x1.5	518	–
K4-LGI225ZM	1 266.5	1 505.5	–	–	442.0	325.0	260	192	196.5	–	2xM50x1.5	576	–

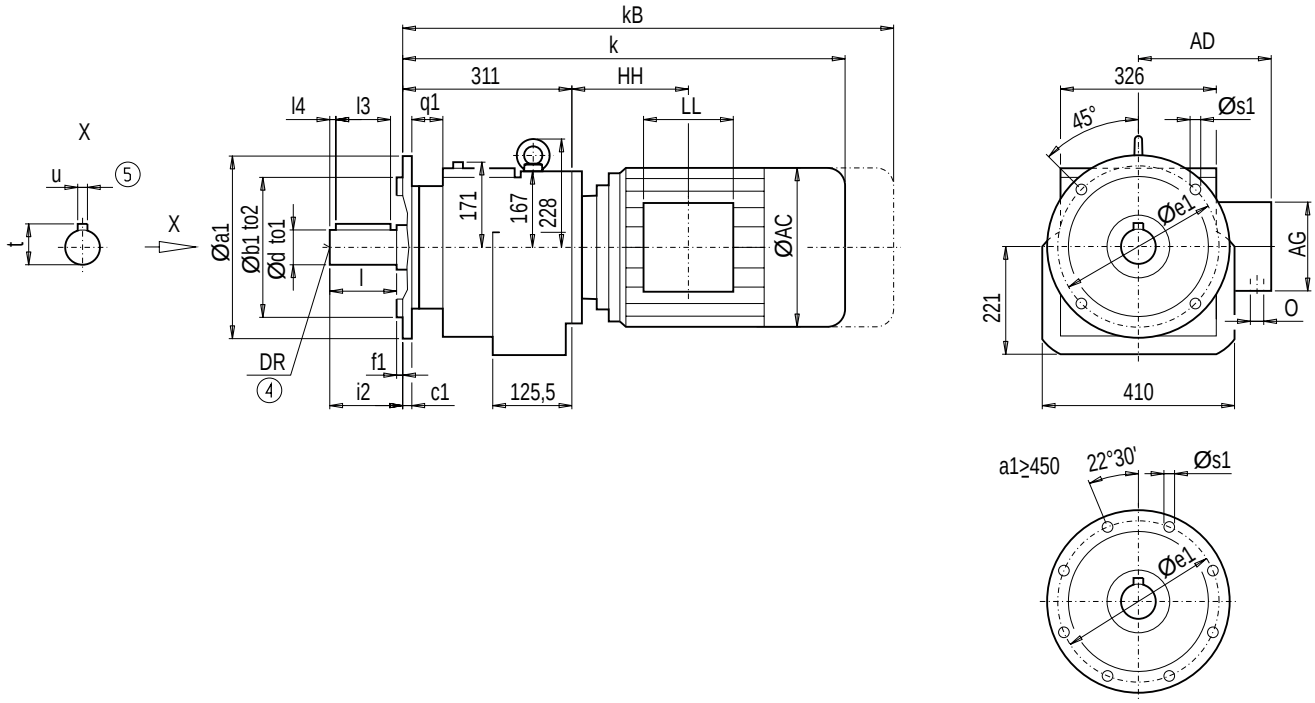
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

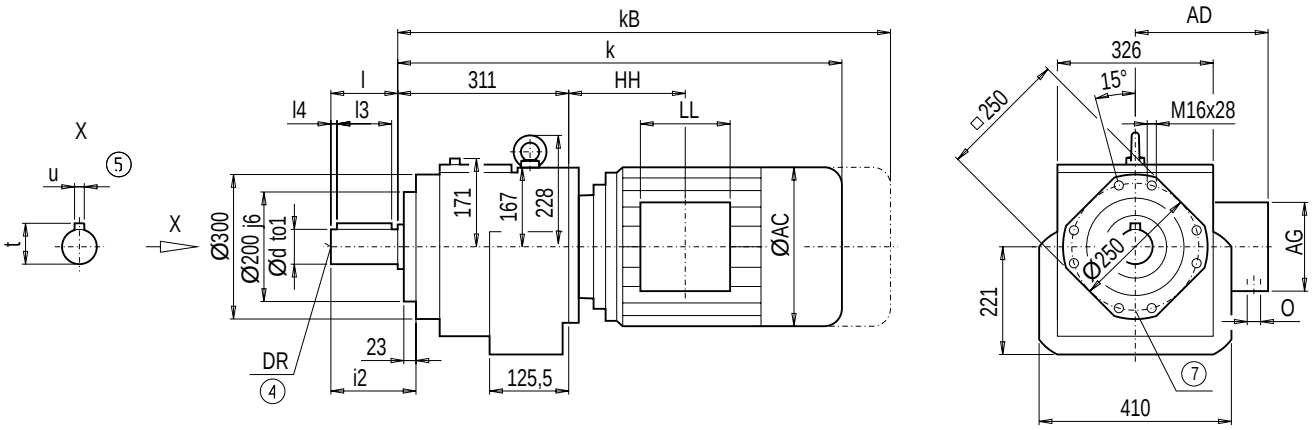
	ZF108		DF108						ZF108	DF108		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZF108**	**DF108**
LA80	–	–	599.0	662.5	156.5	155.0	90	90	–	106.5	M20x1.5/M25x1.5	–	129
LA90S	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	131	134
LA90L	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	131	134
LA100L	642.5	727.5	676.0	757.0	195.0	168.0	120	120	113.5	147.0	2xM32x1.5	139	143
LA112M	669.0	750.0	700.5	781.5	219.0	181.0	120	120	116.0	147.5	2xM32x1.5	151	155
LA132S	728.0	830.0	760.5	862.5	259.0	195.0	140	140	155.5	188.0	2xM32x1.5	162	167
LA132M	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	155.5	188.0	2xM32x1.5	171	176
LA160M	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	196	204
LA160L	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	196	204
LG180M	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	293	–
LG180ZM	941.0	1 063.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	323	–
LG180L	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	293	–
LG180ZL	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	196.5	–	2xM50x1.5	529	–
K4-LGI225M	1 206.5	1 445.5	–	–	442.0	325.0	260	192	196.5	–	2xM50x1.5	517	–
K4-LGI225ZM	1 266.5	1 505.5	–	–	442.0	325.0	260	192	196.5	–	2xM50x1.5	575	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

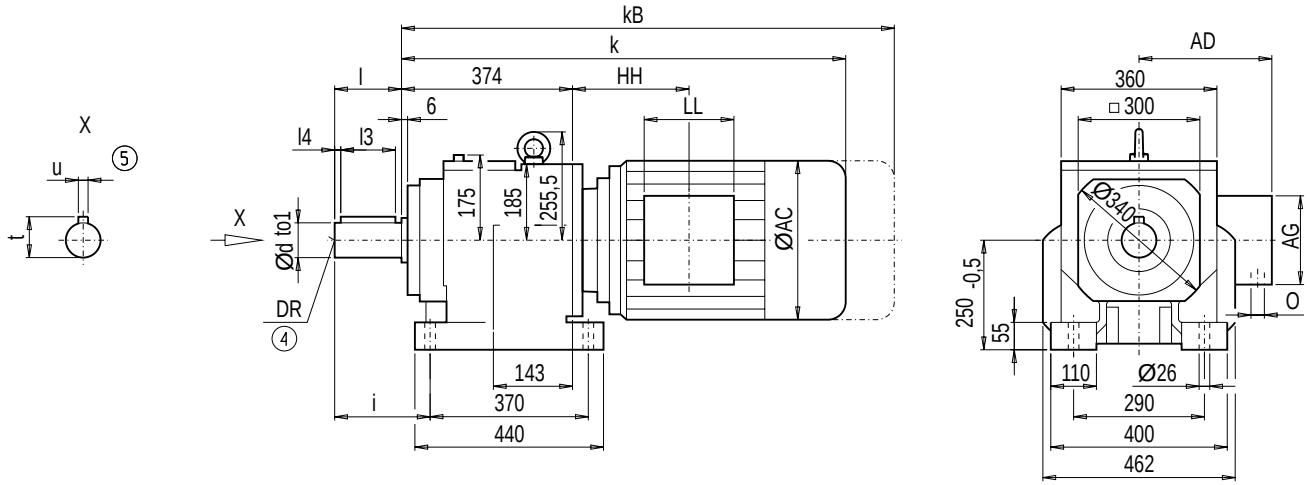
	ZZ108		DZ108						ZZ108	DZ108		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZZ108**	**DZ108**
LA80	–	–	599.0	662.5	156.5	155.0	90	90	–	106.5	M20x1.5/M25x1.5	–	121
LA90S	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	124	126
LA90L	599.5	670.5	630.0	701.0	174.0	163.0	90	90	76.0	106.5	M20x1.5/M25x1.5	124	126
LA100L	642.5	727.5	676.0	757.0	195.0	168.0	120	120	113.5	147.0	2xM32x1.5	132	135
LA112M	669.0	750.0	700.5	781.5	219.0	181.0	120	120	116.0	147.5	2xM32x1.5	144	147
LA132S	728.0	830.0	760.5	862.5	259.0	195.0	140	140	155.5	188.0	2xM32x1.5	154	159
LA132M	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	155.5	188.0	2xM32x1.5	163	168
LA160M	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	189	196
LA160L	833.5	952.0	863.0	981.5	313.5	227.0	165	165	184.0	213.5	2xM40x1.5	189	196
LG180M	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	285	–
LG180ZM	941.0	1 063.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	315	–
LG180L	890.0	1 012.0	–	–	348.0	322.5	260	192	198.0	–	2xM40x1.5	285	–
LG180ZL	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	196.5	–	2xM50x1.5	521	–
K4-LGI225M	1 206.5	1 445.5	–	–	442.0	325.0	260	192	196.5	–	2xM50x1.5	509	–
K4-LGI225ZM	1 266.5	1 505.5	–	–	442.0	325.0	260	192	196.5	–	2xM50x1.5	567	–

④ DIN 332 ⑤ Feather key / keyway DIN 6885 ⑦ For note, see page 2/192

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

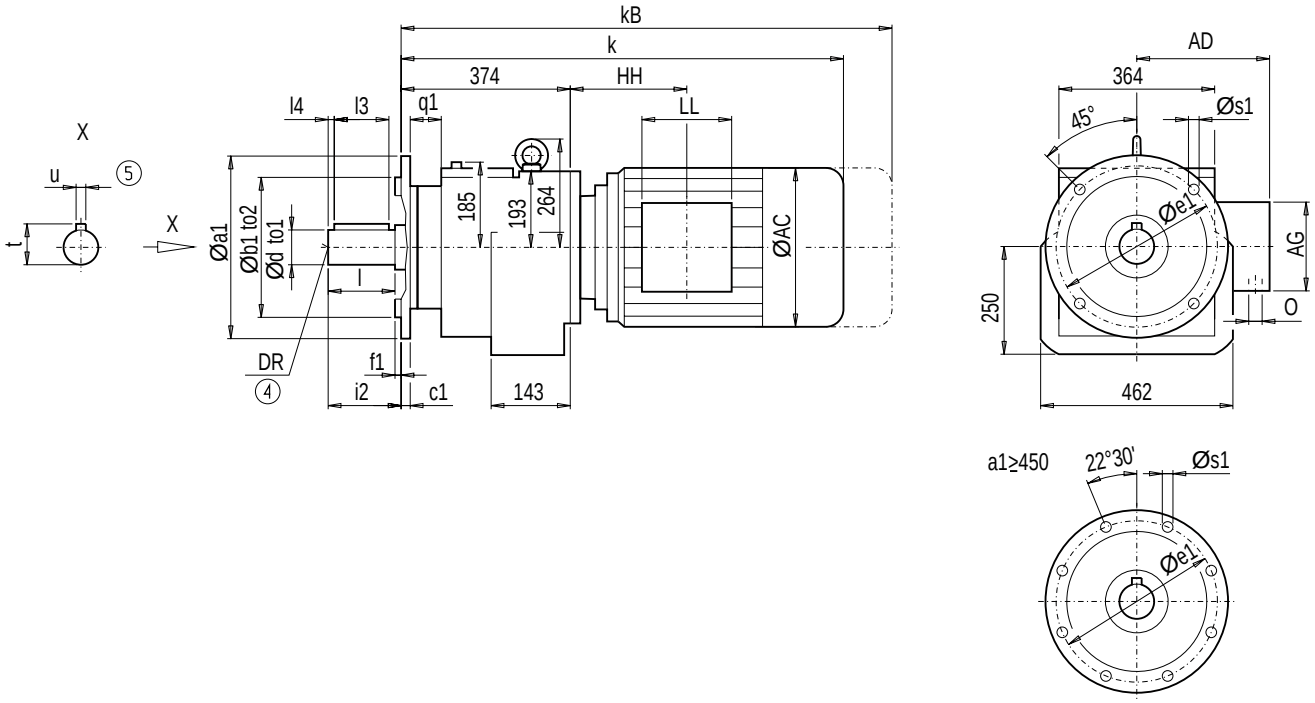
	Z128		D128						Z128	D128		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**Z128**	**D128**
LA90S	–	–	686.0	757.0	174.0	163.0	90	90	–	99.5	M20x1.5/M25x1.5	–	212
LA90L	–	–	686.0	757.0	174.0	163.0	90	90	–	99.5	M20x1.5/M25x1.5	–	212
LA100L	696.0	777.0	732.0	813.0	195.0	168.0	120	120	104.0	140.0	2xM32x1.5	214	221
LA112M	721.5	802.5	755.5	836.5	219.0	181.0	120	120	105.5	139.5	2xM32x1.5	226	233
LA132S	780.5	882.5	814.5	916.5	259.0	195.0	140	140	145.0	179.0	2xM32x1.5	235	246
LA132M	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	145.0	179.0	2xM32x1.5	244	255
LA160M	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	274	282
LA160L	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	274	282
LG180M	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	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
LG180L	939.5	1 061.5	976.5	1 098.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	365	378
LG180ZL	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	1 066.0	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	522	–
LG225M	1 066.0	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	510	–
LG225ZM	1 126.0	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	237.5	–	2xM63x1.5	689	–
K4-LGI250ZM	1 423.5	1 648.5	–	–	495.0	392.0	300	236	237.5	–	2xM63x1.5	792	–

④ DIN 332

⑤ 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 > 3.500 Nm, the flange must be pinned. We recommend you use 2 pins with a 12 mm diameter.
*) Preferred series

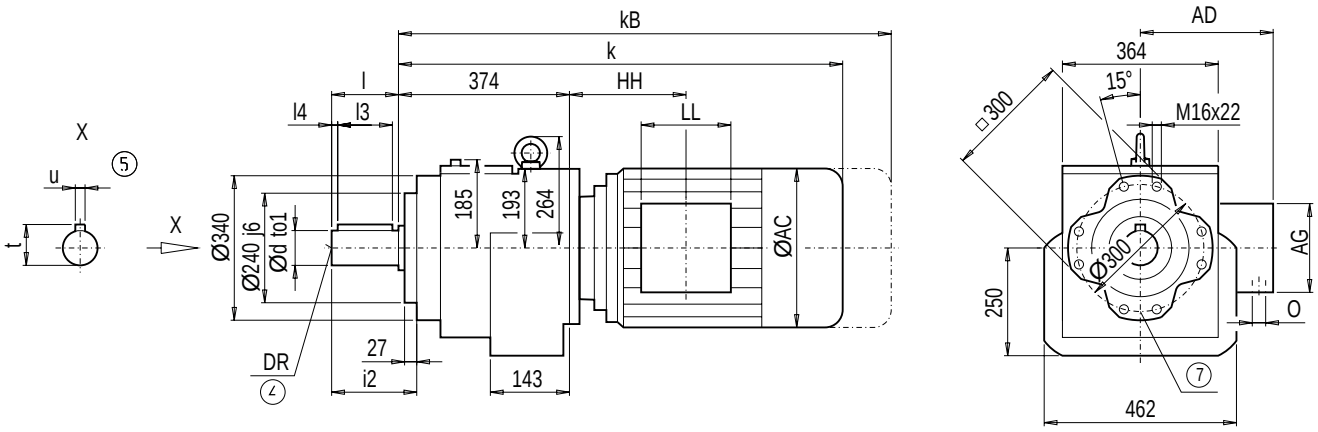
	ZF128		DF128						ZF128	DF128		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZF128**	**DF128**
LA90S	–	–	686.0	757.0	174.0	163.0	90	90	–	99.5	M20x1.5/M25x1.5	–	206
LA90L	–	–	686.0	757.0	174.0	163.0	90	90	–	99.5	M20x1.5/M25x1.5	–	206
LA100L	696.0	777.0	732.0	813.0	195.0	168.0	120	120	104.0	140.0	2xM32x1.5	209	216
LA112M	721.5	802.5	755.5	836.5	219.0	181.0	120	120	105.5	139.5	2xM32x1.5	220	227
LA132S	780.5	882.5	814.5	916.5	259.0	195.0	140	140	145.0	179.0	2xM32x1.5	230	240
LA132M	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	145.0	179.0	2xM32x1.5	239	249
LA160M	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	269	276
LA160L	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	269	276
LG180M	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	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
LG180L	939.5	1 061.5	976.5	1 098.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	360	372
LG180ZL	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	1 066.0	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	517	–
LG225M	1 066.0	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	505	–
LG225ZM	1 126.0	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	237.5	–	2xM63x1.5	684	–
K4-LGI250ZM	1 423.5	1 648.5	–	–	495.0	392.0	300	236	237.5	–	2xM63x1.5	787	–

④ DIN 332
⑤ Feather key / keyway DIN 6885

Dimensions

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

DZZ011



d	to1	l	l4	l3	t	u	i2	DR
70 *)	m6	140	15	110	74.5	20	173	M20x42
90	m6	170	15	140	95.0	25	203	M24x50

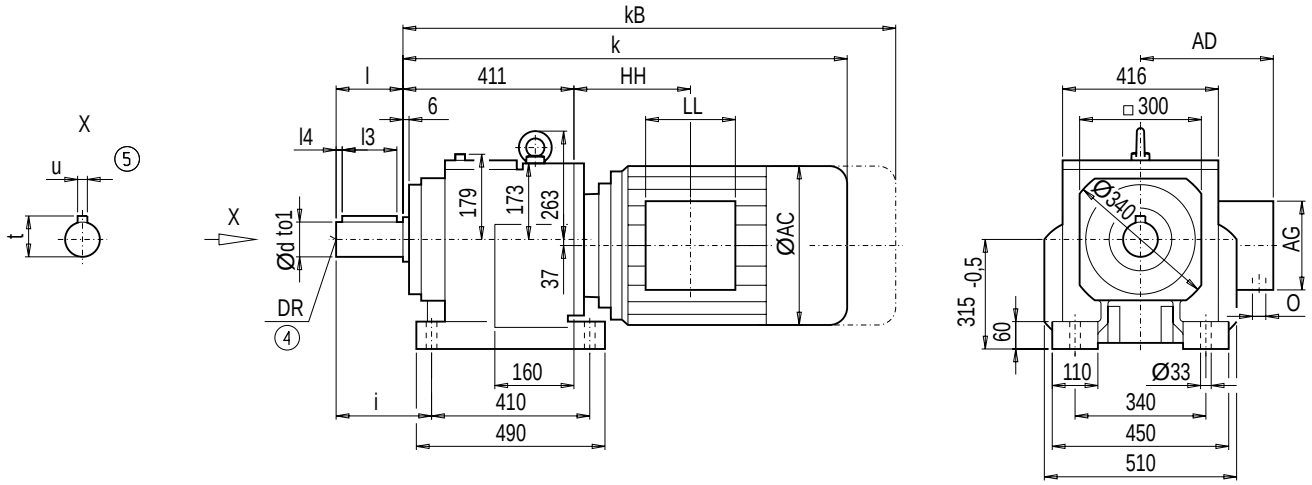
*) Preferred series

	ZZ128		DZ128						ZZ128	DZ128		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZZ128**	**DZ128**
LA90S	–	–	686.0	757.0	174.0	163.0	90	90	–	99.5	M20x1.5/M25x1.5	–	190
LA90L	–	–	686.0	757.0	174.0	163.0	90	90	–	99.5	M20x1.5/M25x1.5	–	190
LA100L	696.0	777.0	732.0	813.0	195.0	168.0	120	120	104.0	140.0	2xM32x1.5	192	199
LA112M	721.5	802.5	755.5	836.5	219.0	181.0	120	120	105.5	139.5	2xM32x1.5	203	210
LA132S	780.5	882.5	814.5	916.5	259.0	195.0	140	140	145.0	179.0	2xM32x1.5	213	223
LA132M	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	145.0	179.0	2xM32x1.5	222	233
LA160M	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	252	259
LA160L	880.0	998.5	917.0	1 035.5	313.5	227.0	165	165	167.5	204.5	2xM40x1.5	252	259
LG180M	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	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
LG180L	939.5	1 061.5	976.5	1 098.5	348.0	322.5	260	192	184.5	221.5	2xM40x1.5	343	355
LG180ZL	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	1 066.0	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	500	–
LG225M	1 066.0	1 305.5	–	–	442.0	325.0	260	192	250.5	–	2xM50x1.5	488	–
LG225ZM	1 126.0	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	237.5	–	2xM63x1.5	667	–
K4-LGI250ZM	1 423.5	1 648.5	–	–	495.0	392.0	300	236	237.5	–	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

	Z148		D148						Z148	D148		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**Z148**	**D148**
LA100L	–	–	764.0	845.0	195.0	168.0	120	120	–	135.0	2xM32x1.5	–	313
LA112M	–	–	789.5	870.5	219.0	181.0	120	120	–	136.5	2xM32x1.5	–	324
LA132S	809.5	911.5	847.5	949.5	259.0	195.0	140	140	137.0	175.0	2xM32x1.5	325	336
LA132M	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	137.0	175.0	2xM32x1.5	334	345
LA160M	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	359	371
LA160L	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	359	371
LG180M	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	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
LG180L	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
LG180ZL	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	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	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	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	252.5	–	2xM63x1.5	929	–
K4-LGI280M	1 468.5	1 695.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	941	–
K4-LGI280ZM	1 578.5	1 805.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	1 029	–

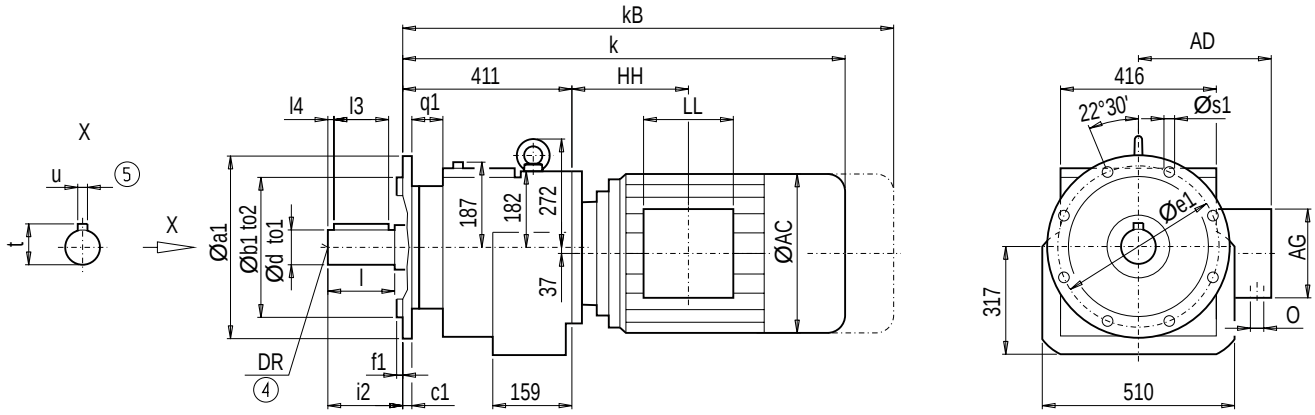
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

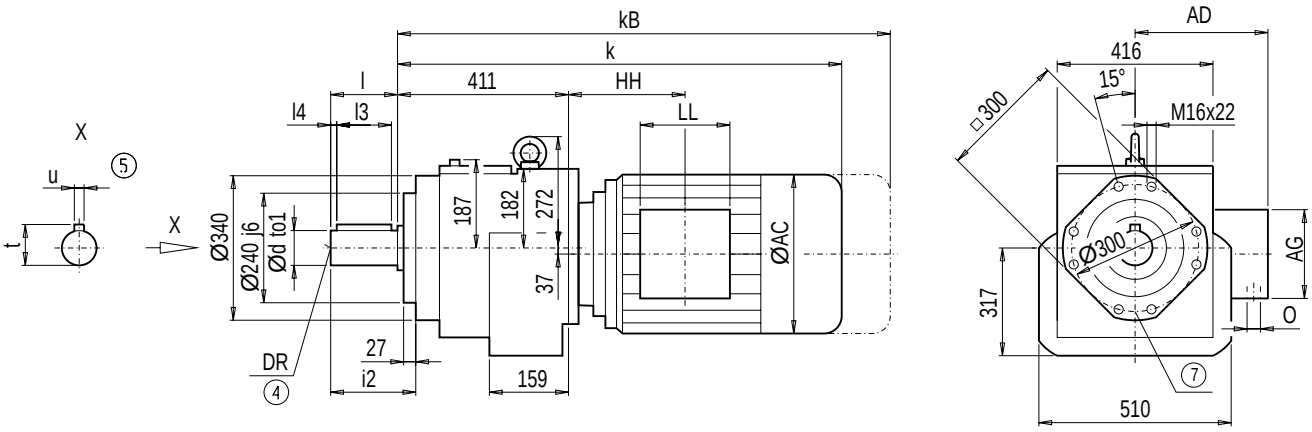
	ZF148		DF148						ZF148	DF148		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZF148**	**DF148**
LA100L	–	–	764.0	845.0	195.0	168.0	120	120	–	135.0	2xM32x1.5	–	307
LA112M	–	–	789.5	870.5	219.0	181.0	120	120	–	136.5	2xM32x1.5	–	318
LA132S	809.5	911.5	847.5	949.5	259.0	195.0	140	140	137.0	175.0	2xM32x1.5	319	330
LA132M	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	137.0	175.0	2xM32x1.5	328	339
LA160M	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	353	365
LA160L	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	353	365
LG180M	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	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
LG180L	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
LG180ZL	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	252.5	–	2xM63x1.5	923	–
K4-LGI280M	1 468.5	1 695.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	941	–
K4-LGI280ZM	1 578.5	1 805.5	–	–	555.0	432.0	300	236	252.5	–	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

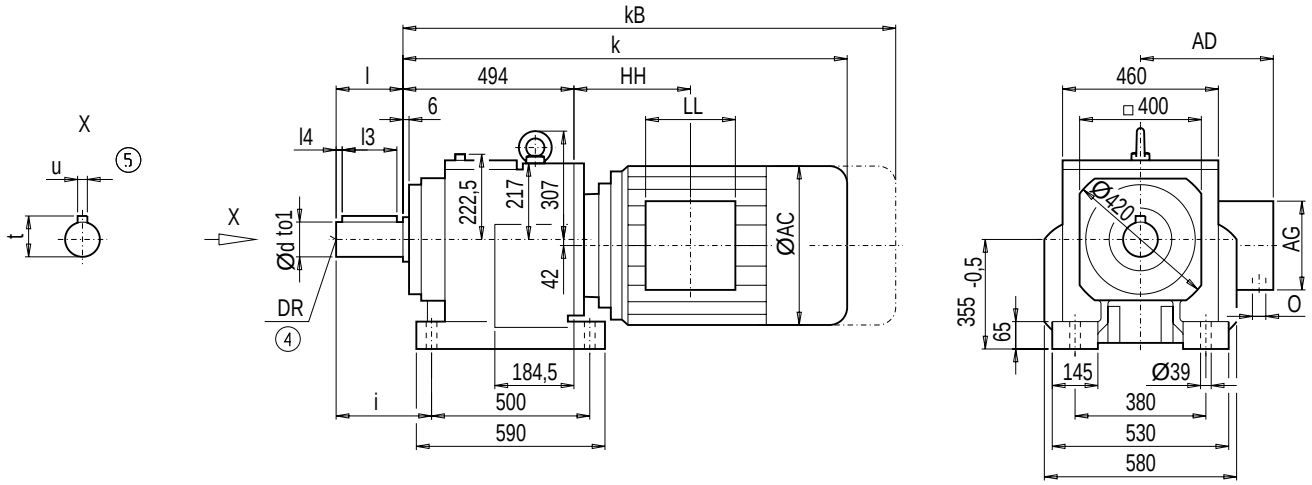
	ZZ148		DZ148						ZZ148	DZ148		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZZ148**	**DZ148**
LA100L	–	–	764.0	845.0	195.0	168.0	120	120	–	135.0	2xM32x1.5	–	283
LA112M	–	–	789.5	870.5	219.0	181.0	120	120	–	136.5	2xM32x1.5	–	294
LA132S	809.5	911.5	847.5	949.5	259.0	195.0	140	140	137.0	175.0	2xM32x1.5	302	306
LA132M	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	137.0	175.0	2xM32x1.5	311	315
LA160M	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	336	341
LA160L	909.5	1 028.0	947.5	1 066.0	313.5	227.0	165	165	160.0	198.0	2xM40x1.5	336	341
LG180M	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	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
LG180L	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
LG180ZL	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	252.5	–	2xM63x1.5	906	–
K4-LGI280M	1 468.5	1 695.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	918	–
K4-LGI280ZM	1 578.5	1 805.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	1 006	–

④ DIN 332 ⑤ Feather key / keyway DIN 6885 ⑦ For note, see page 2/192

Dimensions

Gearbox D/Z168 (3- / 2-stage), foot-mounted design

DZ011



d	to1	l	l4	l3	t	u	i	DR
100 *)	m6	210	15	180	106	28	260	M24x50
110	m6	210	15	180	116	28	260	M24x50
120	m6	210	15	180	127	32	260	M24x50

*) Preferred series

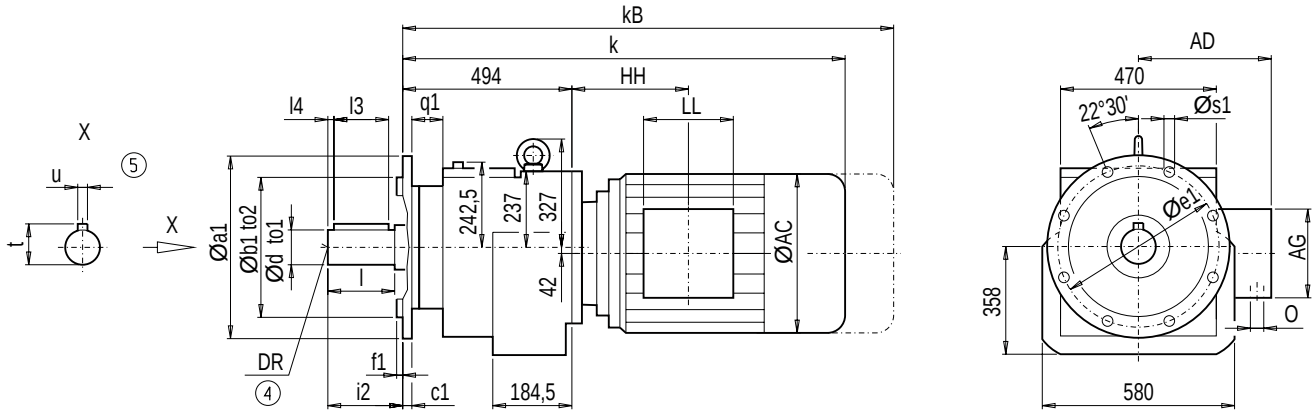
	Z168		D168						Z168	D168		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**Z168**	**D168**
LA132S	878.0	980.0	919.0	1 021.0	259.0	195.0	140	140	122.5	163.5	2xM32x1.5	491	508
LA132M	878.0	980.0	919.0	1 021.0	259.0	195.0	140	140	122.5	163.5	2xM32x1.5	491	508
LA132ZM	924.0	1 026.0	965.0	1 067.0	259.0	195.0	140	140	122.5	163.5	2xM32x1.5	500	517
LA160M	978.0	1 096.5	1 019.0	1 137.5	313.5	227.0	165	165	145.5	186.5	2xM40x1.5	524	543
LA160L	978.0	1 096.5	1 019.0	1 137.5	313.5	227.0	165	165	145.5	186.5	2xM40x1.5	524	543
LG180M	1 037.5	1 159.5	1 078.5	1 200.5	348.0	322.5	260	192	162.5	203.5	2xM40x1.5	620	639
LG180ZM	1 088.5	1 210.5	1 129.5	1 251.5	348.0	322.5	260	192	162.5	203.5	2xM40x1.5	650	669
LG180L	1 037.5	1 159.5	1 078.5	1 200.5	348.0	322.5	260	192	162.5	203.5	2xM40x1.5	620	639
LG180ZL	1 088.5	1 210.5	1 129.5	1 251.5	348.0	322.5	260	192	162.5	203.5	2xM40x1.5	650	669
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	700	719
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	772	792
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	760	780
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	818	838
LG250M	1 258.0	1 483.0	–	–	495.0	392.0	300	236	264.0	–	2xM63x1.5	862	–
LG250ZM	1 328.0	1 553.5	–	–	495.0	392.0	300	236	264.0	–	2xM63x1.5	965	–
K4-LGI280S	1 537.5	1 764.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	991	–
K4-LGI280M	1 537.5	1 764.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	1 097	–
K4-LGI280ZM	1 647.5	1 874.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	1 185	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

	ZF168		DF168						ZF168	DF168		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZF168**	**DF168**
LA132S	878.0	980.0	919.0	1 021.0	259.0	195.0	140	140	122.5	163.5	2xM32x1.5	466	484
LA132M	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	122.5	163.5	2xM32x1.5	475	493
LA160M	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
LA160L	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
LG180M	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	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
LG180L	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
LG180ZL	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	252.5	–	2xM63x1.5	966	–
K4-LGI280M	1 537.5	1 764.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	1 072	–
K4-LGI280ZM	1 647.5	1 874.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	1 160	–

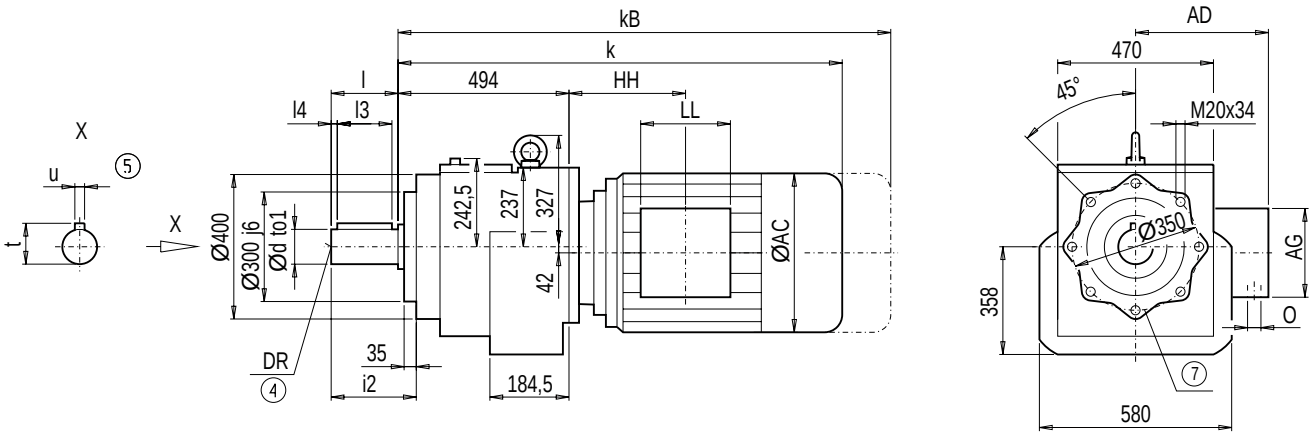
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

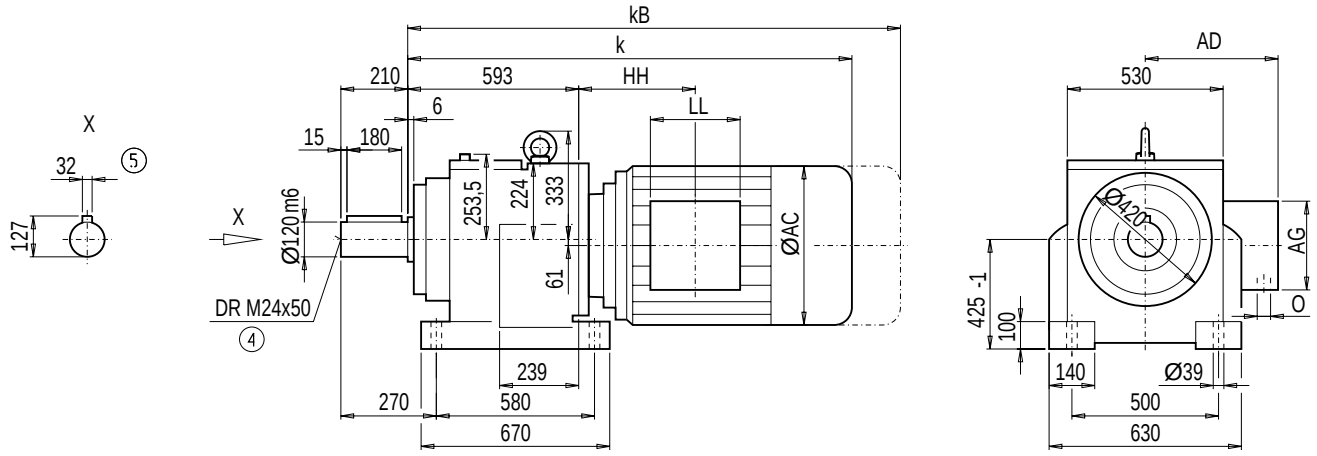
*) Preferred series

	ZZ168		DZ168						ZZ168	DZ168		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZZ168**	**DZ168**
LA132S	878.0	980.0	919.0	1 021.0	259.0	195.0	140	140	122.5	163.5	2xM32x1.5	447	465
LA132M	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	122.5	163.5	2xM32x1.5	456	474
LA160M	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
LA160L	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
LG180M	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	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
LG180L	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
LG180ZL	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	252.5	–	2xM63x1.5	947	–
K4-LGI280M	1 537.5	1 764.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	1 053	–
K4-LGI280ZM	1 647.5	1 874.5	–	–	555.0	432.0	300	236	252.5	–	2xM63x1.5	1 141	–

④ DIN 332 ⑤ Feather key / keyway DIN 6885 ⑦ For note, see page 2/192

Gearbox D/Z188 (3- / 2-stage), foot-mounted design

DZ011



Motor	Z188 k	Z188 kB	D188 k	D188 kB	AC	AD	AG	LL	Z188 HH	D188 HH	O	Weight Z188	Weight D188
LA132S	–	–	977.0	1 079.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	652
LA132M	–	–	977.0	1 079.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	652
LA132ZM	–	–	1 023.0	1 125.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	661
LA160M	1 077.0	1 195.5	1 077.0	1 195.5	313.5	227.0	165	165	145.5	145.5	2xM40x1.5	654	684
LA160L	1 077.0	1 195.5	1 077.0	1 195.5	313.5	227.0	165	165	145.5	145.5	2xM40x1.5	654	684
LG180M	1 136.5	1 258.5	1 136.5	1 258.5	348.0	322.5	260	192	162.5	162.5	2xM40x1.5	750	779
LG180ZM	1 187.5	1 309.5	1 187.5	1 309.5	348.0	322.5	260	192	162.5	162.5	2xM40x1.5	780	809
LG180L	1 136.5	1 258.5	1 136.5	1 258.5	348.0	322.5	260	192	162.5	162.5	2xM40x1.5	750	779
LG180ZL	1 187.5	1 309.5	1 187.5	1 309.5	348.0	322.5	260	192	162.5	162.5	2xM40x1.5	780	809
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	830	859
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	903	932
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	891	920
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	949	978
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	993	1022
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	1 096	1 125
K4-LGI280S	1 636.5	1 863.5	1 636.5	1 863.5	555.0	432.0	300	236	252.5	252.5	2xM63x1.5	1 121	1 151
K4-LGI280M	1 636.5	1 863.5	1 636.5	1 863.5	555.0	432.0	300	236	252.5	252.5	2xM63x1.5	1 227	1 256
K4-LGI280ZM	1 746.5	1 973.5	1 746.5	1 973.5	555.0	432.0	300	236	252.5	252.5	2xM63x1.5	1 315	1 344
K2-LGI315S	1 824.5	2 089.5	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 421	–
K2-LGI315M	1 824.5	2 089.5	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 501	–
K2-LGI315L	1 984.5	-	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 646	–
K2-LGI315ZL	2 124.5	-	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	2 048	–

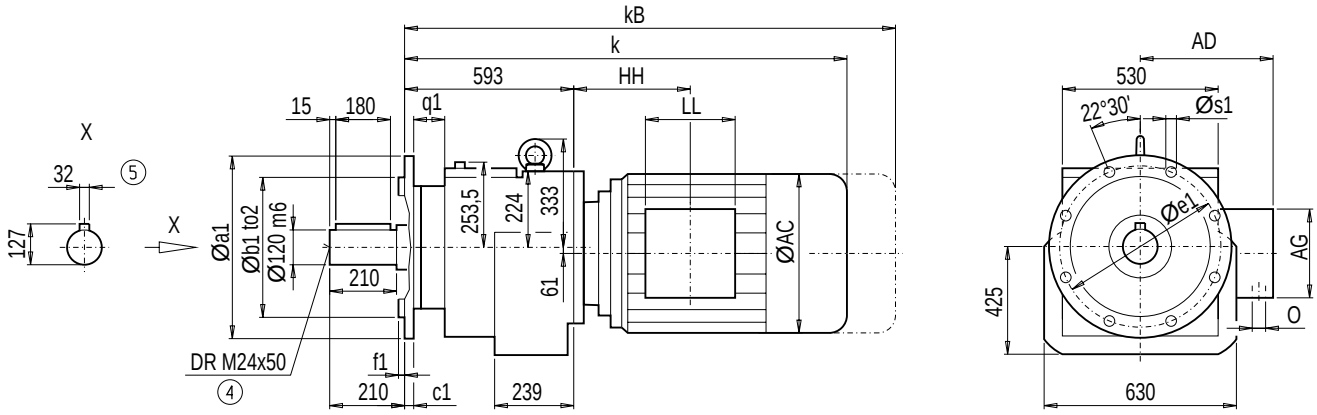
④ DIN 332

⑤ Feather key / keyway DIN 6885

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

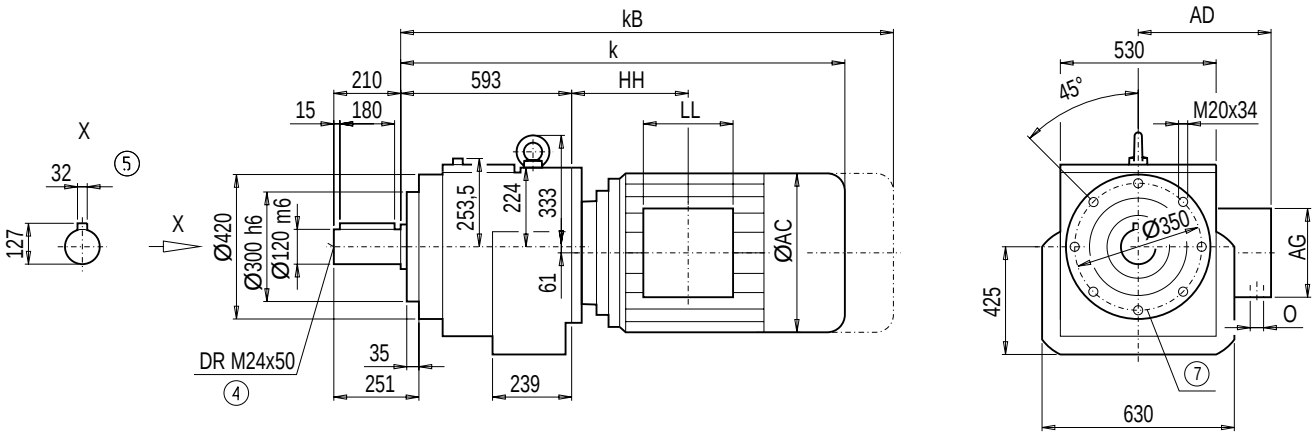
	ZF188		DF188						ZF188	DF188		Weight	
Motor	**k**	**kB**	**k**	**kB**	**AC**	**AD**	**AG**	**LL**	**HH**	**HH**	**O**	**ZF188**	**DF188**
LA132S	–	–	977.0	1 079.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	600
LA132M	–	–	977.0	1 079.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	600
LA132ZM	–	–	1 023.0	1 125.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	609
LA160M	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
LA160L	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
LG180M	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	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
LG180L	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
LG180ZL	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	252.5	252.5	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	252.5	252.5	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	252.5	252.5	2xM63x1.5	1 263	1 292
K2-LGI315S	1 824.5	2 089.5	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 369	–
K2-LGI315M	1 824.5	2 089.5	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 449	–
K2-LGI315L	1 984.5	-	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 594	–
K2-LGI315ZL	2 124.5	-	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 998	–

④ DIN 332

⑤ Feather key / keyway DIN 6885

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

DZZ011

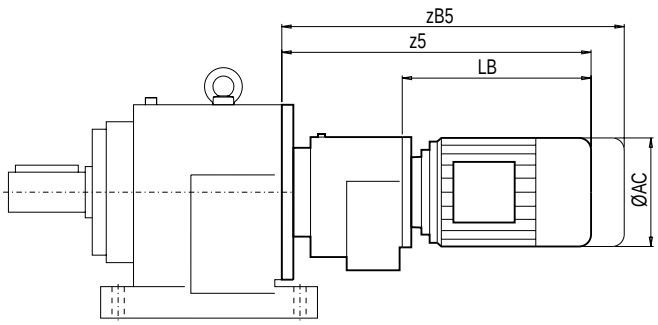


Motor	ZZ188 k	ZZ188 kB	DZ188 k	DZ188 kB	AC	AD	AG	LL	ZZ188 HH	DZ188 HH	O	Weight ZZ188	Weight DZ188
LA132S	–	–	977.0	1 079.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	580
LA132M	–	–	977.0	1 079.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	580
LA132ZM	–	–	1 023.0	1 125.0	259.0	195.0	140	140	–	122.5	2xM32x1.5	–	589
LA160M	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
LA160L	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
LG180M	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	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
LG180L	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
LG180ZL	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	252.5	252.5	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	252.5	252.5	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	252.5	252.5	2xM63x1.5	1 243	1 272
K2-LGI315S	1 824.5	2 089.5	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 349	–
K2-LGI315M	1 824.5	2 089.5	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 501	–
K2-LGI315L	1 984.5	-	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	1 646	–
K2-LGI315ZL	2 124.5	-	–	–	610.0	500.0	379	307	285.5	–	2xM63x1.5	2 048	–

④ DIN 332 ⑤ Feather key / keyway DIN 6885 ⑦ For note, see page 2/192

Dimensions

Helical tandem geared motors



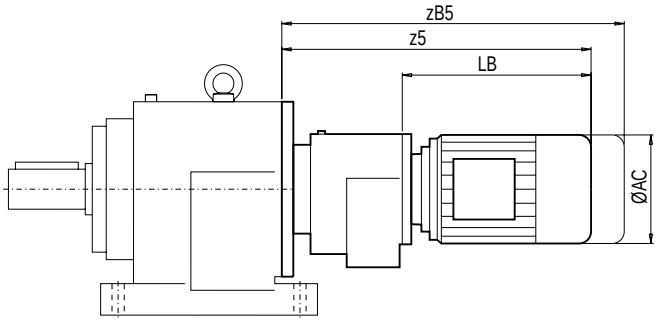
Gearbox	Motor	AC	z5	zB5	LB
Z.38-Z28	LA71	139	363.0	418.0	202.5
	LA71Z	139	382.0	437.0	221.5
	LA90S	174	460.0	531.0	299.5
	LA90L	174	460.0	531.0	299.5
	LA90ZL	174	505.0	576.0	344.5
	LA100L	195	542.0	623.0	381.5
Z.38-D28	LA71	139	363.0	418.0	202.5
	LA71Z	139	382.0	437.0	221.5
	LA90S	174	460.0	531.0	299.5
	LA90L	174	460.0	531.0	299.5
	LA90ZL	174	505.0	576.0	344.5
D.48-Z28	LA71	139	374.5	429.5	202.5
	LA71Z	139	393.5	448.5	221.5
	LA90S	174	471.5	542.5	299.5
	LA90L	174	471.5	542.5	299.5
	LA90ZL	174	516.5	587.5	344.5
	LA100L	195	553.5	634.5	381.5
D.48-D28	LA71	139	374.5	429.5	202.5
	LA71Z	139	393.5	448.5	221.5
	LA90S	174	471.5	542.5	299.5
	LA90L	174	471.5	542.5	299.5
	LA90ZL	174	516.5	587.5	344.5
D.68-Z28	LA71	139	370.0	425.0	202.5
	LA71Z	139	389.0	444.0	221.5
	LA90S	174	467.0	538.0	299.5
	LA90L	174	467.0	538.0	299.5
	LA90ZL	174	512.0	583.0	344.5
	LA100L	195	549.0	630.0	381.5
D.68-D28	LA71	139	370.0	425.0	202.5
	LA71Z	139	389.0	444.0	221.5
	LA90S	174	467.0	538.0	299.5
	LA90L	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
	LA90S	174.0	458.5	529.5	299.5
	LA90L	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

Gearbox	Motor	AC	z5	zB5	LB
D.88-D28	LA71	139.0	361.5	416.5	202.5
	LA71Z	139.0	380.5	435.5	221.5
	LA90S	174.0	458.5	529.5	299.5
	LA90L	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
	LA90S [1]	174.0	552.5	623.5	326.5
	LA90L [1]	174.0	552.5	623.5	326.5
	LA100L [1]	195.0	598.5	679.5	372.5
	LA112M [1]	219.0	628.0	709.0	402.0
	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
	LA90S [2]	174.0	564.0	635.0	326.5
	LA90L [2]	174.0	564.0	635.0	326.5
	LA100L [2]	195.0	610.0	691.0	372.5
	LA112M [2]	219.0	639.5	720.5	402.0
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
	LA90S	174.0	567.5	638.5	341.5
	LA90L	174.0	567.5	638.5	341.5
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
	LA90S	174.0	556.0	627.0	326.5
	LA90L	174.0	556.0	627.0	326.5
	LA100L	195.0	602.0	683.0	372.5
	LA112M	219.0	631.5	712.5	402.0
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
	LA90S	174.0	571.0	642.0	341.5
	LA90L	174.0	571.0	642.0	341.5
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

[1] $i_{tot} \geq 3797$

[2] $i_{tot} < 3797$

Helical tandem geared motors (continued)

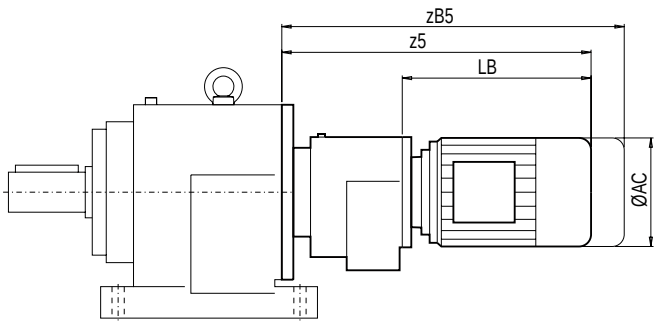


Gearbox	Motor	AC	z5	zB5	LB
D.128-Z48	LA90S	174.0	623.5	694.5	321.0
	LA90L	174.0	623.5	694.5	321.0
	LA100L	195.0	669.5	750.5	367.0
	LA112M	219.0	698.5	779.5	396.0
D.128-Z48	LA132S	259.0	760.5	862.5	458.0
	LA132M	259.0	760.5	862.5	458.0
	LA132ZM	259.0	806.5	908.5	504.0
D.148-Z38	LA71	139.0	485.0	540.0	258.5
	LA71Z	139.0	504.0	559.0	277.5
	LA80	156.5	522.0	585.5	295.5
	LA90S	174.0	553.0	624.0	326.5
	LA90L	174.0	553.0	624.0	326.5
	LA100L	195.0	599.0	680.0	372.5
	LA112M	219.0	628.5	709.5	402.0
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
	LA90S	174.0	568.0	639.0	341.5
	LA90L	174.0	568.0	639.0	341.5
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
	LA90S	174.0	619.5	690.5	321.0
	LA90L	174.0	619.5	690.5	321.0
	LA100L	195.0	665.5	746.5	367.0
	LA112M	219.0	694.5	775.5	396.0
	LA132S	259.0	756.5	858.5	458.0
	LA132M	259.0	756.5	858.5	458.0
	LA132ZM	259.0	802.5	904.5	504.0
D.168-Z48	LA71	139.0	540.0	595.0	253.0
	LA71Z	139.0	559.0	614.0	272.0
	LA80	156.5	577.0	640.5	290.0
D.168-Z48	LA90S	174.0	608.0	679.0	321.0
	LA90L	174.0	608.0	679.0	321.0
	LA100L	195.0	654.0	735.0	367.0
	LA112M	219.0	683.0	764.0	396.0
	LA132S	259.0	745.0	847.0	458.0
	LA132M	259.0	745.0	847.0	458.0
	LA132ZM	259.0	791.0	893.0	504.0

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
	LA90S	174.0	625.0	696.0	338.0
	LA90L	174.0	625.0	696.0	338.0
	LA100L	195.0	671.0	752.0	384.0
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
	LA90S	174.0	694.0	765.0	315.0
	LA90L	174.0	694.0	765.0	315.0
	LA100L	195.0	740.0	821.0	361.0
	LA112M	219.0	767.0	848.0	388.0
	LA132S	259.0	827.0	929.0	448.0
	LA132M	259.0	827.0	929.0	448.0
	LA132ZM	259.0	873.0	975.0	494.0
	LA160M	313.5	929.5	1 048.0	550.5
	LA160L	313.5	929.5	1 048.0	550.5
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
	LA90S	174.0	567.0	638.0	321.0
	LA90L	174.0	567.0	638.0	321.0
	LA100L	195.0	613.0	694.0	367.0
	LA112M	219.0	642.0	723.0	396.0
	LA132S	259.0	704.0	806.0	458.0
	LA132M	259.0	704.0	806.0	458.0
	LA132ZM	259.0	750.0	852.0	504.0
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
	LA90S	174.0	584.0	655.0	338.0
	LA90L	174.0	584.0	655.0	338.0
	LA100L	195.0	630.0	711.0	384.0
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
	LA90S	174.0	653.0	724.0	315.0
	LA90L	174.0	653.0	724.0	315.0

Dimensions

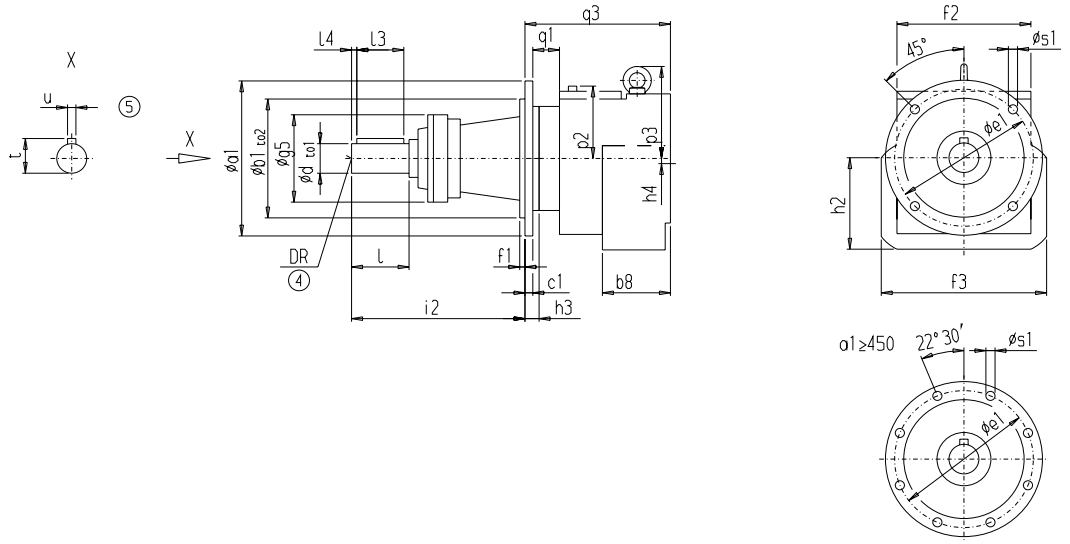
Helical tandem geared motors (continued)



Gearbox	Motor	AC	z5	zB5	LB
D.188-Z68	LA100L	195.0	699.0	780.0	361.0
	LA112M	219.0	726.0	807.0	388.0
	LA132S	259.0	786.0	888.0	448.0
	LA132M	259.0	786.0	888.0	448.0
	LA132ZM	259.0	832.0	934.0	494.0
	LA160M	313.5	888.5	1 007.0	550.5
	LA160L	313.5	888.5	1 007.0	550.5

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).

④ DIN 332

⑤ Feather key / keyway DIN 6885

Dimensions

Pin holes

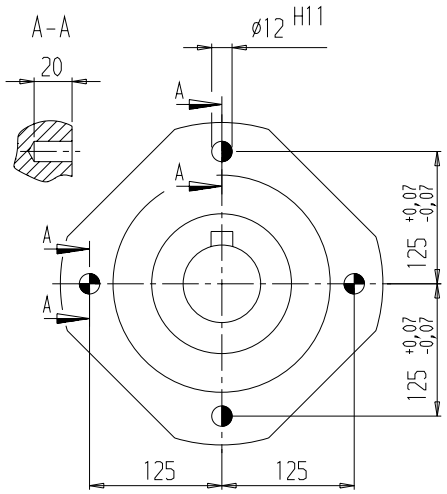
The customer's interface can be pinned to the housing flange (C-type) for sizes EZ128 to EZ148 and DZ/ZZ108 to DZ/ZZ188.

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

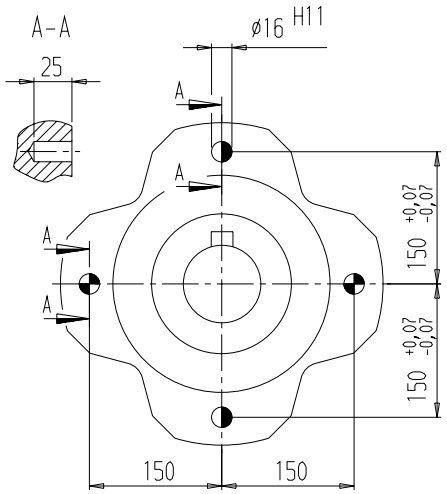
If an additional fuse, e. g. for high shock loads, is required, the existing pin holes can be used.

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

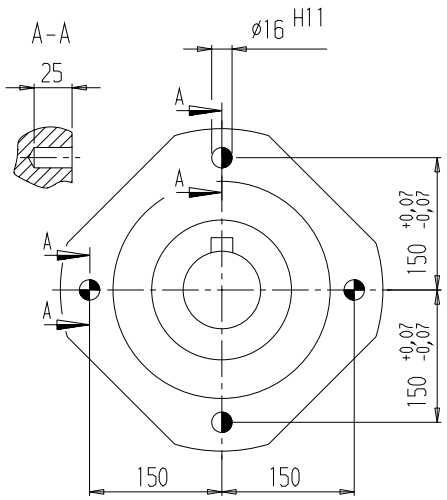
EZ128, DZ/ZZ108



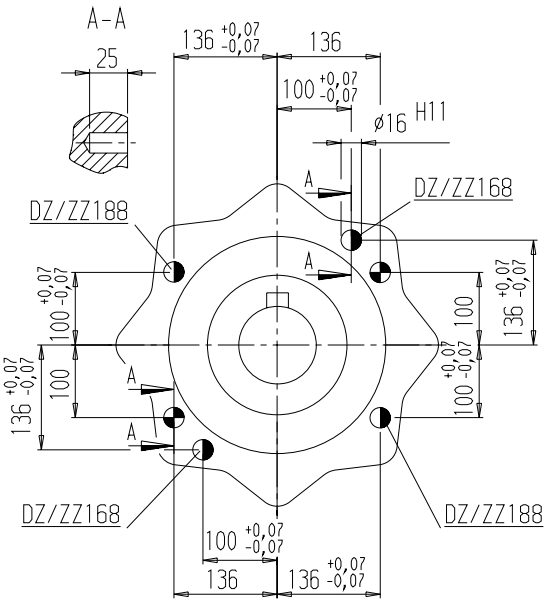
EZ148, DZ/ZZ128



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.