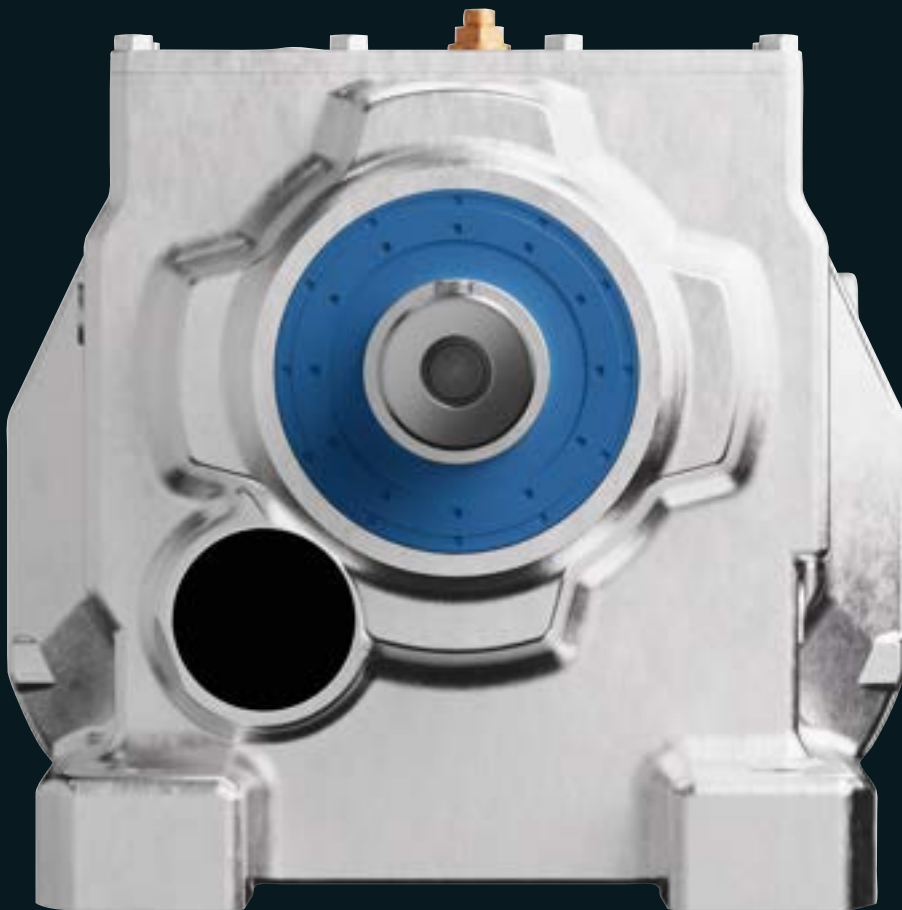


Helical

geared motors

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3 Helical geared motors

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3/189 Inner contour of the flange-mounted design

Helical geared motors

Helical geared motors 2- or 3-stages Helical tandem geared motors 4 to 6-stage for especially low output speeds



Fig. 3-1 Helical geared motor Z/D

Designs	Mounting	Frame sizes	Maximum output torque T_{2N} Nm	Transmission ratio i	Maximum motor power ¹⁾ P_1 kW	Supported motors
<ul style="list-style-type: none"> _ Foot-mounted design _ Flange-mounted design with or without VLplus and XLplus reinforced bearing systems _ Design with integrated housing flange _ Combined foot/flange-mounted design _ Cooling tower design _ Tandem geared motors 	Solid shaft design with and without feather key	Z19 ... Z189	100 ... 19000	3.4 ... 62.48	55	<ul style="list-style-type: none"> _ Permanent magnet motor _ Converter World Motor _ Induction motors _ Synchronous reluctance motors _ VSD10 line motors _ Explosion-protected motors
		D19 ... D189	100 ... 19000	36 ... 328		
		ZK89 ... ZK189	1060 ... 19000	3.85 ... 62.48	7.5	
		D29-Z19 ... D189-D69	140 ... 19000	325 ... 27816		

Helical geared motors 1-stage for high output speeds



Fig. 3-2 Helical geared motor E

Designs	Mounting	Frame sizes	Maximum output torque T_{2N} Nm	Transmission ratio i	Maximum motor power ¹⁾ P_1 kW	Supported motors
<ul style="list-style-type: none"> _ Foot-mounted design _ Flange-mounted design _ Design with integrated housing flange _ Cooling tower design 	Solid shaft design with and without feather key	E39 ... E149	30 ... 1490	1.29 ... 9.79	55	<ul style="list-style-type: none"> _ Permanent magnet motor _ Converter World Motor _ Induction motors _ Synchronous reluctance motors _ VSD10 line motors _ Explosion-protected motors
		EK89 ... EK149	280 ... 1490	1.3 ... 9.79		

¹⁾ With 4-pole motor up to 55 kW for a 50 Hz line frequency in integral type of construction. An adapter must be mounted for a motor power > 55 kW.

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.09	D.69-LE63MEB6							
	2.7	315	328.49	11400	1.9	27	2KJ3206- ■ BD21- ■ ■ S1 -Z	P01
	D.59-LE63MEB6							
	2.9	295	307.02	7910	1.5	22	2KJ3205- ■ BD21- ■ ■ S1 -Z	P01
	3.3	260	272.99	7970	1.7	22	2KJ3205- ■ BD21- ■ ■ R1 -Z	P01
	3.7	230	239.70	8020	2	22	2KJ3205- ■ BD21- ■ ■ Q1 -Z	P01
	D.49-LE63MEB6							
	3.2	270	280.89	6000	1.2	20	2KJ3204- ■ BD21- ■ ■ S1 -Z	P01
	3.6	240	249.76	6060	1.3	20	2KJ3204- ■ BD21- ■ ■ R1 -Z	P01
	4.1	210	219.30	6120	1.5	20	2KJ3204- ■ BD21- ■ ■ Q1 -Z	P01
	4.5	191	199.36	6160	1.7	20	2KJ3204- ■ BD21- ■ ■ P1 -Z	P01
	D.49-LE63MCA4							
	5.0	171	280.89	6200	1.9	19	2KJ3204- ■ BB21- ■ ■ S1 -Z	-
	5.6	152	249.76	6240	2.1	19	2KJ3204- ■ BB21- ■ ■ R1 -Z	-
	D.39-LE63MEB6							
	3.8	225	235.29	3740	0.89	10	2KJ3203- ■ BD21- ■ ■ R1 -Z	P01
	4.3	200	208.69	4370	1	10	2KJ3203- ■ BD21- ■ ■ Q1 -Z	P01
	4.9	174	181.07	5010	1.2	10	2KJ3203- ■ BD21- ■ ■ P1 -Z	P01
	5.4	158	164.61	5410	1.3	10	2KJ3203- ■ BD21- ■ ■ N1 -Z	P01
	D.39-LE63MCA4							
	6.0	143	235.29	5790	1.4	10	2KJ3203- ■ BB21- ■ ■ R1 -Z	-
	6.8	127	208.69	5800	1.6	10	2KJ3203- ■ BB21- ■ ■ Q1 -Z	-
	7.8	110	181.07	5800	1.8	10	2KJ3203- ■ BB21- ■ ■ P1 -Z	-
	8.6	100	164.61	5800	2	10	2KJ3203- ■ BB21- ■ ■ N1 -Z	-
	D.29-LE63MEB6							
	5.3	161	167.63	3150	0.87	8	2KJ3202- ■ BD21- ■ ■ N1 -Z	P01
	5.9	146	152.39	3550	0.96	8	2KJ3202- ■ BD21- ■ ■ M1 -Z	P01
	D.29-LE63MCA4							
	6.5	133	217.89	3890	1.1	8	2KJ3202- ■ BB21- ■ ■ Q1 -Z	-
	7.3	118	192.93	4060	1.2	8	2KJ3202- ■ BB21- ■ ■ P1 -Z	-
	8.4	102	167.63	4060	1.4	8	2KJ3202- ■ BB21- ■ ■ N1 -Z	-
	9.3	93	152.39	4060	1.5	8	2KJ3202- ■ BB21- ■ ■ M1 -Z	-
	11	79	129.68	4060	1.8	8	2KJ3202- ■ BB21- ■ ■ L1 -Z	-
	12	72	117.89	4060	1.9	8	2KJ3202- ■ BB21- ■ ■ K1 -Z	-
	14	63	102.79	4060	2.2	8	2KJ3202- ■ BB21- ■ ■ J1 -Z	-
	15	56	92.01	4060	2.5	8	2KJ3202- ■ BB21- ■ ■ H1 -Z	-
	17	50	81.71	4060	2.8	8	2KJ3202- ■ BB21- ■ ■ G1 -Z	-
	19	46	75.42	4060	3.0	8	2KJ3202- ■ BB21- ■ ■ F1 -Z	-
	22	40	65.52	4060	3.5	8	2KJ3202- ■ BB21- ■ ■ E1 -Z	-
	25	35	56.93	4060	4.0	8	2KJ3202- ■ BB21- ■ ■ D1 -Z	-
	27	31	51.40	4060	4.5	8	2KJ3202- ■ BB21- ■ ■ C1 -Z	-
	29	30	48.37	4060	4.7	8	2KJ3202- ■ BB21- ■ ■ B1 -Z	-
	Z.29-LE63MCA4							
	34	25	41.40	4060	5.5	8	2KJ3102- ■ BB21- ■ ■ A2 -Z	-
	38	22	36.72	4060	6.3	8	2KJ3102- ■ BB21- ■ ■ X1 -Z	-
	44	19	31.86	4060	7.2	8	2KJ3102- ■ BB21- ■ ■ W1 -Z	-
	49	18	28.96	4060	7.9	8	2KJ3102- ■ BB21- ■ ■ V1 -Z	-
	57	15	24.84	4060	9.2	8	2KJ3102- ■ BB21- ■ ■ U1 -Z	-
	62	14	22.58	4010	10	8	2KJ3102- ■ BB21- ■ ■ T1 -Z	-
	71	12	19.80	3840	12	8	2KJ3102- ■ BB21- ■ ■ S1 -Z	-
	80	11	17.67	3700	13	8	2KJ3102- ■ BB21- ■ ■ R1 -Z	-
	90	9.6	15.75	3570	15	8	2KJ3102- ■ BB21- ■ ■ Q1 -Z	-
	97	8.9	14.54	3480	14	8	2KJ3102- ■ BB21- ■ ■ P1 -Z	-
	D.19-LE63MEB6							
	6.9	124	129.30	1160	0.81	7	2KJ3201- ■ BD21- ■ ■ M1 -Z	P01
	D.19-LE63MCA4							
	7.6	113	184.86	1390	0.89	7	2KJ3201- ■ BB21- ■ ■ Q1 -Z	-
	8.6	100	163.69	1650	1.0	7	2KJ3201- ■ BB21- ■ ■ P1 -Z	-
	9.9	87	142.23	1920	1.2	7	2KJ3201- ■ BB21- ■ ■ N1 -Z	-
	11	79	129.30	2080	1.3	7	2KJ3201- ■ BB21- ■ ■ M1 -Z	-
	13	67	110.02	2300	1.5	7	2KJ3201- ■ BB21- ■ ■ L1 -Z	-

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.09	D.19-LE63MCA4							
	14	61	100.02	2330	1.6	7	2KJ3201- ■ BB21- ■ ■ K1 -Z -	
	16	53	87.21	2370	1.9	7	2KJ3201- ■ BB21- ■ ■ J1 -Z -	
	18	48	78.07	2390	2.1	7	2KJ3201- ■ BB21- ■ ■ H1 -Z -	
	20	42	69.32	2420	2.4	7	2KJ3201- ■ BB21- ■ ■ G1 -Z -	
	22	39	63.99	2440	2.6	7	2KJ3201- ■ BB21- ■ ■ F1 -Z -	
	25	34	55.59	2460	3.0	7	2KJ3201- ■ BB21- ■ ■ E1 -Z -	
	29	29	48.30	2490	3.4	7	2KJ3201- ■ BB21- ■ ■ D1 -Z -	
	32	27	43.61	2500	3.8	7	2KJ3201- ■ BB21- ■ ■ C1 -Z -	
	34	25	41.04	2510	4.0	7	2KJ3201- ■ BB21- ■ ■ B1 -Z -	
	Z.19-LE63MCA4							
	40	21	34.97	2530	4.7	6	2KJ3101- ■ BB21- ■ ■ W1 -Z -	
	46	19	30.97	2540	5.3	6	2KJ3101- ■ BB21- ■ ■ V1 -Z -	
	52	16	26.91	2550	6.1	6	2KJ3101- ■ BB21- ■ ■ U1 -Z -	
	58	15	24.46	2560	6.7	6	2KJ3101- ■ BB21- ■ ■ T1 -Z -	
	68	13	20.82	2570	7.9	6	2KJ3101- ■ BB21- ■ ■ S1 -Z -	
	75	12	18.92	2520	8.7	6	2KJ3101- ■ BB21- ■ ■ R1 -Z -	
	85	10	16.50	2420	9.8	6	2KJ3101- ■ BB21- ■ ■ Q1 -Z -	
	95	9.0	14.77	2340	11	6	2KJ3101- ■ BB21- ■ ■ P1 -Z -	
	107	8.0	13.12	2250	11	6	2KJ3101- ■ BB21- ■ ■ N1 -Z -	
	116	7.4	12.11	2190	12	6	2KJ3101- ■ BB21- ■ ■ M1 -Z -	
	134	6.4	10.52	2100	13	6	2KJ3101- ■ BB21- ■ ■ L1 -Z -	
	154	5.6	9.14	2000	14	6	2KJ3101- ■ BB21- ■ ■ K1 -Z -	
	171	5.0	8.25	1940	15	6	2KJ3101- ■ BB21- ■ ■ J1 -Z -	
	182	4.7	7.76	1900	15	6	2KJ3101- ■ BB21- ■ ■ H1 -Z -	
	226	3.8	6.25	1760	15	6	2KJ3101- ■ BB21- ■ ■ F1 -Z -	
0.12	D.59-LE63ZMH4P							
	4.5	250	307.02	7990	1.8	24	2KJ3205- ■ BD23- ■ ■ S1 -Z -	
	5.1	225	272.99	8030	2.0	24	2KJ3205- ■ BD23- ■ ■ R1 -Z -	
	D.49-LE63ZMH4P							
	4.9	230	280.89	6080	1.4	21	2KJ3204- ■ BD23- ■ ■ S1 -Z -	
	5.6	205	249.76	6140	1.6	21	2KJ3204- ■ BD23- ■ ■ R1 -Z -	
	6.3	181	219.30	6180	1.8	21	2KJ3204- ■ BD23- ■ ■ Q1 -Z -	
	7.0	164	199.36	6220	1.9	21	2KJ3204- ■ BD23- ■ ■ P1 -Z -	
	D.39-LE63ZMH4P							
	5.9	194	235.29	4520	1.0	12	2KJ3203- ■ BD23- ■ ■ R1 -Z -	
	6.7	172	208.69	5060	1.2	12	2KJ3203- ■ BD23- ■ ■ Q1 -Z -	
	7.7	149	181.07	5640	1.3	12	2KJ3203- ■ BD23- ■ ■ P1 -Z -	
	8.4	136	164.61	5800	1.5	12	2KJ3203- ■ BD23- ■ ■ N1 -Z -	
	9.8	116	141.17	5800	1.7	12	2KJ3203- ■ BD23- ■ ■ M1 -Z -	
	11	106	128.34	5800	1.9	12	2KJ3203- ■ BD23- ■ ■ L1 -Z -	
	12	93	112.53	5800	2.2	12	2KJ3203- ■ BD23- ■ ■ K1 -Z -	
	D.29-LE63ZMH4P							
	7.2	159	192.93	3200	0.88	10	2KJ3202- ■ BD23- ■ ■ P1 -Z -	
	8.3	138	167.63	3760	1.0	10	2KJ3202- ■ BD23- ■ ■ N1 -Z -	
	9.1	126	152.39	4060	1.1	10	2KJ3202- ■ BD23- ■ ■ M1 -Z -	
	11	107	129.68	4060	1.3	10	2KJ3202- ■ BD23- ■ ■ L1 -Z -	
	12	97	117.89	4060	1.4	10	2KJ3202- ■ BD23- ■ ■ K1 -Z -	
	14	85	102.79	4060	1.7	10	2KJ3202- ■ BD23- ■ ■ J1 -Z -	
	15	76	92.01	4060	1.8	10	2KJ3202- ■ BD23- ■ ■ H1 -Z -	
	17	67	81.71	4060	2.1	10	2KJ3202- ■ BD23- ■ ■ G1 -Z -	
	18	62	75.42	4060	2.3	10	2KJ3202- ■ BD23- ■ ■ F1 -Z -	
	21	54	65.52	4060	2.6	10	2KJ3202- ■ BD23- ■ ■ E1 -Z -	
	24	47	56.93	4060	3	10	2KJ3202- ■ BD23- ■ ■ D1 -Z -	
	27	42	51.40	4060	3.3	10	2KJ3202- ■ BD23- ■ ■ C1 -Z -	
	29	40	48.37	4060	3.5	10	2KJ3202- ■ BD23- ■ ■ B1 -Z -	
	Z.29-LE63ZMH4P							
	34	34	41.40	4060	4.1	10	2KJ3102- ■ BD23- ■ ■ A2 -Z -	
	38	30	36.72	4060	4.6	10	2KJ3102- ■ BD23- ■ ■ X1 -Z -	
	44	26	31.86	4060	5.3	10	2KJ3102- ■ BD23- ■ ■ W1 -Z -	
	48	24	28.96	4060	5.9	10	2KJ3102- ■ BD23- ■ ■ V1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)		
0.12	Z.29-LE63ZMH4P								
	56	20	24.84	4060	6.8	10	2KJ3102- ■ BD23- ■ ■ U1 -Z -		
	62	19	22.58	4000	7.5	10	2KJ3102- ■ BD23- ■ ■ T1 -Z -		
	70	16	19.80	3840	8.6	10	2KJ3102- ■ BD23- ■ ■ S1 -Z -		
	79	15	17.67	3700	9.6	10	2KJ3102- ■ BD23- ■ ■ R1 -Z -		
	88	13	15.75	3570	11	10	2KJ3102- ■ BD23- ■ ■ Q1 -Z -		
	96	12	14.54	3480	10	10	2KJ3102- ■ BD23- ■ ■ P1 -Z -		
	109	10	12.73	3340	13	10	2KJ3102- ■ BD23- ■ ■ N1 -Z -		
	125	9.2	11.16	3190	15	10	2KJ3102- ■ BD23- ■ ■ M1 -Z -		
	201	5.7	6.92	2730	13	10	2KJ3102- ■ BD23- ■ ■ G1 -Z -		
	D.19-LE63ZMH4P								
	9.8	117	142.23	1310	0.85	9	2KJ3201- ■ BD23- ■ ■ N1 -Z -		
	11	107	129.30	1510	0.94	9	2KJ3201- ■ BD23- ■ ■ M1 -Z -		
	13	91	110.02	1840	1.1	9	2KJ3201- ■ BD23- ■ ■ L1 -Z -		
	14	82	100.02	2020	1.2	9	2KJ3201- ■ BD23- ■ ■ K1 -Z -		
	16	72	87.21	2230	1.4	9	2KJ3201- ■ BD23- ■ ■ J1 -Z -		
	18	64	78.07	2310	1.6	9	2KJ3201- ■ BD23- ■ ■ H1 -Z -		
	20	57	69.32	2350	1.7	9	2KJ3201- ■ BD23- ■ ■ G1 -Z -		
	22	53	63.99	2370	1.9	9	2KJ3201- ■ BD23- ■ ■ F1 -Z -		
	25	46	55.59	2400	2.2	9	2KJ3201- ■ BD23- ■ ■ E1 -Z -		
29	40	48.30	2430	2.5	9	2KJ3201- ■ BD23- ■ ■ D1 -Z -			
32	36	43.61	2450	2.8	9	2KJ3201- ■ BD23- ■ ■ C1 -Z -			
34	34	41.04	2460	3.0	9	2KJ3201- ■ BD23- ■ ■ B1 -Z -			
Z.19-LE63ZMH4P									
40	29	34.97	2490	3.5	8	2KJ3101- ■ BD23- ■ ■ W1 -Z -			
45	26	30.97	2500	3.9	8	2KJ3101- ■ BD23- ■ ■ V1 -Z -			
52	22	26.91	2520	4.5	8	2KJ3101- ■ BD23- ■ ■ U1 -Z -			
57	20	24.46	2530	5.0	8	2KJ3101- ■ BD23- ■ ■ T1 -Z -			
67	17	20.82	2550	5.8	8	2KJ3101- ■ BD23- ■ ■ S1 -Z -			
73	16	18.92	2510	6.4	8	2KJ3101- ■ BD23- ■ ■ R1 -Z -			
84	14	16.50	2400	7.3	8	2KJ3101- ■ BD23- ■ ■ Q1 -Z -			
94	12	14.77	2330	7.8	8	2KJ3101- ■ BD23- ■ ■ P1 -Z -			
106	11	13.12	2240	8.4	8	2KJ3101- ■ BD23- ■ ■ N1 -Z -			
115	10	12.11	2180	8.8	8	2KJ3101- ■ BD23- ■ ■ M1 -Z -			
132	8.7	10.52	2090	9.6	8	2KJ3101- ■ BD23- ■ ■ L1 -Z -			
152	7.5	9.14	2000	10	8	2KJ3101- ■ BD23- ■ ■ K1 -Z -			
168	6.8	8.25	1940	11	8	2KJ3101- ■ BD23- ■ ■ J1 -Z -			
179	6.4	7.76	1900	11	8	2KJ3101- ■ BD23- ■ ■ H1 -Z -			
205	5.6	6.77	1820	12	8	2KJ3101- ■ BD23- ■ ■ G1 -Z -			
222	5.2	6.25	1750	11	8	2KJ3101- ■ BD23- ■ ■ F1 -Z -			
256	4.5	5.43	1680	12	8	2KJ3101- ■ BD23- ■ ■ E1 -Z -			
295	3.9	4.71	1600	13	8	2KJ3101- ■ BD23- ■ ■ D1 -Z -			
326	3.5	4.26	1550	13	8	2KJ3101- ■ BD23- ■ ■ C1 -Z -			
347	3.3	4.01	1520	14	8	2KJ3101- ■ BD23- ■ ■ B1 -Z -			
E.39-LE63ZMH4P									
151	7.6	9.22	3000	3.9	11	2KJ3001- ■ BD23- ■ ■ S1 -Z -			
0.18	D.79-LE71ZMK6P								
	2.6	645	330.23	13600	1.3	39	2KJ3207- ■ CC23- ■ ■ S1 -Z P01		
	2.9	590	300.21	13700	1.4	39	2KJ3207- ■ CC23- ■ ■ R1 -Z P01		
	3.4	500	255.33	13800	1.7	39	2KJ3207- ■ CC23- ■ ■ Q1 -Z P01		
	3.8	455	232.12	13900	1.8	39	2KJ3207- ■ CC23- ■ ■ P1 -Z P01		
	D.69-LE71ZMK6P								
	2.7	645	328.49	10900	0.93	29	2KJ3206- ■ CC23- ■ ■ S1 -Z P01		
	3.0	570	292.08	11000	1.0	29	2KJ3206- ■ CC23- ■ ■ R1 -Z P01		
	3.4	500	256.46	11100	1.2	29	2KJ3206- ■ CC23- ■ ■ Q1 -Z P01		
	3.8	455	233.14	11200	1.3	29	2KJ3206- ■ CC23- ■ ■ P1 -Z P01		
	D.69-LE63ZMK4P								
	4.2	405	328.49	11300	1.5	28	2KJ3206- ■ BE23- ■ ■ S1 -Z -		
4.7	360	292.08	11300	1.7	28	2KJ3206- ■ BE23- ■ ■ R1 -Z -			
5.4	315	256.46	11400	1.9	28	2KJ3206- ■ BE23- ■ ■ Q1 -Z -			
5.9	285	233.14	11400	2.1	28	2KJ3206- ■ BE23- ■ ■ P1 -Z -			

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.18	D.59-LE71ZMK6P							
	3.2	535	272.99	6580	0.84	24	2KJ3205- CC23- R1 -Z	P01
	3.7	470	239.70	7630	0.96	24	2KJ3205- CC23- Q1 -Z	P01
	4	425	217.91	7700	1.1	24	2KJ3205- CC23- P1 -Z	P01
	D.59-LE63ZMK4P							
	4.5	380	307.02	7780	1.2	24	2KJ3205- BE23- S1 -Z	-
	5.1	335	272.99	7850	1.3	24	2KJ3205- BE23- R1 -Z	-
	5.8	295	239.70	7910	1.5	24	2KJ3205- BE23- Q1 -Z	-
	6.4	270	217.91	7950	1.7	24	2KJ3205- BE23- P1 -Z	-
	7.4	230	186.43	8020	1.9	24	2KJ3205- BE23- N1 -Z	-
	8.2	210	169.48	8050	2.1	24	2KJ3205- BE23- M1 -Z	-
	D.49-LE71ZMK6P							
	4.4	390	199.36	4010	0.82	22	2KJ3204- CC23- P1 -Z	P01
	D.49-LE63ZMK4P							
	4.9	345	280.89	5150	0.92	21	2KJ3204- BE23- S1 -Z	-
	5.5	310	249.76	5920	1	21	2KJ3204- BE23- R1 -Z	-
	6.3	270	219.30	6000	1.2	21	2KJ3204- BE23- Q1 -Z	-
	6.9	245	199.36	6050	1.3	21	2KJ3204- BE23- P1 -Z	-
	8.1	210	170.57	6120	1.5	21	2KJ3204- BE23- N1 -Z	-
	8.9	192	155.06	6160	1.7	21	2KJ3204- BE23- M1 -Z	-
10	170	137.06	6210	1.9	21	2KJ3204- BE23- L1 -Z	-	
11	155	124.60	6240	2.1	21	2KJ3204- BE23- K1 -Z	-	
D.39-LE63ZMK4P								
7.6	225	181.07	3740	0.89	12	2KJ3203- BE23- P1 -Z	-	
8.4	200	164.61	4370	0.98	12	2KJ3203- BE23- N1 -Z	-	
9.8	175	141.17	4990	1.1	12	2KJ3203- BE23- M1 -Z	-	
11	159	128.34	5390	1.3	12	2KJ3203- BE23- L1 -Z	-	
12	140	112.53	5800	1.4	12	2KJ3203- BE23- K1 -Z	-	
14	125	100.44	5800	1.6	12	2KJ3203- BE23- J1 -Z	-	
15	111	89.51	5800	1.8	12	2KJ3203- BE23- H1 -Z	-	
17	103	82.63	5800	2	12	2KJ3203- BE23- G1 -Z	-	
19	90	72.34	5800	2.2	12	2KJ3203- BE23- F1 -Z	-	
D.29-LE63ZMK4P								
11	161	129.68	3150	0.87	10	2KJ3202- BE23- L1 -Z	-	
12	146	117.89	3550	0.96	10	2KJ3202- BE23- K1 -Z	-	
13	128	102.79	4030	1.1	10	2KJ3202- BE23- J1 -Z	-	
15	114	92.01	4060	1.2	10	2KJ3202- BE23- H1 -Z	-	
17	101	81.71	4060	1.4	10	2KJ3202- BE23- G1 -Z	-	
18	94	75.42	4060	1.5	10	2KJ3202- BE23- F1 -Z	-	
21	81	65.52	4060	1.7	10	2KJ3202- BE23- E1 -Z	-	
24	71	56.93	4060	2	10	2KJ3202- BE23- D1 -Z	-	
27	64	51.40	4060	2.2	10	2KJ3202- BE23- C1 -Z	-	
29	60	48.37	4060	2.3	10	2KJ3202- BE23- B1 -Z	-	
Z.29-LE63ZMK4P								
33	51	41.40	4060	2.7	10	2KJ3102- BE23- A2 -Z	-	
38	46	36.72	4060	3.1	10	2KJ3102- BE23- X1 -Z	-	
43	40	31.86	4060	3.5	10	2KJ3102- BE23- W1 -Z	-	
48	36	28.96	4060	3.9	10	2KJ3102- BE23- V1 -Z	-	
56	31	24.84	4060	4.5	10	2KJ3102- BE23- U1 -Z	-	
61	28	22.58	3950	5	10	2KJ3102- BE23- T1 -Z	-	
70	25	19.80	3790	5.7	10	2KJ3102- BE23- S1 -Z	-	
78	22	17.67	3660	6.4	10	2KJ3102- BE23- R1 -Z	-	
88	20	15.75	3530	7.2	10	2KJ3102- BE23- Q1 -Z	-	
95	18	14.54	3450	6.6	10	2KJ3102- BE23- P1 -Z	-	
109	16	12.73	3310	8.9	10	2KJ3102- BE23- N1 -Z	-	
124	14	11.16	3170	10	10	2KJ3102- BE23- M1 -Z	-	
137	13	10.12	3070	11	10	2KJ3102- BE23- L1 -Z	-	
145	12	9.53	3020	12	10	2KJ3102- BE23- K1 -Z	-	
165	10	8.40	2900	13	10	2KJ3102- BE23- J1 -Z	-	
190	9	7.29	2770	14	10	2KJ3102- BE23- H1 -Z	-	
200	8.6	6.92	2710	8.7	10	2KJ3102- BE23- G1 -Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.18	Z.29-LE63ZMK4P							
	229	7.5	6.06	2600	13	10	2KJ3102- BE23- F1 -Z -	
	261	6.6	5.31	2490	14	10	2KJ3102- BE23- E1 -Z -	
	287	6	4.82	2410	14	10	2KJ3102- BE23- D1 -Z -	
	305	5.6	4.54	2370	15	10	2KJ3102- BE23- C1 -Z -	
	346	5	4.00	2270	15	10	2KJ3102- BE23- B1 -Z -	
	Z.29-LE63MEB2P							
	161	11	17.67	2920	13	8	2KJ3102- BC23- R1 -Z P00	
	181	9.5	15.75	2810	15	8	2KJ3102- BC23- Q1 -Z P00	
	196	8.8	14.54	2740	14	8	2KJ3102- BC23- P1 -Z P00	
D.19-LE63ZMK4P								
14	124	100.02	1160	0.81	9	2KJ3201- BE23- K1 -Z -		
16	108	87.21	1490	0.92	9	2KJ3201- BE23- J1 -Z -		
18	97	78.07	1710	1.0	9	2KJ3201- BE23- H1 -Z -		
20	86	69.32	1940	1.2	9	2KJ3201- BE23- G1 -Z -		
22	79	63.99	2080	1.3	9	2KJ3201- BE23- F1 -Z -		
25	69	55.59	2290	1.4	9	2KJ3201- BE23- E1 -Z -		
29	60	48.30	2330	1.7	9	2KJ3201- BE23- D1 -Z -		
32	54	43.61	2360	1.8	9	2KJ3201- BE23- C1 -Z -		
34	51	41.04	2380	2.0	9	2KJ3201- BE23- B1 -Z -		
Z.19-LE63ZMK4P								
40	43	34.97	2420	2.3	8	2KJ3101- BE23- W1 -Z -		
45	38	30.97	2440	2.6	8	2KJ3101- BE23- V1 -Z -		
51	33	26.91	2470	3	8	2KJ3101- BE23- U1 -Z -		
57	30	24.46	2480	3.3	8	2KJ3101- BE23- T1 -Z -		
67	26	20.82	2500	3.9	8	2KJ3101- BE23- S1 -Z -		
73	24	18.92	2450	4.3	8	2KJ3101- BE23- R1 -Z -		
84	20	16.50	2360	4.8	8	2KJ3101- BE23- Q1 -Z -		
94	18	14.77	2290	5.2	8	2KJ3101- BE23- P1 -Z -		
106	16	13.12	2210	5.6	8	2KJ3101- BE23- N1 -Z -		
114	15	12.11	2150	5.9	8	2KJ3101- BE23- M1 -Z -		
132	13	10.52	2060	6.4	8	2KJ3101- BE23- L1 -Z -		
152	11	9.14	1980	6.9	8	2KJ3101- BE23- K1 -Z -		
168	10	8.25	1920	7.2	8	2KJ3101- BE23- J1 -Z -		
178	9.6	7.76	1880	7.6	8	2KJ3101- BE23- H1 -Z -		
205	8.4	6.77	1800	8.1	8	2KJ3101- BE23- G1 -Z -		
222	7.8	6.25	1730	7.2	8	2KJ3101- BE23- F1 -Z -		
255	6.7	5.43	1660	7.9	8	2KJ3101- BE23- E1 -Z -		
294	5.8	4.71	1590	8.4	8	2KJ3101- BE23- D1 -Z -		
325	5.3	4.26	1540	8.9	8	2KJ3101- BE23- C1 -Z -		
345	5	4.01	1510	9.2	8	2KJ3101- BE23- B1 -Z -		
Z.19-LE63MEB2P								
151	11	18.92	1980	8.8	7	2KJ3101- BC23- R1 -Z P00		
173	10	16.50	1900	9.9	7	2KJ3101- BC23- Q1 -Z P00		
193	8.9	14.77	1830	11	7	2KJ3101- BC23- P1 -Z P00		
217	7.9	13.12	1770	12	7	2KJ3101- BC23- N1 -Z P00		
235	7.3	12.11	1720	12	7	2KJ3101- BC23- M1 -Z P00		
271	6.3	10.52	1650	13	7	2KJ3101- BC23- L1 -Z P00		
312	5.5	9.14	1580	14	7	2KJ3101- BC23- K1 -Z P00		
345	5.0	8.25	1530	15	7	2KJ3101- BC23- J1 -Z P00		
456	3.8	6.25	1380	15	7	2KJ3101- BC23- F1 -Z P00		
E.39-LE63ZMK4P								
150	11	9.22	3000	2.6	12	2KJ3001- BE23- S1 -Z -		
169	10	8.20	3000	3.3	12	2KJ3001- BE23- R1 -Z -		
0.25	D.79-LE71YMS6P							
	2.6	905	330.23	12900	0.93	40	2KJ3207- CE23- S1 -Z P01	
	2.9	820	300.21	13400	1	40	2KJ3207- CE23- R1 -Z P01	
	3.4	700	255.33	13600	1.2	40	2KJ3207- CE23- Q1 -Z P01	
	3.7	635	232.12	13600	1.3	40	2KJ3207- CE23- P1 -Z P01	
D.79-LE71ZMK4P								
4.2	565	330.23	13700	1.5	39	2KJ3207- CC23- S1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.25	D.79-LE71ZMK4P							
	4.6	510	300.21	13800	1.6	39	2KJ3207- CC23- R1 -Z -	
	5.5	435	255.33	13900	1.9	39	2KJ3207- CC23- Q1 -Z -	
	6	395	232.12	14000	2.1	39	2KJ3207- CC23- P1 -Z -	
	D.69-LE71YMS6P							
	3.4	700	256.46	10700	0.85	30	2KJ3206- CE23- Q1 -Z P01	
	3.7	640	233.14	10900	0.94	30	2KJ3206- CE23- P1 -Z P01	
	D.69-LE71ZMK4P							
	4.2	560	328.49	11000	1.1	29	2KJ3206- CC23- S1 -Z -	
	4.8	500	292.08	11100	1.2	29	2KJ3206- CC23- R1 -Z -	
	5.4	435	256.46	11200	1.4	29	2KJ3206- CC23- Q1 -Z -	
	6	395	233.14	11300	1.5	29	2KJ3206- CC23- P1 -Z -	
	7	340	199.47	11400	1.8	29	2KJ3206- CC23- N1 -Z -	
	7.7	310	181.33	11400	1.9	29	2KJ3206- CC23- M1 -Z -	
	D.59-LE71ZMK4P							
	4.5	525	307.02	6760	0.86	24	2KJ3205- CC23- S1 -Z -	
	5.1	465	272.99	7640	0.96	24	2KJ3205- CC23- R1 -Z -	
	5.8	410	239.70	7730	1.1	24	2KJ3205- CC23- Q1 -Z -	
	6.4	370	217.91	7790	1.2	24	2KJ3205- CC23- P1 -Z -	
	7.5	315	186.43	7880	1.4	24	2KJ3205- CC23- N1 -Z -	
	8.2	290	169.48	7920	1.6	24	2KJ3205- CC23- M1 -Z -	
	9.3	255	149.81	7980	1.8	24	2KJ3205- CC23- L1 -Z -	
	10	230	136.19	8020	1.9	24	2KJ3205- CC23- K1 -Z -	
	12	200	119.30	8070	2.2	24	2KJ3205- CC23- J1 -Z -	
	D.49-LE71ZMK4P							
	6.4	375	219.30	4390	0.85	22	2KJ3204- CC23- Q1 -Z -	
	7	340	199.36	5270	0.94	22	2KJ3204- CC23- P1 -Z -	
	8.2	290	170.57	5960	1.1	22	2KJ3204- CC23- N1 -Z -	
	9	265	155.06	6010	1.2	22	2KJ3204- CC23- M1 -Z -	
	10	235	137.06	6070	1.4	22	2KJ3204- CC23- L1 -Z -	
	11	210	124.60	6120	1.5	22	2KJ3204- CC23- K1 -Z -	
	13	187	109.14	6170	1.7	22	2KJ3204- CC23- J1 -Z -	
	14	172	100.75	6200	1.9	22	2KJ3204- CC23- H1 -Z -	
	16	153	89.20	6240	2.1	22	2KJ3204- CC23- G1 -Z -	
	D.39-LE71ZMK4P							
	9.9	240	141.17	3360	0.83	12	2KJ3203- CC23- M1 -Z -	
	11	220	128.34	3870	0.91	12	2KJ3203- CC23- L1 -Z -	
	12	193	112.53	4540	1	12	2KJ3203- CC23- K1 -Z -	
	14	172	100.44	5060	1.2	12	2KJ3203- CC23- J1 -Z -	
	16	153	89.51	5540	1.3	12	2KJ3203- CC23- H1 -Z -	
	17	141	82.63	5800	1.4	12	2KJ3203- CC23- G1 -Z -	
	19	124	72.34	5800	1.6	12	2KJ3203- CC23- F1 -Z -	
	22	109	63.43	5800	1.8	12	2KJ3203- CC23- E1 -Z -	
	Z.39-LE71ZMK4P							
	25	96	55.95	5800	2.1	12	2KJ3103- CC23- A2 -Z -	
	28	85	49.75	5800	2.3	12	2KJ3103- CC23- X1 -Z -	
	D.29-LE71ZMK4P							
	14	176	102.79	2750	0.8	10	2KJ3202- CC23- J1 -Z -	
	15	157	92.01	3260	0.89	10	2KJ3202- CC23- H1 -Z -	
	17	140	81.71	3710	1	10	2KJ3202- CC23- G1 -Z -	
	18	129	75.42	4000	1.1	10	2KJ3202- CC23- F1 -Z -	
	21	112	65.52	4060	1.2	10	2KJ3202- CC23- E1 -Z -	
	25	97	56.93	4060	1.4	10	2KJ3202- CC23- D1 -Z -	
	27	88	51.40	4060	1.6	10	2KJ3202- CC23- C1 -Z -	
	29	83	48.37	4060	1.7	10	2KJ3202- CC23- B1 -Z -	
	Z.29-LE71ZMK4P							
	34	71	41.40	4060	2	10	2KJ3102- CC23- A2 -Z -	
	38	63	36.72	4060	2.2	10	2KJ3102- CC23- X1 -Z -	
	44	54	31.86	4060	2.6	10	2KJ3102- CC23- W1 -Z -	
	48	50	28.96	4060	2.8	10	2KJ3102- CC23- V1 -Z -	
	56	42	24.84	4000	3.3	10	2KJ3102- CC23- U1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles	
0.25	Z.29-LE71ZMK4P								
	62	39	22.58	3880	3.6	10	2KJ3102- CC23- T1	-Z -	
	70	34	19.80	3730	4.1	10	2KJ3102- CC23- S1	-Z -	
	79	30	17.67	3610	4.6	10	2KJ3102- CC23- R1	-Z -	
	89	27	15.75	3480	5.2	10	2KJ3102- CC23- Q1	-Z -	
	96	25	14.54	3400	4.8	10	2KJ3102- CC23- P1	-Z -	
	110	22	12.73	3260	6.4	10	2KJ3102- CC23- N1	-Z -	
	125	19	11.16	3130	7.3	10	2KJ3102- CC23- M1	-Z -	
	138	17	10.12	3040	8.1	10	2KJ3102- CC23- L1	-Z -	
	146	16	9.53	2990	8.6	10	2KJ3102- CC23- K1	-Z -	
	166	14	8.40	2870	9.6	10	2KJ3102- CC23- J1	-Z -	
	191	12	7.29	2740	10	10	2KJ3102- CC23- H1	-Z -	
	202	12	6.92	2680	6.3	10	2KJ3102- CC23- G1	-Z -	
	230	10	6.06	2570	9.6	10	2KJ3102- CC23- F1	-Z -	
	263	9.1	5.31	2470	10	10	2KJ3102- CC23- E1	-Z -	
	289	8.2	4.82	2390	10	10	2KJ3102- CC23- D1	-Z -	
	307	7.8	4.54	2350	11	10	2KJ3102- CC23- C1	-Z -	
	349	6.8	4.00	2250	11	10	2KJ3102- CC23- B1	-Z -	
	402	5.9	3.47	2150	12	10	2KJ3102- CC23- A1	-Z -	
		Z.29-LE63ZMH2P							
		160	15	17.67	2900	9.4	10	2KJ3102- BD23- R1	-Z P00
		180	13	15.75	2800	11	10	2KJ3102- BD23- Q1	-Z P00
		195	12	14.54	2730	9.8	10	2KJ3102- BD23- P1	-Z P00
		223	11	12.73	2610	13	10	2KJ3102- BD23- N1	-Z P00
		254	9.4	11.16	2510	15	10	2KJ3102- BD23- M1	-Z P00
		410	5.8	6.92	2140	13	10	2KJ3102- BD23- G1	-Z P00
		D.19-LE71ZMK4P							
		20	119	69.32	1260	0.84	9	2KJ3201- CC23- G1	-Z -
		22	110	63.99	1450	0.91	9	2KJ3201- CC23- F1	-Z -
		25	95	55.59	1760	1.1	9	2KJ3201- CC23- E1	-Z -
		29	83	48.30	2000	1.2	9	2KJ3201- CC23- D1	-Z -
		32	75	43.61	2160	1.3	9	2KJ3201- CC23- C1	-Z -
		34	70	41.04	2270	1.4	9	2KJ3201- CC23- B1	-Z -
		Z.19-LE71ZMK4P							
		40	60	34.97	2330	1.7	9	2KJ3101- CC23- W1	-Z -
		45	53	30.97	2370	1.9	9	2KJ3101- CC23- V1	-Z -
		52	46	26.91	2400	2.2	9	2KJ3101- CC23- U1	-Z -
		57	42	24.46	2420	2.4	9	2KJ3101- CC23- T1	-Z -
		67	36	20.82	2450	2.8	9	2KJ3101- CC23- S1	-Z -
		74	32	18.92	2390	3.1	9	2KJ3101- CC23- R1	-Z -
85		28	16.50	2300	3.5	9	2KJ3101- CC23- Q1	-Z -	
94		25	14.77	2230	3.8	9	2KJ3101- CC23- P1	-Z -	
106		22	13.12	2160	4.1	9	2KJ3101- CC23- N1	-Z -	
115		21	12.11	2110	4.2	9	2KJ3101- CC23- M1	-Z -	
133		18	10.52	2020	4.6	9	2KJ3101- CC23- L1	-Z -	
153		16	9.14	1940	5	9	2KJ3101- CC23- K1	-Z -	
169		14	8.25	1880	5.2	9	2KJ3101- CC23- J1	-Z -	
180		13	7.76	1850	5.5	9	2KJ3101- CC23- H1	-Z -	
206		12	6.77	1770	5.9	9	2KJ3101- CC23- G1	-Z -	
223		11	6.25	1690	5.2	9	2KJ3101- CC23- F1	-Z -	
257		9.3	5.43	1620	5.7	9	2KJ3101- CC23- E1	-Z -	
296		8.1	4.71	1560	6.1	9	2KJ3101- CC23- D1	-Z -	
327		7.3	4.26	1510	6.4	9	2KJ3101- CC23- C1	-Z -	
348	6.9	4.01	1480	6.7	9	2KJ3101- CC23- B1	-Z -		
	Z.19-LE63ZMH2P								
	150	16	18.92	1950	6.3	8	2KJ3101- BD23- R1	-Z P00	
	172	14	16.50	1870	7.1	8	2KJ3101- BD23- Q1	-Z P00	
	192	12	14.77	1820	7.6	8	2KJ3101- BD23- P1	-Z P00	
	216	11	13.12	1750	8.2	8	2KJ3101- BD23- N1	-Z P00	
	234	10	12.11	1710	8.6	8	2KJ3101- BD23- M1	-Z P00	
269	8.9	10.52	1630	9.4	8	2KJ3101- BD23- L1	-Z P00		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles	
0.25	Z.19-LE63ZMH2P								
	310	7.7	9.14	1560	10	8	2KJ3101- BD23- K1 -Z	P00	
	344	6.9	8.25	1510	11	8	2KJ3101- BD23- J1 -Z	P00	
	365	6.5	7.76	1490	11	8	2KJ3101- BD23- H1 -Z	P00	
	419	5.7	6.77	1420	12	8	2KJ3101- BD23- G1 -Z	P00	
	454	5.3	6.25	1370	11	8	2KJ3101- BD23- F1 -Z	P00	
	522	4.6	5.43	1310	12	8	2KJ3101- BD23- E1 -Z	P00	
	602	4	4.71	1250	12	8	2KJ3101- BD23- D1 -Z	P00	
	665	3.6	4.26	1210	13	8	2KJ3101- BD23- C1 -Z	P00	
	707	3.4	4.01	1190	14	8	2KJ3101- BD23- B1 -Z	P00	
	E.39-LE71ZMK4P	151	16	9.22	3000	1.9	12	2KJ3001- CC23- S1 -Z	-
		170	14	8.20	3000	2.4	12	2KJ3001- CC23- R1 -Z	-
		194	12	7.20	3000	3.2	12	2KJ3001- CC23- Q1 -Z	-
		213	11	6.55	3000	3.6	12	2KJ3001- CC23- P1 -Z	-
		249	9.6	5.60	3000	4.2	12	2KJ3001- CC23- N1 -Z	-
		274	8.7	5.09	3000	4.6	12	2KJ3001- CC23- M1 -Z	-
		0.37	D.89-LE80MK6P						
	3		1190	311.60	18500	1.4	67	2KJ3208- DE23- S1 -Z	P01
	3.3		1080	283.28	18500	1.6	67	2KJ3208- DE23- R1 -Z	P01
3.6	970		254.09	18500	1.7	67	2KJ3208- DE23- Q1 -Z	P01	
4	870		228.45	18500	1.9	67	2KJ3208- DE23- P1 -Z	P01	
D.79-FZ71MAA6TV									
4.5	775		330.23	14700	1.1	35	2KJ3207- CG25- S1 -Z	P01	
5.0	705		300.21	14700	1.2	35	2KJ3207- CG25- R1 -Z	P01	
5.9	600		255.33	14700	1.4	35	2KJ3207- CG25- Q1 -Z	P01	
6.5	545		232.12	14700	1.5	35	2KJ3207- CG25- P1 -Z	P01	
7.2	485		207.10	14700	1.7	35	2KJ3207- CG25- N1 -Z	P01	
8.1	435		185.70	14700	1.9	35	2KJ3207- CG25- M1 -Z	P01	
9.0	390	167.39	14700	2.1	35	2KJ3207- CG25- L1 -Z	P01		
D.79-LE80MK6P									
3.6	975	255.33	11900	0.86	44	2KJ3207- DE23- Q1 -Z	P01		
4	885	232.12	13200	0.95	44	2KJ3207- DE23- P1 -Z	P01		
D.79-LE71YMS4P									
4.2	845	330.23	13400	0.99	40	2KJ3207- CE23- S1 -Z	-		
4.6	765	300.21	13500	1.1	40	2KJ3207- CE23- R1 -Z	-		
5.4	650	255.33	13600	1.3	40	2KJ3207- CE23- Q1 -Z	-		
5.9	590	232.12	13700	1.4	40	2KJ3207- CE23- P1 -Z	-		
6.7	530	207.10	13800	1.6	40	2KJ3207- CE23- N1 -Z	-		
7.4	475	185.70	13900	1.8	40	2KJ3207- CE23- M1 -Z	-		
8.2	425	167.39	13900	2	40	2KJ3207- CE23- L1 -Z	-		
8.9	395	154.51	14000	2.1	40	2KJ3207- CE23- K1 -Z	-		
D.69-FZ71MAA6TV									
5.1	685	292.08	12000	0.87	26	2KJ3206- CG25- R1 -Z	P01		
5.8	600	256.46	12100	0.99	26	2KJ3206- CG25- Q1 -Z	P01		
6.4	545	233.14	12200	1.1	26	2KJ3206- CG25- P1 -Z	P01		
7.5	465	199.47	12400	1.3	26	2KJ3206- CG25- N1 -Z	P01		
8.3	425	181.33	12400	1.4	26	2KJ3206- CG25- M1 -Z	P01		
9.4	375	160.29	12500	1.6	26	2KJ3206- CG25- L1 -Z	P01		
10.3	340	145.71	12600	1.7	26	2KJ3206- CG25- K1 -Z	P01		
11.8	300	127.63	12600	2.0	26	2KJ3206- CG25- J1 -Z	P01		
12.7	275	117.82	12700	2.2	26	2KJ3206- CG25- H1 -Z	P01		
D.69-LE71YMS4P									
4.7	745	292.08	10600	0.8	30	2KJ3206- CE23- R1 -Z	-		
5.4	655	256.46	10900	0.91	30	2KJ3206- CE23- Q1 -Z	-		
5.9	595	233.14	11000	1	30	2KJ3206- CE23- P1 -Z	-		
6.9	510	199.47	11100	1.2	30	2KJ3206- CE23- N1 -Z	-		
7.6	460	181.33	11200	1.3	30	2KJ3206- CE23- M1 -Z	-		
8.6	410	160.29	11300	1.5	30	2KJ3206- CE23- L1 -Z	-		
9.5	370	145.71	11300	1.6	30	2KJ3206- CE23- K1 -Z	-		
11	325	127.63	11400	1.8	30	2KJ3206- CE23- J1 -Z	-		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)		
0.37	D.69-LE71YMS4P								
	12	300	117.82	11400	2	30	2KJ3206- ■ CE23- ■ ■ H1	-Z -	
	13	265	104.31	11500	2.2	30	2KJ3206- ■ CE23- ■ ■ G1	-Z -	
	D.59-FZ71MAA6TV								
	6.3	560	239.70	6670	0.80	21	2KJ3205- ■ CG25- ■ ■ Q1	-Z P01	
	6.9	510	217.91	7640	0.88	21	2KJ3205- ■ CG25- ■ ■ P1	-Z P01	
	8.0	435	186.43	8150	1.0	21	2KJ3205- ■ CG25- ■ ■ N1	-Z P01	
	8.9	395	169.48	8320	1.1	21	2KJ3205- ■ CG25- ■ ■ M1	-Z P01	
	10.0	350	149.81	8510	1.3	21	2KJ3205- ■ CG25- ■ ■ L1	-Z P01	
	11.0	320	136.19	8630	1.4	21	2KJ3205- ■ CG25- ■ ■ K1	-Z P01	
	12.6	280	119.30	8750	1.6	21	2KJ3205- ■ CG25- ■ ■ J1	-Z P01	
	13.6	255	110.12	8800	1.7	21	2KJ3205- ■ CG25- ■ ■ H1	-Z P01	
	15.4	225	97.50	8850	2.0	21	2KJ3205- ■ CG25- ■ ■ G1	-Z P01	
	D.59-LE71YMS4P								
	6.3	555	217.91	6220	0.81	26	2KJ3205- ■ CE23- ■ ■ P1	-Z -	
	7.4	475	186.43	7620	0.94	26	2KJ3205- ■ CE23- ■ ■ N1	-Z -	
	8.1	430	169.48	7700	1	26	2KJ3205- ■ CE23- ■ ■ M1	-Z -	
	9.2	380	149.81	7780	1.2	26	2KJ3205- ■ CE23- ■ ■ L1	-Z -	
	10	345	136.19	7830	1.3	26	2KJ3205- ■ CE23- ■ ■ K1	-Z -	
	12	305	119.30	7900	1.5	26	2KJ3205- ■ CE23- ■ ■ J1	-Z -	
	13	280	110.12	7940	1.6	26	2KJ3205- ■ CE23- ■ ■ H1	-Z -	
	14	250	97.50	7990	1.8	26	2KJ3205- ■ CE23- ■ ■ G1	-Z -	
	17	205	81.15	8060	2.2	26	2KJ3205- ■ CE23- ■ ■ F1	-Z -	
	18	196	76.38	8070	2.3	26	2KJ3205- ■ CE23- ■ ■ E1	-Z -	
	D.49-FZ71MAA6TV								
	8.8	400	170.57	3760	0.80	19	2KJ3204- ■ CG25- ■ ■ N1	-Z P01	
	9.7	365	155.06	4650	0.88	19	2KJ3204- ■ CG25- ■ ■ M1	-Z P01	
	10.9	320	137.06	5780	0.99	19	2KJ3204- ■ CG25- ■ ■ L1	-Z P01	
	12.0	290	124.60	5970	1.1	19	2KJ3204- ■ CG25- ■ ■ K1	-Z P01	
	13.7	255	109.14	6040	1.2	19	2KJ3204- ■ CG25- ■ ■ J1	-Z P01	
	14.9	235	100.75	6080	1.3	19	2KJ3204- ■ CG25- ■ ■ H1	-Z P01	
	16.8	210	89.20	6130	1.5	19	2KJ3204- ■ CG25- ■ ■ G1	-Z P01	
	20	174	74.24	6200	1.8	19	2KJ3204- ■ CG25- ■ ■ F1	-Z P01	
	21	164	69.88	6220	1.9	19	2KJ3204- ■ CG25- ■ ■ E1	-Z P01	
	24	147	62.61	6260	2.2	19	2KJ3204- ■ CG25- ■ ■ D1	-Z P01	
	28	125	53.30	6300	2.5	19	2KJ3204- ■ CG25- ■ ■ C1	-Z P01	
	D.49-LE71YMS4P								
	8.9	395	155.06	3880	0.81	23	2KJ3204- ■ CE23- ■ ■ M1	-Z -	
	10	350	137.06	5020	0.91	23	2KJ3204- ■ CE23- ■ ■ L1	-Z -	
	11	315	124.60	5910	1	23	2KJ3204- ■ CE23- ■ ■ K1	-Z -	
	13	275	109.14	5990	1.1	23	2KJ3204- ■ CE23- ■ ■ J1	-Z -	
	14	255	100.75	6030	1.2	23	2KJ3204- ■ CE23- ■ ■ H1	-Z -	
	15	225	89.20	6090	1.4	23	2KJ3204- ■ CE23- ■ ■ G1	-Z -	
	19	190	74.24	6170	1.7	23	2KJ3204- ■ CE23- ■ ■ F1	-Z -	
	20	179	69.88	6190	1.8	23	2KJ3204- ■ CE23- ■ ■ E1	-Z -	
	22	160	62.61	6230	2	23	2KJ3204- ■ CE23- ■ ■ D1	-Z -	
	Z.49-LE71YMS4P								
	26	134	52.14	6280	2.4	23	2KJ3104- ■ CE23- ■ ■ B2	-Z -	
	D.39-FZ71MAA6TV								
	14.9	235	100.44	3160	0.85	11	2KJ3203- ■ CG25- ■ ■ J1	-Z P01	
	16.8	210	89.51	3730	0.95	11	2KJ3203- ■ CG25- ■ ■ H1	-Z P01	
	18.2	194	82.63	4090	1.0	11	2KJ3203- ■ CG25- ■ ■ G1	-Z P01	
	21	170	72.34	4630	1.2	11	2KJ3203- ■ CG25- ■ ■ F1	-Z P01	
	24	149	63.43	5110	1.3	11	2KJ3203- ■ CG25- ■ ■ E1	-Z P01	
	D.39-LE71YMS4P								
	15	225	89.51	3740	0.87	13	2KJ3203- ■ CE23- ■ ■ H1	-Z -	
	17	210	82.63	4120	0.95	13	2KJ3203- ■ CE23- ■ ■ G1	-Z -	
	19	185	72.34	4740	1.1	13	2KJ3203- ■ CE23- ■ ■ F1	-Z -	
	22	162	63.43	5320	1.2	13	2KJ3203- ■ CE23- ■ ■ E1	-Z -	
	Z.39-FZ71MAA6TV								
	27	131	55.95	5260	1.5	10	2KJ3103- ■ CG25- ■ ■ A2	-Z P01	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.37	Z.39-FZ71MAA6TV							
	30	117	49.75	5260	1.7	10	2KJ3103- ■ CG25- ■ ■ X1 -Z	P01
	34	102	43.68	5260	1.9	10	2KJ3103- ■ CG25- ■ ■ W1 -Z	P01
	38	93	39.71	5260	2.1	10	2KJ3103- ■ CG25- ■ ■ V1 -Z	P01
	44	80	33.97	5260	2.5	10	2KJ3103- ■ CG25- ■ ■ U1 -Z	P01
	49	72	30.88	5260	2.7	10	2KJ3103- ■ CG25- ■ ■ T1 -Z	P01
	Z.39-LE71YMS4P							
	25	143	55.95	5790	1.4	13	2KJ3103- ■ CE23- ■ ■ A2 -Z	-
	28	127	49.75	5800	1.6	13	2KJ3103- ■ CE23- ■ ■ X1 -Z	-
	32	112	43.68	5800	1.8	13	2KJ3103- ■ CE23- ■ ■ W1 -Z	-
	35	102	39.71	5800	2	13	2KJ3103- ■ CE23- ■ ■ V1 -Z	-
	41	87	33.97	5800	2.3	13	2KJ3103- ■ CE23- ■ ■ U1 -Z	-
	45	79	30.88	5800	2.5	13	2KJ3103- ■ CE23- ■ ■ T1 -Z	-
	D.29-FZ71MAA6TV							
	23	154	65.52	3000	0.91	9	2KJ3202- ■ CG25- ■ ■ E1 -Z	P01
	26	134	56.93	3480	1.0	9	2KJ3202- ■ CG25- ■ ■ D1 -Z	P01
	29	121	51.40	3660	1.2	9	2KJ3202- ■ CG25- ■ ■ C1 -Z	P01
	31	113	48.37	3660	1.2	9	2KJ3202- ■ CG25- ■ ■ B1 -Z	P01
	D.29-LE71YMS4P							
	21	168	65.52	2960	0.83	12	2KJ3202- ■ CE23- ■ ■ E1 -Z	-
	24	146	56.93	3550	0.96	12	2KJ3202- ■ CE23- ■ ■ D1 -Z	-
	27	132	51.40	3920	1.1	12	2KJ3202- ■ CE23- ■ ■ C1 -Z	-
	29	124	48.37	4060	1.1	12	2KJ3202- ■ CE23- ■ ■ B1 -Z	-
	Z.29-FZ71MAA6TV							
	36	97	41.40	3660	1.4	9	2KJ3102- ■ CG25- ■ ■ A2 -Z	P01
41	86	36.72	3660	1.6	9	2KJ3102- ■ CG25- ■ ■ X1 -Z	P01	
47	75	31.86	3660	1.9	9	2KJ3102- ■ CG25- ■ ■ W1 -Z	P01	
52	68	28.96	3660	2.1	9	2KJ3102- ■ CG25- ■ ■ V1 -Z	P01	
60	58	24.84	3660	2.4	9	2KJ3102- ■ CG25- ■ ■ U1 -Z	P01	
66	53	22.58	3660	2.6	9	2KJ3102- ■ CG25- ■ ■ T1 -Z	P01	
76	46	19.80	3660	3.0	9	2KJ3102- ■ CG25- ■ ■ S1 -Z	P01	
85	41	17.67	3580	3.4	9	2KJ3102- ■ CG25- ■ ■ R1 -Z	P01	
95	37	15.75	3450	3.8	9	2KJ3102- ■ CG25- ■ ■ Q1 -Z	P01	
103	34	14.54	3370	3.5	9	2KJ3102- ■ CG25- ■ ■ P1 -Z	P01	
118	29	12.73	3250	4.7	9	2KJ3102- ■ CG25- ■ ■ N1 -Z	P01	
134	26	11.16	3120	5.3	9	2KJ3102- ■ CG25- ■ ■ M1 -Z	P01	
148	23	10.12	3030	5.9	9	2KJ3102- ■ CG25- ■ ■ L1 -Z	P01	
157	22	9.53	2970	6.2	9	2KJ3102- ■ CG25- ■ ■ K1 -Z	P01	
179	19	8.40	2860	7.0	9	2KJ3102- ■ CG25- ■ ■ J1 -Z	P01	
206	17	7.29	2730	7.6	9	2KJ3102- ■ CG25- ■ ■ H1 -Z	P01	
217	16	6.92	2670	4.6	9	2KJ3102- ■ CG25- ■ ■ G1 -Z	P01	
248	14	6.06	2560	7.0	9	2KJ3102- ■ CG25- ■ ■ F1 -Z	P01	
282	12	5.31	2460	7.3	9	2KJ3102- ■ CG25- ■ ■ E1 -Z	P01	
311	11	4.82	2390	7.6	9	2KJ3102- ■ CG25- ■ ■ D1 -Z	P01	
330	10	4.54	2350	7.9	9	2KJ3102- ■ CG25- ■ ■ C1 -Z	P01	
375	9.4	4.00	2250	8.1	9	2KJ3102- ■ CG25- ■ ■ B1 -Z	P01	
432	8.1	3.47	2150	8.6	9	2KJ3102- ■ CG25- ■ ■ A1 -Z	P01	
Z.29-LE71YMS4P								
33	106	41.40	4060	1.3	12	2KJ3102- ■ CE23- ■ ■ A2 -Z	-	
38	94	36.72	4060	1.5	12	2KJ3102- ■ CE23- ■ ■ X1 -Z	-	
43	82	31.86	4060	1.7	12	2KJ3102- ■ CE23- ■ ■ W1 -Z	-	
48	74	28.96	4050	1.9	12	2KJ3102- ■ CE23- ■ ■ V1 -Z	-	
56	64	24.84	3890	2.2	12	2KJ3102- ■ CE23- ■ ■ U1 -Z	-	
61	58	22.58	3790	2.4	12	2KJ3102- ■ CE23- ■ ■ T1 -Z	-	
70	51	19.80	3650	2.8	12	2KJ3102- ■ CE23- ■ ■ S1 -Z	-	
78	45	17.67	3540	3.1	12	2KJ3102- ■ CE23- ■ ■ R1 -Z	-	
88	40	15.75	3420	3.5	12	2KJ3102- ■ CE23- ■ ■ Q1 -Z	-	
95	37	14.54	3340	3.2	12	2KJ3102- ■ CE23- ■ ■ P1 -Z	-	
108	33	12.73	3210	4.3	12	2KJ3102- ■ CE23- ■ ■ N1 -Z	-	
124	29	11.16	3090	4.9	12	2KJ3102- ■ CE23- ■ ■ M1 -Z	-	
136	26	10.12	3000	5.4	12	2KJ3102- ■ CE23- ■ ■ L1 -Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.37	Z.29-LE71YMS4P							
	145	24	9.53	2950	5.7	12	2KJ3102- ■ CE23- ■ ■ K1 -Z -	
	164	22	8.40	2830	6.4	12	2KJ3102- ■ CE23- ■ ■ J1 -Z -	
	189	19	7.29	2720	7	12	2KJ3102- ■ CE23- ■ ■ H1 -Z -	
	199	18	6.92	2650	4.2	12	2KJ3102- ■ CE23- ■ ■ G1 -Z -	
	228	16	6.06	2540	6.4	12	2KJ3102- ■ CE23- ■ ■ F1 -Z -	
	260	14	5.31	2440	6.7	12	2KJ3102- ■ CE23- ■ ■ E1 -Z -	
	286	12	4.82	2370	7	12	2KJ3102- ■ CE23- ■ ■ D1 -Z -	
	304	12	4.54	2330	7.2	12	2KJ3102- ■ CE23- ■ ■ C1 -Z -	
	345	10	4.00	2240	7.4	12	2KJ3102- ■ CE23- ■ ■ B1 -Z -	
	398	8.9	3.47	2140	7.9	12	2KJ3102- ■ CE23- ■ ■ A1 -Z -	
	Z.29-LE71ZMH2P							
	157	22	17.67	2880	6.2	9	2KJ3102- ■ CB23- ■ ■ R1 -Z P00	
	176	20	15.75	2780	7	9	2KJ3102- ■ CB23- ■ ■ Q1 -Z P00	
	191	18	14.54	2710	6.5	9	2KJ3102- ■ CB23- ■ ■ P1 -Z P00	
	218	16	12.73	2600	8.6	9	2KJ3102- ■ CB23- ■ ■ N1 -Z P00	
	248	14	11.16	2500	9.8	9	2KJ3102- ■ CB23- ■ ■ M1 -Z P00	
	274	13	10.12	2420	11	9	2KJ3102- ■ CB23- ■ ■ L1 -Z P00	
	291	12	9.53	2380	12	9	2KJ3102- ■ CB23- ■ ■ K1 -Z P00	
	330	11	8.40	2280	13	9	2KJ3102- ■ CB23- ■ ■ J1 -Z P00	
	380	9.3	7.29	2180	14	9	2KJ3102- ■ CB23- ■ ■ H1 -Z P00	
	400	8.8	6.92	2140	8.5	9	2KJ3102- ■ CB23- ■ ■ G1 -Z P00	
	457	7.7	6.06	2050	13	9	2KJ3102- ■ CB23- ■ ■ F1 -Z P00	
	522	6.8	5.31	1970	13	9	2KJ3102- ■ CB23- ■ ■ E1 -Z P00	
	575	6.1	4.82	1910	14	9	2KJ3102- ■ CB23- ■ ■ D1 -Z P00	
	610	5.8	4.54	1870	14	9	2KJ3102- ■ CB23- ■ ■ C1 -Z P00	
	692	5.1	4.00	1790	15	9	2KJ3102- ■ CB23- ■ ■ B1 -Z P00	
	D.19-FZ71MAA6TV							
	31	113	48.30	1100	0.88	8	2KJ3201- ■ CG25- ■ ■ D1 -Z P01	
	34	102	43.61	1280	0.97	8	2KJ3201- ■ CG25- ■ ■ C1 -Z P01	
37	96	41.04	1380	1.0	8	2KJ3201- ■ CG25- ■ ■ B1 -Z P01		
D.19-LE71YMS4P								
29	124	48.30	1160	0.81	10	2KJ3201- ■ CE23- ■ ■ D1 -Z -		
32	112	43.61	1410	0.9	10	2KJ3201- ■ CE23- ■ ■ C1 -Z -		
34	105	41.04	1550	0.95	10	2KJ3201- ■ CE23- ■ ■ B1 -Z -		
Z.19-FZ71MAA6TV								
43	82	34.97	1600	1.2	8	2KJ3101- ■ CG25- ■ ■ W1 -Z P01		
48	72	30.97	1770	1.4	8	2KJ3101- ■ CG25- ■ ■ V1 -Z P01		
56	63	26.91	1840	1.6	8	2KJ3101- ■ CG25- ■ ■ U1 -Z P01		
61	57	24.46	1860	1.7	8	2KJ3101- ■ CG25- ■ ■ T1 -Z P01		
72	49	20.82	1900	2.0	8	2KJ3101- ■ CG25- ■ ■ S1 -Z P01		
79	44	18.92	1910	2.2	8	2KJ3101- ■ CG25- ■ ■ R1 -Z P01		
91	38	16.50	1940	2.5	8	2KJ3101- ■ CG25- ■ ■ Q1 -Z P01		
102	34	14.77	1950	2.7	8	2KJ3101- ■ CG25- ■ ■ P1 -Z P01		
114	30	13.12	1970	2.9	8	2KJ3101- ■ CG25- ■ ■ N1 -Z P01		
124	28	12.11	1960	3.1	8	2KJ3101- ■ CG25- ■ ■ M1 -Z P01		
143	24	10.52	1890	3.3	8	2KJ3101- ■ CG25- ■ ■ L1 -Z P01		
164	21	9.14	1820	3.6	8	2KJ3101- ■ CG25- ■ ■ K1 -Z P01		
182	19	8.25	1760	3.8	8	2KJ3101- ■ CG25- ■ ■ J1 -Z P01		
193	18	7.76	1730	4.0	8	2KJ3101- ■ CG25- ■ ■ H1 -Z P01		
222	15	6.77	1670	4.3	8	2KJ3101- ■ CG25- ■ ■ G1 -Z P01		
240	14	6.25	1580	3.8	8	2KJ3101- ■ CG25- ■ ■ F1 -Z P01		
276	12	5.43	1520	4.1	8	2KJ3101- ■ CG25- ■ ■ E1 -Z P01		
318	11	4.71	1460	4.4	8	2KJ3101- ■ CG25- ■ ■ D1 -Z P01		
352	10	4.26	1410	4.7	8	2KJ3101- ■ CG25- ■ ■ C1 -Z P01		
374	9.4	4.01	1390	4.9	8	2KJ3101- ■ CG25- ■ ■ B1 -Z P01		
Z.19-LE71YMS4P								
39	90	34.97	1860	1.1	10	2KJ3101- ■ CE23- ■ ■ W1 -Z -		
45	79	30.97	2080	1.3	10	2KJ3101- ■ CE23- ■ ■ V1 -Z -		
51	69	26.91	2290	1.5	10	2KJ3101- ■ CE23- ■ ■ U1 -Z -		
56	63	24.46	2320	1.6	10	2KJ3101- ■ CE23- ■ ■ T1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)		
0.37	Z.19-LE71YMS4P								
	66	53	20.82	2340	1.9	10	2KJ3101- ■ CE23- ■ ■ S1 -Z -		
	73	48	18.92	2290	2.1	10	2KJ3101- ■ CE23- ■ ■ R1 -Z -		
	84	42	16.50	2210	2.3	10	2KJ3101- ■ CE23- ■ ■ Q1 -Z -		
	93	38	14.77	2150	2.5	10	2KJ3101- ■ CE23- ■ ■ P1 -Z -		
	105	34	13.12	2080	2.7	10	2KJ3101- ■ CE23- ■ ■ N1 -Z -		
	114	31	12.11	2040	2.8	10	2KJ3101- ■ CE23- ■ ■ M1 -Z -		
	131	27	10.52	1970	3.1	10	2KJ3101- ■ CE23- ■ ■ L1 -Z -		
	151	23	9.14	1900	3.3	10	2KJ3101- ■ CE23- ■ ■ K1 -Z -		
	167	21	8.25	1840	3.5	10	2KJ3101- ■ CE23- ■ ■ J1 -Z -		
	178	20	7.76	1810	3.7	10	2KJ3101- ■ CE23- ■ ■ H1 -Z -		
	204	17	6.77	1740	3.9	10	2KJ3101- ■ CE23- ■ ■ G1 -Z -		
	221	16	6.25	1640	3.5	10	2KJ3101- ■ CE23- ■ ■ F1 -Z -		
	254	14	5.43	1580	3.8	10	2KJ3101- ■ CE23- ■ ■ E1 -Z -		
	293	12	4.71	1520	4.1	10	2KJ3101- ■ CE23- ■ ■ D1 -Z -		
	324	11	4.26	1480	4.3	10	2KJ3101- ■ CE23- ■ ■ C1 -Z -		
	344	10	4.01	1460	4.5	10	2KJ3101- ■ CE23- ■ ■ B1 -Z -		
	Z.19-LE71ZMH2P								
	168	21	16.50	1840	4.7	8	2KJ3101- ■ CB23- ■ ■ Q1 -Z P00		
	188	19	14.77	1780	5	8	2KJ3101- ■ CB23- ■ ■ P1 -Z P00		
	211	17	13.12	1720	5.4	8	2KJ3101- ■ CB23- ■ ■ N1 -Z P00		
	229	15	12.11	1690	5.7	8	2KJ3101- ■ CB23- ■ ■ M1 -Z P00		
	263	13	10.52	1620	6.2	8	2KJ3101- ■ CB23- ■ ■ L1 -Z P00		
	303	12	9.14	1550	6.7	8	2KJ3101- ■ CB23- ■ ■ K1 -Z P00		
	336	10	8.25	1510	7	8	2KJ3101- ■ CB23- ■ ■ J1 -Z P00		
	357	9.9	7.76	1470	7.4	8	2KJ3101- ■ CB23- ■ ■ H1 -Z P00		
	409	8.6	6.77	1410	7.9	8	2KJ3101- ■ CB23- ■ ■ G1 -Z P00		
	443	8	6.25	1350	7	8	2KJ3101- ■ CB23- ■ ■ F1 -Z P00		
	510	6.9	5.43	1300	7.7	8	2KJ3101- ■ CB23- ■ ■ E1 -Z P00		
	588	6	4.71	1240	8.2	8	2KJ3101- ■ CB23- ■ ■ D1 -Z P00		
	650	5.4	4.26	1210	8.6	8	2KJ3101- ■ CB23- ■ ■ C1 -Z P00		
	691	5.1	4.01	1180	9	8	2KJ3101- ■ CB23- ■ ■ B1 -Z P00		
	E.49-FZ71MAA6TV								
	155	22	9.70	3680	3.8	15	2KJ3002- ■ CG25- ■ ■ S1 -Z P01		
170	20	8.82	3680	5.2	15	2KJ3002- ■ CG25- ■ ■ R1 -Z P01			
200	17	7.50	3680	6.1	15	2KJ3002- ■ CG25- ■ ■ Q1 -Z P01			
220	16	6.82	3680	6.5	15	2KJ3002- ■ CG25- ■ ■ P1 -Z P01			
247	14	6.08	3680	7.3	15	2KJ3002- ■ CG25- ■ ■ N1 -Z P01			
275	12	5.45	3680	8.0	15	2KJ3002- ■ CG25- ■ ■ M1 -Z P01			
305	11	4.92	3680	8.8	15	2KJ3002- ■ CG25- ■ ■ L1 -Z P01			
330	10	4.54	3680	9.5	15	2KJ3002- ■ CG25- ■ ■ K1 -Z P01			
362	9.7	4.14	3680	10.0	15	2KJ3002- ■ CG25- ■ ■ J1 -Z P01			
436	8.1	3.44	3680	12.0	15	2KJ3002- ■ CG25- ■ ■ H1 -Z P01			
463	7.6	3.24	3680	13.0	15	2KJ3002- ■ CG25- ■ ■ G1 -Z P01			
490	7.2	3.06	3680	14.0	15	2KJ3002- ■ CG25- ■ ■ F1 -Z P01			
E.49-LE71YMS4P									
142	25	9.70	4000	3.5	19	2KJ3002- ■ CE23- ■ ■ S1 -Z -			
E.39-FZ71MAA6TV									
163	21	9.22	2460	1.4	11	2KJ3001- ■ CG25- ■ ■ S1 -Z P01			
183	19	8.20	2460	1.8	11	2KJ3001- ■ CG25- ■ ■ R1 -Z P01			
208	16	7.20	2460	2.4	11	2KJ3001- ■ CG25- ■ ■ Q1 -Z P01			
229	15	6.55	2460	2.6	11	2KJ3001- ■ CG25- ■ ■ P1 -Z P01			
268	13	5.60	2460	3.0	11	2KJ3001- ■ CG25- ■ ■ N1 -Z P01			
295	11	5.09	2460	3.3	11	2KJ3001- ■ CG25- ■ ■ M1 -Z P01			
333	10	4.50	2460	4.5	11	2KJ3001- ■ CG25- ■ ■ L1 -Z P01			
367	9.6	4.09	2460	5.0	11	2KJ3001- ■ CG25- ■ ■ K1 -Z P01			
419	8.4	3.58	2460	6.9	11	2KJ3001- ■ CG25- ■ ■ J1 -Z P01			
453	7.7	3.31	2460	7.4	11	2KJ3001- ■ CG25- ■ ■ H1 -Z P01			
512	6.9	2.93	2460	9.4	11	2KJ3001- ■ CG25- ■ ■ G1 -Z P01			
615	5.7	2.44	2460	11.0	11	2KJ3001- ■ CG25- ■ ■ F1 -Z P01			
655	5.3	2.29	2460	12.0	11	2KJ3001- ■ CG25- ■ ■ E1 -Z P01			

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles	
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)			
0.37	E.39-FZ71MAA6TV									
	728	4.8	2.06	2460	14.0	11	2KJ3001- CG25- D1	-Z	P01	
	E.39-LE71YMS4P									
	150	24	9.22	3000	1.3	14	2KJ3001- CE23- S1	-Z	-	
	168	21	8.20	3000	1.6	14	2KJ3001- CE23- R1	-Z	-	
	192	18	7.20	3000	2.2	14	2KJ3001- CE23- Q1	-Z	-	
	211	17	6.55	3000	2.4	14	2KJ3001- CE23- P1	-Z	-	
	246	14	5.60	3000	2.8	14	2KJ3001- CE23- N1	-Z	-	
	271	13	5.09	3000	3.1	14	2KJ3001- CE23- M1	-Z	-	
	307	12	4.50	3000	4.2	14	2KJ3001- CE23- L1	-Z	-	
	337	10	4.09	3000	4.6	14	2KJ3001- CE23- K1	-Z	-	
	0.55	D.89-LE80ZMQ6P								
		3	1750	311.60	18500	0.96	67	2KJ3208- DF23- S1	-Z	P01
3.3		1590	283.28	18500	1.1	67	2KJ3208- DF23- R1	-Z	P01	
3.7		1420	254.09	18500	1.2	67	2KJ3208- DF23- Q1	-Z	P01	
4.1		1280	228.45	18500	1.3	67	2KJ3208- DF23- P1	-Z	P01	
D.89-LE80MH4P										
4.6		1130	311.60	18500	1.5	68	2KJ3208- DC23- S1	-Z	-	
5.1		1030	283.28	18500	1.6	68	2KJ3208- DC23- R1	-Z	-	
5.7		925	254.09	18500	1.8	68	2KJ3208- DC23- Q1	-Z	-	
6.3		830	228.45	18500	2	68	2KJ3208- DC23- P1	-Z	-	
D.79-FZ71MCA6TV										
5.0		1050	300.21	12500	0.80	36	2KJ3207- CH25- R1	-Z	P01	
5.9		890	255.33	14700	0.94	36	2KJ3207- CH25- Q1	-Z	P01	
6.5		810	232.12	14700	1.0	36	2KJ3207- CH25- P1	-Z	P01	
7.2		725	207.10	14700	1.2	36	2KJ3207- CH25- N1	-Z	P01	
8.1		650	185.70	14700	1.3	36	2KJ3207- CH25- M1	-Z	P01	
9.0		585	167.39	14700	1.4	36	2KJ3207- CH25- L1	-Z	P01	
9.7		540	154.51	14700	1.6	36	2KJ3207- CH25- K1	-Z	P01	
10.6		490	141.04	14700	1.7	36	2KJ3207- CH25- J1	-Z	P01	
12.8		405	117.03	14700	2.0	36	2KJ3207- CH25- H1	-Z	P01	
13.6		385	110.14	14700	2.2	36	2KJ3207- CH25- G1	-Z	P01	
D.79-LE80MH4P										
5.6		930	255.33	12600	0.9	45	2KJ3207- DC23- Q1	-Z	-	
6.2		845	232.12	13400	0.99	45	2KJ3207- DC23- P1	-Z	-	
7		755	207.10	13500	1.1	45	2KJ3207- DC23- N1	-Z	-	
7.8		675	185.70	13600	1.2	45	2KJ3207- DC23- M1	-Z	-	
8.6		610	167.39	13700	1.4	45	2KJ3207- DC23- L1	-Z	-	
9.3		560	154.51	13700	1.5	45	2KJ3207- DC23- K1	-Z	-	
10		510	141.04	13800	1.6	45	2KJ3207- DC23- J1	-Z	-	
12		425	117.03	13900	2	45	2KJ3207- DC23- H1	-Z	-	
13		400	110.14	13900	2.1	45	2KJ3207- DC23- G1	-Z	-	
14		375	104.03	14000	2.2	45	2KJ3207- DC23- F1	-Z	-	
D.69-FZ71MCA6TV										
7.5		695	199.47	12000	0.86	27	2KJ3206- CH25- N1	-Z	P01	
8.3		630	181.33	12100	0.94	27	2KJ3206- CH25- M1	-Z	P01	
9.4		560	160.29	12200	1.1	27	2KJ3206- CH25- L1	-Z	P01	
10.3		510	145.71	12300	1.2	27	2KJ3206- CH25- K1	-Z	P01	
11.8		445	127.63	12400	1.3	27	2KJ3206- CH25- J1	-Z	P01	
12.7		410	117.82	12500	1.5	27	2KJ3206- CH25- H1	-Z	P01	
14.4		365	104.31	12500	1.6	27	2KJ3206- CH25- G1	-Z	P01	
17.3		300	86.82	12600	2.0	27	2KJ3206- CH25- F1	-Z	P01	
18.4		285	81.71	12700	2.1	27	2KJ3206- CH25- E1	-Z	P01	
20		255	73.22	12700	2.3	27	2KJ3206- CH25- D1	-Z	P01	
D.69-LE80MH4P										
7.2	725	199.47	10700	0.82	35	2KJ3206- DC23- N1	-Z	-		
7.9	660	181.33	10800	0.91	35	2KJ3206- DC23- M1	-Z	-		
9	585	160.29	11000	1	35	2KJ3206- DC23- L1	-Z	-		
9.9	530	145.71	11100	1.1	35	2KJ3206- DC23- K1	-Z	-		
11	465	127.63	11200	1.3	35	2KJ3206- DC23- J1	-Z	-		
12	430	117.82	11200	1.4	35	2KJ3206- DC23- H1	-Z	-		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.55	D.69-LE80MH4P							
	14	380	104.31	11300	1.6	35	2KJ3206- DC23- G1 -Z -	
	17	315	86.82	11400	1.9	35	2KJ3206- DC23- F1 -Z -	
	18	295	81.71	11400	2	35	2KJ3206- DC23- E1 -Z -	
	20	265	73.22	11500	2.2	35	2KJ3206- DC23- D1 -Z -	
	D.59-FZ71MCA6TV							
	10.0	520	149.81	7450	0.86	22	2KJ3205- CH25- L1 -Z P01	
	11.0	475	136.19	8000	0.94	22	2KJ3205- CH25- K1 -Z P01	
	12.6	415	119.30	8240	1.1	22	2KJ3205- CH25- J1 -Z P01	
	13.6	385	110.12	8360	1.2	22	2KJ3205- CH25- H1 -Z P01	
	15.4	340	97.50	8550	1.3	22	2KJ3205- CH25- G1 -Z P01	
	18.5	280	81.15	8750	1.6	22	2KJ3205- CH25- F1 -Z P01	
	19.6	265	76.38	8780	1.7	22	2KJ3205- CH25- E1 -Z P01	
	22	235	68.43	8830	1.9	22	2KJ3205- CH25- D1 -Z P01	
	D.59-LE80MH4P							
	9.6	545	149.81	6400	0.82	30	2KJ3205- DC23- L1 -Z -	
	11	495	136.19	7300	0.91	30	2KJ3205- DC23- K1 -Z -	
	12	435	119.30	7690	1	30	2KJ3205- DC23- J1 -Z -	
	13	400	110.12	7740	1.1	30	2KJ3205- DC23- H1 -Z -	
	15	355	97.50	7820	1.3	30	2KJ3205- DC23- G1 -Z -	
18	295	81.15	7910	1.5	30	2KJ3205- DC23- F1 -Z -		
19	275	76.38	7950	1.6	30	2KJ3205- DC23- E1 -Z -		
21	250	68.43	7990	1.8	30	2KJ3205- DC23- D1 -Z -		
Z.59-FZ71MCA6TV								
26	199	56.99	8900	2.3	22	2KJ3105- CH25- A2 -Z P01		
29	181	51.81	8930	2.5	22	2KJ3105- CH25- X1 -Z P01		
Z.59-LE80MH4P								
25	205	56.99	8060	2.2	30	2KJ3105- DC23- A2 -Z -		
28	189	51.81	8080	2.4	30	2KJ3105- DC23- X1 -Z -		
D.49-FZ71MCA6TV								
13.7	380	109.14	4260	0.84	20	2KJ3204- CH25- J1 -Z P01		
14.9	350	100.75	5020	0.91	20	2KJ3204- CH25- H1 -Z P01		
16.8	310	89.20	5930	1.0	20	2KJ3204- CH25- G1 -Z P01		
20	255	74.24	6040	1.2	20	2KJ3204- CH25- F1 -Z P01		
21	240	69.88	6070	1.3	20	2KJ3204- CH25- E1 -Z P01		
24	215	62.61	6120	1.5	20	2KJ3204- CH25- D1 -Z P01		
D.49-LE80MH4P								
13	395	109.14	3880	0.8	28	2KJ3204- DC23- J1 -Z -		
14	365	100.75	4640	0.87	28	2KJ3204- DC23- H1 -Z -		
16	325	89.20	5660	0.98	28	2KJ3204- DC23- G1 -Z -		
19	270	74.24	6000	1.2	28	2KJ3204- DC23- F1 -Z -		
21	255	69.88	6030	1.3	28	2KJ3204- DC23- E1 -Z -		
23	225	62.61	6090	1.4	28	2KJ3204- DC23- D1 -Z -		
Z.49-FZ71MCA6TV								
29	182	52.14	6190	1.8	20	2KJ3104- CH25- B2 -Z P01		
32	165	47.40	6220	1.9	20	2KJ3104- CH25- A2 -Z P01		
37	141	40.31	6270	2.3	20	2KJ3104- CH25- X1 -Z P01		
41	128	36.65	6300	2.5	20	2KJ3104- CH25- W1 -Z P01		
46	114	32.70	6280	2.8	20	2KJ3104- CH25- V1 -Z P01		
Z.49-LE80MH4P								
28	190	52.14	6170	1.7	28	2KJ3104- DC23- B2 -Z -		
30	173	47.40	6200	1.9	28	2KJ3104- DC23- A2 -Z -		
36	147	40.31	6250	2.2	28	2KJ3104- DC23- X1 -Z -		
39	134	36.65	6280	2.4	28	2KJ3104- DC23- W1 -Z -		
44	119	32.70	6310	2.7	28	2KJ3104- DC23- V1 -Z -		
D.39-FZ71MCA6TV								
24	220	63.43	3500	0.90	12	2KJ3203- CH25- E1 -Z P01		
D.39-LE80MH4P								
23	230	63.43	3610	0.86	18	2KJ3203- DC23- E1 -Z -		
25	210	57.54	4120	0.95	18	2KJ3203- DC23- D1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.55	Z.39-FZ71MCA6TV							
	27	195	55.95	4060	1.0	11	2KJ3103- CH25- A2	-Z P01
	30	174	49.75	4540	1.1	11	2KJ3103- CH25- X1	-Z P01
	34	152	43.68	5040	1.3	11	2KJ3103- CH25- W1	-Z P01
	38	139	39.71	5260	1.4	11	2KJ3103- CH25- V1	-Z P01
	44	118	33.97	5260	1.7	11	2KJ3103- CH25- U1	-Z P01
	49	108	30.88	5260	1.8	11	2KJ3103- CH25- T1	-Z P01
	55	95	27.30	5260	2.1	11	2KJ3103- CH25- S1	-Z P01
	60	86	24.82	5260	2.3	11	2KJ3103- CH25- R1	-Z P01
	69	76	21.74	5260	2.6	11	2KJ3103- CH25- Q1	-Z P01
	75	70	20.07	5260	2.8	11	2KJ3103- CH25- P1	-Z P01
	84	62	17.77	5240	3.2	11	2KJ3103- CH25- N1	-Z P01
	Z.39-LE80MH4P							
	29	181	49.75	4840	1.1	17	2KJ3103- DC23- X1	-Z -
	33	159	43.68	5140	1.3	17	2KJ3103- DC23- W1	-Z -
	36	145	39.71	5200	1.4	17	2KJ3103- DC23- V1	-Z -
	42	124	33.97	5280	1.6	17	2KJ3103- DC23- U1	-Z -
	47	113	30.88	5300	1.8	17	2KJ3103- DC23- T1	-Z -
	53	100	27.30	5290	2	17	2KJ3103- DC23- S1	-Z -
	58	90	24.82	5300	2.2	17	2KJ3103- DC23- R1	-Z -
	66	79	21.74	5250	2.5	17	2KJ3103- DC23- Q1	-Z -
	72	73	20.07	5180	2.7	17	2KJ3103- DC23- P1	-Z -
	81	65	17.77	5000	3.1	17	2KJ3103- DC23- N1	-Z -
	D.29-FZ71MCA6TV							
	31	169	48.37	2650	0.83	10	2KJ3202- CH25- B1	-Z P01
	D.29-LE80MH4P							
	34	154	42.17	3340	0.91	16	2KJ3202- DC23- A1	-Z -
	Z.29-FZ71MCA6TV							
	36	144	41.40	3240	0.97	10	2KJ3102- CH25- A2	-Z P01
	41	128	36.72	3620	1.1	10	2KJ3102- CH25- X1	-Z P01
	47	111	31.86	3660	1.3	10	2KJ3102- CH25- W1	-Z P01
	52	101	28.96	3660	1.4	10	2KJ3102- CH25- V1	-Z P01
	60	86	24.84	3660	1.6	10	2KJ3102- CH25- U1	-Z P01
	66	79	22.58	3660	1.8	10	2KJ3102- CH25- T1	-Z P01
	76	69	19.80	3570	2.0	10	2KJ3102- CH25- S1	-Z P01
	85	61	17.67	3470	2.3	10	2KJ3102- CH25- R1	-Z P01
	95	55	15.75	3360	2.5	10	2KJ3102- CH25- Q1	-Z P01
	103	50	14.54	3290	2.4	10	2KJ3102- CH25- P1	-Z P01
	118	44	12.73	3170	3.1	10	2KJ3102- CH25- N1	-Z P01
	134	39	11.16	3050	3.6	10	2KJ3102- CH25- M1	-Z P01
	148	35	10.12	2960	4.0	10	2KJ3102- CH25- L1	-Z P01
	217	24	6.92	2620	3.1	10	2KJ3102- CH25- G1	-Z P01
	248	21	6.06	2520	4.7	10	2KJ3102- CH25- F1	-Z P01
	282	18	5.31	2420	4.9	10	2KJ3102- CH25- E1	-Z P01
	311	16	4.82	2360	5.1	10	2KJ3102- CH25- D1	-Z P01
	Z.29-LE80MH4P							
	39	134	36.72	3860	1	16	2KJ3102- DC23- X1	-Z -
	45	116	31.86	3900	1.2	16	2KJ3102- DC23- W1	-Z -
	50	106	28.96	3810	1.3	16	2KJ3102- DC23- V1	-Z -
	58	91	24.84	3670	1.5	16	2KJ3102- DC23- U1	-Z -
	64	82	22.58	3590	1.7	16	2KJ3102- DC23- T1	-Z -
	73	72	19.80	3480	1.9	16	2KJ3102- DC23- S1	-Z -
	81	64	17.67	3380	2.2	16	2KJ3102- DC23- R1	-Z -
	91	57	15.75	3280	2.4	16	2KJ3102- DC23- Q1	-Z -
	99	53	14.54	3200	2.3	16	2KJ3102- DC23- P1	-Z -
	113	46	12.73	3090	3	16	2KJ3102- DC23- N1	-Z -
	129	41	11.16	2980	3.4	16	2KJ3102- DC23- M1	-Z -
	142	37	10.12	2900	3.8	16	2KJ3102- DC23- L1	-Z -
	151	35	9.53	2850	4	16	2KJ3102- DC23- K1	-Z -
	208	25	6.92	2560	3	16	2KJ3102- DC23- G1	-Z -
	238	22	6.06	2460	4.5	16	2KJ3102- DC23- F1	-Z -

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.55	Z.29-LE80MH4P							
	271	19	5.31	2370	4.7	16	2KJ3102- ■ DC23- ■ ■ E1 -Z -	
	299	18	4.82	2300	4.9	16	2KJ3102- ■ DC23- ■ ■ D1 -Z -	
	317	17	4.54	2260	5.1	16	2KJ3102- ■ DC23- ■ ■ C1 -Z -	
	360	15	4.00	2170	5.2	16	2KJ3102- ■ DC23- ■ ■ B1 -Z -	
	415	13	3.47	2080	5.5	16	2KJ3102- ■ DC23- ■ ■ A1 -Z -	
	Z.19-FZ71MCA6TV							
	43	122	34.97	956	0.82	9	2KJ3101- ■ CH25- ■ ■ W1 -Z P01	
	48	108	30.97	1180	0.92	9	2KJ3101- ■ CH25- ■ ■ V1 -Z P01	
	56	94	26.91	1410	1.1	9	2KJ3101- ■ CH25- ■ ■ U1 -Z P01	
	61	85	24.46	1560	1.2	9	2KJ3101- ■ CH25- ■ ■ T1 -Z P01	
	72	72	20.82	1770	1.4	9	2KJ3101- ■ CH25- ■ ■ S1 -Z P01	
	79	66	18.92	1830	1.5	9	2KJ3101- ■ CH25- ■ ■ R1 -Z P01	
	91	57	16.50	1860	1.7	9	2KJ3101- ■ CH25- ■ ■ Q1 -Z P01	
	102	51	14.77	1890	1.8	9	2KJ3101- ■ CH25- ■ ■ P1 -Z P01	
	114	45	13.12	1910	2.0	9	2KJ3101- ■ CH25- ■ ■ N1 -Z P01	
	124	42	12.11	1870	2.1	9	2KJ3101- ■ CH25- ■ ■ M1 -Z P01	
	143	36	10.52	1810	2.3	9	2KJ3101- ■ CH25- ■ ■ L1 -Z P01	
	164	32	9.14	1750	2.4	9	2KJ3101- ■ CH25- ■ ■ K1 -Z P01	
	182	28	8.25	1710	2.6	9	2KJ3101- ■ CH25- ■ ■ J1 -Z P01	
	193	27	7.76	1670	2.7	9	2KJ3101- ■ CH25- ■ ■ H1 -Z P01	
	222	23	6.77	1620	2.9	9	2KJ3101- ■ CH25- ■ ■ G1 -Z P01	
	240	21	6.25	1520	2.6	9	2KJ3101- ■ CH25- ■ ■ F1 -Z P01	
	276	19	5.43	1460	2.8	9	2KJ3101- ■ CH25- ■ ■ E1 -Z P01	
	318	16	4.71	1410	3.0	9	2KJ3101- ■ CH25- ■ ■ D1 -Z P01	
	352	14	4.26	1380	3.2	9	2KJ3101- ■ CH25- ■ ■ C1 -Z P01	
	374	14	4.01	1350	3.3	9	2KJ3101- ■ CH25- ■ ■ B1 -Z P01	
	Z.19-LE80MH4P							
	46	113	30.97	1390	0.89	14	2KJ3101- ■ DC23- ■ ■ V1 -Z -	
	54	98	26.91	1690	1	14	2KJ3101- ■ DC23- ■ ■ U1 -Z -	
	59	89	24.46	1880	1.1	14	2KJ3101- ■ DC23- ■ ■ T1 -Z -	
	69	76	20.82	2140	1.3	14	2KJ3101- ■ DC23- ■ ■ S1 -Z -	
	76	69	18.92	2110	1.4	14	2KJ3101- ■ DC23- ■ ■ R1 -Z -	
	87	60	16.50	2050	1.6	14	2KJ3101- ■ DC23- ■ ■ Q1 -Z -	
	97	54	14.77	2010	1.8	14	2KJ3101- ■ DC23- ■ ■ P1 -Z -	
	110	48	13.12	1950	1.9	14	2KJ3101- ■ DC23- ■ ■ N1 -Z -	
	119	44	12.11	1920	2	14	2KJ3101- ■ DC23- ■ ■ M1 -Z -	
	137	38	10.52	1860	2.2	14	2KJ3101- ■ DC23- ■ ■ L1 -Z -	
	158	33	9.14	1800	2.3	14	2KJ3101- ■ DC23- ■ ■ K1 -Z -	
	175	30	8.25	1750	2.5	14	2KJ3101- ■ DC23- ■ ■ J1 -Z -	
	186	28	7.76	1730	2.6	14	2KJ3101- ■ DC23- ■ ■ H1 -Z -	
	213	25	6.77	1660	2.8	14	2KJ3101- ■ DC23- ■ ■ G1 -Z -	
	230	23	6.25	1540	2.5	14	2KJ3101- ■ DC23- ■ ■ F1 -Z -	
	265	20	5.43	1490	2.7	14	2KJ3101- ■ DC23- ■ ■ E1 -Z -	
	306	17	4.71	1450	2.9	14	2KJ3101- ■ DC23- ■ ■ D1 -Z -	
338	16	4.26	1400	3	14	2KJ3101- ■ DC23- ■ ■ C1 -Z -		
359	15	4.01	1380	3.1	14	2KJ3101- ■ DC23- ■ ■ B1 -Z -		
413	13	3.49	1330	3.4	14	2KJ3101- ■ DC23- ■ ■ A1 -Z -		
Z.19-LE71ZMM2P								
168	31	16.50	1770	3.2	10	2KJ3101- ■ CD23- ■ ■ Q1 -Z P00		
188	28	14.77	1720	3.4	10	2KJ3101- ■ CD23- ■ ■ P1 -Z P00		
212	25	13.12	1660	3.7	10	2KJ3101- ■ CD23- ■ ■ N1 -Z P00		
230	23	12.11	1630	3.8	10	2KJ3101- ■ CD23- ■ ■ M1 -Z P00		
264	20	10.52	1570	4.2	10	2KJ3101- ■ CD23- ■ ■ L1 -Z P00		
304	17	9.14	1510	4.5	10	2KJ3101- ■ CD23- ■ ■ K1 -Z P00		
337	16	8.25	1460	4.7	10	2KJ3101- ■ CD23- ■ ■ J1 -Z P00		
358	15	7.76	1440	5	10	2KJ3101- ■ CD23- ■ ■ H1 -Z P00		
411	13	6.77	1380	5.3	10	2KJ3101- ■ CD23- ■ ■ G1 -Z P00		
445	12	6.25	1310	4.7	10	2KJ3101- ■ CD23- ■ ■ F1 -Z P00		
512	10	5.43	1260	5.2	10	2KJ3101- ■ CD23- ■ ■ E1 -Z P00		
590	8.9	4.71	1210	5.5	10	2KJ3101- ■ CD23- ■ ■ D1 -Z P00		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.55	Z.19-LE71ZMM2P							
	653	8	4.26	1180	5.8	10	2KJ3101- ■ CD23- ■ ■ C1 -Z P00	
	693	7.6	4.01	1160	6.1	10	2KJ3101- ■ CD23- ■ ■ B1 -Z P00	
	E.69-FZ71MCA6TV							
	161	32	9.30	6100	3.7	23	2KJ3003- ■ CH25- ■ ■ S1 -Z P01	
	178	29	8.45	6100	3.5	23	2KJ3003- ■ CH25- ■ ■ R1 -Z P01	
	E.69-LE80MH4P							
	155	34	9.30	6100	3.5	31	2KJ3003- ■ DC23- ■ ■ S1 -Z -	
	170	31	8.45	6100	3.4	31	2KJ3003- ■ DC23- ■ ■ R1 -Z -	
	E.49-FZ71MCA6TV							
	155	33	9.70	3680	2.5	16	2KJ3002- ■ CH25- ■ ■ S1 -Z P01	
	170	30	8.82	3680	3.5	16	2KJ3002- ■ CH25- ■ ■ R1 -Z P01	
	200	26	7.50	3680	4.1	16	2KJ3002- ■ CH25- ■ ■ Q1 -Z P01	
	220	23	6.82	3680	4.4	16	2KJ3002- ■ CH25- ■ ■ P1 -Z P01	
	E.49-LE80MH4P							
	148	35	9.70	4000	2.4	24	2KJ3002- ■ DC23- ■ ■ S1 -Z -	
	163	32	8.82	4000	3.4	24	2KJ3002- ■ DC23- ■ ■ R1 -Z -	
	192	27	7.50	4000	3.9	24	2KJ3002- ■ DC23- ■ ■ Q1 -Z -	
	211	25	6.82	4000	4.2	24	2KJ3002- ■ DC23- ■ ■ P1 -Z -	
	E.39-FZ71MCA6TV							
	163	32	9.22	2460	0.93	12	2KJ3001- ■ CH25- ■ ■ S1 -Z P01	
	183	28	8.20	2460	1.2	12	2KJ3001- ■ CH25- ■ ■ R1 -Z P01	
	208	25	7.20	2460	1.6	12	2KJ3001- ■ CH25- ■ ■ Q1 -Z P01	
	229	22	6.55	2460	1.7	12	2KJ3001- ■ CH25- ■ ■ P1 -Z P01	
268	19	5.60	2460	2.0	12	2KJ3001- ■ CH25- ■ ■ N1 -Z P01		
295	17	5.09	2460	2.2	12	2KJ3001- ■ CH25- ■ ■ M1 -Z P01		
333	15	4.50	2460	3.0	12	2KJ3001- ■ CH25- ■ ■ L1 -Z P01		
367	14	4.09	2460	3.4	12	2KJ3001- ■ CH25- ■ ■ K1 -Z P01		
419	12	3.58	2460	4.6	12	2KJ3001- ■ CH25- ■ ■ J1 -Z P01		
453	11	3.31	2460	5.0	12	2KJ3001- ■ CH25- ■ ■ H1 -Z P01		
E.39-LE80MH4P								
176	30	8.20	3000	1.1	18	2KJ3001- ■ DC23- ■ ■ R1 -Z -		
200	26	7.20	3000	1.5	18	2KJ3001- ■ DC23- ■ ■ Q1 -Z -		
220	24	6.55	3000	1.7	18	2KJ3001- ■ DC23- ■ ■ P1 -Z -		
257	20	5.60	3000	2	18	2KJ3001- ■ DC23- ■ ■ N1 -Z -		
283	19	5.09	3000	2.2	18	2KJ3001- ■ DC23- ■ ■ M1 -Z -		
320	16	4.50	3000	2.9	18	2KJ3001- ■ DC23- ■ ■ L1 -Z -		
352	15	4.09	3000	3.2	18	2KJ3001- ■ DC23- ■ ■ K1 -Z -		
402	13	3.58	3000	4.4	18	2KJ3001- ■ DC23- ■ ■ J1 -Z -		
435	12	3.31	3000	4.8	18	2KJ3001- ■ DC23- ■ ■ H1 -Z -		
0.75	D.129-LE90SQ6P							
	2.5	2820	373.00	28300	1.8	174	2KJ3211- ■ EC23- ■ ■ S1 -Z P01	
	2.7	2600	344.17	28400	1.9	174	2KJ3211- ■ EC23- ■ ■ R1 -Z P01	
	D.109-LE90SQ6P							
	2.7	2640	348.88	20200	1.2	111	2KJ3210- ■ EC23- ■ ■ T1 -Z P01	
	3	2380	314.98	20200	1.3	111	2KJ3210- ■ EC23- ■ ■ S1 -Z P01	
	3.3	2160	285.72	20200	1.4	111	2KJ3210- ■ EC23- ■ ■ R1 -Z P01	
	3.6	1990	263.74	20200	1.6	111	2KJ3210- ■ EC23- ■ ■ Q1 -Z P01	
	3.9	1810	239.75	20200	1.7	111	2KJ3210- ■ EC23- ■ ■ P1 -Z P01	
	D.89-LE90SQ6P							
	3.7	1920	254.09	18500	0.87	69	2KJ3208- ■ EC23- ■ ■ Q1 -Z P01	
	4.1	1730	228.45	18500	0.97	69	2KJ3208- ■ EC23- ■ ■ P1 -Z P01	
	D.89-LE80ZMQ4P							
	4.7	1530	311.60	18500	1.1	67	2KJ3208- ■ DF23- ■ ■ S1 -Z -	
	5.1	1390	283.28	18500	1.2	67	2KJ3208- ■ DF23- ■ ■ R1 -Z -	
	5.7	1250	254.09	18500	1.3	67	2KJ3208- ■ DF23- ■ ■ Q1 -Z -	
	6.3	1120	228.45	18500	1.5	67	2KJ3208- ■ DF23- ■ ■ P1 -Z -	
	7	1020	206.62	18500	1.6	67	2KJ3208- ■ DF23- ■ ■ N1 -Z -	
	7.6	940	190.73	18500	1.8	67	2KJ3208- ■ DF23- ■ ■ M1 -Z -	
	8.3	860	174.71	18500	1.9	67	2KJ3208- ■ DF23- ■ ■ L1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.75	D.79-FZ71ZMD6TV							
	7.2	985	207.10	13600	0.85	37	2KJ3207- CJ25- N1 -Z	P01
	8.1	885	185.70	14700	0.95	37	2KJ3207- CJ25- M1 -Z	P01
	9.0	795	167.39	14700	1.1	37	2KJ3207- CJ25- L1 -Z	P01
	9.7	735	154.51	14700	1.1	37	2KJ3207- CJ25- K1 -Z	P01
	10.6	670	141.04	14700	1.2	37	2KJ3207- CJ25- J1 -Z	P01
	12.8	555	117.03	14700	1.5	37	2KJ3207- CJ25- H1 -Z	P01
	13.6	525	110.14	14700	1.6	37	2KJ3207- CJ25- G1 -Z	P01
	14.4	495	104.03	14700	1.7	37	2KJ3207- CJ25- F1 -Z	P01
	16.9	420	88.52	14700	2.0	37	2KJ3207- CJ25- E1 -Z	P01
	D.79-LE80ZMQ4P							
	7	1020	207.10	11200	0.82	44	2KJ3207- DF23- N1 -Z	-
	7.8	915	185.70	12800	0.92	44	2KJ3207- DF23- M1 -Z	-
	8.7	825	167.39	13400	1	44	2KJ3207- DF23- L1 -Z	-
	9.4	760	154.51	13500	1.1	44	2KJ3207- DF23- K1 -Z	-
	10	695	141.04	13600	1.2	44	2KJ3207- DF23- J1 -Z	-
	12	575	117.03	13700	1.5	44	2KJ3207- DF23- H1 -Z	-
	13	540	110.14	13800	1.5	44	2KJ3207- DF23- G1 -Z	-
	14	510	104.03	13800	1.6	44	2KJ3207- DF23- F1 -Z	-
16	435	88.52	13900	1.9	44	2KJ3207- DF23- E1 -Z	-	
19	375	75.83	14000	2.2	44	2KJ3207- DF23- D1 -Z	-	
D.69-FZ71ZMD6TV								
10.3	695	145.71	12000	0.86	28	2KJ3206- CJ25- K1 -Z	P01	
11.8	605	127.63	12100	0.98	28	2KJ3206- CJ25- J1 -Z	P01	
12.7	560	117.82	12200	1.1	28	2KJ3206- CJ25- H1 -Z	P01	
14.4	495	104.31	12300	1.2	28	2KJ3206- CJ25- G1 -Z	P01	
17.3	410	86.82	12500	1.4	28	2KJ3206- CJ25- F1 -Z	P01	
18.4	390	81.71	12500	1.5	28	2KJ3206- CJ25- E1 -Z	P01	
20	345	73.22	12600	1.7	28	2KJ3206- CJ25- D1 -Z	P01	
D.69-LE80ZMQ4P								
10	720	145.71	10700	0.83	34	2KJ3206- DF23- K1 -Z	-	
11	630	127.63	10900	0.95	34	2KJ3206- DF23- J1 -Z	-	
12	580	117.82	11000	1	34	2KJ3206- DF23- H1 -Z	-	
14	515	104.31	11100	1.2	34	2KJ3206- DF23- G1 -Z	-	
17	425	86.82	11200	1.4	34	2KJ3206- DF23- F1 -Z	-	
18	400	81.71	11300	1.5	34	2KJ3206- DF23- E1 -Z	-	
20	360	73.22	11300	1.7	34	2KJ3206- DF23- D1 -Z	-	
Z.69-FZ71ZMD6TV								
25	290	60.97	12700	2.1	28	2KJ3106- CJ25- A2 -Z	P01	
27	260	55.43	12700	2.3	28	2KJ3106- CJ25- X1 -Z	P01	
Z.69-LE80ZMQ4P								
24	300	60.97	11400	2	33	2KJ3106- DF23- A2 -Z	-	
26	270	55.43	11500	2.2	33	2KJ3106- DF23- X1 -Z	-	
D.59-FZ71ZMD6TV								
13.6	525	110.12	7350	0.86	23	2KJ3205- CJ25- H1 -Z	P01	
15.4	465	97.50	8040	0.97	23	2KJ3205- CJ25- G1 -Z	P01	
18.5	385	81.15	8360	1.2	23	2KJ3205- CJ25- F1 -Z	P01	
19.6	360	76.38	8470	1.2	23	2KJ3205- CJ25- E1 -Z	P01	
22	325	68.43	8610	1.4	23	2KJ3205- CJ25- D1 -Z	P01	
D.59-LE80ZMQ4P								
13	540	110.12	6490	0.83	29	2KJ3205- DF23- H1 -Z	-	
15	480	97.50	7560	0.93	29	2KJ3205- DF23- G1 -Z	-	
18	400	81.15	7740	1.1	29	2KJ3205- DF23- F1 -Z	-	
19	375	76.38	7780	1.2	29	2KJ3205- DF23- E1 -Z	-	
21	335	68.43	7850	1.3	29	2KJ3205- DF23- D1 -Z	-	
Z.59-FZ71ZMD6TV								
26	270	56.99	8770	1.7	23	2KJ3105- CJ25- A2 -Z	P01	
29	245	51.81	8820	1.8	23	2KJ3105- CJ25- X1 -Z	P01	
34	210	44.06	8470	2.1	23	2KJ3105- CJ25- W1 -Z	P01	
37	191	40.06	8260	2.4	23	2KJ3105- CJ25- V1 -Z	P01	
42	170	35.74	8010	2.6	23	2KJ3105- CJ25- U1 -Z	P01	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.75	Z.59-LE80ZMQ4P							
	25	280	56.99	7940	1.6	29	2KJ3105- DF23- A2 -Z -	
	28	255	51.81	7980	1.8	29	2KJ3105- DF23- X1 -Z -	
	33	215	44.06	8040	2.1	29	2KJ3105- DF23- W1 -Z -	
	36	198	40.06	8040	2.3	29	2KJ3105- DF23- V1 -Z -	
	41	177	35.74	7790	2.5	29	2KJ3105- DF23- U1 -Z -	
	45	158	32.05	7560	2.8	29	2KJ3105- DF23- T1 -Z -	
	D.49-FZ71ZMD6TV							
	20	350	74.24	5020	0.90	21	2KJ3204- CJ25- F1 -Z P01	
	21	330	69.88	5530	0.96	21	2KJ3204- CJ25- E1 -Z P01	
	24	295	62.61	5960	1.1	21	2KJ3204- CJ25- D1 -Z P01	
	D.49-LE80ZMQ4P							
	20	365	74.24	4640	0.87	27	2KJ3204- DF23- F1 -Z -	
	21	345	69.88	5150	0.93	27	2KJ3204- DF23- E1 -Z -	
	23	305	62.61	5930	1	27	2KJ3204- DF23- D1 -Z -	
	Z.49-FZ71ZMD6TV							
	29	245	52.14	6060	1.3	21	2KJ3104- CJ25- B2 -Z P01	
	32	225	47.40	6100	1.4	21	2KJ3104- CJ25- A2 -Z P01	
	37	192	40.31	6170	1.7	21	2KJ3104- CJ25- X1 -Z P01	
	41	175	36.65	6200	1.8	21	2KJ3104- CJ25- W1 -Z P01	
46	156	32.70	6120	2.0	21	2KJ3104- CJ25- V1 -Z P01		
51	140	29.32	5940	2.3	21	2KJ3104- CJ25- U1 -Z P01		
57	126	26.43	5770	2.5	21	2KJ3104- CJ25- T1 -Z P01		
62	116	24.39	5650	2.7	21	2KJ3104- CJ25- S1 -Z P01		
67	106	22.27	5500	3.0	21	2KJ3104- CJ25- R1 -Z P01		
Z.49-LE80ZMQ4P								
28	255	52.14	6030	1.2	27	2KJ3104- DF23- B2 -Z -		
31	230	47.40	6080	1.4	27	2KJ3104- DF23- A2 -Z -		
36	199	40.31	6150	1.6	27	2KJ3104- DF23- X1 -Z -		
40	181	36.65	6180	1.8	27	2KJ3104- DF23- W1 -Z -		
44	162	32.70	6160	2	27	2KJ3104- DF23- V1 -Z -		
49	145	29.32	5990	2.2	27	2KJ3104- DF23- U1 -Z -		
55	131	26.43	5820	2.5	27	2KJ3104- DF23- T1 -Z -		
59	120	24.39	5700	2.7	27	2KJ3104- DF23- S1 -Z -		
65	110	22.27	5550	2.9	27	2KJ3104- DF23- R1 -Z -		
Z.39-FZ71ZMD6TV								
34	205	43.68	3840	0.96	12	2KJ3103- CJ25- W1 -Z P01		
38	189	39.71	4200	1.1	12	2KJ3103- CJ25- V1 -Z P01		
44	162	33.97	4580	1.2	12	2KJ3103- CJ25- U1 -Z P01		
49	147	30.88	4660	1.4	12	2KJ3103- CJ25- T1 -Z P01		
55	130	27.30	4720	1.5	12	2KJ3103- CJ25- S1 -Z P01		
60	118	24.82	4750	1.7	12	2KJ3103- CJ25- R1 -Z P01		
69	103	21.74	4770	1.9	12	2KJ3103- CJ25- Q1 -Z P01		
75	95	20.07	4760	2.1	12	2KJ3103- CJ25- P1 -Z P01		
84	84	17.77	4740	2.4	12	2KJ3103- CJ25- N1 -Z P01		
101	70	14.79	4660	2.7	12	2KJ3103- CJ25- M1 -Z P01		
108	66	13.92	4630	2.8	12	2KJ3103- CJ25- L1 -Z P01		
120	59	12.47	4560	3.0	12	2KJ3103- CJ25- K1 -Z P01		
141	50	10.62	4430	3.3	12	2KJ3103- CJ25- J1 -Z P01		
Z.39-LE80ZMQ4P								
29	245	49.75	3240	0.81	16	2KJ3103- DF23- X1 -Z -		
33	215	43.68	3720	0.93	16	2KJ3103- DF23- W1 -Z -		
37	196	39.71	3910	1	16	2KJ3103- DF23- V1 -Z -		
43	168	33.97	4160	1.2	16	2KJ3103- DF23- U1 -Z -		
47	153	30.88	4280	1.3	16	2KJ3103- DF23- T1 -Z -		
53	135	27.30	4400	1.5	16	2KJ3103- DF23- S1 -Z -		
58	123	24.82	4460	1.6	16	2KJ3103- DF23- R1 -Z -		
67	107	21.74	4530	1.9	16	2KJ3103- DF23- Q1 -Z -		
72	99	20.07	4540	2	16	2KJ3103- DF23- P1 -Z -		
82	88	17.77	4540	2.3	16	2KJ3103- DF23- N1 -Z -		
98	73	14.79	4510	2.6	16	2KJ3103- DF23- M1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)		
0.75	Z.39-LE80ZMQ4P								
	104	69	13.92	4480	2.7	16	2KJ3103- DF23- L1	-Z -	
	116	62	12.47	4410	2.9	16	2KJ3103- DF23- K1	-Z -	
	137	52	10.62	4210	3.2	16	2KJ3103- DF23- J1	-Z -	
	159	45	9.10	4020	3.5	16	2KJ3103- DF23- H1	-Z -	
	185	39	7.84	3850	3.8	16	2KJ3103- DF23- G1	-Z -	
	224	32	6.46	3630	4.6	16	2KJ3103- DF23- F1	-Z -	
	Z.29-FZ71ZMD6TV								
	47	152	31.86	3050	0.92	11	2KJ3102- CJ25- W1	-Z P01	
	52	138	28.96	3260	1.0	11	2KJ3102- CJ25- V1	-Z P01	
	60	118	24.84	3410	1.2	11	2KJ3102- CJ25- U1	-Z P01	
	66	107	22.58	3480	1.3	11	2KJ3102- CJ25- T1	-Z P01	
	76	94	19.80	3440	1.5	11	2KJ3102- CJ25- S1	-Z P01	
	85	84	17.67	3340	1.7	11	2KJ3102- CJ25- R1	-Z P01	
	95	75	15.75	3250	1.9	11	2KJ3102- CJ25- Q1	-Z P01	
	103	69	14.54	3190	1.7	11	2KJ3102- CJ25- P1	-Z P01	
	118	60	12.73	3080	2.3	11	2KJ3102- CJ25- N1	-Z P01	
	134	53	11.16	2970	2.6	11	2KJ3102- CJ25- M1	-Z P01	
	148	48	10.12	2890	2.9	11	2KJ3102- CJ25- L1	-Z P01	
	157	45	9.53	2850	3.1	11	2KJ3102- CJ25- K1	-Z P01	
	179	40	8.40	2750	3.4	11	2KJ3102- CJ25- J1	-Z P01	
	206	34	7.29	2640	3.7	11	2KJ3102- CJ25- H1	-Z P01	
	217	33	6.92	2560	2.3	11	2KJ3102- CJ25- G1	-Z P01	
	248	28	6.06	2470	3.5	11	2KJ3102- CJ25- F1	-Z P01	
282	25	5.31	2380	3.6	11	2KJ3102- CJ25- E1	-Z P01		
311	23	4.82	2310	3.7	11	2KJ3102- CJ25- D1	-Z P01		
330	21	4.54	2270	3.9	11	2KJ3102- CJ25- C1	-Z P01		
375	19	4.00	2190	4.0	11	2KJ3102- CJ25- B1	-Z P01		
432	16	3.47	2100	4.2	11	2KJ3102- CJ25- A1	-Z P01		
Z.29-LE80ZMQ4P									
46	157	31.86	2890	0.89	15	2KJ3102- DF23- W1	-Z -		
50	143	28.96	3050	0.98	15	2KJ3102- DF23- V1	-Z -		
58	123	24.84	3230	1.1	15	2KJ3102- DF23- U1	-Z -		
64	112	22.58	3320	1.3	15	2KJ3102- DF23- T1	-Z -		
73	98	19.80	3320	1.4	15	2KJ3102- DF23- S1	-Z -		
82	87	17.67	3240	1.6	15	2KJ3102- DF23- R1	-Z -		
92	78	15.75	3150	1.8	15	2KJ3102- DF23- Q1	-Z -		
100	72	14.54	3090	1.7	15	2KJ3102- DF23- P1	-Z -		
114	63	12.73	2990	2.2	15	2KJ3102- DF23- N1	-Z -		
130	55	11.16	2890	2.5	15	2KJ3102- DF23- M1	-Z -		
143	50	10.12	2810	2.8	15	2KJ3102- DF23- L1	-Z -		
152	47	9.53	2770	3	15	2KJ3102- DF23- K1	-Z -		
173	42	8.40	2670	3.3	15	2KJ3102- DF23- J1	-Z -		
199	36	7.29	2570	3.6	15	2KJ3102- DF23- H1	-Z -		
210	34	6.92	2490	2.2	15	2KJ3102- DF23- G1	-Z -		
239	30	6.06	2400	3.3	15	2KJ3102- DF23- F1	-Z -		
273	26	5.31	2320	3.5	15	2KJ3102- DF23- E1	-Z -		
301	24	4.82	2250	3.6	15	2KJ3102- DF23- D1	-Z -		
319	22	4.54	2220	3.7	15	2KJ3102- DF23- C1	-Z -		
362	20	4.00	2130	3.8	15	2KJ3102- DF23- B1	-Z -		
418	17	3.47	2050	4.1	15	2KJ3102- DF23- A1	-Z -		
Z.29-LE80ME2P									
161	44	17.67	2730	3.2	14	2KJ3102- DB23- R1	-Z P00		
181	40	15.75	2640	3.5	14	2KJ3102- DB23- Q1	-Z P00		
196	36	14.54	2590	3.3	14	2KJ3102- DB23- P1	-Z P00		
224	32	12.73	2490	4.4	14	2KJ3102- DB23- N1	-Z P00		
412	17	6.92	2060	4.3	14	2KJ3102- DB23- G1	-Z P00		
Z.19-FZ71ZMD6TV									
61	116	24.46	1050	0.86	10	2KJ3101- CJ25- T1	-Z P01		
72	99	20.82	1330	1.0	10	2KJ3101- CJ25- S1	-Z P01		
79	90	18.92	1470	1.1	10	2KJ3101- CJ25- R1	-Z P01		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.75	Z.19-FZ71ZMD6TV							
	91	78	16.50	1670	1.3	10	2KJ3101- CJ25- Q1	-Z P01
	102	70	14.77	1800	1.3	10	2KJ3101- CJ25- P1	-Z P01
	114	62	13.12	1810	1.5	10	2KJ3101- CJ25- N1	-Z P01
	124	57	12.11	1780	1.5	10	2KJ3101- CJ25- M1	-Z P01
	143	50	10.52	1730	1.7	10	2KJ3101- CJ25- L1	-Z P01
	164	43	9.14	1680	1.8	10	2KJ3101- CJ25- K1	-Z P01
	182	39	8.25	1640	1.9	10	2KJ3101- CJ25- J1	-Z P01
	193	37	7.76	1610	2.0	10	2KJ3101- CJ25- H1	-Z P01
	222	32	6.77	1560	2.1	10	2KJ3101- CJ25- G1	-Z P01
	240	29	6.25	1440	1.9	10	2KJ3101- CJ25- F1	-Z P01
	276	25	5.43	1400	2.0	10	2KJ3101- CJ25- E1	-Z P01
	318	22	4.71	1350	2.2	10	2KJ3101- CJ25- D1	-Z P01
	352	20	4.26	1320	2.3	10	2KJ3101- CJ25- C1	-Z P01
	374	19	4.01	1300	2.4	10	2KJ3101- CJ25- B1	-Z P01
	Z.19-LE80ZMQ4P							
	59	121	24.46	1220	0.83	13	2KJ3101- DF23- T1	-Z -
	70	103	20.82	1590	0.97	13	2KJ3101- DF23- S1	-Z -
	77	94	18.92	1770	1.1	13	2KJ3101- DF23- R1	-Z -
	88	82	16.50	1900	1.2	13	2KJ3101- DF23- Q1	-Z -
	98	73	14.77	1870	1.3	13	2KJ3101- DF23- P1	-Z -
	111	65	13.12	1830	1.4	13	2KJ3101- DF23- N1	-Z -
	120	60	12.11	1810	1.5	13	2KJ3101- DF23- M1	-Z -
	138	52	10.52	1760	1.6	13	2KJ3101- DF23- L1	-Z -
	159	45	9.14	1710	1.7	13	2KJ3101- DF23- K1	-Z -
	176	41	8.25	1670	1.8	13	2KJ3101- DF23- J1	-Z -
	187	38	7.76	1650	1.9	13	2KJ3101- DF23- H1	-Z -
	214	33	6.77	1600	2	13	2KJ3101- DF23- G1	-Z -
	232	31	6.25	1460	1.8	13	2KJ3101- DF23- F1	-Z -
	267	27	5.43	1420	2	13	2KJ3101- DF23- E1	-Z -
	308	23	4.71	1380	2.1	13	2KJ3101- DF23- D1	-Z -
	340	21	4.26	1350	2.2	13	2KJ3101- DF23- C1	-Z -
	362	20	4.01	1330	2.3	13	2KJ3101- DF23- B1	-Z -
	415	17	3.49	1290	2.5	13	2KJ3101- DF23- A1	-Z -
	Z.19-LE80ME2P							
	151	48	18.92	1730	2.1	13	2KJ3101- DB23- R1	-Z P00
	173	42	16.50	1680	2.4	13	2KJ3101- DB23- Q1	-Z P00
	193	37	14.77	1640	2.6	13	2KJ3101- DB23- P1	-Z P00
	217	33	13.12	1590	2.8	13	2KJ3101- DB23- N1	-Z P00
	235	30	12.11	1560	2.9	13	2KJ3101- DB23- M1	-Z P00
	271	26	10.52	1510	3.1	13	2KJ3101- DB23- L1	-Z P00
	312	23	9.14	1450	3.4	13	2KJ3101- DB23- K1	-Z P00
	345	21	8.25	1410	3.6	13	2KJ3101- DB23- J1	-Z P00
	367	20	7.76	1390	3.7	13	2KJ3101- DB23- H1	-Z P00
	421	17	6.77	1340	4	13	2KJ3101- DB23- G1	-Z P00
	456	16	6.25	1250	3.6	13	2KJ3101- DB23- F1	-Z P00
	525	14	5.43	1210	3.9	13	2KJ3101- DB23- E1	-Z P00
	605	12	4.71	1170	4.1	13	2KJ3101- DB23- D1	-Z P00
	669	11	4.26	1130	4.4	13	2KJ3101- DB23- C1	-Z P00
	711	10	4.01	1120	4.6	13	2KJ3101- DB23- B1	-Z P00
	817	8.8	3.49	1080	4.9	13	2KJ3101- DB23- A1	-Z P00
	E.69-FZ71ZMD6TV							
	161	44	9.30	6100	2.7	24	2KJ3003- CJ25- S1	-Z P01
	178	40	8.45	6100	2.6	24	2KJ3003- CJ25- R1	-Z P01
	E.69-LE80ZMQ4P							
	156	46	9.30	6100	2.6	30	2KJ3003- DF23- S1	-Z -
	172	42	8.45	6100	2.5	30	2KJ3003- DF23- R1	-Z -
	E.49-FZ71ZMD6TV							
	155	46	9.70	3680	1.9	17	2KJ3002- CJ25- S1	-Z P01
	170	42	8.82	3680	2.6	17	2KJ3002- CJ25- R1	-Z P01
	200	35	7.50	3680	3.0	17	2KJ3002- CJ25- Q1	-Z P01

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
0.75	E.49-FZ71ZMD6TV							
	220	32	6.82	3680	3.2	17	2KJ3002- CJ25- P1 -Z	P01
	247	29	6.08	3680	3.6	17	2KJ3002- CJ25- N1 -Z	P01
	275	26	5.45	3680	4.0	17	2KJ3002- CJ25- M1 -Z	P01
	305	23	4.92	3680	4.3	17	2KJ3002- CJ25- L1 -Z	P01
	330	21	4.54	3680	4.7	17	2KJ3002- CJ25- K1 -Z	P01
	362	19	4.14	3680	5.2	17	2KJ3002- CJ25- J1 -Z	P01
	E.49-LE80ZMQ4P							
	149	48	9.70	4000	1.8	23	2KJ3002- DF23- S1 -Z	-
	164	44	8.82	4000	2.5	23	2KJ3002- DF23- R1 -Z	-
	193	37	7.50	4000	2.9	23	2KJ3002- DF23- Q1 -Z	-
	213	34	6.82	4000	3.1	23	2KJ3002- DF23- P1 -Z	-
	238	30	6.08	4000	3.5	23	2KJ3002- DF23- N1 -Z	-
	266	27	5.45	4000	3.8	23	2KJ3002- DF23- M1 -Z	-
	295	24	4.92	4000	4.2	23	2KJ3002- DF23- L1 -Z	-
	319	22	4.54	4000	4.5	23	2KJ3002- DF23- K1 -Z	-
	350	20	4.14	4000	5	23	2KJ3002- DF23- J1 -Z	-
	E.39-FZ71ZMD6TV							
	208	34	7.20	2460	1.2	13	2KJ3001- CJ25- Q1 -Z	P01
	229	31	6.55	2460	1.3	13	2KJ3001- CJ25- P1 -Z	P01
	268	26	5.60	2460	1.5	13	2KJ3001- CJ25- N1 -Z	P01
	295	24	5.09	2460	1.6	13	2KJ3001- CJ25- M1 -Z	P01
	333	21	4.50	2460	2.2	13	2KJ3001- CJ25- L1 -Z	P01
	367	19	4.09	2460	2.5	13	2KJ3001- CJ25- K1 -Z	P01
	419	17	3.58	2460	3.4	13	2KJ3001- CJ25- J1 -Z	P01
	453	15	3.31	2460	3.7	13	2KJ3001- CJ25- H1 -Z	P01
512	13	2.93	2460	4.6	13	2KJ3001- CJ25- G1 -Z	P01	
615	11	2.44	2460	5.6	13	2KJ3001- CJ25- F1 -Z	P01	
655	10	2.29	2460	6.0	13	2KJ3001- CJ25- E1 -Z	P01	
E.39-LE80ZMQ4P								
177	40	8.20	3000	0.84	17	2KJ3001- DF23- R1 -Z	-	
201	36	7.20	3000	1.1	17	2KJ3001- DF23- Q1 -Z	-	
221	32	6.55	3000	1.2	17	2KJ3001- DF23- P1 -Z	-	
259	28	5.60	3000	1.4	17	2KJ3001- DF23- N1 -Z	-	
285	25	5.09	3000	1.6	17	2KJ3001- DF23- M1 -Z	-	
322	22	4.50	3000	2.2	17	2KJ3001- DF23- L1 -Z	-	
355	20	4.09	3000	2.4	17	2KJ3001- DF23- K1 -Z	-	
405	18	3.58	3000	3.3	17	2KJ3001- DF23- J1 -Z	-	
438	16	3.31	3000	3.5	17	2KJ3001- DF23- H1 -Z	-	
495	14	2.93	3000	4.5	17	2KJ3001- DF23- G1 -Z	-	
594	12	2.44	2980	5.4	17	2KJ3001- DF23- F1 -Z	-	
633	11	2.29	2920	5.8	17	2KJ3001- DF23- E1 -Z	-	
1.1	D.129-LE100ZLSA6P							
	2.5	4120	373.00	27500	1.2	194	2KJ3211- FN23- S1 -Z	P01
	2.8	3800	344.17	27700	1.3	194	2KJ3211- FN23- R1 -Z	P01
	3	3500	316.90	27900	1.4	194	2KJ3211- FN23- Q1 -Z	P01
	3.5	2980	270.24	28200	1.7	194	2KJ3211- FN23- P1 -Z	P01
	3.7	2810	254.34	28300	1.8	194	2KJ3211- FN23- N1 -Z	P01
	D.129-LE90SM4P							
	3.9	2720	373.00	28400	1.8	174	2KJ3211- EK23- S1 -Z	-
	4.2	2510	344.17	28500	2	174	2KJ3211- EK23- R1 -Z	-
	D.109-LE100ZLSA6P							
	2.7	3850	348.88	20000	0.8	130	2KJ3210- FN23- T1 -Z	P01
	3	3480	314.98	20200	0.89	130	2KJ3210- FN23- S1 -Z	P01
	3.3	3150	285.72	20200	0.98	130	2KJ3210- FN23- R1 -Z	P01
	3.6	2910	263.74	20200	1.1	130	2KJ3210- FN23- Q1 -Z	P01
	D.109-LE90SM4P							
	4.1	2540	348.88	20200	1.2	111	2KJ3210- EK23- T1 -Z	-
	4.6	2290	314.98	20200	1.3	111	2KJ3210- EK23- S1 -Z	-
	5	2080	285.72	20200	1.5	111	2KJ3210- EK23- R1 -Z	-
	5.5	1920	263.74	20200	1.6	111	2KJ3210- EK23- Q1 -Z	-

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)		
1.1	D.109-LE90SM4P								
	6	1740	239.75	20200	1.8	111	2KJ3210- ■ EK23- ■ ■ P1	-Z -	
	7.1	1480	203.01	20200	2.1	111	2KJ3210- ■ EK23- ■ ■ N1	-Z -	
	D.89-LE90SM4P								
	5.1	2060	283.28	18100	0.81	69	2KJ3208- ■ EK23- ■ ■ R1	-Z -	
	5.7	1850	254.09	18500	0.91	69	2KJ3208- ■ EK23- ■ ■ Q1	-Z -	
	6.3	1660	228.45	18500	1	69	2KJ3208- ■ EK23- ■ ■ P1	-Z -	
	7	1500	206.62	18500	1.1	69	2KJ3208- ■ EK23- ■ ■ N1	-Z -	
	7.5	1390	190.73	18500	1.2	69	2KJ3208- ■ EK23- ■ ■ M1	-Z -	
	8.2	1270	174.71	18500	1.3	69	2KJ3208- ■ EK23- ■ ■ L1	-Z -	
	9.8	1060	146.59	18500	1.6	69	2KJ3208- ■ EK23- ■ ■ K1	-Z -	
	10	1000	137.97	18500	1.7	69	2KJ3208- ■ EK23- ■ ■ J1	-Z -	
	11	920	126.58	18500	1.8	69	2KJ3208- ■ EK23- ■ ■ H1	-Z -	
	13	805	110.57	18500	2.1	69	2KJ3208- ■ EK23- ■ ■ G1	-Z -	
	D.79-FZ71ZME6TV								
	10.6	985	141.04	13600	0.85	38	2KJ3207- ■ CV25- ■ ■ J1	-Z P01	
	12.8	815	117.03	14700	1.0	38	2KJ3207- ■ CV25- ■ ■ H1	-Z P01	
	13.6	770	110.14	14700	1.1	38	2KJ3207- ■ CV25- ■ ■ G1	-Z P01	
	14.4	725	104.03	14700	1.2	38	2KJ3207- ■ CV25- ■ ■ F1	-Z P01	
16.9	615	88.52	14700	1.4	38	2KJ3207- ■ CV25- ■ ■ E1	-Z P01		
D.79-LE90SM4P									
10	1020	141.04	11200	0.82	46	2KJ3207- ■ EK23- ■ ■ J1	-Z -		
12	850	117.03	13400	0.98	46	2KJ3207- ■ EK23- ■ ■ H1	-Z -		
13	800	110.14	13400	1	46	2KJ3207- ■ EK23- ■ ■ G1	-Z -		
14	755	104.03	13500	1.1	46	2KJ3207- ■ EK23- ■ ■ F1	-Z -		
16	645	88.52	13600	1.3	46	2KJ3207- ■ EK23- ■ ■ E1	-Z -		
19	550	75.83	13800	1.5	46	2KJ3207- ■ EK23- ■ ■ D1	-Z -		
22	485	66.67	13800	1.7	46	2KJ3207- ■ EK23- ■ ■ C1	-Z -		
Z.79-LE90SM4P									
26	395	54.47	14000	2.1	45	2KJ3107- ■ EK23- ■ ■ A2	-Z -		
29	360	49.52	14000	2.3	45	2KJ3107- ■ EK23- ■ ■ X1	-Z -		
D.69-FZ71ZME6TV									
14.4	730	104.31	11900	0.82	29	2KJ3206- ■ CV25- ■ ■ G1	-Z P01		
17.3	605	86.82	12100	0.99	29	2KJ3206- ■ CV25- ■ ■ F1	-Z P01		
18.4	570	81.71	12200	1.0	29	2KJ3206- ■ CV25- ■ ■ E1	-Z P01		
20	510	73.22	12300	1.2	29	2KJ3206- ■ CV25- ■ ■ D1	-Z P01		
24	435	62.33	12400	1.4	29	2KJ3206- ■ CV25- ■ ■ C1	-Z P01		
D.69-LE90SM4P									
17	630	86.82	10900	0.95	34	2KJ3206- ■ EK23- ■ ■ F1	-Z -		
18	595	81.71	11000	1	34	2KJ3206- ■ EK23- ■ ■ E1	-Z -		
20	530	73.22	11100	1.1	34	2KJ3206- ■ EK23- ■ ■ D1	-Z -		
Z.69-FZ71ZME6TV									
44	240	34.29	12700	2.5	29	2KJ3106- ■ CV25- ■ ■ T1	-Z P01		
49	215	30.90	12800	2.8	29	2KJ3106- ■ CV25- ■ ■ S1	-Z P01		
Z.69-LE90SM4P									
24	445	60.97	11200	1.3	34	2KJ3106- ■ EK23- ■ ■ A2	-Z -		
26	400	55.43	11300	1.5	34	2KJ3106- ■ EK23- ■ ■ X1	-Z -		
31	340	47.14	11400	1.7	34	2KJ3106- ■ EK23- ■ ■ W1	-Z -		
34	310	42.86	11400	1.9	34	2KJ3106- ■ EK23- ■ ■ V1	-Z -		
38	275	38.24	11500	2.2	34	2KJ3106- ■ EK23- ■ ■ U1	-Z -		
42	250	34.29	11500	2.4	34	2KJ3106- ■ EK23- ■ ■ T1	-Z -		
47	225	30.90	11500	2.7	34	2KJ3106- ■ EK23- ■ ■ S1	-Z -		
D.59-FZ71ZME6TV									
19.6	530	76.38	7250	0.84	24	2KJ3205- ■ CV25- ■ ■ E1	-Z P01		
22	475	68.43	8000	0.94	24	2KJ3205- ■ CV25- ■ ■ D1	-Z P01		
26	405	58.26	8280	1.1	24	2KJ3205- ■ CV25- ■ ■ C1	-Z P01		
D.59-LE90SM4P									
19	555	76.38	6220	0.81	30	2KJ3205- ■ EK23- ■ ■ E1	-Z -		
21	495	68.43	7300	0.9	30	2KJ3205- ■ EK23- ■ ■ D1	-Z -		
Z.59-FZ71ZME6TV									
47	220	32.05	7490	2.0	24	2KJ3105- ■ CV25- ■ ■ T1	-Z P01		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.1	Z.59-FZ71ZME6TV							
	52	200	28.89	7290	2.2	24	2KJ3105- CV25- S1 -Z	P01
	56	186	26.66	7130	2.4	24	2KJ3105- CV25- R1 -Z	P01
	62	170	24.34	6960	2.6	24	2KJ3105- CV25- Q1 -Z	P01
	74	141	20.20	6620	3.2	24	2KJ3105- CV25- P1 -Z	P01
	Z.59-LE90SM4P							
	25	415	56.99	7720	1.1	29	2KJ3105- EK23- A2 -Z	-
	28	375	51.81	7780	1.2	29	2KJ3105- EK23- X1 -Z	-
	33	320	44.06	7860	1.4	29	2KJ3105- EK23- W1 -Z	-
	36	290	40.06	7690	1.5	29	2KJ3105- EK23- V1 -Z	-
	40	260	35.74	7480	1.7	29	2KJ3105- EK23- U1 -Z	-
	45	230	32.05	7300	1.9	29	2KJ3105- EK23- T1 -Z	-
	50	210	28.89	7100	2.1	29	2KJ3105- EK23- S1 -Z	-
	54	194	26.66	6950	2.3	29	2KJ3105- EK23- R1 -Z	-
	59	178	24.34	6780	2.5	29	2KJ3105- EK23- Q1 -Z	-
	71	147	20.20	6450	3.1	29	2KJ3105- EK23- P1 -Z	-
	76	139	19.01	6340	3.2	29	2KJ3105- EK23- N1 -Z	-
	D.49-FZ71ZME6TV							
	28	370	53.30	4520	0.86	22	2KJ3204- CV25- C1 -Z	P01
Z.49-FZ71ZME6TV								
51	205	29.32	5680	1.6	22	2KJ3104- CV25- U1 -Z	P01	
57	185	26.43	5540	1.7	22	2KJ3104- CV25- T1 -Z	P01	
62	170	24.39	5430	1.9	22	2KJ3104- CV25- S1 -Z	P01	
67	155	22.27	5310	2.1	22	2KJ3104- CV25- R1 -Z	P01	
81	129	18.48	5060	2.5	22	2KJ3104- CV25- Q1 -Z	P01	
86	121	17.39	4980	2.6	22	2KJ3104- CV25- P1 -Z	P01	
91	114	16.42	4900	2.8	22	2KJ3104- CV25- M1 -Z	P01	
107	97	13.98	4690	3.3	22	2KJ3104- CV25- N1 -Z	P01	
Z.49-LE90SM4P								
28	380	52.14	5630	0.84	27	2KJ3104- EK23- B2 -Z	-	
30	345	47.40	5850	0.93	27	2KJ3104- EK23- A2 -Z	-	
36	290	40.31	5960	1.1	27	2KJ3104- EK23- X1 -Z	-	
39	265	36.65	6010	1.2	27	2KJ3104- EK23- W1 -Z	-	
44	235	32.70	5890	1.3	27	2KJ3104- EK23- V1 -Z	-	
49	210	29.32	5750	1.5	27	2KJ3104- EK23- U1 -Z	-	
54	193	26.43	5590	1.7	27	2KJ3104- EK23- T1 -Z	-	
59	178	24.39	5480	1.8	27	2KJ3104- EK23- S1 -Z	-	
65	162	22.27	5360	2	27	2KJ3104- EK23- R1 -Z	-	
78	135	18.48	5100	2.4	27	2KJ3104- EK23- Q1 -Z	-	
83	127	17.39	5020	2.5	27	2KJ3104- EK23- P1 -Z	-	
88	120	16.42	4950	2.7	27	2KJ3104- EK23- N1 -Z	-	
103	102	13.98	4730	3.1	27	2KJ3104- EK23- M1 -Z	-	
120	87	11.97	4530	3.7	27	2KJ3104- EK23- L1 -Z	-	
Z.39-FZ71ZME6TV								
60	173	24.82	3510	1.2	13	2KJ3103- CV25- R1 -Z	P01	
69	152	21.74	3660	1.3	13	2KJ3103- CV25- Q1 -Z	P01	
75	140	20.07	3750	1.4	13	2KJ3103- CV25- P1 -Z	P01	
84	124	17.77	3830	1.6	13	2KJ3103- CV25- N1 -Z	P01	
101	103	14.79	3910	1.9	13	2KJ3103- CV25- M1 -Z	P01	
108	97	13.92	3920	1.9	13	2KJ3103- CV25- L1 -Z	P01	
120	87	12.47	3930	2.1	13	2KJ3103- CV25- K1 -Z	P01	
141	74	10.62	3920	2.3	13	2KJ3103- CV25- J1 -Z	P01	
232	45	6.46	3460	3.2	13	2KJ3103- CV25- F1 -Z	P01	
247	42	6.08	3450	3.5	13	2KJ3103- CV25- E1 -Z	P01	
275	38	5.45	3400	3.7	13	2KJ3103- CV25- D1 -Z	P01	
323	32	4.64	3330	4.0	13	2KJ3103- CV25- C1 -Z	P01	
Z.39-LE90SM4P								
42	245	33.97	2260	0.81	18	2KJ3103- EK23- U1 -Z	-	
47	225	30.88	2500	0.89	18	2KJ3103- EK23- T1 -Z	-	
53	199	27.30	2820	1	18	2KJ3103- EK23- S1 -Z	-	
58	181	24.82	3020	1.1	18	2KJ3103- EK23- R1 -Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.1	Z.39-LE90SM4P							
	66	159	21.74	3250	1.3	18	2KJ3103- ■ EK23- ■ ■ Q1 -Z -	
	72	146	20.07	3380	1.4	18	2KJ3103- ■ EK23- ■ ■ P1 -Z -	
	81	130	17.77	3500	1.5	18	2KJ3103- ■ EK23- ■ ■ N1 -Z -	
	97	108	14.79	3650	1.8	18	2KJ3103- ■ EK23- ■ ■ M1 -Z -	
	103	102	13.92	3670	1.9	18	2KJ3103- ■ EK23- ■ ■ L1 -Z -	
	115	91	12.47	3730	2	18	2KJ3103- ■ EK23- ■ ■ K1 -Z -	
	136	78	10.62	3740	2.2	18	2KJ3103- ■ EK23- ■ ■ J1 -Z -	
	158	66	9.10	3750	2.4	18	2KJ3103- ■ EK23- ■ ■ H1 -Z -	
	184	57	7.84	3710	2.6	18	2KJ3103- ■ EK23- ■ ■ G1 -Z -	
	223	47	6.46	3350	3.1	18	2KJ3103- ■ EK23- ■ ■ F1 -Z -	
	237	44	6.08	3340	3.3	18	2KJ3103- ■ EK23- ■ ■ E1 -Z -	
	264	40	5.45	3300	3.5	18	2KJ3103- ■ EK23- ■ ■ D1 -Z -	
	310	34	4.64	3230	3.8	18	2KJ3103- ■ EK23- ■ ■ C1 -Z -	
	362	29	3.98	3090	4.2	18	2KJ3103- ■ EK23- ■ ■ B1 -Z -	
	420	25	3.43	2950	4.5	18	2KJ3103- ■ EK23- ■ ■ A1 -Z -	
	Z.39-LE80ZM2P							
	162	65	17.77	3730	3.1	16	2KJ3103- ■ DM23- ■ ■ N1 -Z P00	
	195	54	14.79	3690	3.6	16	2KJ3103- ■ DM23- ■ ■ M1 -Z P00	
	207	51	13.92	3630	3.7	16	2KJ3103- ■ DM23- ■ ■ L1 -Z P00	
	231	45	12.47	3530	4	16	2KJ3103- ■ DM23- ■ ■ K1 -Z P00	
	272	39	10.62	3360	4.4	16	2KJ3103- ■ DM23- ■ ■ J1 -Z P00	
	317	33	9.10	3210	4.8	16	2KJ3103- ■ DM23- ■ ■ H1 -Z P00	
	368	28	7.84	3070	5.2	16	2KJ3103- ■ DM23- ■ ■ G1 -Z P00	
	Z.29-FZ71ZME6TV							
	85	123	17.67	2620	1.1	12	2KJ3102- ■ CV25- ■ ■ R1 -Z P01	
	95	110	15.75	2720	1.3	12	2KJ3102- ■ CV25- ■ ■ Q1 -Z P01	
	103	101	14.54	2800	1.2	12	2KJ3102- ■ CV25- ■ ■ P1 -Z P01	
	118	89	12.73	2860	1.6	12	2KJ3102- ■ CV25- ■ ■ N1 -Z P01	
	134	78	11.16	2840	1.8	12	2KJ3102- ■ CV25- ■ ■ M1 -Z P01	
	148	70	10.12	2780	2.0	12	2KJ3102- ■ CV25- ■ ■ L1 -Z P01	
	157	66	9.53	2730	2.1	12	2KJ3102- ■ CV25- ■ ■ K1 -Z P01	
	179	58	8.40	2650	2.3	12	2KJ3102- ■ CV25- ■ ■ J1 -Z P01	
	206	51	7.29	2550	2.5	12	2KJ3102- ■ CV25- ■ ■ H1 -Z P01	
	217	48	6.92	2460	1.5	12	2KJ3102- ■ CV25- ■ ■ G1 -Z P01	
	248	42	6.06	2380	2.4	12	2KJ3102- ■ CV25- ■ ■ F1 -Z P01	
282	37	5.31	2300	2.4	12	2KJ3102- ■ CV25- ■ ■ E1 -Z P01		
311	33	4.82	2240	2.5	12	2KJ3102- ■ CV25- ■ ■ D1 -Z P01		
330	31	4.54	2210	2.6	12	2KJ3102- ■ CV25- ■ ■ C1 -Z P01		
375	28	4.00	2130	2.7	12	2KJ3102- ■ CV25- ■ ■ B1 -Z P01		
432	24	3.47	2050	2.9	12	2KJ3102- ■ CV25- ■ ■ A1 -Z P01		
Z.29-LE90SM4P								
64	165	22.58	1930	0.85	17	2KJ3102- ■ EK23- ■ ■ T1 -Z -		
73	144	19.80	2220	0.97	17	2KJ3102- ■ EK23- ■ ■ S1 -Z -		
81	129	17.67	2390	1.1	17	2KJ3102- ■ EK23- ■ ■ R1 -Z -		
91	115	15.75	2540	1.2	17	2KJ3102- ■ EK23- ■ ■ Q1 -Z -		
99	106	14.54	2630	1.1	17	2KJ3102- ■ EK23- ■ ■ P1 -Z -		
113	93	12.73	2740	1.5	17	2KJ3102- ■ EK23- ■ ■ N1 -Z -		
129	81	11.16	2750	1.7	17	2KJ3102- ■ EK23- ■ ■ M1 -Z -		
142	74	10.12	2690	1.9	17	2KJ3102- ■ EK23- ■ ■ L1 -Z -		
151	70	9.53	2650	2	17	2KJ3102- ■ EK23- ■ ■ K1 -Z -		
171	61	8.40	2570	2.3	17	2KJ3102- ■ EK23- ■ ■ J1 -Z -		
198	53	7.29	2480	2.4	17	2KJ3102- ■ EK23- ■ ■ H1 -Z -		
208	50	6.92	2390	1.5	17	2KJ3102- ■ EK23- ■ ■ G1 -Z -		
238	44	6.06	2310	2.3	17	2KJ3102- ■ EK23- ■ ■ F1 -Z -		
271	39	5.31	2230	2.3	17	2KJ3102- ■ EK23- ■ ■ E1 -Z -		
299	35	4.82	2180	2.4	17	2KJ3102- ■ EK23- ■ ■ D1 -Z -		
317	33	4.54	2140	2.5	17	2KJ3102- ■ EK23- ■ ■ C1 -Z -		
360	29	4.00	2070	2.6	17	2KJ3102- ■ EK23- ■ ■ B1 -Z -		
415	25	3.47	2000	2.8	17	2KJ3102- ■ EK23- ■ ■ A1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.1	Z.29-LE80ZMJ2P							
	163	64	17.67	2600	2.2	15	2KJ3102- DM23- R1 -Z	P00
	183	57	15.75	2530	2.4	15	2KJ3102- DM23- Q1 -Z	P00
	198	53	14.54	2480	2.3	15	2KJ3102- DM23- P1 -Z	P00
	227	46	12.73	2400	3	15	2KJ3102- DM23- N1 -Z	P00
	259	41	11.16	2310	3.4	15	2KJ3102- DM23- M1 -Z	P00
	285	37	10.12	2250	3.8	15	2KJ3102- DM23- L1 -Z	P00
	303	35	9.53	2210	4	15	2KJ3102- DM23- K1 -Z	P00
	343	31	8.40	2140	4.5	15	2KJ3102- DM23- J1 -Z	P00
	396	26	7.29	2060	4.9	15	2KJ3102- DM23- H1 -Z	P00
	417	25	6.92	1990	3	15	2KJ3102- DM23- G1 -Z	P00
	476	22	6.06	1920	4.5	15	2KJ3102- DM23- F1 -Z	P00
	543	19	5.31	1850	4.7	15	2KJ3102- DM23- E1 -Z	P00
	599	18	4.82	1800	4.9	15	2KJ3102- DM23- D1 -Z	P00
	635	16	4.54	1770	5.1	15	2KJ3102- DM23- C1 -Z	P00
	721	15	4.00	1700	5.2	15	2KJ3102- DM23- B1 -Z	P00
	831	13	3.47	1630	5.5	15	2KJ3102- DM23- A1 -Z	P00
	Z.19-FZ71ZME6TV							
	102	103	14.77	1260	0.92	11	2KJ3101- CV25- P1 -Z	P01
	114	91	13.12	1460	0.99	11	2KJ3101- CV25- N1 -Z	P01
	124	84	12.11	1570	1.0	11	2KJ3101- CV25- M1 -Z	P01
	143	73	10.52	1580	1.1	11	2KJ3101- CV25- L1 -Z	P01
	164	64	9.14	1550	1.2	11	2KJ3101- CV25- K1 -Z	P01
	182	57	8.25	1520	1.3	11	2KJ3101- CV25- J1 -Z	P01
	193	54	7.76	1510	1.3	11	2KJ3101- CV25- H1 -Z	P01
	222	47	6.77	1470	1.4	11	2KJ3101- CV25- G1 -Z	P01
	240	43	6.25	1310	1.3	11	2KJ3101- CV25- F1 -Z	P01
	276	38	5.43	1280	1.4	11	2KJ3101- CV25- E1 -Z	P01
	318	32	4.71	1260	1.5	11	2KJ3101- CV25- D1 -Z	P01
	352	29	4.26	1240	1.6	11	2KJ3101- CV25- C1 -Z	P01
	374	28	4.01	1210	1.6	11	2KJ3101- CV25- B1 -Z	P01
	Z.19-LE80ZMJ2P							
	152	69	18.92	1570	1.5	13	2KJ3101- DM23- R1 -Z	P00
	175	60	16.50	1540	1.6	13	2KJ3101- DM23- Q1 -Z	P00
	195	54	14.77	1510	1.8	13	2KJ3101- DM23- P1 -Z	P00
	220	48	13.12	1480	1.9	13	2KJ3101- DM23- N1 -Z	P00
	238	44	12.11	1460	2	13	2KJ3101- DM23- M1 -Z	P00
274	38	10.52	1420	2.2	13	2KJ3101- DM23- L1 -Z	P00	
316	33	9.14	1380	2.3	13	2KJ3101- DM23- K1 -Z	P00	
350	30	8.25	1350	2.5	13	2KJ3101- DM23- J1 -Z	P00	
372	28	7.76	1330	2.6	13	2KJ3101- DM23- H1 -Z	P00	
426	25	6.77	1280	2.8	13	2KJ3101- DM23- G1 -Z	P00	
462	23	6.25	1170	2.5	13	2KJ3101- DM23- F1 -Z	P00	
531	20	5.43	1140	2.7	13	2KJ3101- DM23- E1 -Z	P00	
613	17	4.71	1110	2.9	13	2KJ3101- DM23- D1 -Z	P00	
677	16	4.26	1080	3	13	2KJ3101- DM23- C1 -Z	P00	
719	15	4.01	1060	3.2	13	2KJ3101- DM23- B1 -Z	P00	
827	13	3.49	1030	3.4	13	2KJ3101- DM23- A1 -Z	P00	
E.89-LE90SM4P								
149	70	9.67	8000	4	46	2KJ3004- EK23- T1 -Z	-	
E.69-FZ71ZME6TV								
220	47	6.82	6100	3.6	25	2KJ3003- CV25- P1 -Z	P01	
243	43	6.17	6100	4.7	25	2KJ3003- CV25- N1 -Z	P01	
264	39	5.69	6100	4.1	25	2KJ3003- CV25- M1 -Z	P01	
E.69-LE90SM4P								
155	68	9.30	6100	1.8	30	2KJ3003- EK23- S1 -Z	-	
170	62	8.45	6100	1.7	30	2KJ3003- EK23- R1 -Z	-	
190	55	7.58	6100	3.7	30	2KJ3003- EK23- Q1 -Z	-	
211	50	6.82	6100	3.4	30	2KJ3003- EK23- P1 -Z	-	
233	45	6.17	6100	4.6	30	2KJ3003- EK23- N1 -Z	-	
253	42	5.69	6100	4	30	2KJ3003- EK23- M1 -Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles	
1.1	E.49-FZ71ZME6TV								
	275	38	5.45	3680	2.7	18	2KJ3002- CV25- M1	-Z P01	
	305	34	4.92	3680	3.0	18	2KJ3002- CV25- L1	-Z P01	
	330	31	4.54	3680	3.2	18	2KJ3002- CV25- K1	-Z P01	
	362	28	4.14	3680	3.5	18	2KJ3002- CV25- J1	-Z P01	
	436	24	3.44	3680	4.2	18	2KJ3002- CV25- H1	-Z P01	
	463	22	3.24	3680	4.5	18	2KJ3002- CV25- G1	-Z P01	
	490	21	3.06	3680	4.7	18	2KJ3002- CV25- F1	-Z P01	
	577	18	2.60	3680	5.6	18	2KJ3002- CV25- E1	-Z P01	
	1.1	E.49-LE90SM4P							
148		71	9.70	4000	1.2	23	2KJ3002- EK23- S1	-Z -	
163		64	8.82	4000	1.7	23	2KJ3002- EK23- R1	-Z -	
192		55	7.50	4000	2	23	2KJ3002- EK23- Q1	-Z -	
211		50	6.82	4000	2.1	23	2KJ3002- EK23- P1	-Z -	
237		44	6.08	4000	2.3	23	2KJ3002- EK23- N1	-Z -	
264		40	5.45	4000	2.6	23	2KJ3002- EK23- M1	-Z -	
293		36	4.92	4000	2.8	23	2KJ3002- EK23- L1	-Z -	
317		33	4.54	4000	3.1	23	2KJ3002- EK23- K1	-Z -	
348		30	4.14	4000	3.4	23	2KJ3002- EK23- J1	-Z -	
419		25	3.44	4000	4	23	2KJ3002- EK23- H1	-Z -	
444		24	3.24	4000	4.3	23	2KJ3002- EK23- G1	-Z -	
471		22	3.06	4000	4.5	23	2KJ3002- EK23- F1	-Z -	
554		19	2.60	3920	5.4	23	2KJ3002- EK23- E1	-Z -	
1.1		E.39-FZ71ZME6TV							
		367	28	4.09	2460	1.7	14	2KJ3001- CV25- K1	-Z P01
	419	25	3.58	2460	2.3	14	2KJ3001- CV25- J1	-Z P01	
	453	23	3.31	2460	2.5	14	2KJ3001- CV25- H1	-Z P01	
	512	20	2.93	2460	3.2	14	2KJ3001- CV25- G1	-Z P01	
	615	17	2.44	2460	3.8	14	2KJ3001- CV25- F1	-Z P01	
	655	16	2.29	2460	4.1	14	2KJ3001- CV25- E1	-Z P01	
	728	14	2.06	2460	4.6	14	2KJ3001- CV25- D1	-Z P01	
	857	12	1.75	2380	5.4	14	2KJ3001- CV25- C1	-Z P01	
	1.1	E.39-LE90SM4P							
220		48	6.55	3000	0.84	19	2KJ3001- EK23- P1	-Z -	
257		41	5.60	3000	0.98	19	2KJ3001- EK23- N1	-Z -	
283		37	5.09	3000	1.1	19	2KJ3001- EK23- M1	-Z -	
320		33	4.50	3000	1.5	19	2KJ3001- EK23- L1	-Z -	
352		30	4.09	3000	1.6	19	2KJ3001- EK23- K1	-Z -	
402		26	3.58	3000	2.2	19	2KJ3001- EK23- J1	-Z -	
435		24	3.31	3000	2.4	19	2KJ3001- EK23- H1	-Z -	
491		21	2.93	3000	3	19	2KJ3001- EK23- G1	-Z -	
590		18	2.44	2930	3.7	19	2KJ3001- EK23- F1	-Z -	
629		17	2.29	2880	4	19	2KJ3001- EK23- E1	-Z -	
699		15	2.06	2780	4.4	19	2KJ3001- EK23- D1	-Z -	
823		13	1.75	2640	5.2	19	2KJ3001- EK23- C1	-Z -	
960		11	1.50	2520	5.6	19	2KJ3001- EK23- B1	-Z -	
1116		9.4	1.29	2410	5.7	19	2KJ3001- EK23- A1	-Z -	
1.5		D.149-LE112ZMKA6P							
	3	4820	328.38	52700	1.7	280	2KJ3212- GH23- W1	-Z P01	
	3.5	4120	281.04	53000	1.9	280	2KJ3212- GH23- V1	-Z P01	
	D.129-FZ90LBA6TV								
	4.0	3560	373.00	29400	1.4	163	2KJ3211- ES25- S1	-Z P01	
	4.4	3280	344.17	29400	1.5	163	2KJ3211- ES25- R1	-Z P01	
	4.7	3020	316.90	29400	1.7	163	2KJ3211- ES25- Q1	-Z P01	
	5.6	2580	270.24	29400	1.9	163	2KJ3211- ES25- P1	-Z P01	
	5.9	2420	254.34	29400	2.1	163	2KJ3211- ES25- N1	-Z P01	
	D.129-LE112ZMKA6P								
2.6	5480	373.00	26700	0.91	194	2KJ3211- GH23- S1	-Z P01		
2.8	5050	344.17	27000	0.99	194	2KJ3211- GH23- R1	-Z P01		
3.1	4650	316.90	27200	1.1	194	2KJ3211- GH23- Q1	-Z P01		
3.6	3970	270.24	27600	1.3	194	2KJ3211- GH23- P1	-Z P01		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.5	D.129-LE90ZLR4P							
	3.9	3690	373.00	27800	1.4	177	2KJ3211- ■ EM23- ■ ■ S1 -Z -	-
	4.2	3410	344.17	28000	1.5	177	2KJ3211- ■ EM23- ■ ■ R1 -Z -	-
	4.6	3140	316.90	28100	1.6	177	2KJ3211- ■ EM23- ■ ■ Q1 -Z -	-
	5.3	2670	270.24	28400	1.9	177	2KJ3211- ■ EM23- ■ ■ P1 -Z -	-
	5.7	2520	254.34	28500	2	177	2KJ3211- ■ EM23- ■ ■ N1 -Z -	-
	6.1	2340	236.03	28600	2.1	177	2KJ3211- ■ EM23- ■ ■ M1 -Z -	-
	D.109-FZ90LBA6TV							
	4.3	3330	348.88	20200	0.93	102	2KJ3210- ■ ES25- ■ ■ T1 -Z P01	
	4.8	3000	314.98	20200	1.0	102	2KJ3210- ■ ES25- ■ ■ S1 -Z P01	
	5.2	2720	285.72	20200	1.1	102	2KJ3210- ■ ES25- ■ ■ R1 -Z P01	
	5.7	2510	263.74	20200	1.2	102	2KJ3210- ■ ES25- ■ ■ Q1 -Z P01	
	6.3	2280	239.75	20200	1.4	102	2KJ3210- ■ ES25- ■ ■ P1 -Z P01	
	7.4	1930	203.01	20200	1.6	102	2KJ3210- ■ ES25- ■ ■ N1 -Z P01	
	7.9	1820	191.07	20200	1.7	102	2KJ3210- ■ ES25- ■ ■ M1 -Z P01	
	8.5	1680	176.45	20200	1.8	102	2KJ3210- ■ ES25- ■ ■ L1 -Z P01	
	9.6	1490	157.00	20200	2.1	102	2KJ3210- ■ ES25- ■ ■ K1 -Z P01	
	D.109-LE112ZMKA6P							
	3.7	3870	263.74	20000	0.8	130	2KJ3210- ■ GH23- ■ ■ Q1 -Z P01	
D.109-LE90ZLR4P								
4.1	3450	348.88	20200	0.9	114	2KJ3210- ■ EM23- ■ ■ T1 -Z -	-	
4.6	3120	314.98	20200	0.99	114	2KJ3210- ■ EM23- ■ ■ S1 -Z -	-	
5.1	2830	285.72	20200	1.1	114	2KJ3210- ■ EM23- ■ ■ R1 -Z -	-	
5.5	2610	263.74	20200	1.2	114	2KJ3210- ■ EM23- ■ ■ Q1 -Z -	-	
6	2370	239.75	20200	1.3	114	2KJ3210- ■ EM23- ■ ■ P1 -Z -	-	
7.1	2010	203.01	20200	1.5	114	2KJ3210- ■ EM23- ■ ■ N1 -Z -	-	
7.6	1890	191.07	20200	1.6	114	2KJ3210- ■ EM23- ■ ■ M1 -Z -	-	
8.2	1740	176.45	20200	1.8	114	2KJ3210- ■ EM23- ■ ■ L1 -Z -	-	
9.2	1550	157.00	20200	2	114	2KJ3210- ■ EM23- ■ ■ K1 -Z -	-	
10	1380	139.44	20200	2.2	114	2KJ3210- ■ EM23- ■ ■ J1 -Z -	-	
D.89-FZ90LBA6TV								
7.3	1970	206.62	18600	0.85	63	2KJ3208- ■ ES25- ■ ■ N1 -Z P01		
7.9	1820	190.73	18600	0.92	63	2KJ3208- ■ ES25- ■ ■ M1 -Z P01		
8.6	1660	174.71	18600	1.0	63	2KJ3208- ■ ES25- ■ ■ L1 -Z P01		
10.2	1390	146.59	18600	1.2	63	2KJ3208- ■ ES25- ■ ■ K1 -Z P01		
10.9	1310	137.97	18600	1.3	63	2KJ3208- ■ ES25- ■ ■ J1 -Z P01		
11.9	1200	126.58	18600	1.4	63	2KJ3208- ■ ES25- ■ ■ H1 -Z P01		
13.6	1050	110.57	18600	1.6	63	2KJ3208- ■ ES25- ■ ■ G1 -Z P01		
15.2	945	98.99	18600	1.8	63	2KJ3208- ■ ES25- ■ ■ F1 -Z P01		
17.3	825	86.56	18600	2.0	63	2KJ3208- ■ ES25- ■ ■ E1 -Z P01		
D.89-LE90ZLR4P								
7	2040	206.62	18300	0.82	72	2KJ3208- ■ EM23- ■ ■ N1 -Z -	-	
7.6	1890	190.73	18500	0.89	72	2KJ3208- ■ EM23- ■ ■ M1 -Z -	-	
8.3	1730	174.71	18500	0.97	72	2KJ3208- ■ EM23- ■ ■ L1 -Z -	-	
9.9	1450	146.59	18500	1.2	72	2KJ3208- ■ EM23- ■ ■ K1 -Z -	-	
10	1360	137.97	18500	1.2	72	2KJ3208- ■ EM23- ■ ■ J1 -Z -	-	
11	1250	126.58	18500	1.3	72	2KJ3208- ■ EM23- ■ ■ H1 -Z -	-	
13	1090	110.57	18500	1.5	72	2KJ3208- ■ EM23- ■ ■ G1 -Z -	-	
15	980	98.99	18500	1.7	72	2KJ3208- ■ EM23- ■ ■ F1 -Z -	-	
17	855	86.56	18500	2	72	2KJ3208- ■ EM23- ■ ■ E1 -Z -	-	
19	735	74.30	18500	2.3	72	2KJ3208- ■ EM23- ■ ■ D1 -Z -	-	
D.79-FZ90LBA6TV								
13.6	1050	110.14	12500	0.80	41	2KJ3207- ■ ES25- ■ ■ G1 -Z P01		
14.4	990	104.03	13500	0.85	41	2KJ3207- ■ ES25- ■ ■ F1 -Z P01		
16.9	845	88.52	14700	0.99	41	2KJ3207- ■ ES25- ■ ■ E1 -Z P01		
19.8	720	75.83	14700	1.2	41	2KJ3207- ■ ES25- ■ ■ D1 -Z P01		
22	635	66.67	14700	1.3	41	2KJ3207- ■ ES25- ■ ■ C1 -Z P01		
D.79-LE90ZLR4P								
14	1030	104.03	11000	0.81	49	2KJ3207- ■ EM23- ■ ■ F1 -Z -	-	
16	875	88.52	13300	0.96	49	2KJ3207- ■ EM23- ■ ■ E1 -Z -	-	
19	750	75.83	13500	1.1	49	2KJ3207- ■ EM23- ■ ■ D1 -Z -	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.5	D.79-LE90ZLR4P							
	22	660	66.67	13600	1.3	49	2KJ3207- ■ EM23- ■ ■ C1 -Z -	
	Z.79-FZ90LBA6TV							
	28	520	54.47	14700	1.6	40	2KJ3107- ■ ES25- ■ ■ A2 -Z P01	
	30	470	49.52	14700	1.8	40	2KJ3107- ■ ES25- ■ ■ X1 -Z P01	
	34	420	44.42	14700	2.0	40	2KJ3107- ■ ES25- ■ ■ W1 -Z P01	
	38	380	39.94	14700	2.2	40	2KJ3107- ■ ES25- ■ ■ V1 -Z P01	
	42	340	36.12	14700	2.4	40	2KJ3107- ■ ES25- ■ ■ U1 -Z P01	
	45	315	33.34	14700	2.6	40	2KJ3107- ■ ES25- ■ ■ T1 -Z P01	
	Z.79-LE90ZLR4P							
	27	540	54.47	13800	1.6	48	2KJ3107- ■ EM23- ■ ■ A2 -Z -	
29	490	49.52	13800	1.7	48	2KJ3107- ■ EM23- ■ ■ X1 -Z -		
33	440	44.42	13900	1.9	48	2KJ3107- ■ EM23- ■ ■ W1 -Z -		
36	395	39.94	14000	2.1	48	2KJ3107- ■ EM23- ■ ■ V1 -Z -		
40	355	36.12	14000	2.3	48	2KJ3107- ■ EM23- ■ ■ U1 -Z -		
43	330	33.34	14000	2.5	48	2KJ3107- ■ EM23- ■ ■ T1 -Z -		
47	300	30.54	14100	2.8	48	2KJ3107- ■ EM23- ■ ■ S1 -Z -		
D.69-FZ90LBA6TV								
20	695	73.22	12000	0.86	32	2KJ3206- ■ ES25- ■ ■ D1 -Z P01		
D.69-LE90ZLR4P								
20	725	73.22	10700	0.83	37	2KJ3206- ■ EM23- ■ ■ D1 -Z -		
Z.69-FZ90LBA6TV								
25	580	60.97	12200	1.0	32	2KJ3106- ■ ES25- ■ ■ A2 -Z P01		
27	525	55.43	12300	1.1	32	2KJ3106- ■ ES25- ■ ■ X1 -Z P01		
32	450	47.14	12400	1.3	32	2KJ3106- ■ ES25- ■ ■ W1 -Z P01		
35	405	42.86	12500	1.5	32	2KJ3106- ■ ES25- ■ ■ V1 -Z P01		
39	365	38.24	12500	1.6	32	2KJ3106- ■ ES25- ■ ■ U1 -Z P01		
44	325	34.29	12600	1.8	32	2KJ3106- ■ ES25- ■ ■ T1 -Z P01		
49	295	30.90	12700	2.0	32	2KJ3106- ■ ES25- ■ ■ S1 -Z P01		
53	270	28.53	12700	2.2	32	2KJ3106- ■ ES25- ■ ■ R1 -Z P01		
58	245	26.04	12700	2.4	32	2KJ3106- ■ ES25- ■ ■ Q1 -Z P01		
69	205	21.61	12500	2.9	32	2KJ3106- ■ ES25- ■ ■ P1 -Z P01		
74	194	20.34	12300	3.1	32	2KJ3106- ■ ES25- ■ ■ N1 -Z P01		
Z.69-LE90ZLR4P								
24	600	60.97	11000	0.99	37	2KJ3106- ■ EM23- ■ ■ A2 -Z -		
26	550	55.43	11000	1.1	37	2KJ3106- ■ EM23- ■ ■ X1 -Z -		
31	465	47.14	11200	1.3	37	2KJ3106- ■ EM23- ■ ■ W1 -Z -		
34	425	42.86	11200	1.4	37	2KJ3106- ■ EM23- ■ ■ V1 -Z -		
38	375	38.24	11300	1.6	37	2KJ3106- ■ EM23- ■ ■ U1 -Z -		
42	340	34.29	11400	1.8	37	2KJ3106- ■ EM23- ■ ■ T1 -Z -		
47	305	30.90	11400	2	37	2KJ3106- ■ EM23- ■ ■ S1 -Z -		
51	280	28.53	11500	2.1	37	2KJ3106- ■ EM23- ■ ■ R1 -Z -		
55	255	26.04	11500	2.3	37	2KJ3106- ■ EM23- ■ ■ Q1 -Z -		
67	210	21.61	11600	2.8	37	2KJ3106- ■ EM23- ■ ■ P1 -Z -		
71	200	20.34	11600	3	37	2KJ3106- ■ EM23- ■ ■ N1 -Z -		
75	190	19.21	11600	3.2	37	2KJ3106- ■ EM23- ■ ■ M1 -Z -		
Z.59-FZ90LBA6TV								
26	540	56.99	7730	0.83	27	2KJ3105- ■ ES25- ■ ■ A2 -Z P01		
29	490	51.81	7840	0.91	27	2KJ3105- ■ ES25- ■ ■ X1 -Z P01		
34	420	44.06	7610	1.1	27	2KJ3105- ■ ES25- ■ ■ W1 -Z P01		
37	380	40.06	7480	1.2	27	2KJ3105- ■ ES25- ■ ■ V1 -Z P01		
42	340	35.74	7310	1.3	27	2KJ3105- ■ ES25- ■ ■ U1 -Z P01		
47	305	32.05	7140	1.5	27	2KJ3105- ■ ES25- ■ ■ T1 -Z P01		
52	275	28.89	6980	1.6	27	2KJ3105- ■ ES25- ■ ■ S1 -Z P01		
56	250	26.66	6870	1.8	27	2KJ3105- ■ ES25- ■ ■ R1 -Z P01		
62	230	24.34	6710	1.9	27	2KJ3105- ■ ES25- ■ ■ Q1 -Z P01		
74	192	20.20	6410	2.3	27	2KJ3105- ■ ES25- ■ ■ P1 -Z P01		
79	181	19.01	6310	2.5	27	2KJ3105- ■ ES25- ■ ■ N1 -Z P01		
84	171	17.95	6220	2.6	27	2KJ3105- ■ ES25- ■ ■ M1 -Z P01		
98	145	15.27	5960	3.1	27	2KJ3105- ■ ES25- ■ ■ L1 -Z P01		
115	125	13.09	5710	3.6	27	2KJ3105- ■ ES25- ■ ■ K1 -Z P01		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.5	Z.59-LE90ZLR4P							
	25	565	56.99	7210	0.8	32	2KJ3105- ■ EM23- ■ ■ A2 -Z -	
	28	510	51.81	7570	0.88	32	2KJ3105- ■ EM23- ■ ■ X1 -Z -	
	33	435	44.06	7400	1	32	2KJ3105- ■ EM23- ■ ■ W1 -Z -	
	36	395	40.06	7270	1.1	32	2KJ3105- ■ EM23- ■ ■ V1 -Z -	
	40	350	35.74	7120	1.3	32	2KJ3105- ■ EM23- ■ ■ U1 -Z -	
	45	315	32.05	6950	1.4	32	2KJ3105- ■ EM23- ■ ■ T1 -Z -	
	50	285	28.89	6790	1.6	32	2KJ3105- ■ EM23- ■ ■ S1 -Z -	
	54	260	26.66	6680	1.7	32	2KJ3105- ■ EM23- ■ ■ R1 -Z -	
	59	240	24.34	6530	1.9	32	2KJ3105- ■ EM23- ■ ■ Q1 -Z -	
	72	200	20.20	6240	2.2	32	2KJ3105- ■ EM23- ■ ■ P1 -Z -	
76	188	19.01	6140	2.4	32	2KJ3105- ■ EM23- ■ ■ N1 -Z -		
81	178	17.95	6050	2.5	32	2KJ3105- ■ EM23- ■ ■ M1 -Z -		
95	151	15.27	5800	3	32	2KJ3105- ■ EM23- ■ ■ L1 -Z -		
110	130	13.09	5560	3.5	32	2KJ3105- ■ EM23- ■ ■ K1 -Z -		
	Z.49-FZ90LBA6TV							
	37	380	40.31	5630	0.83	25	2KJ3104- ■ ES25- ■ ■ X1 -Z P01	
	41	350	36.65	5610	0.91	25	2KJ3104- ■ ES25- ■ ■ W1 -Z P01	
	46	310	32.70	4860	1.0	25	2KJ3104- ■ ES25- ■ ■ V1 -Z P01	
	51	280	29.32	5170	1.1	25	2KJ3104- ■ ES25- ■ ■ U1 -Z P01	
	57	250	26.43	5280	1.3	25	2KJ3104- ■ ES25- ■ ■ T1 -Z P01	
	62	230	24.39	5200	1.4	25	2KJ3104- ■ ES25- ■ ■ S1 -Z P01	
	67	210	22.27	5090	1.5	25	2KJ3104- ■ ES25- ■ ■ R1 -Z P01	
	81	176	18.48	4870	1.8	25	2KJ3104- ■ ES25- ■ ■ Q1 -Z P01	
	86	166	17.39	4800	1.9	25	2KJ3104- ■ ES25- ■ ■ P1 -Z P01	
	91	156	16.42	4740	2.0	25	2KJ3104- ■ ES25- ■ ■ N1 -Z P01	
	107	133	13.98	4550	2.4	25	2KJ3104- ■ ES25- ■ ■ M1 -Z P01	
	125	114	11.97	4370	2.8	25	2KJ3104- ■ ES25- ■ ■ L1 -Z P01	
	142	100	10.53	4220	3.2	25	2KJ3104- ■ ES25- ■ ■ K1 -Z P01	
	169	84	8.88	4030	3.8	25	2KJ3104- ■ ES25- ■ ■ J1 -Z P01	
	194	73	7.74	3880	4.3	25	2KJ3104- ■ ES25- ■ ■ H1 -Z P01	
	196	72	7.64	3840	4.0	25	2KJ3104- ■ ES25- ■ ■ G1 -Z P01	
	208	68	7.21	3770	4.2	25	2KJ3104- ■ ES25- ■ ■ F1 -Z P01	
	244	58	6.14	3600	4.5	25	2KJ3104- ■ ES25- ■ ■ E1 -Z P01	
285	50	5.26	3450	4.9	25	2KJ3104- ■ ES25- ■ ■ D1 -Z P01		
325	44	4.62	3320	5.1	25	2KJ3104- ■ ES25- ■ ■ C1 -Z P01		
	Z.49-LE90ZLR4P							
	36	400	40.31	5300	0.8	30	2KJ3104- ■ EM23- ■ ■ X1 -Z -	
	39	360	36.65	5650	0.88	30	2KJ3104- ■ EM23- ■ ■ W1 -Z -	
	44	320	32.70	5550	0.99	30	2KJ3104- ■ EM23- ■ ■ V1 -Z -	
	49	290	29.32	5070	1.1	30	2KJ3104- ■ EM23- ■ ■ U1 -Z -	
	55	260	26.43	5320	1.2	30	2KJ3104- ■ EM23- ■ ■ T1 -Z -	
	59	240	24.39	5230	1.3	30	2KJ3104- ■ EM23- ■ ■ S1 -Z -	
	65	220	22.27	5120	1.4	30	2KJ3104- ■ EM23- ■ ■ R1 -Z -	
	78	183	18.48	4910	1.7	30	2KJ3104- ■ EM23- ■ ■ Q1 -Z -	
	83	172	17.39	4840	1.9	30	2KJ3104- ■ EM23- ■ ■ P1 -Z -	
	88	163	16.42	4770	2	30	2KJ3104- ■ EM23- ■ ■ N1 -Z -	
	103	139	13.98	4580	2.3	30	2KJ3104- ■ EM23- ■ ■ M1 -Z -	
	121	119	11.97	4400	2.7	30	2KJ3104- ■ EM23- ■ ■ L1 -Z -	
	137	104	10.53	4260	3.1	30	2KJ3104- ■ EM23- ■ ■ K1 -Z -	
	163	88	8.88	4060	3.6	30	2KJ3104- ■ EM23- ■ ■ J1 -Z -	
	187	77	7.74	3910	4.2	30	2KJ3104- ■ EM23- ■ ■ H1 -Z -	
	189	76	7.64	3870	3.9	30	2KJ3104- ■ EM23- ■ ■ G1 -Z -	
	200	72	7.21	3800	4.1	30	2KJ3104- ■ EM23- ■ ■ F1 -Z -	
	235	61	6.14	3640	4.4	30	2KJ3104- ■ EM23- ■ ■ E1 -Z -	
275	52	5.26	3480	4.7	30	2KJ3104- ■ EM23- ■ ■ D1 -Z -		
313	46	4.62	3350	4.9	30	2KJ3104- ■ EM23- ■ ■ C1 -Z -		
371	39	3.90	3180	5.3	30	2KJ3104- ■ EM23- ■ ■ B1 -Z -		
	Z.49-LE90SM2P							
	157	91	18.48	4100	3.5	27	2KJ3104- ■ EK23- ■ ■ Q1 -Z P00	
167	86	17.39	4030	3.7	27	2KJ3104- ■ EK23- ■ ■ P1 -Z P00		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)		
1.5	Z.49-LE90SM2P								
	177	81	16.42	3970	4	27	2KJ3104- ■ EK23- ■ ■ N1	-Z	P00
	Z.39-FZ90LBA6TV								
	60	235	24.82	2110	0.84	16	2KJ3103- ■ ES25- ■ ■ R1	-Z	P01
	69	205	21.74	2460	0.96	16	2KJ3103- ■ ES25- ■ ■ Q1	-Z	P01
	75	191	20.07	2590	1.0	16	2KJ3103- ■ ES25- ■ ■ P1	-Z	P01
	84	169	17.77	2820	1.2	16	2KJ3103- ■ ES25- ■ ■ N1	-Z	P01
	101	141	14.79	3060	1.4	16	2KJ3103- ■ ES25- ■ ■ M1	-Z	P01
	108	132	13.92	3130	1.4	16	2KJ3103- ■ ES25- ■ ■ L1	-Z	P01
	120	119	12.47	3210	1.5	16	2KJ3103- ■ ES25- ■ ■ K1	-Z	P01
	141	101	10.62	3310	1.7	16	2KJ3103- ■ ES25- ■ ■ J1	-Z	P01
	165	86	9.10	3370	1.8	16	2KJ3103- ■ ES25- ■ ■ H1	-Z	P01
	191	74	7.84	3380	2.0	16	2KJ3103- ■ ES25- ■ ■ G1	-Z	P01
	232	61	6.46	3010	2.4	16	2KJ3103- ■ ES25- ■ ■ F1	-Z	P01
	247	58	6.08	3000	2.5	16	2KJ3103- ■ ES25- ■ ■ E1	-Z	P01
	275	52	5.45	3000	2.7	16	2KJ3103- ■ ES25- ■ ■ D1	-Z	P01
	323	44	4.64	3000	2.9	16	2KJ3103- ■ ES25- ■ ■ C1	-Z	P01
	377	38	3.98	2950	3.2	16	2KJ3103- ■ ES25- ■ ■ B1	-Z	P01
	437	32	3.43	2930	3.4	16	2KJ3103- ■ ES25- ■ ■ A1	-Z	P01
	Z.39-LE90ZLR4P								
	58	245	24.82	1420	0.81	21	2KJ3103- ■ EM23- ■ ■ R1	-Z	-
	66	215	21.74	1840	0.93	21	2KJ3103- ■ EM23- ■ ■ Q1	-Z	-
	72	199	20.07	2050	1	21	2KJ3103- ■ EM23- ■ ■ P1	-Z	-
	81	176	17.77	2350	1.1	21	2KJ3103- ■ EM23- ■ ■ N1	-Z	-
	98	147	14.79	2670	1.3	21	2KJ3103- ■ EM23- ■ ■ M1	-Z	-
	104	138	13.92	2770	1.4	21	2KJ3103- ■ EM23- ■ ■ L1	-Z	-
116	124	12.47	2890	1.5	21	2KJ3103- ■ EM23- ■ ■ K1	-Z	-	
136	105	10.62	3060	1.6	21	2KJ3103- ■ EM23- ■ ■ J1	-Z	-	
159	90	9.10	3150	1.8	21	2KJ3103- ■ EM23- ■ ■ H1	-Z	-	
184	78	7.84	3180	1.9	21	2KJ3103- ■ EM23- ■ ■ G1	-Z	-	
224	64	6.46	2810	2.3	21	2KJ3103- ■ EM23- ■ ■ F1	-Z	-	
238	60	6.08	2840	2.4	21	2KJ3103- ■ EM23- ■ ■ E1	-Z	-	
265	54	5.45	2850	2.6	21	2KJ3103- ■ EM23- ■ ■ D1	-Z	-	
311	46	4.64	2870	2.8	21	2KJ3103- ■ EM23- ■ ■ C1	-Z	-	
363	40	3.98	2840	3.1	21	2KJ3103- ■ EM23- ■ ■ B1	-Z	-	
421	34	3.43	2830	3.3	21	2KJ3103- ■ EM23- ■ ■ A1	-Z	-	
Z.39-LE90SM2P									
164	88	17.77	3140	2.3	18	2KJ3103- ■ EK23- ■ ■ N1	-Z	P00	
197	73	14.79	3200	2.7	18	2KJ3103- ■ EK23- ■ ■ M1	-Z	P00	
209	68	13.92	3220	2.8	18	2KJ3103- ■ EK23- ■ ■ L1	-Z	P00	
233	61	12.47	3220	2.9	18	2KJ3103- ■ EK23- ■ ■ K1	-Z	P00	
274	52	10.62	3200	3.2	18	2KJ3103- ■ EK23- ■ ■ J1	-Z	P00	
320	45	9.10	3140	3.5	18	2KJ3103- ■ EK23- ■ ■ H1	-Z	P00	
371	39	7.84	3010	3.8	18	2KJ3103- ■ EK23- ■ ■ G1	-Z	P00	
450	32	6.46	2810	4.6	18	2KJ3103- ■ EK23- ■ ■ F1	-Z	P00	
479	30	6.08	2790	4.9	18	2KJ3103- ■ EK23- ■ ■ E1	-Z	P00	
534	27	5.45	2700	5.2	18	2KJ3103- ■ EK23- ■ ■ D1	-Z	P00	
627	23	4.64	2580	5.7	18	2KJ3103- ■ EK23- ■ ■ C1	-Z	P00	
731	20	3.98	2460	6.2	18	2KJ3103- ■ EK23- ■ ■ B1	-Z	P00	
Z.29-FZ90LBA6TV									
85	168	17.67	1550	0.83	15	2KJ3102- ■ ES25- ■ ■ R1	-Z	P01	
95	150	15.75	1770	0.93	15	2KJ3102- ■ ES25- ■ ■ Q1	-Z	P01	
103	138	14.54	1920	0.86	15	2KJ3102- ■ ES25- ■ ■ P1	-Z	P01	
118	121	12.73	2100	1.2	15	2KJ3102- ■ ES25- ■ ■ N1	-Z	P01	
134	106	11.16	2240	1.3	15	2KJ3102- ■ ES25- ■ ■ M1	-Z	P01	
148	96	10.12	2330	1.4	15	2KJ3102- ■ ES25- ■ ■ L1	-Z	P01	
157	91	9.53	2350	1.5	15	2KJ3102- ■ ES25- ■ ■ K1	-Z	P01	
179	80	8.40	2430	1.7	15	2KJ3102- ■ ES25- ■ ■ J1	-Z	P01	
206	69	7.29	2450	1.9	15	2KJ3102- ■ ES25- ■ ■ H1	-Z	P01	
217	66	6.92	2220	1.1	15	2KJ3102- ■ ES25- ■ ■ G1	-Z	P01	
248	57	6.06	2280	1.7	15	2KJ3102- ■ ES25- ■ ■ F1	-Z	P01	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.5	Z.29-FZ90LBA6TV							
	282	50	5.31	2210	1.8	15	2KJ3102- ES25- E1 -Z	P01
	311	46	4.82	2160	1.9	15	2KJ3102- ES25- D1 -Z	P01
	330	43	4.54	2130	1.9	15	2KJ3102- ES25- C1 -Z	P01
	375	38	4.00	2060	2.0	15	2KJ3102- ES25- B1 -Z	P01
	432	33	3.47	1990	2.1	15	2KJ3102- ES25- A1 -Z	P01
	Z.29-LE90ZLR4P							
	82	175	17.67	1170	0.8	20	2KJ3102- EM23- R1 -Z	-
	92	156	15.75	1450	0.9	20	2KJ3102- EM23- Q1 -Z	-
	99	144	14.54	1620	0.83	20	2KJ3102- EM23- P1 -Z	-
114	126	12.73	1860	1.1	20	2KJ3102- EM23- M1 -Z	-	
129	111	11.16	2040	1.3	20	2KJ3102- EM23- N1 -Z	-	
143	100	10.12	2170	1.4	20	2KJ3102- EM23- L1 -Z	-	
152	94	9.53	2230	1.5	20	2KJ3102- EM23- K1 -Z	-	
172	83	8.40	2330	1.7	20	2KJ3102- EM23- J1 -Z	-	
198	72	7.29	2370	1.8	20	2KJ3102- EM23- H1 -Z	-	
209	69	6.92	2100	1.1	20	2KJ3102- EM23- G1 -Z	-	
238	60	6.06	2190	1.7	20	2KJ3102- EM23- F1 -Z	-	
272	53	5.31	2130	1.7	20	2KJ3102- EM23- E1 -Z	-	
300	48	4.82	2090	1.8	20	2KJ3102- EM23- D1 -Z	-	
318	45	4.54	2060	1.9	20	2KJ3102- EM23- C1 -Z	-	
361	40	4.00	1990	1.9	20	2KJ3102- EM23- B1 -Z	-	
416	34	3.47	1930	2	20	2KJ3102- EM23- A1 -Z	-	
Z.29-LE90SM2P								
165	87	17.67	2290	1.6	17	2KJ3102- EK23- R1 -Z	P00	
185	78	15.75	2350	1.8	17	2KJ3102- EK23- Q1 -Z	P00	
200	72	14.54	2360	1.7	17	2KJ3102- EK23- P1 -Z	P00	
229	63	12.73	2290	2.2	17	2KJ3102- EK23- N1 -Z	P00	
261	55	11.16	2220	2.5	17	2KJ3102- EK23- M1 -Z	P00	
288	50	10.12	2170	2.8	17	2KJ3102- EK23- L1 -Z	P00	
305	47	9.53	2140	3	17	2KJ3102- EK23- K1 -Z	P00	
346	41	8.40	2070	3.3	17	2KJ3102- EK23- J1 -Z	P00	
399	36	7.29	2000	3.6	17	2KJ3102- EK23- H1 -Z	P00	
421	34	6.92	1920	2.2	17	2KJ3102- EK23- G1 -Z	P00	
480	30	6.06	1860	3.4	17	2KJ3102- EK23- F1 -Z	P00	
548	26	5.31	1800	3.5	17	2KJ3102- EK23- E1 -Z	P00	
604	24	4.82	1750	3.6	17	2KJ3102- EK23- D1 -Z	P00	
641	22	4.54	1720	3.8	17	2KJ3102- EK23- C1 -Z	P00	
728	20	4.00	1660	3.9	17	2KJ3102- EK23- B1 -Z	P00	
839	17	3.47	1600	4.1	17	2KJ3102- EK23- A1 -Z	P00	
E.89-FZ90LBA6TV								
155	92	9.67	8000	3.0	40	2KJ3004- ES25- T1 -Z	P01	
172	83	8.73	8000	3.4	40	2KJ3004- ES25- S1 -Z	P01	
189	75	7.92	8000	3.7	40	2KJ3004- ES25- R1 -Z	P01	
205	69	7.31	8000	3.7	40	2KJ3004- ES25- Q1 -Z	P01	
226	63	6.64	8000	4.1	40	2KJ3004- ES25- P1 -Z	P01	
284	50	5.29	8000	4.2	40	2KJ3004- ES25- M1 -Z	P01	
E.89-LE90ZLR4P								
149	96	9.67	8000	2.9	49	2KJ3004- EM23- T1 -Z	-	
166	86	8.73	8000	3.2	49	2KJ3004- EM23- S1 -Z	-	
182	78	7.92	8000	3.6	49	2KJ3004- EM23- R1 -Z	-	
198	72	7.31	8000	3.6	49	2KJ3004- EM23- Q1 -Z	-	
218	66	6.64	8000	3.9	49	2KJ3004- EM23- P1 -Z	-	
273	52	5.29	8000	4	49	2KJ3004- EM23- M1 -Z	-	
E.69-FZ90LBA6TV								
161	88	9.30	6100	1.4	28	2KJ3003- ES25- S1 -Z	P01	
178	80	8.45	6100	1.3	28	2KJ3003- ES25- R1 -Z	P01	
198	72	7.58	6100	2.8	28	2KJ3003- ES25- Q1 -Z	P01	
220	65	6.82	6100	2.6	28	2KJ3003- ES25- P1 -Z	P01	
243	58	6.17	6100	3.5	28	2KJ3003- ES25- N1 -Z	P01	
264	54	5.69	6100	3.0	28	2KJ3003- ES25- M1 -Z	P01	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.5	E.69-FZ90LBA6TV							
	288	49	5.21	6100	4.0	28	2KJ3003- ES25- L1 -Z	P01
	342	41	4.38	6100	4.8	28	2KJ3003- ES25- K1 -Z	P01
	364	39	4.12	6100	4.2	28	2KJ3003- ES25- J1 -Z	P01
	E.69-LE90ZLR4P							
	155	92	9.30	6100	1.3	33	2KJ3003- EM23- S1 -Z	-
	171	84	8.45	6100	1.3	33	2KJ3003- EM23- R1 -Z	-
	191	75	7.58	6100	2.7	33	2KJ3003- EM23- Q1 -Z	-
	212	68	6.82	6100	2.5	33	2KJ3003- EM23- P1 -Z	-
	234	61	6.17	6100	3.4	33	2KJ3003- EM23- N1 -Z	-
	254	56	5.69	6100	2.9	33	2KJ3003- EM23- M1 -Z	-
	277	52	5.21	6100	3.9	33	2KJ3003- EM23- L1 -Z	-
	330	43	4.38	6100	4.6	33	2KJ3003- EM23- K1 -Z	-
	351	41	4.12	6100	4	33	2KJ3003- EM23- J1 -Z	-
	382	38	3.78	6100	5.3	33	2KJ3003- EM23- H1 -Z	-
	E.49-FZ90LBA6TV							
	155	92	9.70	3680	0.93	21	2KJ3002- ES25- S1 -Z	P01
	170	84	8.82	3680	1.3	21	2KJ3002- ES25- R1 -Z	P01
	200	71	7.50	3680	1.5	21	2KJ3002- ES25- Q1 -Z	P01
	220	65	6.82	3680	1.6	21	2KJ3002- ES25- P1 -Z	P01
	247	58	6.08	3680	1.8	21	2KJ3002- ES25- N1 -Z	P01
	275	52	5.45	3680	2.0	21	2KJ3002- ES25- M1 -Z	P01
	305	46	4.92	3680	2.2	21	2KJ3002- ES25- L1 -Z	P01
	330	43	4.54	3680	2.4	21	2KJ3002- ES25- K1 -Z	P01
	362	39	4.14	3680	2.6	21	2KJ3002- ES25- J1 -Z	P01
	436	32	3.44	3680	3.1	21	2KJ3002- ES25- H1 -Z	P01
	463	30	3.24	3680	3.3	21	2KJ3002- ES25- G1 -Z	P01
	490	29	3.06	3680	3.5	21	2KJ3002- ES25- F1 -Z	P01
	577	24	2.60	3680	4.1	21	2KJ3002- ES25- E1 -Z	P01
	673	21	2.23	3500	4.8	21	2KJ3002- ES25- D1 -Z	P01
	765	18	1.96	3370	5.5	21	2KJ3002- ES25- C1 -Z	P01
	909	15	1.65	3190	6.5	21	2KJ3002- ES25- B1 -Z	P01
	E.49-LE90ZLR4P							
	149	96	9.70	4000	0.89	26	2KJ3002- EM23- S1 -Z	-
	164	87	8.82	4000	1.2	26	2KJ3002- EM23- R1 -Z	-
	193	74	7.50	4000	1.4	26	2KJ3002- EM23- Q1 -Z	-
	212	68	6.82	4000	1.5	26	2KJ3002- EM23- P1 -Z	-
	238	60	6.08	4000	1.7	26	2KJ3002- EM23- N1 -Z	-
	265	54	5.45	4000	1.9	26	2KJ3002- EM23- M1 -Z	-
	294	49	4.92	4000	2.1	26	2KJ3002- EM23- L1 -Z	-
	318	45	4.54	4000	2.3	26	2KJ3002- EM23- K1 -Z	-
	349	41	4.14	4000	2.5	26	2KJ3002- EM23- J1 -Z	-
	420	34	3.44	4000	3	26	2KJ3002- EM23- H1 -Z	-
	446	32	3.24	4000	3.1	26	2KJ3002- EM23- G1 -Z	-
	472	30	3.06	4000	3.3	26	2KJ3002- EM23- F1 -Z	-
	556	26	2.60	3860	4	26	2KJ3002- EM23- E1 -Z	-
	648	22	2.23	3690	4.6	26	2KJ3002- EM23- D1 -Z	-
	737	19	1.96	3540	5.3	26	2KJ3002- EM23- C1 -Z	-
	876	16	1.65	3360	6.3	26	2KJ3002- EM23- B1 -Z	-
	E.39-FZ90LBA6TV							
	295	48	5.09	2460	0.82	17	2KJ3001- ES25- M1 -Z	P01
	333	42	4.50	2460	1.1	17	2KJ3001- ES25- L1 -Z	P01
	367	39	4.09	2460	1.2	17	2KJ3001- ES25- K1 -Z	P01
	419	34	3.58	2460	1.7	17	2KJ3001- ES25- J1 -Z	P01
	453	31	3.31	2460	1.8	17	2KJ3001- ES25- H1 -Z	P01
	512	27	2.93	2460	2.3	17	2KJ3001- ES25- G1 -Z	P01
	615	23	2.44	2460	2.8	17	2KJ3001- ES25- F1 -Z	P01
	655	21	2.29	2460	3.0	17	2KJ3001- ES25- E1 -Z	P01
	728	19	2.06	2460	3.4	17	2KJ3001- ES25- D1 -Z	P01
	857	16	1.75	2350	3.9	17	2KJ3001- ES25- C1 -Z	P01
	1000	14	1.50	2240	4.3	17	2KJ3001- ES25- B1 -Z	P01

Article No. supplement			
Shaft design	1 or 9	see page 10/48	
Frequency and voltage	2 or 9	see page 11/2	
Gearbox mounting type	A, B, F or H	see page 10/42	

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
1.5	E.39-FZ90LBA6TV							
	1163	12	1.29	2140	4.4	17	2KJ3001- ES25- A1 -Z	P01
	E.39-LE90ZLR4P							
	321	45	4.50	3000	1.1	22	2KJ3001- EM23- L1 -Z	-
	353	40	4.09	3000	1.2	22	2KJ3001- EM23- K1 -Z	-
	404	36	3.58	3000	1.6	22	2KJ3001- EM23- J1 -Z	-
	437	33	3.31	3000	1.8	22	2KJ3001- EM23- H1 -Z	-
	493	29	2.93	3000	2.2	22	2KJ3001- EM23- G1 -Z	-
	592	24	2.44	2870	2.7	22	2KJ3001- EM23- F1 -Z	-
	631	23	2.29	2820	2.9	22	2KJ3001- EM23- E1 -Z	-
	701	20	2.06	2730	3.2	22	2KJ3001- EM23- D1 -Z	-
	826	17	1.75	2600	3.8	22	2KJ3001- EM23- C1 -Z	-
	963	15	1.50	2480	4.1	22	2KJ3001- EM23- B1 -Z	-
	1120	13	1.29	2370	4.2	22	2KJ3001- EM23- A1 -Z	-
2.2	D.169-LE132SQA6P							
	3	7050	327.18	72700	2	487	2KJ3213- HG23- V1 -Z	P01
	D.149-LE132SQA6P							
	3	7070	328.38	51600	1.1	309	2KJ3212- HG23- W1 -Z	P01
	3.5	6050	281.04	52100	1.3	309	2KJ3212- HG23- V1 -Z	P01
	3.7	5700	264.51	52300	1.4	309	2KJ3212- HG23- U1 -Z	P01
	3.9	5340	247.95	52400	1.5	309	2KJ3212- HG23- T1 -Z	P01
	D.149-LE100ZLSA4P							
	4.5	4700	328.38	52700	1.7	278	2KJ3212- FN23- W1 -Z	-
	5.2	4030	281.04	53100	2	278	2KJ3212- FN23- V1 -Z	-
	5.5	3790	264.51	53200	2.1	278	2KJ3212- FN23- U1 -Z	-
	D.129-FZ90LDA6TV							
	4.0	5220	373.00	29400	0.96	166	2KJ3211- ET25- S1 -Z	P01
	4.4	4820	344.17	29400	1.0	166	2KJ3211- ET25- R1 -Z	P01
	4.7	4430	316.90	29400	1.1	166	2KJ3211- ET25- Q1 -Z	P01
	5.6	3780	270.24	29400	1.3	166	2KJ3211- ET25- P1 -Z	P01
	5.9	3560	254.34	29400	1.4	166	2KJ3211- ET25- N1 -Z	P01
	6.4	3300	236.03	29400	1.5	166	2KJ3211- ET25- M1 -Z	P01
	7.2	2920	208.67	29400	1.7	166	2KJ3211- ET25- L1 -Z	P01
	8.1	2600	186.28	29400	1.9	166	2KJ3211- ET25- K1 -Z	P01
	8.9	2340	167.63	29400	2.1	166	2KJ3211- ET25- J1 -Z	P01
	D.129-LE132SQA6P							
	3.6	5820	270.24	26500	0.86	224	2KJ3211- HG23- P1 -Z	P01
	D.129-LE100ZLSA4P							
	3.9	5340	373.00	26800	0.93	194	2KJ3211- FN23- S1 -Z	-
	4.3	4930	344.17	27100	1	194	2KJ3211- FN23- R1 -Z	-
	4.6	4540	316.90	27300	1.1	194	2KJ3211- FN23- Q1 -Z	-
	5.4	3870	270.24	27700	1.3	194	2KJ3211- FN23- P1 -Z	-
	5.8	3640	254.34	27800	1.4	194	2KJ3211- FN23- N1 -Z	-
	6.2	3380	236.03	28000	1.5	194	2KJ3211- FN23- M1 -Z	-
	7	2990	208.67	28200	1.7	194	2KJ3211- FN23- L1 -Z	-
	7.9	2670	186.28	28400	1.9	194	2KJ3211- FN23- K1 -Z	-
	8.7	2400	167.63	28500	2.1	194	2KJ3211- FN23- J1 -Z	-
	D.109-FZ90LDA6TV							
	5.7	3690	263.74	20200	0.84	105	2KJ3210- ET25- Q1 -Z	P01
	6.3	3350	239.75	20200	0.92	105	2KJ3210- ET25- P1 -Z	P01
	7.4	2840	203.01	20200	1.1	105	2KJ3210- ET25- N1 -Z	P01
	7.9	2670	191.07	20200	1.2	105	2KJ3210- ET25- M1 -Z	P01
	8.5	2470	176.45	20200	1.3	105	2KJ3210- ET25- L1 -Z	P01
	9.6	2190	157.00	20200	1.4	105	2KJ3210- ET25- K1 -Z	P01
	10.8	1950	139.44	20200	1.6	105	2KJ3210- ET25- J1 -Z	P01
	12.0	1740	124.82	20200	1.8	105	2KJ3210- ET25- H1 -Z	P01
14.1	1490	106.70	20200	2.1	105	2KJ3210- ET25- G1 -Z	P01	
15.7	1330	95.28	20200	2.3	105	2KJ3210- ET25- F1 -Z	P01	
D.109-LE100ZLSA4P								
5.6	3780	263.74	20100	0.82	130	2KJ3210- FN23- Q1 -Z	-	
6.1	3430	239.75	20200	0.9	130	2KJ3210- FN23- P1 -Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
2.2	D.109-LE100ZLSA4P							
	7.2	2910	203.01	20200	1.1	130	2KJ3210- ■ FN23- ■ ■ N1 -Z -	
	7.7	2740	191.07	20200	1.1	130	2KJ3210- ■ FN23- ■ ■ M1 -Z -	
	8.3	2530	176.45	20200	1.2	130	2KJ3210- ■ FN23- ■ ■ L1 -Z -	
	9.3	2250	157.00	20200	1.4	130	2KJ3210- ■ FN23- ■ ■ K1 -Z -	
	11	2000	139.44	20200	1.6	130	2KJ3210- ■ FN23- ■ ■ J1 -Z -	
	12	1790	124.82	20200	1.7	130	2KJ3210- ■ FN23- ■ ■ H1 -Z -	
	14	1530	106.70	20200	2	130	2KJ3210- ■ FN23- ■ ■ G1 -Z -	
	D.89-FZ90LDA6TV							
	10.2	2050	146.59	18600	0.82	66	2KJ3208- ■ ET25- ■ ■ K1 -Z P01	
	10.9	1930	137.97	18600	0.87	66	2KJ3208- ■ ET25- ■ ■ J1 -Z P01	
	11.9	1770	126.58	18600	0.95	66	2KJ3208- ■ ET25- ■ ■ H1 -Z P01	
	13.6	1540	110.57	18600	1.1	66	2KJ3208- ■ ET25- ■ ■ G1 -Z P01	
	15.2	1380	98.99	18600	1.2	66	2KJ3208- ■ ET25- ■ ■ F1 -Z P01	
	17.3	1210	86.56	18600	1.4	66	2KJ3208- ■ ET25- ■ ■ E1 -Z P01	
	20	1040	74.30	18600	1.6	66	2KJ3208- ■ ET25- ■ ■ D1 -Z P01	
	23	915	65.67	18600	1.8	66	2KJ3208- ■ ET25- ■ ■ C1 -Z P01	
	D.89-LE100ZLSA4P							
	10	2100	146.59	17900	0.8	88	2KJ3208- ■ FN23- ■ ■ K1 -Z -	
	11	1970	137.97	18500	0.85	88	2KJ3208- ■ FN23- ■ ■ J1 -Z -	
	12	1810	126.58	18500	0.93	88	2KJ3208- ■ FN23- ■ ■ H1 -Z -	
	13	1580	110.57	18500	1.1	88	2KJ3208- ■ FN23- ■ ■ G1 -Z -	
	15	1420	98.99	18500	1.2	88	2KJ3208- ■ FN23- ■ ■ F1 -Z -	
	17	1240	86.56	18500	1.4	88	2KJ3208- ■ FN23- ■ ■ E1 -Z -	
	20	1060	74.30	18500	1.6	88	2KJ3208- ■ FN23- ■ ■ D1 -Z -	
	22	940	65.67	18500	1.8	88	2KJ3208- ■ FN23- ■ ■ C1 -Z -	
	Z.89-FZ90LDA6TV							
	26	800	57.36	18600	2.1	65	2KJ3108- ■ ET25- ■ ■ A2 -Z P01	
	29	725	51.78	18600	2.3	65	2KJ3108- ■ ET25- ■ ■ X1 -Z P01	
	Z.89-LE100ZLSA4P							
	26	820	57.36	18500	2	87	2KJ3108- ■ FN23- ■ ■ A2 -Z -	
	28	740	51.78	18500	2.3	87	2KJ3108- ■ FN23- ■ ■ X1 -Z -	
	31	670	46.97	18500	2.5	87	2KJ3108- ■ FN23- ■ ■ W1 -Z -	
	D.79-FZ90LDA6TV							
	22	930	66.67	14600	0.90	44	2KJ3207- ■ ET25- ■ ■ C1 -Z P01	
	D.79-LE100ZLSA4P							
	22	955	66.67	12200	0.88	65	2KJ3207- ■ FN23- ■ ■ C1 -Z -	
	26	805	56.25	13400	1	65	2KJ3207- ■ FN23- ■ ■ B1 -Z -	
	30	700	49.02	13600	1.2	65	2KJ3207- ■ FN23- ■ ■ A1 -Z -	
	Z.79-FZ90LDA6TV							
	28	760	54.47	14700	1.1	43	2KJ3107- ■ ET25- ■ ■ A2 -Z P01	
	30	690	49.52	14700	1.2	43	2KJ3107- ■ ET25- ■ ■ X1 -Z P01	
	34	620	44.42	14700	1.4	43	2KJ3107- ■ ET25- ■ ■ W1 -Z P01	
	38	555	39.94	14700	1.5	43	2KJ3107- ■ ET25- ■ ■ V1 -Z P01	
	42	505	36.12	14700	1.7	43	2KJ3107- ■ ET25- ■ ■ U1 -Z P01	
	45	465	33.34	14700	1.8	43	2KJ3107- ■ ET25- ■ ■ T1 -Z P01	
	49	425	30.54	14700	2.0	43	2KJ3107- ■ ET25- ■ ■ S1 -Z P01	
	59	355	25.62	14700	2.3	43	2KJ3107- ■ ET25- ■ ■ R1 -Z P01	
	62	335	24.12	14700	2.5	43	2KJ3107- ■ ET25- ■ ■ Q1 -Z P01	
	68	305	22.13	14700	2.7	43	2KJ3107- ■ ET25- ■ ■ P1 -Z P01	
	78	270	19.33	14400	3.1	43	2KJ3107- ■ ET25- ■ ■ N1 -Z P01	
	Z.79-LE100ZLSA4P							
	33	635	44.42	13600	1.3	64	2KJ3107- ■ FN23- ■ ■ W1 -Z -	
	37	570	39.94	13700	1.5	64	2KJ3107- ■ FN23- ■ ■ V1 -Z -	
	41	515	36.12	13800	1.6	64	2KJ3107- ■ FN23- ■ ■ U1 -Z -	
	44	475	33.34	13900	1.8	64	2KJ3107- ■ FN23- ■ ■ T1 -Z -	
	48	435	30.54	13900	1.9	64	2KJ3107- ■ FN23- ■ ■ S1 -Z -	
	57	365	25.62	14000	2.3	64	2KJ3107- ■ FN23- ■ ■ R1 -Z -	
	61	345	24.12	14000	2.4	64	2KJ3107- ■ FN23- ■ ■ Q1 -Z -	
	66	315	22.13	14100	2.6	64	2KJ3107- ■ FN23- ■ ■ P1 -Z -	
	76	275	19.33	13600	3	64	2KJ3107- ■ FN23- ■ ■ N1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
2.2	D.69-FZ90LDA6TV							
	28	745	53.43	11900	0.80	35	2KJ3206- ■ ET25- ■ ■ B1 -Z	P01
	D.69-LE100ZLSA4P							
	32	660	46.01	10800	0.91	55	2KJ3206- ■ FN23- ■ ■ A1 -Z	-
	Z.69-FZ90LDA6TV							
	32	660	47.14	12000	0.91	35	2KJ3106- ■ ET25- ■ ■ W1 -Z	P01
	35	600	42.86	12100	1.0	35	2KJ3106- ■ ET25- ■ ■ V1 -Z	P01
	39	535	38.24	12200	1.1	35	2KJ3106- ■ ET25- ■ ■ U1 -Z	P01
	44	480	34.29	12300	1.2	35	2KJ3106- ■ ET25- ■ ■ T1 -Z	P01
	49	430	30.90	12400	1.4	35	2KJ3106- ■ ET25- ■ ■ S1 -Z	P01
	53	395	28.53	12500	1.5	35	2KJ3106- ■ ET25- ■ ■ R1 -Z	P01
	58	360	26.04	12500	1.6	35	2KJ3106- ■ ET25- ■ ■ Q1 -Z	P01
	69	300	21.61	12200	2.0	35	2KJ3106- ■ ET25- ■ ■ P1 -Z	P01
	74	280	20.34	12000	2.1	35	2KJ3106- ■ ET25- ■ ■ N1 -Z	P01
	78	265	19.21	11800	2.2	35	2KJ3106- ■ ET25- ■ ■ M1 -Z	P01
	92	225	16.34	11300	2.6	35	2KJ3106- ■ ET25- ■ ■ L1 -Z	P01
	107	196	14.00	10800	3.1	35	2KJ3106- ■ ET25- ■ ■ K1 -Z	P01
	122	172	12.31	10400	3.5	35	2KJ3106- ■ ET25- ■ ■ J1 -Z	P01
	176	119	8.50	9290	3.7	35	2KJ3106- ■ ET25- ■ ■ F1 -Z	P01
	207	101	7.23	8840	4.4	35	2KJ3106- ■ ET25- ■ ■ E1 -Z	P01
Z.69-LE100ZLSA4P								
38	545	38.24	11100	1.1	55	2KJ3106- ■ FN23- ■ ■ U1 -Z	-	
43	490	34.29	11100	1.2	55	2KJ3106- ■ FN23- ■ ■ T1 -Z	-	
47	440	30.90	11200	1.4	55	2KJ3106- ■ FN23- ■ ■ S1 -Z	-	
51	405	28.53	11300	1.5	55	2KJ3106- ■ FN23- ■ ■ R1 -Z	-	
56	370	26.04	11300	1.6	55	2KJ3106- ■ FN23- ■ ■ Q1 -Z	-	
68	310	21.61	11400	1.9	55	2KJ3106- ■ FN23- ■ ■ P1 -Z	-	
72	290	20.34	11400	2.1	55	2KJ3106- ■ FN23- ■ ■ N1 -Z	-	
76	275	19.21	11500	2.2	55	2KJ3106- ■ FN23- ■ ■ M1 -Z	-	
90	230	16.34	11000	2.6	55	2KJ3106- ■ FN23- ■ ■ L1 -Z	-	
105	200	14.00	10500	3	55	2KJ3106- ■ FN23- ■ ■ K1 -Z	-	
119	177	12.31	10100	3.4	55	2KJ3106- ■ FN23- ■ ■ J1 -Z	-	
172	122	8.50	9070	3.7	55	2KJ3106- ■ FN23- ■ ■ F1 -Z	-	
203	104	7.23	8630	4.3	55	2KJ3106- ■ FN23- ■ ■ E1 -Z	-	
Z.59-FZ90LDA6TV								
37	560	40.06	6750	0.80	30	2KJ3105- ■ ET25- ■ ■ V1 -Z	P01	
42	500	35.74	6660	0.90	30	2KJ3105- ■ ET25- ■ ■ U1 -Z	P01	
47	445	32.05	6570	1.0	30	2KJ3105- ■ ET25- ■ ■ T1 -Z	P01	
52	400	28.89	6470	1.1	30	2KJ3105- ■ ET25- ■ ■ S1 -Z	P01	
56	370	26.66	6380	1.2	30	2KJ3105- ■ ET25- ■ ■ R1 -Z	P01	
62	340	24.34	6270	1.3	30	2KJ3105- ■ ET25- ■ ■ Q1 -Z	P01	
74	280	20.20	6050	1.6	30	2KJ3105- ■ ET25- ■ ■ P1 -Z	P01	
79	265	19.01	5970	1.7	30	2KJ3105- ■ ET25- ■ ■ N1 -Z	P01	
84	250	17.95	5890	1.8	30	2KJ3105- ■ ET25- ■ ■ M1 -Z	P01	
98	210	15.27	5690	2.1	30	2KJ3105- ■ ET25- ■ ■ L1 -Z	P01	
115	183	13.09	5480	2.5	30	2KJ3105- ■ ET25- ■ ■ K1 -Z	P01	
130	161	11.51	5300	2.8	30	2KJ3105- ■ ET25- ■ ■ J1 -Z	P01	
154	136	9.71	5080	3.3	30	2KJ3105- ■ ET25- ■ ■ H1 -Z	P01	
177	118	8.46	4900	3.8	30	2KJ3105- ■ ET25- ■ ■ G1 -Z	P01	
186	113	8.07	4810	3.6	30	2KJ3105- ■ ET25- ■ ■ F1 -Z	P01	
219	96	6.86	4600	4.3	30	2KJ3105- ■ ET25- ■ ■ E1 -Z	P01	
Z.59-LE100ZLSA4P								
41	510	35.74	6450	0.88	50	2KJ3105- ■ FN23- ■ ■ U1 -Z	-	
46	460	32.05	5980	0.98	50	2KJ3105- ■ FN23- ■ ■ T1 -Z	-	
51	410	28.89	6260	1.1	50	2KJ3105- ■ FN23- ■ ■ S1 -Z	-	
55	380	26.66	6170	1.2	50	2KJ3105- ■ FN23- ■ ■ R1 -Z	-	
60	345	24.34	6080	1.3	50	2KJ3105- ■ FN23- ■ ■ Q1 -Z	-	
73	290	20.20	5850	1.6	50	2KJ3105- ■ FN23- ■ ■ P1 -Z	-	
77	270	19.01	5790	1.7	50	2KJ3105- ■ FN23- ■ ■ N1 -Z	-	
82	255	17.95	5720	1.7	50	2KJ3105- ■ FN23- ■ ■ M1 -Z	-	
96	215	15.27	5520	2.1	50	2KJ3105- ■ FN23- ■ ■ L1 -Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
2.2	Z.59-LE100ZLSA4P							
	112	188	13.09	5310	2.4	50	2KJ3105- ■ FN23- ■ ■ K1 -Z -	
	127	165	11.51	5140	2.7	50	2KJ3105- ■ FN23- ■ ■ J1 -Z -	
	151	139	9.71	4930	3.2	50	2KJ3105- ■ FN23- ■ ■ H1 -Z -	
	173	121	8.46	4750	3.7	50	2KJ3105- ■ FN23- ■ ■ G1 -Z -	
	182	116	8.07	4660	3.5	50	2KJ3105- ■ FN23- ■ ■ F1 -Z -	
	214	98	6.86	4470	4.2	50	2KJ3105- ■ FN23- ■ ■ E1 -Z -	
	Z.59-LE90ZLR2P							
	153	137	19.01	4910	3.3	32	2KJ3105- ■ EM23- ■ ■ N1 -Z P00	
	162	130	17.95	4830	3.5	32	2KJ3105- ■ EM23- ■ ■ M1 -Z P00	
	191	110	15.27	4630	4.1	32	2KJ3105- ■ EM23- ■ ■ L1 -Z P00	
	Z.49-FZ90LDA6TV							
	57	370	26.43	4810	0.86	28	2KJ3104- ■ ET25- ■ ■ T1 -Z P01	
	62	340	24.39	4760	0.94	28	2KJ3104- ■ ET25- ■ ■ S1 -Z P01	
	67	310	22.27	4700	1.0	28	2KJ3104- ■ ET25- ■ ■ R1 -Z P01	
	81	255	18.48	4060	1.2	28	2KJ3104- ■ ET25- ■ ■ Q1 -Z P01	
	86	240	17.39	4220	1.3	28	2KJ3104- ■ ET25- ■ ■ P1 -Z P01	
	91	225	16.42	4410	1.4	28	2KJ3104- ■ ET25- ■ ■ N1 -Z P01	
	107	195	13.98	4300	1.6	28	2KJ3104- ■ ET25- ■ ■ M1 -Z P01	
	125	167	11.97	4160	1.9	28	2KJ3104- ■ ET25- ■ ■ L1 -Z P01	
	142	147	10.53	4030	2.2	28	2KJ3104- ■ ET25- ■ ■ K1 -Z P01	
169	124	8.88	3870	2.6	28	2KJ3104- ■ ET25- ■ ■ J1 -Z P01		
194	108	7.74	3740	3.0	28	2KJ3104- ■ ET25- ■ ■ H1 -Z P01		
196	107	7.64	3690	2.8	28	2KJ3104- ■ ET25- ■ ■ G1 -Z P01		
208	100	7.21	3640	2.9	28	2KJ3104- ■ ET25- ■ ■ F1 -Z P01		
244	86	6.14	3480	3.1	28	2KJ3104- ■ ET25- ■ ■ E1 -Z P01		
285	73	5.26	3350	3.3	28	2KJ3104- ■ ET25- ■ ■ D1 -Z P01		
325	64	4.62	3230	3.5	28	2KJ3104- ■ ET25- ■ ■ C1 -Z P01		
385	54	3.90	3080	3.8	28	2KJ3104- ■ ET25- ■ ■ B1 -Z P01		
441	47	3.40	2960	4.0	28	2KJ3104- ■ ET25- ■ ■ A1 -Z P01		
Z.49-LE100ZLSA4P								
55	375	26.43	4830	0.84	48	2KJ3104- ■ FN23- ■ ■ T1 -Z -		
60	350	24.39	4770	0.91	48	2KJ3104- ■ FN23- ■ ■ S1 -Z -		
66	315	22.27	4720	1	48	2KJ3104- ■ FN23- ■ ■ R1 -Z -		
79	265	18.48	4560	1.2	48	2KJ3104- ■ FN23- ■ ■ Q1 -Z -		
84	245	17.39	4170	1.3	48	2KJ3104- ■ FN23- ■ ■ P1 -Z -		
89	235	16.42	4230	1.4	48	2KJ3104- ■ FN23- ■ ■ N1 -Z -		
105	200	13.98	4320	1.6	48	2KJ3104- ■ FN23- ■ ■ M1 -Z -		
122	172	11.97	4170	1.9	48	2KJ3104- ■ FN23- ■ ■ L1 -Z -		
139	151	10.53	4050	2.1	48	2KJ3104- ■ FN23- ■ ■ K1 -Z -		
165	127	8.88	3890	2.5	48	2KJ3104- ■ FN23- ■ ■ J1 -Z -		
189	111	7.74	3750	2.9	48	2KJ3104- ■ FN23- ■ ■ H1 -Z -		
192	110	7.64	3700	2.7	48	2KJ3104- ■ FN23- ■ ■ G1 -Z -		
203	103	7.21	3650	2.8	48	2KJ3104- ■ FN23- ■ ■ F1 -Z -		
239	88	6.14	3500	3	48	2KJ3104- ■ FN23- ■ ■ E1 -Z -		
279	75	5.26	3360	3.2	48	2KJ3104- ■ FN23- ■ ■ D1 -Z -		
317	66	4.62	3250	3.4	48	2KJ3104- ■ FN23- ■ ■ C1 -Z -		
376	56	3.90	3090	3.7	48	2KJ3104- ■ FN23- ■ ■ B1 -Z -		
431	49	3.40	2970	3.9	48	2KJ3104- ■ FN23- ■ ■ A1 -Z -		
Z.49-LE90ZLR2P								
157	133	18.48	3930	2.4	30	2KJ3104- ■ EM23- ■ ■ Q1 -Z P00		
167	126	17.39	3870	2.5	30	2KJ3104- ■ EM23- ■ ■ P1 -Z P00		
177	119	16.42	3820	2.7	30	2KJ3104- ■ EM23- ■ ■ N1 -Z P00		
208	101	13.98	3660	3.2	30	2KJ3104- ■ EM23- ■ ■ M1 -Z P00		
243	86	11.97	3520	3.7	30	2KJ3104- ■ EM23- ■ ■ L1 -Z P00		
276	76	10.53	3390	4.2	30	2KJ3104- ■ EM23- ■ ■ K1 -Z P00		
328	64	8.88	3240	5	30	2KJ3104- ■ EM23- ■ ■ J1 -Z P00		
381	55	7.64	3080	5.3	30	2KJ3104- ■ EM23- ■ ■ G1 -Z P00		
Z.39-FZ90LDA6TV								
84	245	17.77	1100	0.80	19	2KJ3103- ■ ET25- ■ ■ N1 -Z P01		
101	205	14.79	1610	0.93	19	2KJ3103- ■ ET25- ■ ■ M1 -Z P01		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
2.2	Z.39-FZ90LDA6TV							
	108	194	13.92	1730	0.97	19	2KJ3103- ET25- L1 -Z	P01
	120	174	12.47	1960	1.0	19	2KJ3103- ET25- K1 -Z	P01
	141	148	10.62	2240	1.1	19	2KJ3103- ET25- J1 -Z	P01
	165	127	9.10	2440	1.2	19	2KJ3103- ET25- H1 -Z	P01
	191	109	7.84	2590	1.3	19	2KJ3103- ET25- G1 -Z	P01
	232	90	6.46	2190	1.6	19	2KJ3103- ET25- F1 -Z	P01
	247	85	6.08	2230	1.7	19	2KJ3103- ET25- E1 -Z	P01
	275	76	5.45	2320	1.8	19	2KJ3103- ET25- D1 -Z	P01
	323	64	4.64	2430	2.0	19	2KJ3103- ET25- C1 -Z	P01
	377	55	3.98	2470	2.2	19	2KJ3103- ET25- B1 -Z	P01
	437	48	3.43	2470	2.3	19	2KJ3103- ET25- A1 -Z	P01
	Z.39-LE100ZLSA4P							
	99	210	14.79	1070	0.91	36	2KJ3103- FN23- M1 -Z	-
105	200	13.92	1190	0.95	36	2KJ3103- FN23- L1 -Z	-	
117	179	12.47	1490	1	36	2KJ3103- FN23- K1 -Z	-	
138	152	10.62	1860	1.1	36	2KJ3103- FN23- J1 -Z	-	
161	131	9.10	2100	1.2	36	2KJ3103- FN23- H1 -Z	-	
187	112	7.84	2310	1.3	36	2KJ3103- FN23- G1 -Z	-	
227	93	6.46	1880	1.6	36	2KJ3103- FN23- F1 -Z	-	
241	87	6.08	1970	1.7	36	2KJ3103- FN23- E1 -Z	-	
269	78	5.45	2080	1.8	36	2KJ3103- FN23- D1 -Z	-	
316	66	4.64	2220	2	36	2KJ3103- FN23- C1 -Z	-	
368	57	3.98	2290	2.1	36	2KJ3103- FN23- B1 -Z	-	
427	49	3.43	2340	2.3	36	2KJ3103- FN23- A1 -Z	-	
Z.39-LE90ZLR2P								
164	128	17.77	2140	1.6	21	2KJ3103- EM23- N1 -Z	P00	
197	107	14.79	2350	1.8	21	2KJ3103- EM23- M1 -Z	P00	
209	101	13.92	2400	1.9	21	2KJ3103- EM23- L1 -Z	P00	
233	90	12.47	2500	2	21	2KJ3103- EM23- K1 -Z	P00	
274	77	10.62	2570	2.2	21	2KJ3103- EM23- J1 -Z	P00	
320	66	9.10	2620	2.4	21	2KJ3103- EM23- H1 -Z	P00	
371	57	7.84	2640	2.6	21	2KJ3103- EM23- G1 -Z	P00	
450	47	6.46	2340	3.1	21	2KJ3103- EM23- F1 -Z	P00	
479	44	6.08	2350	3.3	21	2KJ3103- EM23- E1 -Z	P00	
534	39	5.45	2380	3.6	21	2KJ3103- EM23- D1 -Z	P00	
627	34	4.64	2350	3.9	21	2KJ3103- EM23- C1 -Z	P00	
731	29	3.98	2330	4.2	21	2KJ3103- EM23- B1 -Z	P00	
848	25	3.43	2300	4.5	21	2KJ3103- EM23- A1 -Z	P00	
Z.29-FZ90LDA6TV								
134	156	11.16	1050	0.90	18	2KJ3102- ET25- M1 -Z	P01	
148	141	10.12	1250	0.99	18	2KJ3102- ET25- L1 -Z	P01	
157	133	9.53	1350	1.0	18	2KJ3102- ET25- K1 -Z	P01	
179	117	8.40	1550	1.2	18	2KJ3102- ET25- J1 -Z	P01	
206	102	7.29	1700	1.3	18	2KJ3102- ET25- H1 -Z	P01	
248	84	6.06	1540	1.2	18	2KJ3102- ET25- F1 -Z	P01	
282	74	5.31	1660	1.2	18	2KJ3102- ET25- E1 -Z	P01	
311	67	4.82	1730	1.3	18	2KJ3102- ET25- D1 -Z	P01	
330	63	4.54	1770	1.3	18	2KJ3102- ET25- C1 -Z	P01	
375	56	4.00	1820	1.4	18	2KJ3102- ET25- B1 -Z	P01	
432	48	3.47	1890	1.4	18	2KJ3102- ET25- A1 -Z	P01	
Z.29-LE100ZLSA4P								
131	160	11.16	715	0.87	34	2KJ3102- FN23- M1 -Z	-	
145	145	10.12	955	0.96	34	2KJ3102- FN23- L1 -Z	-	
154	137	9.53	1070	1	34	2KJ3102- FN23- K1 -Z	-	
174	120	8.40	1330	1.1	34	2KJ3102- FN23- J1 -Z	-	
201	105	7.29	1520	1.2	34	2KJ3102- FN23- H1 -Z	-	
242	87	6.06	1340	1.2	34	2KJ3102- FN23- F1 -Z	-	
276	76	5.31	1510	1.2	34	2KJ3102- FN23- E1 -Z	-	
304	69	4.82	1600	1.2	34	2KJ3102- FN23- D1 -Z	-	
323	65	4.54	1650	1.3	34	2KJ3102- FN23- C1 -Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
2.2	Z.29-LE100ZLSA4P							
	366	57	4.00	1750	1.3	34	2KJ3102- ■ FN23- ■ ■ B1 -Z -	-
	422	50	3.47	1800	1.4	34	2KJ3102- ■ FN23- ■ ■ A1 -Z -	-
	Z.29-LE90ZLR2P							
	165	128	17.67	1200	1.1	20	2KJ3102- ■ EM23- ■ ■ R1 -Z P00	
	185	114	15.75	1400	1.2	20	2KJ3102- ■ EM23- ■ ■ Q1 -Z P00	
	200	105	14.54	1520	1.1	20	2KJ3102- ■ EM23- ■ ■ P1 -Z P00	
	229	92	12.73	1680	1.5	20	2KJ3102- ■ EM23- ■ ■ N1 -Z P00	
	261	81	11.16	1790	1.7	20	2KJ3102- ■ EM23- ■ ■ M1 -Z P00	
	288	73	10.12	1880	1.9	20	2KJ3102- ■ EM23- ■ ■ L1 -Z P00	
	305	69	9.53	1910	2	20	2KJ3102- ■ EM23- ■ ■ K1 -Z P00	
	346	61	8.40	1960	2.3	20	2KJ3102- ■ EM23- ■ ■ J1 -Z P00	
	399	53	7.29	1900	2.5	20	2KJ3102- ■ EM23- ■ ■ H1 -Z P00	
	421	50	6.92	1810	1.5	20	2KJ3102- ■ EM23- ■ ■ G1 -Z P00	
	480	44	6.06	1760	2.3	20	2KJ3102- ■ EM23- ■ ■ F1 -Z P00	
	548	38	5.31	1710	2.4	20	2KJ3102- ■ EM23- ■ ■ E1 -Z P00	
	604	35	4.82	1670	2.5	20	2KJ3102- ■ EM23- ■ ■ D1 -Z P00	
	641	33	4.54	1650	2.6	20	2KJ3102- ■ EM23- ■ ■ C1 -Z P00	
	728	29	4.00	1600	2.6	20	2KJ3102- ■ EM23- ■ ■ B1 -Z P00	
	839	25	3.47	1540	2.8	20	2KJ3102- ■ EM23- ■ ■ A1 -Z P00	
	E.89-FZ90LDA6TV							
	155	135	9.67	8000	2.1	43	2KJ3004- ■ ET25- ■ ■ T1 -Z P01	
	172	122	8.73	8000	2.3	43	2KJ3004- ■ ET25- ■ ■ S1 -Z P01	
	189	110	7.92	8000	2.5	43	2KJ3004- ■ ET25- ■ ■ R1 -Z P01	
	205	102	7.31	8000	2.5	43	2KJ3004- ■ ET25- ■ ■ Q1 -Z P01	
	226	93	6.64	8000	2.8	43	2KJ3004- ■ ET25- ■ ■ P1 -Z P01	
	267	78	5.62	8000	4.1	43	2KJ3004- ■ ET25- ■ ■ N1 -Z P01	
	284	74	5.29	8000	2.8	43	2KJ3004- ■ ET25- ■ ■ M1 -Z P01	
	E.89-LE100ZLSA4P							
	151	139	9.67	8000	2	65	2KJ3004- ■ FN23- ■ ■ T1 -Z -	-
	168	125	8.73	8000	2.2	65	2KJ3004- ■ FN23- ■ ■ S1 -Z -	-
	185	114	7.92	8000	2.5	65	2KJ3004- ■ FN23- ■ ■ R1 -Z -	-
	200	105	7.31	8000	2.5	65	2KJ3004- ■ FN23- ■ ■ Q1 -Z -	-
	221	95	6.64	8000	2.7	65	2KJ3004- ■ FN23- ■ ■ P1 -Z -	-
	261	81	5.62	8000	4	65	2KJ3004- ■ FN23- ■ ■ N1 -Z -	-
	277	76	5.29	8000	2.8	65	2KJ3004- ■ FN23- ■ ■ M1 -Z -	-
	E.69-FZ90LDA6TV							
	161	130	9.30	6100	0.92	31	2KJ3003- ■ ET25- ■ ■ S1 -Z P01	
	178	118	8.45	6100	0.89	31	2KJ3003- ■ ET25- ■ ■ R1 -Z P01	
	198	106	7.58	6100	1.9	31	2KJ3003- ■ ET25- ■ ■ Q1 -Z P01	
	220	95	6.82	6100	1.8	31	2KJ3003- ■ ET25- ■ ■ P1 -Z P01	
	243	86	6.17	6100	2.4	31	2KJ3003- ■ ET25- ■ ■ N1 -Z P01	
	264	79	5.69	6100	2.1	31	2KJ3003- ■ ET25- ■ ■ M1 -Z P01	
	288	72	5.21	6100	2.7	31	2KJ3003- ■ ET25- ■ ■ L1 -Z P01	
	342	61	4.38	6100	3.3	31	2KJ3003- ■ ET25- ■ ■ K1 -Z P01	
	364	57	4.12	6100	2.9	31	2KJ3003- ■ ET25- ■ ■ J1 -Z P01	
	397	52	3.78	6100	3.8	31	2KJ3003- ■ ET25- ■ ■ H1 -Z P01	
	455	46	3.30	6100	4.3	31	2KJ3003- ■ ET25- ■ ■ G1 -Z P01	
	508	41	2.95	6100	4.8	31	2KJ3003- ■ ET25- ■ ■ F1 -Z P01	
	581	36	2.58	6100	5.5	31	2KJ3003- ■ ET25- ■ ■ E1 -Z P01	
	E.69-LE100ZLSA4P							
	193	109	7.58	6100	1.9	51	2KJ3003- ■ FN23- ■ ■ Q1 -Z -	-
	215	98	6.82	6100	1.7	51	2KJ3003- ■ FN23- ■ ■ P1 -Z -	-
	237	88	6.17	6100	2.3	51	2KJ3003- ■ FN23- ■ ■ N1 -Z -	-
	257	82	5.69	6100	2	51	2KJ3003- ■ FN23- ■ ■ M1 -Z -	-
	281	75	5.21	6100	2.7	51	2KJ3003- ■ FN23- ■ ■ L1 -Z -	-
	334	63	4.38	6100	3.2	51	2KJ3003- ■ FN23- ■ ■ K1 -Z -	-
	356	59	4.12	6100	2.8	51	2KJ3003- ■ FN23- ■ ■ J1 -Z -	-
	388	54	3.78	6100	3.7	51	2KJ3003- ■ FN23- ■ ■ H1 -Z -	-
	444	47	3.30	6100	4.2	51	2KJ3003- ■ FN23- ■ ■ G1 -Z -	-
	497	42	2.95	6100	4.7	51	2KJ3003- ■ FN23- ■ ■ F1 -Z -	-

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles	
2.2	E.69-LE100ZLSA4P								
	568	37	2.58	6100	5.3	51	2KJ3003- FN23- E1 -Z -		
	E.49-FZ90LDA6TV								
	170	123	8.82	3680	0.87	24	2KJ3002- ET25- R1 -Z P01		
	200	105	7.50	3680	1.0	24	2KJ3002- ET25- Q1 -Z P01		
	220	95	6.82	3680	1.1	24	2KJ3002- ET25- P1 -Z P01		
	247	85	6.08	3680	1.2	24	2KJ3002- ET25- N1 -Z P01		
	275	76	5.45	3680	1.3	24	2KJ3002- ET25- M1 -Z P01		
	305	68	4.92	3680	1.5	24	2KJ3002- ET25- L1 -Z P01		
	330	63	4.54	3680	1.6	24	2KJ3002- ET25- K1 -Z P01		
	362	57	4.14	3680	1.8	24	2KJ3002- ET25- J1 -Z P01		
	436	48	3.44	3680	2.1	24	2KJ3002- ET25- H1 -Z P01		
	463	45	3.24	3680	2.2	24	2KJ3002- ET25- G1 -Z P01		
	490	42	3.06	3680	2.4	24	2KJ3002- ET25- F1 -Z P01		
	577	36	2.60	3600	2.8	24	2KJ3002- ET25- E1 -Z P01		
	673	31	2.23	3430	3.3	24	2KJ3002- ET25- D1 -Z P01		
	765	27	1.96	3300	3.8	24	2KJ3002- ET25- C1 -Z P01		
	909	23	1.65	3140	4.5	24	2KJ3002- ET25- B1 -Z P01		
	1042	20	1.44	3010	5.1	24	2KJ3002- ET25- A1 -Z P01		
	E.49-LE100ZLSA4P								
	241	87	6.08	4000	1.2	44	2KJ3002- FN23- N1 -Z -		
	269	78	5.45	4000	1.3	44	2KJ3002- FN23- M1 -Z -		
	298	71	4.92	4000	1.4	44	2KJ3002- FN23- L1 -Z -		
	323	65	4.54	4000	1.6	44	2KJ3002- FN23- K1 -Z -		
	354	59	4.14	4000	1.7	44	2KJ3002- FN23- J1 -Z -		
	426	49	3.44	4000	2	44	2KJ3002- FN23- H1 -Z -		
	452	46	3.24	4000	2.2	44	2KJ3002- FN23- G1 -Z -		
	479	44	3.06	3950	2.3	44	2KJ3002- FN23- F1 -Z -		
	563	37	2.60	3770	2.7	44	2KJ3002- FN23- E1 -Z -		
	657	32	2.23	3590	3.2	44	2KJ3002- FN23- D1 -Z -		
	747	28	1.96	3460	3.7	44	2KJ3002- FN23- C1 -Z -		
	888	24	1.65	3280	4.4	44	2KJ3002- FN23- B1 -Z -		
	1017	21	1.44	3140	4.9	44	2KJ3002- FN23- A1 -Z -		
	E.39-FZ90LDA6TV								
	367	57	4.09	2390	0.84	20	2KJ3001- ET25- K1 -Z P01		
	419	50	3.58	2400	1.2	20	2KJ3001- ET25- J1 -Z P01		
	453	46	3.31	2460	1.3	20	2KJ3001- ET25- H1 -Z P01		
	512	41	2.93	2430	1.6	20	2KJ3001- ET25- G1 -Z P01		
	615	34	2.44	2430	1.9	20	2KJ3001- ET25- F1 -Z P01		
	655	32	2.29	2450	2.1	20	2KJ3001- ET25- E1 -Z P01		
	728	28	2.06	2380	2.3	20	2KJ3001- ET25- D1 -Z P01		
	857	24	1.75	2280	2.7	20	2KJ3001- ET25- C1 -Z P01		
	1000	21	1.50	2170	2.9	20	2KJ3001- ET25- B1 -Z P01		
	1163	18	1.29	2080	3.0	20	2KJ3001- ET25- A1 -Z P01		
	E.39-LE100ZLSA4P								
	358	59	4.09	2880	0.82	37	2KJ3001- FN23- K1 -Z -		
	409	51	3.58	2950	1.1	37	2KJ3001- FN23- J1 -Z -		
	443	48	3.31	2960	1.2	37	2KJ3001- FN23- H1 -Z -		
	500	42	2.93	2890	1.5	37	2KJ3001- FN23- G1 -Z -		
	600	35	2.44	2750	1.9	37	2KJ3001- FN23- F1 -Z -		
	640	33	2.29	2710	2	37	2KJ3001- FN23- E1 -Z -		
	711	30	2.06	2620	2.2	37	2KJ3001- FN23- D1 -Z -		
	837	25	1.75	2510	2.6	37	2KJ3001- FN23- C1 -Z -		
	977	22	1.50	2400	2.8	37	2KJ3001- FN23- B1 -Z -		
	1136	18	1.29	2300	2.9	37	2KJ3001- FN23- A1 -Z -		
	3	D.169-LE132SQB6P							
		3	9610	327.18	71800	1.5	485	2KJ3213- HH23- V1 -Z P01	
		3.2	8970	305.28	72000	1.6	485	2KJ3213- HH23- U1 -Z P01	
		3.6	7970	271.40	72400	1.8	485	2KJ3213- HH23- T1 -Z P01	
		4	7160	243.68	72700	2	485	2KJ3213- HH23- S1 -Z P01	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
3	D.149-LE132SQB6P							
	3	9640	328.38	50400	0.83	307	2KJ3212- ■ HH23- ■ ■ W1 -Z P01	
	3.5	8250	281.04	51000	0.97	307	2KJ3212- ■ HH23- ■ ■ V1 -Z P01	
	3.7	7770	264.51	51300	1	307	2KJ3212- ■ HH23- ■ ■ U1 -Z P01	
	3.9	7280	247.95	51500	1.1	307	2KJ3212- ■ HH23- ■ ■ T1 -Z P01	
	D.149-LE100ZLSB4P							
	4.4	6440	328.38	51900	1.2	278	2KJ3212- ■ FP23- ■ ■ W1 -Z -	
	5.2	5510	281.04	52400	1.5	278	2KJ3212- ■ FP23- ■ ■ V1 -Z -	
	5.5	5190	264.51	52500	1.5	278	2KJ3212- ■ FP23- ■ ■ U1 -Z -	
	5.9	4860	247.95	52700	1.6	278	2KJ3212- ■ FP23- ■ ■ T1 -Z -	
	6.6	4310	219.80	52900	1.9	278	2KJ3212- ■ FP23- ■ ■ S1 -Z -	
	7.5	3830	195.24	53100	2.1	278	2KJ3212- ■ FP23- ■ ■ R1 -Z -	
	D.129-FZ90LF6TV							
	4.7	6050	316.90	29400	0.83	168	2KJ3211- ■ EU25- ■ ■ Q1 -Z P01	
	5.6	5160	270.24	29400	0.97	168	2KJ3211- ■ EU25- ■ ■ P1 -Z P01	
	5.9	4850	254.34	29400	1.0	168	2KJ3211- ■ EU25- ■ ■ N1 -Z P01	
	6.4	4500	236.03	29400	1.1	168	2KJ3211- ■ EU25- ■ ■ M1 -Z P01	
	7.2	3980	208.67	29400	1.3	168	2KJ3211- ■ EU25- ■ ■ L1 -Z P01	
	8.1	3550	186.28	29400	1.4	168	2KJ3211- ■ EU25- ■ ■ K1 -Z P01	
8.9	3200	167.63	29400	1.6	168	2KJ3211- ■ EU25- ■ ■ J1 -Z P01		
10.3	2770	145.49	29400	1.8	168	2KJ3211- ■ EU25- ■ ■ H1 -Z P01		
11.5	2490	130.84	29400	2.0	168	2KJ3211- ■ EU25- ■ ■ G1 -Z P01		
D.129-LE100ZLSB4P								
4.6	6210	316.90	26300	0.8	194	2KJ3211- ■ FP23- ■ ■ Q1 -Z -		
5.4	5300	270.24	26800	0.94	194	2KJ3211- ■ FP23- ■ ■ P1 -Z -		
5.7	4990	254.34	27000	1	194	2KJ3211- ■ FP23- ■ ■ N1 -Z -		
6.2	4630	236.03	27200	1.1	194	2KJ3211- ■ FP23- ■ ■ M1 -Z -		
7	4090	208.67	27600	1.2	194	2KJ3211- ■ FP23- ■ ■ L1 -Z -		
7.8	3650	186.28	27800	1.4	194	2KJ3211- ■ FP23- ■ ■ K1 -Z -		
8.7	3280	167.63	28000	1.5	194	2KJ3211- ■ FP23- ■ ■ J1 -Z -		
10	2850	145.49	28300	1.8	194	2KJ3211- ■ FP23- ■ ■ H1 -Z -		
11	2560	130.84	28400	1.9	194	2KJ3211- ■ FP23- ■ ■ G1 -Z -		
13	2240	114.36	28600	2.2	194	2KJ3211- ■ FP23- ■ ■ F1 -Z -		
D.109-FZ90LF6TV								
7.4	3870	203.01	20200	0.80	107	2KJ3210- ■ EU25- ■ ■ N1 -Z P01		
7.9	3640	191.07	20200	0.85	107	2KJ3210- ■ EU25- ■ ■ M1 -Z P01		
8.5	3370	176.45	20200	0.92	107	2KJ3210- ■ EU25- ■ ■ L1 -Z P01		
9.6	2990	157.00	20200	1.0	107	2KJ3210- ■ EU25- ■ ■ K1 -Z P01		
10.8	2660	139.44	20200	1.2	107	2KJ3210- ■ EU25- ■ ■ J1 -Z P01		
12.0	2380	124.82	20200	1.3	107	2KJ3210- ■ EU25- ■ ■ H1 -Z P01		
14.1	2030	106.70	20200	1.5	107	2KJ3210- ■ EU25- ■ ■ G1 -Z P01		
15.7	1810	95.28	20200	1.7	107	2KJ3210- ■ EU25- ■ ■ F1 -Z P01		
D.109-LE100ZLSB4P								
7.6	3740	191.07	20100	0.83	130	2KJ3210- ■ FP23- ■ ■ M1 -Z -		
8.3	3460	176.45	20200	0.9	130	2KJ3210- ■ FP23- ■ ■ L1 -Z -		
9.3	3080	157.00	20200	1	130	2KJ3210- ■ FP23- ■ ■ K1 -Z -		
10	2730	139.44	20200	1.1	130	2KJ3210- ■ FP23- ■ ■ J1 -Z -		
12	2440	124.82	20200	1.3	130	2KJ3210- ■ FP23- ■ ■ H1 -Z -		
14	2090	106.70	20200	1.5	130	2KJ3210- ■ FP23- ■ ■ G1 -Z -		
15	1870	95.28	20200	1.7	130	2KJ3210- ■ FP23- ■ ■ F1 -Z -		
17	1650	84.21	20200	1.9	130	2KJ3210- ■ FP23- ■ ■ E1 -Z -		
20	1450	73.90	20200	2.1	130	2KJ3210- ■ FP23- ■ ■ D1 -Z -		
D.89-FZ90LF6TV								
13.6	2110	110.57	18600	0.80	68	2KJ3208- ■ EU25- ■ ■ G1 -Z P01		
15.2	1890	98.99	18600	0.89	68	2KJ3208- ■ EU25- ■ ■ F1 -Z P01		
17.3	1650	86.56	18600	1.0	68	2KJ3208- ■ EU25- ■ ■ E1 -Z P01		
20	1410	74.30	18600	1.2	68	2KJ3208- ■ EU25- ■ ■ D1 -Z P01		
23	1250	65.67	18600	1.3	68	2KJ3208- ■ EU25- ■ ■ C1 -Z P01		
D.89-LE100ZLSB4P								
15	1940	98.99	18500	0.86	88	2KJ3208- ■ FP23- ■ ■ F1 -Z -		
17	1690	86.56	18500	0.99	88	2KJ3208- ■ FP23- ■ ■ E1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
3	D.89-LE100ZLSB4P							
	20	1450	74.30	18500	1.2	88	2KJ3208- FP23- D1 -Z -	
	22	1280	65.67	18500	1.3	88	2KJ3208- FP23- C1 -Z -	
	Z.89-FZ90LF6TV							
	29	985	51.78	18600	1.7	67	2KJ3108- EU25- X1 -Z P01	
	32	895	46.97	18600	1.9	67	2KJ3108- EU25- W1 -Z P01	
	35	825	43.36	18600	2.0	67	2KJ3108- EU25- V1 -Z P01	
	38	750	39.41	18600	2.2	67	2KJ3108- EU25- U1 -Z P01	
	45	635	33.38	18600	2.6	67	2KJ3108- EU25- T1 -Z P01	
	48	595	31.41	18600	2.8	67	2KJ3108- EU25- S1 -Z P01	
	Z.89-LE100ZLSB4P							
	25	1120	57.36	18500	1.5	87	2KJ3108- FP23- A2 -Z -	
	28	1010	51.78	18500	1.7	87	2KJ3108- FP23- X1 -Z -	
	31	920	46.97	18500	1.8	87	2KJ3108- FP23- W1 -Z -	
	34	850	43.36	18500	2	87	2KJ3108- FP23- V1 -Z -	
	37	770	39.41	18500	2.2	87	2KJ3108- FP23- U1 -Z -	
	44	655	33.38	18500	2.6	87	2KJ3108- FP23- T1 -Z -	
	46	615	31.41	18500	2.7	87	2KJ3108- FP23- S1 -Z -	
	D.79-FZ90LF6TV							
	31	935	49.02	12700	0.90	46	2KJ3207- EU25- A1 -Z P01	
	D.79-LE100ZLSB4P							
	30	960	49.02	10700	0.87	65	2KJ3207- FP23- A1 -Z -	
Z.79-FZ90LF6TV								
38	760	39.94	13800	1.1	45	2KJ3107- EU25- V1 -Z P01		
42	685	36.12	14200	1.2	45	2KJ3107- EU25- U1 -Z P01		
45	635	33.34	14400	1.3	45	2KJ3107- EU25- T1 -Z P01		
49	580	30.54	14600	1.4	45	2KJ3107- EU25- S1 -Z P01		
59	485	25.62	14700	1.7	45	2KJ3107- EU25- R1 -Z P01		
62	460	24.12	14700	1.8	45	2KJ3107- EU25- Q1 -Z P01		
68	420	22.13	14600	2.0	45	2KJ3107- EU25- P1 -Z P01		
78	365	19.33	14100	2.3	45	2KJ3107- EU25- N1 -Z P01		
87	330	17.31	13700	2.5	45	2KJ3107- EU25- M1 -Z P01		
99	285	15.13	13200	2.9	45	2KJ3107- EU25- L1 -Z P01		
115	245	12.99	12600	3.4	45	2KJ3107- EU25- K1 -Z P01		
131	215	11.48	12100	3.8	45	2KJ3107- EU25- J1 -Z P01		
Z.79-LE100ZLSB4P								
33	870	44.42	11300	0.96	64	2KJ3107- FP23- W1 -Z -		
37	780	39.94	11800	1.1	64	2KJ3107- FP23- V1 -Z -		
40	705	36.12	12100	1.2	64	2KJ3107- FP23- U1 -Z -		
44	650	33.34	12400	1.3	64	2KJ3107- FP23- T1 -Z -		
48	595	30.54	12600	1.4	64	2KJ3107- FP23- S1 -Z -		
57	500	25.62	12800	1.7	64	2KJ3107- FP23- R1 -Z -		
61	470	24.12	12800	1.8	64	2KJ3107- FP23- Q1 -Z -		
66	430	22.13	12800	1.9	64	2KJ3107- FP23- P1 -Z -		
76	375	19.33	12800	2.2	64	2KJ3107- FP23- N1 -Z -		
84	340	17.31	12700	2.5	64	2KJ3107- FP23- M1 -Z -		
96	295	15.13	12400	2.8	64	2KJ3107- FP23- L1 -Z -		
112	255	12.99	11900	3.3	64	2KJ3107- FP23- K1 -Z -		
127	225	11.48	11500	3.7	64	2KJ3107- FP23- J1 -Z -		
Z.69-FZ90LF6TV								
44	650	34.29	10900	0.92	37	2KJ3106- EU25- T1 -Z P01		
49	590	30.90	11300	1.0	37	2KJ3106- EU25- S1 -Z P01		
53	540	28.53	11800	1.1	37	2KJ3106- EU25- R1 -Z P01		
58	495	26.04	12100	1.2	37	2KJ3106- EU25- Q1 -Z P01		
69	410	21.61	11900	1.5	37	2KJ3106- EU25- P1 -Z P01		
74	385	20.34	11700	1.5	37	2KJ3106- EU25- N1 -Z P01		
78	365	19.21	11500	1.6	37	2KJ3106- EU25- M1 -Z P01		
92	310	16.34	11000	1.9	37	2KJ3106- EU25- L1 -Z P01		
107	265	14.00	10600	2.2	37	2KJ3106- EU25- K1 -Z P01		
122	235	12.31	10200	2.6	37	2KJ3106- EU25- J1 -Z P01		
144	198	10.39	9700	3.0	37	2KJ3106- EU25- H1 -Z P01		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)		
3	Z.69-FZ90LF6TV								
	166	172	9.05	9320	3.4	37	2KJ3106- EU25- G1	-Z	P01
	176	162	8.50	9140	2.7	37	2KJ3106- EU25- F1	-Z	P01
	207	138	7.23	8710	3.2	37	2KJ3106- EU25- E1	-Z	P01
	242	118	6.20	8320	3.8	37	2KJ3106- EU25- D1	-Z	P01
	275	104	5.45	8000	4.1	37	2KJ3106- EU25- C1	-Z	P01
	326	87	4.60	7600	5.1	37	2KJ3106- EU25- B1	-Z	P01
	Z.69-LE100ZLSB4P								
	38	750	38.24	9080	0.8	55	2KJ3106- FP23- U1	-Z	-
	43	670	34.29	9830	0.89	55	2KJ3106- FP23- T1	-Z	-
	47	605	30.90	10300	0.99	55	2KJ3106- FP23- S1	-Z	-
	51	560	28.53	10600	1.1	55	2KJ3106- FP23- R1	-Z	-
	56	510	26.04	11000	1.2	55	2KJ3106- FP23- Q1	-Z	-
	68	420	21.61	11200	1.4	55	2KJ3106- FP23- P1	-Z	-
	72	395	20.34	11300	1.5	55	2KJ3106- FP23- N1	-Z	-
	76	375	19.21	11200	1.6	55	2KJ3106- FP23- M1	-Z	-
	89	320	16.34	10700	1.9	55	2KJ3106- FP23- L1	-Z	-
	104	275	14.00	10300	2.2	55	2KJ3106- FP23- K1	-Z	-
	119	240	12.31	9960	2.5	55	2KJ3106- FP23- J1	-Z	-
	141	200	10.39	9490	2.9	55	2KJ3106- FP23- H1	-Z	-
	161	178	9.05	9110	3.3	55	2KJ3106- FP23- G1	-Z	-
	172	167	8.50	8930	2.7	55	2KJ3106- FP23- F1	-Z	-
	202	142	7.23	8520	3.2	55	2KJ3106- FP23- E1	-Z	-
	235	122	6.20	8130	3.7	55	2KJ3106- FP23- D1	-Z	-
	268	107	5.45	7820	4	55	2KJ3106- FP23- C1	-Z	-
	317	90	4.60	7430	4.9	55	2KJ3106- FP23- B1	-Z	-
	Z.59-FZ90LF6TV								
	52	550	28.89	5860	0.82	32	2KJ3105- EU25- S1	-Z	P01
	56	505	26.66	5830	0.88	32	2KJ3105- EU25- R1	-Z	P01
	62	460	24.34	5780	0.97	32	2KJ3105- EU25- Q1	-Z	P01
	74	385	20.20	5620	1.2	32	2KJ3105- EU25- P1	-Z	P01
	79	360	19.01	5580	1.2	32	2KJ3105- EU25- N1	-Z	P01
	84	340	17.95	5530	1.3	32	2KJ3105- EU25- M1	-Z	P01
98	290	15.27	5370	1.5	32	2KJ3105- EU25- L1	-Z	P01	
115	250	13.09	5200	1.8	32	2KJ3105- EU25- K1	-Z	P01	
130	215	11.51	5080	2.0	32	2KJ3105- EU25- J1	-Z	P01	
154	185	9.71	4880	2.4	32	2KJ3105- EU25- H1	-Z	P01	
177	161	8.46	4720	2.8	32	2KJ3105- EU25- G1	-Z	P01	
186	154	8.07	4630	2.7	32	2KJ3105- EU25- F1	-Z	P01	
219	131	6.86	4450	3.1	32	2KJ3105- EU25- E1	-Z	P01	
255	112	5.88	4280	3.7	32	2KJ3105- EU25- D1	-Z	P01	
290	98	5.17	4140	4.2	32	2KJ3105- EU25- C1	-Z	P01	
344	83	4.36	3960	4.9	32	2KJ3105- EU25- B1	-Z	P01	
Z.59-LE100ZLSB4P									
55	520	26.66	5630	0.86	50	2KJ3105- FP23- R1	-Z	-	
60	475	24.34	5580	0.94	50	2KJ3105- FP23- Q1	-Z	-	
72	395	20.20	5130	1.1	50	2KJ3105- FP23- P1	-Z	-	
77	370	19.01	5330	1.2	50	2KJ3105- FP23- N1	-Z	-	
81	350	17.95	5350	1.3	50	2KJ3105- FP23- M1	-Z	-	
96	300	15.27	5190	1.5	50	2KJ3105- FP23- L1	-Z	-	
112	255	13.09	5050	1.8	50	2KJ3105- FP23- K1	-Z	-	
127	225	11.51	4910	2	50	2KJ3105- FP23- J1	-Z	-	
150	191	9.71	4730	2.4	50	2KJ3105- FP23- H1	-Z	-	
173	166	8.46	4580	2.7	50	2KJ3105- FP23- G1	-Z	-	
181	158	8.07	4500	2.6	50	2KJ3105- FP23- F1	-Z	-	
213	135	6.86	4320	3	50	2KJ3105- FP23- E1	-Z	-	
248	115	5.88	4160	3.6	50	2KJ3105- FP23- D1	-Z	-	
282	101	5.17	4020	4	50	2KJ3105- FP23- C1	-Z	-	
335	86	4.36	3840	4.7	50	2KJ3105- FP23- B1	-Z	-	
384	75	3.80	3700	5.4	50	2KJ3105- FP23- A1	-Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
3	Z.49-FZ90LF6TV							
	81	350	18.48	4180	0.91	30	2KJ3104- ■ EU25- ■ ■ Q1 -Z	P01
	86	330	17.39	4150	0.96	30	2KJ3104- ■ EU25- ■ ■ P1 -Z	P01
	91	310	16.42	4130	1.0	30	2KJ3104- ■ EU25- ■ ■ N1 -Z	P01
	107	265	13.98	4020	1.2	30	2KJ3104- ■ EU25- ■ ■ M1 -Z	P01
	125	225	11.97	3400	1.4	30	2KJ3104- ■ EU25- ■ ■ L1 -Z	P01
	142	200	10.53	3650	1.6	30	2KJ3104- ■ EU25- ■ ■ K1 -Z	P01
	169	169	8.88	3690	1.9	30	2KJ3104- ■ EU25- ■ ■ J1 -Z	P01
	194	147	7.74	3580	2.2	30	2KJ3104- ■ EU25- ■ ■ H1 -Z	P01
	196	145	7.64	3310	2.0	30	2KJ3104- ■ EU25- ■ ■ G1 -Z	P01
	208	137	7.21	3410	2.1	30	2KJ3104- ■ EU25- ■ ■ F1 -Z	P01
	244	117	6.14	3350	2.3	30	2KJ3104- ■ EU25- ■ ■ E1 -Z	P01
	285	100	5.26	3230	2.4	30	2KJ3104- ■ EU25- ■ ■ D1 -Z	P01
	325	88	4.62	3130	2.5	30	2KJ3104- ■ EU25- ■ ■ C1 -Z	P01
	385	74	3.90	3000	2.8	30	2KJ3104- ■ EU25- ■ ■ B1 -Z	P01
	441	64	3.40	2890	2.9	30	2KJ3104- ■ EU25- ■ ■ A1 -Z	P01
	Z.49-LE100ZLSB4P							
	79	360	18.48	4190	0.88	48	2KJ3104- ■ FP23- ■ ■ Q1 -Z	-
	84	340	17.39	4160	0.94	48	2KJ3104- ■ FP23- ■ ■ P1 -Z	-
	89	320	16.42	4130	0.99	48	2KJ3104- ■ FP23- ■ ■ N1 -Z	-
104	270	13.98	4050	1.2	48	2KJ3104- ■ FP23- ■ ■ M1 -Z	-	
122	235	11.97	3930	1.4	48	2KJ3104- ■ FP23- ■ ■ L1 -Z	-	
139	205	10.53	3600	1.5	48	2KJ3104- ■ FP23- ■ ■ K1 -Z	-	
164	174	8.88	3710	1.8	48	2KJ3104- ■ FP23- ■ ■ J1 -Z	-	
189	152	7.74	3600	2.1	48	2KJ3104- ■ FP23- ■ ■ H1 -Z	-	
191	150	7.64	3220	2	48	2KJ3104- ■ FP23- ■ ■ G1 -Z	-	
202	141	7.21	3350	2	48	2KJ3104- ■ FP23- ■ ■ F1 -Z	-	
238	120	6.14	3370	2.2	48	2KJ3104- ■ FP23- ■ ■ E1 -Z	-	
278	103	5.26	3250	2.4	48	2KJ3104- ■ FP23- ■ ■ D1 -Z	-	
316	91	4.62	3140	2.5	48	2KJ3104- ■ FP23- ■ ■ C1 -Z	-	
374	76	3.90	3010	2.7	48	2KJ3104- ■ FP23- ■ ■ B1 -Z	-	
429	67	3.40	2900	2.9	48	2KJ3104- ■ FP23- ■ ■ A1 -Z	-	
Z.39-FZ90LF6TV								
141	200	10.62	1070	0.83	21	2KJ3103- ■ EU25- ■ ■ J1 -Z	P01	
165	173	9.10	1400	0.91	21	2KJ3103- ■ EU25- ■ ■ H1 -Z	P01	
191	149	7.84	1680	0.99	21	2KJ3103- ■ EU25- ■ ■ G1 -Z	P01	
232	123	6.46	1250	1.2	21	2KJ3103- ■ EU25- ■ ■ F1 -Z	P01	
247	116	6.08	1350	1.3	21	2KJ3103- ■ EU25- ■ ■ E1 -Z	P01	
275	104	5.45	1530	1.3	21	2KJ3103- ■ EU25- ■ ■ D1 -Z	P01	
323	88	4.64	1750	1.5	21	2KJ3103- ■ EU25- ■ ■ C1 -Z	P01	
377	76	3.98	1880	1.6	21	2KJ3103- ■ EU25- ■ ■ B1 -Z	P01	
437	65	3.43	1990	1.7	21	2KJ3103- ■ EU25- ■ ■ A1 -Z	P01	
Z.39-LE100ZLSB4P								
137	205	10.62	540	0.81	36	2KJ3103- ■ FP23- ■ ■ J1 -Z	-	
160	179	9.10	905	0.88	36	2KJ3103- ■ FP23- ■ ■ H1 -Z	-	
186	154	7.84	1270	0.96	36	2KJ3103- ■ FP23- ■ ■ G1 -Z	-	
226	127	6.46	820	1.2	36	2KJ3103- ■ FP23- ■ ■ F1 -Z	-	
240	119	6.08	975	1.2	36	2KJ3103- ■ FP23- ■ ■ E1 -Z	-	
268	107	5.45	1180	1.3	36	2KJ3103- ■ FP23- ■ ■ D1 -Z	-	
315	91	4.64	1440	1.4	36	2KJ3103- ■ FP23- ■ ■ C1 -Z	-	
367	78	3.98	1630	1.5	36	2KJ3103- ■ FP23- ■ ■ B1 -Z	-	
426	67	3.43	1780	1.7	36	2KJ3103- ■ FP23- ■ ■ A1 -Z	-	
Z.29-FZ90LF6TV								
179	160	8.40	523	0.86	20	2KJ3102- ■ EU25- ■ ■ J1 -Z	P01	
206	139	7.29	823	0.93	20	2KJ3102- ■ EU25- ■ ■ H1 -Z	P01	
248	115	6.06	678	0.86	20	2KJ3102- ■ EU25- ■ ■ F1 -Z	P01	
282	101	5.31	902	0.90	20	2KJ3102- ■ EU25- ■ ■ E1 -Z	P01	
311	92	4.82	1030	0.93	20	2KJ3102- ■ EU25- ■ ■ D1 -Z	P01	
330	86	4.54	1130	0.97	20	2KJ3102- ■ EU25- ■ ■ C1 -Z	P01	
375	76	4.00	1260	0.99	20	2KJ3102- ■ EU25- ■ ■ B1 -Z	P01	
432	66	3.47	1390	1.1	20	2KJ3102- ■ EU25- ■ ■ A1 -Z	P01	

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Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
3	Z.29-LE100ZLSB4P							
	174	165	8.40	145	0.84	34	2KJ3102- FP23- J1	-Z -
	200	143	7.29	515	0.91	34	2KJ3102- FP23- H1	-Z -
	241	119	6.06	355	0.84	34	2KJ3102- FP23- F1	-Z -
	275	104	5.31	645	0.87	34	2KJ3102- FP23- E1	-Z -
	303	95	4.82	800	0.91	34	2KJ3102- FP23- D1	-Z -
	322	89	4.54	915	0.94	34	2KJ3102- FP23- C1	-Z -
	365	78	4.00	1100	0.97	34	2KJ3102- FP23- B1	-Z -
	421	68	3.47	1250	1	34	2KJ3102- FP23- A1	-Z -
	E.129-FZ90LF6TV							
	153	186	9.79	13500	3.6	88	2KJ3006- EU25- T1	-Z P01
	179	160	8.38	13500	4.2	88	2KJ3006- EU25- S1	-Z P01
	E.129-LE100ZLSB4P							
	149	192	9.79	13500	3.5	114	2KJ3006- FP23- T1	-Z -
	174	164	8.38	13500	4	114	2KJ3006- FP23- S1	-Z -
	185	155	7.88	13500	4.3	114	2KJ3006- FP23- R1	-Z -
	E.109-FZ90LF6TV							
	209	137	7.19	10500	4.1	66	2KJ3005- EU25- Q1	-Z P01
	222	129	6.76	10500	4.4	66	2KJ3005- EU25- P1	-Z P01
	239	119	6.28	10500	4.7	66	2KJ3005- EU25- N1	-Z P01
	E.109-LE100ZLSB4P							
	203	141	7.19	10500	4	89	2KJ3005- FP23- Q1	-Z -
	216	133	6.76	10500	4.3	89	2KJ3005- FP23- P1	-Z -
	232	123	6.28	10500	4.6	89	2KJ3005- FP23- N1	-Z -
	E.89-FZ90LF6TV							
	172	166	8.73	8000	1.7	45	2KJ3004- EU25- S1	-Z P01
	189	151	7.92	8000	1.9	45	2KJ3004- EU25- R1	-Z P01
	205	139	7.31	8000	1.9	45	2KJ3004- EU25- Q1	-Z P01
226	126	6.64	8000	2.1	45	2KJ3004- EU25- P1	-Z P01	
267	107	5.62	8000	3.0	45	2KJ3004- EU25- N1	-Z P01	
284	101	5.29	8000	2.1	45	2KJ3004- EU25- M1	-Z P01	
307	93	4.89	8000	3.9	45	2KJ3004- EU25- L1	-Z P01	
345	83	4.35	8000	4.3	45	2KJ3004- EU25- K1	-Z P01	
389	73	3.86	8000	4.9	45	2KJ3004- EU25- J1	-Z P01	
434	66	3.46	8000	5.5	45	2KJ3004- EU25- H1	-Z P01	
E.89-LE100ZLSB4P								
151	190	9.67	8000	1.5	65	2KJ3004- FP23- T1	-Z -	
167	171	8.73	8000	1.6	65	2KJ3004- FP23- S1	-Z -	
184	155	7.92	8000	1.8	65	2KJ3004- FP23- R1	-Z -	
200	143	7.31	8000	1.8	65	2KJ3004- FP23- Q1	-Z -	
220	130	6.64	8000	2	65	2KJ3004- FP23- P1	-Z -	
260	110	5.62	8000	2.9	65	2KJ3004- FP23- N1	-Z -	
276	104	5.29	8000	2	65	2KJ3004- FP23- M1	-Z -	
299	96	4.89	8000	3.8	65	2KJ3004- FP23- L1	-Z -	
336	85	4.35	8000	4.2	65	2KJ3004- FP23- K1	-Z -	
378	76	3.86	8000	4.8	65	2KJ3004- FP23- J1	-Z -	
422	68	3.46	8000	5.4	65	2KJ3004- FP23- H1	-Z -	
E.69-FZ90LF6TV								
220	130	6.82	6100	1.3	33	2KJ3003- EU25- P1	-Z P01	
243	117	6.17	6100	1.7	33	2KJ3003- EU25- N1	-Z P01	
264	108	5.69	6100	1.5	33	2KJ3003- EU25- M1	-Z P01	
288	99	5.21	6100	2.0	33	2KJ3003- EU25- L1	-Z P01	
342	83	4.38	6100	2.4	33	2KJ3003- EU25- K1	-Z P01	
364	78	4.12	6100	2.1	33	2KJ3003- EU25- J1	-Z P01	
397	72	3.78	6100	2.8	33	2KJ3003- EU25- H1	-Z P01	
455	63	3.30	6100	3.2	33	2KJ3003- EU25- G1	-Z P01	
508	56	2.95	6100	3.5	33	2KJ3003- EU25- F1	-Z P01	
581	49	2.58	6100	4.0	33	2KJ3003- EU25- E1	-Z P01	
676	42	2.22	6100	4.6	33	2KJ3003- EU25- D1	-Z P01	
765	37	1.96	6100	5.2	33	2KJ3003- EU25- C1	-Z P01	

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Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
3	E.69-LE100ZLSB4P							
	193	149	7.58	6100	1.4	51	2KJ3003- FP23- Q1	-Z -
	214	134	6.82	6100	1.3	51	2KJ3003- FP23- P1	-Z -
	237	121	6.17	6100	1.7	51	2KJ3003- FP23- N1	-Z -
	257	112	5.69	6100	1.5	51	2KJ3003- FP23- M1	-Z -
	280	102	5.21	6100	2	51	2KJ3003- FP23- L1	-Z -
	333	86	4.38	6100	2.3	51	2KJ3003- FP23- K1	-Z -
	354	81	4.12	6100	2	51	2KJ3003- FP23- J1	-Z -
	386	74	3.78	6100	2.7	51	2KJ3003- FP23- H1	-Z -
	442	65	3.30	6100	3.1	51	2KJ3003- FP23- G1	-Z -
	495	58	2.95	6100	3.5	51	2KJ3003- FP23- F1	-Z -
	566	51	2.58	6100	3.9	51	2KJ3003- FP23- E1	-Z -
	658	44	2.22	6100	4.5	51	2KJ3003- FP23- D1	-Z -
	745	38	1.96	6100	5.1	51	2KJ3003- FP23- C1	-Z -
	874	33	1.67	6100	6	51	2KJ3003- FP23- B1	-Z -
	E.49-FZ90LF6TV							
	275	104	5.45	3680	0.99	26	2KJ3002- EU25- M1	-Z P01
	305	93	4.92	3680	1.1	26	2KJ3002- EU25- L1	-Z P01
	330	86	4.54	3680	1.2	26	2KJ3002- EU25- K1	-Z P01
	362	79	4.14	3680	1.3	26	2KJ3002- EU25- J1	-Z P01
	436	65	3.44	3680	1.5	26	2KJ3002- EU25- H1	-Z P01
	463	61	3.24	3680	1.6	26	2KJ3002- EU25- G1	-Z P01
	490	58	3.06	3670	1.7	26	2KJ3002- EU25- F1	-Z P01
	577	49	2.60	3510	2.1	26	2KJ3002- EU25- E1	-Z P01
	673	42	2.23	3350	2.4	26	2KJ3002- EU25- D1	-Z P01
	765	37	1.96	3230	2.8	26	2KJ3002- EU25- C1	-Z P01
	909	31	1.65	3080	3.3	26	2KJ3002- EU25- B1	-Z P01
	1042	27	1.44	2950	3.7	26	2KJ3002- EU25- A1	-Z P01
	E.49-LE100ZLSB4P							
	240	119	6.08	4000	0.87	44	2KJ3002- FP23- N1	-Z -
	268	107	5.45	4000	0.96	44	2KJ3002- FP23- M1	-Z -
	297	96	4.92	4000	1.1	44	2KJ3002- FP23- L1	-Z -
	322	89	4.54	4000	1.1	44	2KJ3002- FP23- K1	-Z -
	353	81	4.14	4000	1.3	44	2KJ3002- FP23- J1	-Z -
	424	68	3.44	3950	1.5	44	2KJ3002- FP23- H1	-Z -
451	64	3.24	3890	1.6	44	2KJ3002- FP23- G1	-Z -	
477	60	3.06	3840	1.7	44	2KJ3002- FP23- F1	-Z -	
562	51	2.60	3670	2	44	2KJ3002- FP23- E1	-Z -	
655	44	2.23	3510	2.3	44	2KJ3002- FP23- D1	-Z -	
745	38	1.96	3390	2.7	44	2KJ3002- FP23- C1	-Z -	
885	32	1.65	3220	3.2	44	2KJ3002- FP23- B1	-Z -	
1014	28	1.44	3090	3.6	44	2KJ3002- FP23- A1	-Z -	
E.39-FZ90LF6TV								
419	68	3.58	1570	0.85	22	2KJ3001- EU25- J1	-Z P01	
453	63	3.31	1680	0.92	22	2KJ3001- EU25- H1	-Z P01	
512	55	2.93	1760	1.2	22	2KJ3001- EU25- G1	-Z P01	
655	43	2.29	1900	1.5	22	2KJ3001- EU25- E1	-Z P01	
728	39	2.06	1860	1.7	22	2KJ3001- EU25- D1	-Z P01	
857	33	1.75	1880	2.0	22	2KJ3001- EU25- C1	-Z P01	
1000	28	1.50	1890	2.1	22	2KJ3001- EU25- B1	-Z P01	
1163	24	1.29	1870	2.2	22	2KJ3001- EU25- A1	-Z P01	
E.39-LE100ZLSB4P								
408	70	3.58	1870	0.83	37	2KJ3001- FP23- J1	-Z -	
441	65	3.31	2000	0.89	37	2KJ3001- FP23- H1	-Z -	
498	58	2.93	2030	1.1	37	2KJ3001- FP23- G1	-Z -	
638	45	2.29	2260	1.5	37	2KJ3001- FP23- E1	-Z -	
709	40	2.06	2270	1.6	37	2KJ3001- FP23- D1	-Z -	
834	34	1.75	2290	1.9	37	2KJ3001- FP23- C1	-Z -	
973	29	1.50	2300	2.1	37	2KJ3001- FP23- B1	-Z -	
1132	25	1.29	2230	2.1	37	2KJ3001- FP23- A1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
4	D.189-LE132MJ6P							
	3.1	12200	313.63	107000	1.5	698	2KJ3214- ■ HK23- ■ ■ T1 -Z P01	
	3.5	10900	280.59	107000	1.7	698	2KJ3214- ■ HK23- ■ ■ S1 -Z P01	
	3.9	9910	253.06	107000	1.9	698	2KJ3214- ■ HK23- ■ ■ R1 -Z P01	
	D.169-LE132MJ6P							
	3	12800	327.18	70600	1.1	485	2KJ3213- ■ HK23- ■ ■ V1 -Z P01	
	3.2	11900	305.28	70900	1.2	485	2KJ3213- ■ HK23- ■ ■ U1 -Z P01	
	3.6	10600	271.40	71400	1.3	485	2KJ3213- ■ HK23- ■ ■ T1 -Z P01	
	4	9540	243.68	71800	1.5	485	2KJ3213- ■ HK23- ■ ■ S1 -Z P01	
	D.169-LE112ZMKB4P							
	4.5	8560	327.18	72200	1.6	458	2KJ3213- ■ GJ23- ■ ■ V1 -Z -	
	4.8	7980	305.28	72400	1.8	458	2KJ3213- ■ GJ23- ■ ■ U1 -Z -	
	5.4	7100	271.40	72700	2	458	2KJ3213- ■ GJ23- ■ ■ T1 -Z -	
	D.149-LE132MJ6P							
	3.9	9710	247.95	50300	0.82	307	2KJ3212- ■ HK23- ■ ■ T1 -Z P01	
	D.149-LE112ZMKB4P							
	4.4	8590	328.38	50900	0.93	280	2KJ3212- ■ GJ23- ■ ■ W1 -Z -	
	5.2	7350	281.04	51500	1.1	280	2KJ3212- ■ GJ23- ■ ■ V1 -Z -	
	5.5	6920	264.51	51700	1.2	280	2KJ3212- ■ GJ23- ■ ■ U1 -Z -	
	5.9	6480	247.95	51900	1.2	280	2KJ3212- ■ GJ23- ■ ■ T1 -Z -	
	6.6	5750	219.80	52200	1.4	280	2KJ3212- ■ GJ23- ■ ■ S1 -Z -	
	7.5	5100	195.24	52600	1.6	280	2KJ3212- ■ GJ23- ■ ■ R1 -Z -	
	8.3	4610	176.18	52800	1.7	280	2KJ3212- ■ GJ23- ■ ■ Q1 -Z -	
	9.4	4080	156.11	53000	2	280	2KJ3212- ■ GJ23- ■ ■ P1 -Z -	
	11	3610	138.26	53300	2.2	280	2KJ3212- ■ GJ23- ■ ■ N1 -Z -	
	D.129-FZ90ZLG6TV							
	6.4	6010	236.03	29400	0.83	171	2KJ3211- ■ EV25- ■ ■ M1 -Z P01	
	7.2	5310	208.67	29400	0.94	171	2KJ3211- ■ EV25- ■ ■ L1 -Z P01	
	8.1	4740	186.28	29400	1.1	171	2KJ3211- ■ EV25- ■ ■ K1 -Z P01	
	8.9	4260	167.63	29400	1.2	171	2KJ3211- ■ EV25- ■ ■ J1 -Z P01	
	10.3	3700	145.49	29400	1.3	171	2KJ3211- ■ EV25- ■ ■ H1 -Z P01	
	11.5	3330	130.84	29400	1.5	171	2KJ3211- ■ EV25- ■ ■ G1 -Z P01	
	D.129-LE112ZMKB4P							
	6.2	6170	236.03	26300	0.81	194	2KJ3211- ■ GJ23- ■ ■ M1 -Z -	
	7	5460	208.67	26700	0.92	194	2KJ3211- ■ GJ23- ■ ■ L1 -Z -	
	7.8	4870	186.28	27100	1	194	2KJ3211- ■ GJ23- ■ ■ K1 -Z -	
	8.7	4380	167.63	27400	1.1	194	2KJ3211- ■ GJ23- ■ ■ J1 -Z -	
	10	3800	145.49	27700	1.3	194	2KJ3211- ■ GJ23- ■ ■ H1 -Z -	
	11	3420	130.84	27900	1.5	194	2KJ3211- ■ GJ23- ■ ■ G1 -Z -	
	13	2990	114.36	28200	1.7	194	2KJ3211- ■ GJ23- ■ ■ F1 -Z -	
	14	2670	102.05	28400	1.9	194	2KJ3211- ■ GJ23- ■ ■ E1 -Z -	
	16	2350	89.91	28600	2.1	194	2KJ3211- ■ GJ23- ■ ■ D1 -Z -	
	D.109-FZ90ZLG6TV							
	10.8	3550	139.44	20200	0.87	110	2KJ3210- ■ EV25- ■ ■ J1 -Z P01	
	12.0	3170	124.82	20200	0.98	110	2KJ3210- ■ EV25- ■ ■ H1 -Z P01	
	14.1	2710	106.70	20200	1.1	110	2KJ3210- ■ EV25- ■ ■ G1 -Z P01	
	15.7	2420	95.28	20200	1.3	110	2KJ3210- ■ EV25- ■ ■ F1 -Z P01	
	D.109-LE112ZMKB4P							
	10	3640	139.44	20200	0.85	130	2KJ3210- ■ GJ23- ■ ■ J1 -Z -	
	12	3260	124.82	20200	0.95	130	2KJ3210- ■ GJ23- ■ ■ H1 -Z -	
	14	2790	106.70	20200	1.1	130	2KJ3210- ■ GJ23- ■ ■ G1 -Z -	
	15	2490	95.28	20200	1.2	130	2KJ3210- ■ GJ23- ■ ■ F1 -Z -	
	17	2200	84.21	20200	1.4	130	2KJ3210- ■ GJ23- ■ ■ E1 -Z -	
	20	1930	73.90	20200	1.6	130	2KJ3210- ■ GJ23- ■ ■ D1 -Z -	
	23	1680	64.34	20200	1.8	130	2KJ3210- ■ GJ23- ■ ■ C1 -Z -	
	Z.109-FZ90ZLG6TV							
	29	1300	51.17	20200	2.4	108	2KJ3110- ■ EV25- ■ ■ X1 -Z P01	
	Z.109-LE112ZMKB4P							
	29	1330	51.17	20200	2.3	128	2KJ3110- ■ GJ23- ■ ■ X1 -Z -	
	D.89-FZ90ZLG6TV							
	20	1890	74.30	18600	0.89	71	2KJ3208- ■ EV25- ■ ■ D1 -Z P01	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
4	D.89-FZ90ZLG6TV							
	23	1670	65.67	18600	1.0	71	2KJ3208- EV25- C1 -Z	P01
	D.89-LE112ZMKB4P							
	20	1940	74.30	18500	0.86	88	2KJ3208- GJ23- D1 -Z	-
	22	1710	65.67	18500	0.98	88	2KJ3208- GJ23- C1 -Z	-
	Z.89-FZ90ZLG6TV							
	38	1000	39.41	18600	1.7	70	2KJ3108- EV25- U1 -Z	P01
	45	850	33.38	18600	2.0	70	2KJ3108- EV25- T1 -Z	P01
	48	795	31.41	18600	2.1	70	2KJ3108- EV25- S1 -Z	P01
	52	735	29.01	18600	2.3	70	2KJ3108- EV25- R1 -Z	P01
	58	655	25.81	18600	2.6	70	2KJ3108- EV25- Q1 -Z	P01
	65	580	22.92	18600	2.9	70	2KJ3108- EV25- P1 -Z	P01
	73	520	20.52	18600	3.2	70	2KJ3108- EV25- N1 -Z	P01
	Z.89-LE112ZMKB4P							
	25	1500	57.36	18500	1.1	87	2KJ3108- GJ23- A2 -Z	-
	28	1350	51.78	18500	1.2	87	2KJ3108- GJ23- X1 -Z	-
	31	1220	46.97	18500	1.4	87	2KJ3108- GJ23- W1 -Z	-
	34	1130	43.36	18500	1.5	87	2KJ3108- GJ23- V1 -Z	-
	37	1030	39.41	18500	1.6	87	2KJ3108- GJ23- U1 -Z	-
	44	870	33.38	18500	1.9	87	2KJ3108- GJ23- T1 -Z	-
	46	820	31.41	18500	2	87	2KJ3108- GJ23- S1 -Z	-
	50	755	29.01	18500	2.2	87	2KJ3108- GJ23- R1 -Z	-
	57	675	25.81	18500	2.5	87	2KJ3108- GJ23- Q1 -Z	-
	64	600	22.92	18500	2.8	87	2KJ3108- GJ23- P1 -Z	-
71	535	20.52	18500	3.1	87	2KJ3108- GJ23- N1 -Z	-	
Z.79-FZ90ZLG6TV								
49	775	30.54	11200	1.1	48	2KJ3107- EV25- S1 -Z	P01	
59	650	25.62	12000	1.3	48	2KJ3107- EV25- R1 -Z	P01	
62	610	24.12	12200	1.4	48	2KJ3107- EV25- Q1 -Z	P01	
68	560	22.13	12400	1.5	48	2KJ3107- EV25- P1 -Z	P01	
78	490	19.33	12700	1.7	48	2KJ3107- EV25- N1 -Z	P01	
87	440	17.31	12800	1.9	48	2KJ3107- EV25- M1 -Z	P01	
99	385	15.13	12800	2.2	48	2KJ3107- EV25- L1 -Z	P01	
115	330	12.99	12300	2.5	48	2KJ3107- EV25- K1 -Z	P01	
131	290	11.48	11900	2.9	48	2KJ3107- EV25- J1 -Z	P01	
183	205	8.19	10700	3.4	48	2KJ3107- EV25- F1 -Z	P01	
209	182	7.16	10300	4.0	48	2KJ3107- EV25- E1 -Z	P01	
244	156	6.15	9860	4.6	48	2KJ3107- EV25- D1 -Z	P01	
Z.79-LE112ZMKB4P								
37	1040	39.94	13100	0.8	65	2KJ3107- GJ23- V1 -Z	-	
40	945	36.12	13200	0.89	65	2KJ3107- GJ23- U1 -Z	-	
44	870	33.34	13300	0.96	65	2KJ3107- GJ23- T1 -Z	-	
48	795	30.54	13400	1.1	65	2KJ3107- GJ23- S1 -Z	-	
57	670	25.62	10200	1.3	65	2KJ3107- GJ23- R1 -Z	-	
61	630	24.12	10400	1.3	65	2KJ3107- GJ23- Q1 -Z	-	
66	575	22.13	10700	1.5	65	2KJ3107- GJ23- P1 -Z	-	
76	505	19.33	10900	1.7	65	2KJ3107- GJ23- N1 -Z	-	
84	450	17.31	11000	1.9	65	2KJ3107- GJ23- M1 -Z	-	
96	395	15.13	11100	2.1	65	2KJ3107- GJ23- L1 -Z	-	
112	340	12.99	11000	2.5	65	2KJ3107- GJ23- K1 -Z	-	
127	300	11.48	11000	2.8	65	2KJ3107- GJ23- J1 -Z	-	
150	255	9.76	10700	3.2	65	2KJ3107- GJ23- H1 -Z	-	
174	215	8.37	10300	3.6	65	2KJ3107- GJ23- G1 -Z	-	
178	210	8.19	10000	3.3	65	2KJ3107- GJ23- F1 -Z	-	
204	187	7.16	9780	3.9	65	2KJ3107- GJ23- E1 -Z	-	
237	161	6.15	9350	4.4	65	2KJ3107- GJ23- D1 -Z	-	
269	142	5.43	9020	4.8	65	2KJ3107- GJ23- C1 -Z	-	
Z.69-FZ90ZLG6TV								
58	660	26.04	8440	0.90	40	2KJ3106- EV25- Q1 -Z	P01	
69	550	21.61	9470	1.1	40	2KJ3106- EV25- P1 -Z	P01	
74	515	20.34	9810	1.2	40	2KJ3106- EV25- N1 -Z	P01	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
4	Z.69-FZ90ZLG6TV							
	78	485	19.21	10100	1.2	40	2KJ3106- ■ EV25- ■ ■ M1 -Z P01	
	92	415	16.34	10500	1.4	40	2KJ3106- ■ EV25- ■ ■ L1 -Z P01	
	107	355	14.00	10300	1.7	40	2KJ3106- ■ EV25- ■ ■ K1 -Z P01	
	122	310	12.31	9930	1.9	40	2KJ3106- ■ EV25- ■ ■ J1 -Z P01	
	144	260	10.39	9490	2.3	40	2KJ3106- ■ EV25- ■ ■ H1 -Z P01	
	166	230	9.05	9130	2.6	40	2KJ3106- ■ EV25- ■ ■ G1 -Z P01	
	176	215	8.50	8960	2.1	40	2KJ3106- ■ EV25- ■ ■ F1 -Z P01	
	207	184	7.23	8550	2.4	40	2KJ3106- ■ EV25- ■ ■ E1 -Z P01	
	242	157	6.20	8180	2.8	40	2KJ3106- ■ EV25- ■ ■ D1 -Z P01	
	275	138	5.45	7880	3.1	40	2KJ3106- ■ EV25- ■ ■ C1 -Z P01	
	326	117	4.60	7500	3.8	40	2KJ3106- ■ EV25- ■ ■ B1 -Z P01	
	374	102	4.01	7190	4.4	40	2KJ3106- ■ EV25- ■ ■ A1 -Z P01	
	Z.69-LE112ZMKB4P							
	51	745	28.53	10600	0.8	56	2KJ3106- ■ GJ23- ■ ■ R1 -Z -	
	56	680	26.04	7580	0.88	56	2KJ3106- ■ GJ23- ■ ■ Q1 -Z -	
	68	565	21.61	8620	1.1	56	2KJ3106- ■ GJ23- ■ ■ P1 -Z -	
	72	530	20.34	8930	1.1	56	2KJ3106- ■ GJ23- ■ ■ N1 -Z -	
	76	500	19.21	9160	1.2	56	2KJ3106- ■ GJ23- ■ ■ M1 -Z -	
	89	425	16.34	9670	1.4	56	2KJ3106- ■ GJ23- ■ ■ L1 -Z -	
	104	365	14.00	9960	1.6	56	2KJ3106- ■ GJ23- ■ ■ K1 -Z -	
	119	320	12.31	9700	1.9	56	2KJ3106- ■ GJ23- ■ ■ J1 -Z -	
	141	270	10.39	9270	2.2	56	2KJ3106- ■ GJ23- ■ ■ H1 -Z -	
	161	235	9.05	8930	2.5	56	2KJ3106- ■ GJ23- ■ ■ G1 -Z -	
	172	220	8.50	8750	2	56	2KJ3106- ■ GJ23- ■ ■ F1 -Z -	
	202	189	7.23	8360	2.4	56	2KJ3106- ■ GJ23- ■ ■ E1 -Z -	
	235	162	6.20	8000	2.7	56	2KJ3106- ■ GJ23- ■ ■ D1 -Z -	
	268	143	5.45	7700	3	56	2KJ3106- ■ GJ23- ■ ■ C1 -Z -	
	317	120	4.60	7330	3.7	56	2KJ3106- ■ GJ23- ■ ■ B1 -Z -	
	364	105	4.01	7030	4.2	56	2KJ3106- ■ GJ23- ■ ■ A1 -Z -	
	Z.59-FZ90ZLG6TV							
	74	510	20.20	5110	0.87	35	2KJ3105- ■ EV25- ■ ■ P1 -Z P01	
	79	480	19.01	5090	0.93	35	2KJ3105- ■ EV25- ■ ■ N1 -Z P01	
84	455	17.95	5060	0.98	35	2KJ3105- ■ EV25- ■ ■ M1 -Z P01		
98	385	15.27	4490	1.2	35	2KJ3105- ■ EV25- ■ ■ L1 -Z P01		
115	330	13.09	4880	1.3	35	2KJ3105- ■ EV25- ■ ■ K1 -Z P01		
130	290	11.51	4780	1.5	35	2KJ3105- ■ EV25- ■ ■ J1 -Z P01		
154	245	9.71	4630	1.8	35	2KJ3105- ■ EV25- ■ ■ H1 -Z P01		
177	215	8.46	4500	2.1	35	2KJ3105- ■ EV25- ■ ■ G1 -Z P01		
186	205	8.07	4410	2.0	35	2KJ3105- ■ EV25- ■ ■ F1 -Z P01		
219	174	6.86	4270	2.3	35	2KJ3105- ■ EV25- ■ ■ E1 -Z P01		
255	149	5.88	4120	2.7	35	2KJ3105- ■ EV25- ■ ■ D1 -Z P01		
290	131	5.17	4000	3.1	35	2KJ3105- ■ EV25- ■ ■ C1 -Z P01		
344	111	4.36	3840	3.6	35	2KJ3105- ■ EV25- ■ ■ B1 -Z P01		
395	96	3.80	3710	4.2	35	2KJ3105- ■ EV25- ■ ■ A1 -Z P01		
Z.59-LE112ZMKB4P								
72	525	20.20	4930	0.85	51	2KJ3105- ■ GJ23- ■ ■ P1 -Z -		
77	495	19.01	4910	0.9	51	2KJ3105- ■ GJ23- ■ ■ N1 -Z -		
81	470	17.95	4880	0.96	51	2KJ3105- ■ GJ23- ■ ■ M1 -Z -		
96	400	15.27	3960	1.1	51	2KJ3105- ■ GJ23- ■ ■ L1 -Z -		
112	340	13.09	4470	1.3	51	2KJ3105- ■ GJ23- ■ ■ K1 -Z -		
127	300	11.51	4620	1.5	51	2KJ3105- ■ GJ23- ■ ■ J1 -Z -		
150	250	9.71	4500	1.8	51	2KJ3105- ■ GJ23- ■ ■ H1 -Z -		
173	220	8.46	4370	2	51	2KJ3105- ■ GJ23- ■ ■ G1 -Z -		
181	210	8.07	4280	1.9	51	2KJ3105- ■ GJ23- ■ ■ F1 -Z -		
213	179	6.86	4140	2.3	51	2KJ3105- ■ GJ23- ■ ■ E1 -Z -		
248	154	5.88	4000	2.7	51	2KJ3105- ■ GJ23- ■ ■ D1 -Z -		
282	135	5.17	3880	3	51	2KJ3105- ■ GJ23- ■ ■ C1 -Z -		
335	114	4.36	3720	3.6	51	2KJ3105- ■ GJ23- ■ ■ B1 -Z -		
384	99	3.80	3600	4.1	51	2KJ3105- ■ GJ23- ■ ■ A1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
4	Z.49-FZ90ZLG6TV							
	107	355	13.98	3670	0.90	33	2KJ3104- EV25- M1	-Z P01
	125	300	11.97	3630	1.0	33	2KJ3104- EV25- L1	-Z P01
	142	265	10.53	3570	1.2	33	2KJ3104- EV25- K1	-Z P01
	169	225	8.88	3470	1.4	33	2KJ3104- EV25- J1	-Z P01
	194	197	7.74	2880	1.6	33	2KJ3104- EV25- H1	-Z P01
	196	194	7.64	3310	1.5	33	2KJ3104- EV25- G1	-Z P01
	208	183	7.21	3280	1.6	33	2KJ3104- EV25- F1	-Z P01
	244	156	6.14	3180	1.7	33	2KJ3104- EV25- E1	-Z P01
	285	133	5.26	2760	1.8	33	2KJ3104- EV25- D1	-Z P01
	325	117	4.62	2970	1.9	33	2KJ3104- EV25- C1	-Z P01
	385	99	3.90	2890	2.1	33	2KJ3104- EV25- B1	-Z P01
	441	86	3.40	2800	2.2	33	2KJ3104- EV25- A1	-Z P01
	Z.49-LE112ZMKB4P							
104	365	13.98	3670	0.87	49	2KJ3104- GJ23- M1	-Z -	
122	310	11.97	3630	1	49	2KJ3104- GJ23- L1	-Z -	
139	275	10.53	3560	1.2	49	2KJ3104- GJ23- K1	-Z -	
164	230	8.88	3490	1.4	49	2KJ3104- GJ23- J1	-Z -	
189	200	7.74	3410	1.6	49	2KJ3104- GJ23- H1	-Z -	
191	200	7.64	3320	1.5	49	2KJ3104- GJ23- G1	-Z -	
202	189	7.21	3290	1.5	49	2KJ3104- GJ23- F1	-Z -	
238	161	6.14	3190	1.6	49	2KJ3104- GJ23- E1	-Z -	
278	138	5.26	2670	1.8	49	2KJ3104- GJ23- D1	-Z -	
316	121	4.62	2900	1.9	49	2KJ3104- GJ23- C1	-Z -	
374	102	3.90	2900	2	49	2KJ3104- GJ23- B1	-Z -	
429	89	3.40	2810	2.1	49	2KJ3104- GJ23- A1	-Z -	
Z.39-FZ90ZLG6TV								
247	154	6.08	278	0.95	24	2KJ3103- EV25- E1	-Z P01	
275	138	5.45	564	1.0	24	2KJ3103- EV25- D1	-Z P01	
323	118	4.64	897	1.1	24	2KJ3103- EV25- C1	-Z P01	
377	101	3.98	1170	1.2	24	2KJ3103- EV25- B1	-Z P01	
437	87	3.43	1370	1.3	24	2KJ3103- EV25- A1	-Z P01	
E.129-FZ90ZLG6TV								
153	245	9.79	13500	2.7	91	2KJ3006- EV25- T1	-Z P01	
179	210	8.38	13500	3.1	91	2KJ3006- EV25- S1	-Z P01	
190	200	7.88	13500	3.3	91	2KJ3006- EV25- R1	-Z P01	
203	188	7.39	13500	4.3	91	2KJ3006- EV25- Q1	-Z P01	
E.129-LE112ZMKB4P								
149	255	9.79	13500	2.6	114	2KJ3006- GJ23- T1	-Z -	
174	215	8.38	13500	3	114	2KJ3006- GJ23- S1	-Z -	
185	205	7.88	13500	3.2	114	2KJ3006- GJ23- R1	-Z -	
198	193	7.39	13500	4.1	114	2KJ3006- GJ23- Q1	-Z -	
E.109-FZ90ZLG6TV								
209	183	7.19	10500	3.1	69	2KJ3005- EV25- Q1	-Z P01	
222	172	6.76	10500	3.3	69	2KJ3005- EV25- P1	-Z P01	
239	159	6.28	10500	3.5	69	2KJ3005- EV25- N1	-Z P01	
270	141	5.55	10500	4.0	69	2KJ3005- EV25- M1	-Z P01	
303	126	4.95	10500	4.4	69	2KJ3005- EV25- L1	-Z P01	
336	113	4.46	10500	4.9	69	2KJ3005- EV25- K1	-Z P01	
E.109-LE112ZMKB4P								
203	188	7.19	10500	3	89	2KJ3005- GJ23- Q1	-Z -	
216	177	6.76	10500	3.2	89	2KJ3005- GJ23- P1	-Z -	
232	164	6.28	10500	3.4	89	2KJ3005- GJ23- N1	-Z -	
263	145	5.55	10500	3.9	89	2KJ3005- GJ23- M1	-Z -	
295	130	4.95	10500	4.3	89	2KJ3005- GJ23- L1	-Z -	
327	117	4.46	10500	4.8	89	2KJ3005- GJ23- K1	-Z -	
E.89-FZ90ZLG6TV								
226	169	6.64	8000	1.5	48	2KJ3004- EV25- P1	-Z P01	
267	143	5.62	8000	2.2	48	2KJ3004- EV25- N1	-Z P01	
284	134	5.29	8000	1.6	48	2KJ3004- EV25- M1	-Z P01	
307	124	4.89	8000	2.9	48	2KJ3004- EV25- L1	-Z P01	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
4	E.89-FZ90ZLG6TV							
	345	110	4.35	8000	3.2	48	2KJ3004- EV25- K1 -Z	P01
	389	98	3.86	8000	3.7	48	2KJ3004- EV25- J1 -Z	P01
	434	88	3.46	8000	4.1	48	2KJ3004- EV25- H1 -Z	P01
	507	75	2.96	8000	4.8	48	2KJ3004- EV25- G1 -Z	P01
	568	67	2.64	8000	5.4	48	2KJ3004- EV25- F1 -Z	P01
	E.89-LE112ZMKB4P							
	151	250	9.67	8000	1.1	65	2KJ3004- GJ23- T1 -Z	-
	167	225	8.73	8000	1.2	65	2KJ3004- GJ23- S1 -Z	-
	184	205	7.92	8000	1.4	65	2KJ3004- GJ23- R1 -Z	-
	200	191	7.31	8000	1.4	65	2KJ3004- GJ23- Q1 -Z	-
	220	174	6.64	8000	1.5	65	2KJ3004- GJ23- P1 -Z	-
	260	147	5.62	8000	2.2	65	2KJ3004- GJ23- N1 -Z	-
	276	138	5.29	8000	1.5	65	2KJ3004- GJ23- M1 -Z	-
	299	128	4.89	8000	2.8	65	2KJ3004- GJ23- L1 -Z	-
	336	114	4.35	8000	3.2	65	2KJ3004- GJ23- K1 -Z	-
	378	101	3.86	8000	3.6	65	2KJ3004- GJ23- J1 -Z	-
	422	90	3.46	8000	4	65	2KJ3004- GJ23- H1 -Z	-
	493	77	2.96	8000	4.6	65	2KJ3004- GJ23- G1 -Z	-
	553	69	2.64	8000	5.2	65	2KJ3004- GJ23- F1 -Z	-
627	61	2.33	8000	5.9	65	2KJ3004- GJ23- E1 -Z	-	
E.69-FZ90ZLG6TV								
288	132	5.21	6100	1.5	36	2KJ3003- EV25- L1 -Z	P01	
342	111	4.38	6100	1.8	36	2KJ3003- EV25- K1 -Z	P01	
364	104	4.12	6100	1.6	36	2KJ3003- EV25- J1 -Z	P01	
397	96	3.78	6100	2.1	36	2KJ3003- EV25- H1 -Z	P01	
455	84	3.30	6100	2.4	36	2KJ3003- EV25- G1 -Z	P01	
508	75	2.95	6100	2.7	36	2KJ3003- EV25- F1 -Z	P01	
581	65	2.58	6100	3.0	36	2KJ3003- EV25- E1 -Z	P01	
676	56	2.22	6100	3.5	36	2KJ3003- EV25- D1 -Z	P01	
765	49	1.96	6100	3.9	36	2KJ3003- EV25- C1 -Z	P01	
E.69-LE112ZMKB4P								
193	198	7.58	6100	1	52	2KJ3003- GJ23- Q1 -Z	-	
214	178	6.82	6100	0.95	52	2KJ3003- GJ23- P1 -Z	-	
237	161	6.17	6100	1.3	52	2KJ3003- GJ23- N1 -Z	-	
257	149	5.69	6100	1.1	52	2KJ3003- GJ23- M1 -Z	-	
280	136	5.21	6100	1.5	52	2KJ3003- GJ23- L1 -Z	-	
333	115	4.38	6100	1.7	52	2KJ3003- GJ23- K1 -Z	-	
354	108	4.12	6100	1.5	52	2KJ3003- GJ23- J1 -Z	-	
386	99	3.78	6100	2	52	2KJ3003- GJ23- H1 -Z	-	
442	86	3.30	6100	2.3	52	2KJ3003- GJ23- G1 -Z	-	
495	77	2.95	6100	2.6	52	2KJ3003- GJ23- F1 -Z	-	
566	68	2.58	6100	2.9	52	2KJ3003- GJ23- E1 -Z	-	
658	58	2.22	6100	3.4	52	2KJ3003- GJ23- D1 -Z	-	
745	51	1.96	6100	3.8	52	2KJ3003- GJ23- C1 -Z	-	
874	44	1.67	6100	4.5	52	2KJ3003- GJ23- B1 -Z	-	
1021	37	1.43	6100	5.2	52	2KJ3003- GJ23- A1 -Z	-	
E.49-FZ90ZLG6TV								
362	105	4.14	3620	0.97	29	2KJ3002- EV25- J1 -Z	P01	
436	87	3.44	3630	1.2	29	2KJ3002- EV25- H1 -Z	P01	
463	82	3.24	3580	1.2	29	2KJ3002- EV25- G1 -Z	P01	
490	77	3.06	3540	1.3	29	2KJ3002- EV25- F1 -Z	P01	
577	66	2.60	3390	1.5	29	2KJ3002- EV25- E1 -Z	P01	
673	56	2.23	3260	1.8	29	2KJ3002- EV25- D1 -Z	P01	
765	49	1.96	3150	2.1	29	2KJ3002- EV25- C1 -Z	P01	
909	42	1.65	2990	2.5	29	2KJ3002- EV25- B1 -Z	P01	
1042	36	1.44	2880	2.8	29	2KJ3002- EV25- A1 -Z	P01	
E.49-LE112ZMKB4P								
322	119	4.54	3790	0.86	45	2KJ3002- GJ23- K1 -Z	-	
353	108	4.14	3920	0.94	45	2KJ3002- GJ23- J1 -Z	-	
424	90	3.44	3800	1.1	45	2KJ3002- GJ23- H1 -Z	-	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
4	E.49-LE112ZMK84P							
	451	85	3.24	3750	1.2	45	2KJ3002- GJ23- G1 -Z -	
	477	80	3.06	3700	1.3	45	2KJ3002- GJ23- F1 -Z -	
	562	68	2.60	3550	1.5	45	2KJ3002- GJ23- E1 -Z -	
	655	58	2.23	3410	1.7	45	2KJ3002- GJ23- D1 -Z -	
	745	51	1.96	3290	2	45	2KJ3002- GJ23- C1 -Z -	
	885	43	1.65	3140	2.4	45	2KJ3002- GJ23- B1 -Z -	
	1014	38	1.44	3010	2.7	45	2KJ3002- GJ23- A1 -Z -	
	E.39-FZ90ZLG6TV							
	512	74	2.93	841	0.87	25	2KJ3001- EV25- G1 -Z P01	
	857	44	1.75	1270	1.5	25	2KJ3001- EV25- C1 -Z P01	
	1000	38	1.50	1310	1.6	25	2KJ3001- EV25- B1 -Z P01	
	1163	32	1.29	1380	1.6	25	2KJ3001- EV25- A1 -Z P01	
	E.39-LE112ZMK84P							
	498	77	2.93	905	0.85	40	2KJ3001- GJ23- G1 -Z -	
	973	39	1.50	1580	1.6	40	2KJ3001- GJ23- B1 -Z -	
	1132	34	1.29	1580	1.6	40	2KJ3001- GJ23- A1 -Z -	
	5.5	D.189-LE132ZMS6P						
3.1		16800	313.63	107000	1.1	700	2KJ3214- HL23- T1 -Z P01	
3.5		15100	280.59	107000	1.3	700	2KJ3214- HL23- S1 -Z P01	
3.9		13600	253.06	107000	1.4	700	2KJ3214- HL23- R1 -Z P01	
4.4		12000	223.66	107000	1.6	700	2KJ3214- HL23- Q1 -Z P01	
D.189-LE132ZST4P								
4.7		11200	313.63	107000	1.7	700	2KJ3214- HJ23- T1 -Z -	
5.2		10000	280.59	107000	1.9	700	2KJ3214- HJ23- S1 -Z -	
5.8		9040	253.06	107000	2.1	700	2KJ3214- HJ23- R1 -Z -	
D.169-LE132ZMS6P								
3.2		16400	305.28	69200	0.85	487	2KJ3213- HL23- U1 -Z P01	
3.6		14600	271.40	69900	0.96	487	2KJ3213- HL23- T1 -Z P01	
4		13100	243.68	70500	1.1	487	2KJ3213- HL23- S1 -Z P01	
D.169-LE132ZST4P								
4.5		11600	327.18	71000	1.2	487	2KJ3213- HJ23- V1 -Z -	
4.8		10900	305.28	71300	1.3	487	2KJ3213- HJ23- U1 -Z -	
5.4		9690	271.40	71700	1.4	487	2KJ3213- HJ23- T1 -Z -	
6		8700	243.68	72100	1.6	487	2KJ3213- HJ23- S1 -Z -	
6.7		7880	220.58	72400	1.8	487	2KJ3213- HJ23- R1 -Z -	
7.6		6920	193.75	72800	2	487	2KJ3213- HJ23- Q1 -Z -	
D.149-LE132ZST4P								
5.2		10000	281.04	50200	0.8	309	2KJ3212- HJ23- V1 -Z -	
5.6		9450	264.51	50500	0.85	309	2KJ3212- HJ23- U1 -Z -	
5.9		8860	247.95	50800	0.9	309	2KJ3212- HJ23- T1 -Z -	
6.7		7850	219.80	51200	1	309	2KJ3212- HJ23- S1 -Z -	
7.5		6970	195.24	51600	1.1	309	2KJ3212- HJ23- R1 -Z -	
8.3		6290	176.18	52000	1.3	309	2KJ3212- HJ23- Q1 -Z -	
9.4		5570	156.11	52300	1.4	309	2KJ3212- HJ23- P1 -Z -	
11		4940	138.26	52600	1.6	309	2KJ3212- HJ23- N1 -Z -	
12		4390	123.04	52900	1.8	309	2KJ3212- HJ23- M1 -Z -	
13		3940	110.26	53100	2	309	2KJ3212- HJ23- L1 -Z -	
D.129-LE132ZST4P								
8.8		5990	167.63	26400	0.83	224	2KJ3211- HJ23- J1 -Z -	
10		5190	145.49	26900	0.96	224	2KJ3211- HJ23- H1 -Z -	
11		4670	130.84	27200	1.1	224	2KJ3211- HJ23- G1 -Z -	
13		4080	114.36	27600	1.2	224	2KJ3211- HJ23- F1 -Z -	
14		3640	102.05	27800	1.4	224	2KJ3211- HJ23- E1 -Z -	
16		3210	89.91	28100	1.6	224	2KJ3211- HJ23- D1 -Z -	
19		2810	78.78	28300	1.8	224	2KJ3211- HJ23- C1 -Z -	
Z.129-LE132ZST4P								
24		2230	62.48	28600	2.2	220	2KJ3111- HJ23- X1 -Z -	
D.109-LE132ZST4P								
14		3810	106.70	20000	0.81	160	2KJ3210- HJ23- G1 -Z -	
15		3400	95.28	20200	0.91	160	2KJ3210- HJ23- F1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
5.5	D.109-LE132ZST4P							
	17	3000	84.21	20200	1	160	2KJ3210- HJ23- E1 -Z -	
	20	2640	73.90	20200	1.2	160	2KJ3210- HJ23- D1 -Z -	
	23	2290	64.34	20200	1.3	160	2KJ3210- HJ23- C1 -Z -	
	Z.109-LE132ZST4P							
	29	1820	51.17	20200	1.7	158	2KJ3110- HJ23- X1 -Z -	
	34	1550	43.64	20200	2	158	2KJ3110- HJ23- W1 -Z -	
	36	1460	41.07	20200	2.1	158	2KJ3110- HJ23- V1 -Z -	
	39	1360	38.12	20200	2.3	158	2KJ3110- HJ23- U1 -Z -	
	44	1200	33.70	20200	2.6	158	2KJ3110- HJ23- T1 -Z -	
	D.89-LE132ZST4P							
	26	1990	55.84	18500	0.84	119	2KJ3208- HJ23- B1 -Z -	
	31	1710	47.87	18500	0.98	119	2KJ3208- HJ23- A1 -Z -	
	Z.89-LE132ZST4P							
	37	1400	39.41	18500	1.2	118	2KJ3108- HJ23- U1 -Z -	
	44	1190	33.38	18500	1.4	118	2KJ3108- HJ23- T1 -Z -	
	47	1120	31.41	18500	1.5	118	2KJ3108- HJ23- S1 -Z -	
	51	1030	29.01	18500	1.6	118	2KJ3108- HJ23- R1 -Z -	
	57	920	25.81	18500	1.8	118	2KJ3108- HJ23- Q1 -Z -	
	64	815	22.92	18500	2.1	118	2KJ3108- HJ23- P1 -Z -	
	72	730	20.52	18500	2.3	118	2KJ3108- HJ23- N1 -Z -	
84	625	17.54	18500	2.7	118	2KJ3108- HJ23- M1 -Z -		
94	560	15.66	18400	3	118	2KJ3108- HJ23- L1 -Z -		
106	495	13.84	17800	3.4	118	2KJ3108- HJ23- K1 -Z -		
213	245	6.89	14600	4.3	118	2KJ3108- HJ23- E1 -Z -		
Z.79-LE132ZST4P								
57	915	25.62	13100	0.92	96	2KJ3107- HJ23- R1 -Z -		
61	860	24.12	12900	0.97	96	2KJ3107- HJ23- Q1 -Z -		
66	790	22.13	12700	1.1	96	2KJ3107- HJ23- P1 -Z -		
76	690	19.33	12300	1.2	96	2KJ3107- HJ23- N1 -Z -		
85	615	17.31	8540	1.4	96	2KJ3107- HJ23- M1 -Z -		
97	540	15.13	8890	1.6	96	2KJ3107- HJ23- L1 -Z -		
113	460	12.99	9250	1.8	96	2KJ3107- HJ23- K1 -Z -		
128	410	11.48	9350	2	96	2KJ3107- HJ23- J1 -Z -		
151	345	9.76	9510	2.3	96	2KJ3107- HJ23- H1 -Z -		
176	295	8.37	9530	2.6	96	2KJ3107- HJ23- G1 -Z -		
179	290	8.19	8510	2.4	96	2KJ3107- HJ23- F1 -Z -		
205	255	7.16	8550	2.9	96	2KJ3107- HJ23- E1 -Z -		
239	220	6.15	8540	3.3	96	2KJ3107- HJ23- D1 -Z -		
271	194	5.43	8510	3.5	96	2KJ3107- HJ23- C1 -Z -		
318	165	4.62	8410	4.7	96	2KJ3107- HJ23- B1 -Z -		
Z.69-LE132ZST4P								
72	725	20.34	10300	0.83	86	2KJ3106- HJ23- N1 -Z -		
77	685	19.21	10200	0.87	86	2KJ3106- HJ23- M1 -Z -		
90	580	16.34	9890	1	86	2KJ3106- HJ23- L1 -Z -		
105	500	14.00	7190	1.2	86	2KJ3106- HJ23- K1 -Z -		
119	440	12.31	7680	1.4	86	2KJ3106- HJ23- J1 -Z -		
141	370	10.39	8180	1.6	86	2KJ3106- HJ23- H1 -Z -		
162	320	9.05	8490	1.8	86	2KJ3106- HJ23- G1 -Z -		
173	300	8.50	7200	1.5	86	2KJ3106- HJ23- F1 -Z -		
203	255	7.23	7550	1.7	86	2KJ3106- HJ23- E1 -Z -		
237	220	6.20	7720	2	86	2KJ3106- HJ23- D1 -Z -		
270	195	5.45	7510	2.2	86	2KJ3106- HJ23- C1 -Z -		
320	164	4.60	7160	2.7	86	2KJ3106- HJ23- B1 -Z -		
367	143	4.01	6890	3.1	86	2KJ3106- HJ23- A1 -Z -		
Z.59-LE132ZST4P								
96	545	15.27	4210	0.82	81	2KJ3105- HJ23- L1 -Z -		
112	465	13.09	4210	0.96	81	2KJ3105- HJ23- K1 -Z -		
128	410	11.51	4170	1.1	81	2KJ3105- HJ23- J1 -Z -		
151	345	9.71	3360	1.3	81	2KJ3105- HJ23- H1 -Z -		
174	300	8.46	3740	1.5	81	2KJ3105- HJ23- G1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
5.5	Z.59-LE132ZST4P							
	182	285	8.07	2740	1.4	81	2KJ3105- HJ23- F1	-Z -
	214	245	6.86	3140	1.7	81	2KJ3105- HJ23- E1	-Z -
	250	210	5.88	3480	2	81	2KJ3105- HJ23- D1	-Z -
	284	185	5.17	3660	2.2	81	2KJ3105- HJ23- C1	-Z -
	337	156	4.36	3540	2.6	81	2KJ3105- HJ23- B1	-Z -
	387	136	3.80	3430	3	81	2KJ3105- HJ23- A1	-Z -
	Z.49-LE132ZST4P							
	140	375	10.53	3160	0.85	79	2KJ3104- HJ23- K1	-Z -
	166	315	8.88	3140	1	79	2KJ3104- HJ23- J1	-Z -
	190	275	7.74	3100	1.2	79	2KJ3104- HJ23- H1	-Z -
	192	270	7.64	3010	1.1	79	2KJ3104- HJ23- G1	-Z -
	204	255	7.21	2990	1.1	79	2KJ3104- HJ23- F1	-Z -
	239	215	6.14	2950	1.2	79	2KJ3104- HJ23- E1	-Z -
	279	188	5.26	2870	1.3	79	2KJ3104- HJ23- D1	-Z -
	318	165	4.62	2820	1.4	79	2KJ3104- HJ23- C1	-Z -
	377	139	3.90	2730	1.5	79	2KJ3104- HJ23- B1	-Z -
	432	121	3.40	2240	1.6	79	2KJ3104- HJ23- A1	-Z -
E.149-LE132ZST4P								
151	345	9.76	16000	3.4	182	2KJ3007- HJ23- S1	-Z -	
161	325	9.11	16000	3.9	182	2KJ3007- HJ23- R1	-Z -	
E.129-LE132ZST4P								
150	350	9.79	13500	1.9	144	2KJ3006- HJ23- T1	-Z -	
175	295	8.38	13500	2.2	144	2KJ3006- HJ23- S1	-Z -	
187	280	7.88	13500	2.4	144	2KJ3006- HJ23- R1	-Z -	
199	260	7.39	13500	3	144	2KJ3006- HJ23- Q1	-Z -	
224	230	6.55	13500	3.4	144	2KJ3006- HJ23- P1	-Z -	
253	205	5.82	13500	3.8	144	2KJ3006- HJ23- N1	-Z -	
280	188	5.25	13500	4.2	144	2KJ3006- HJ23- M1	-Z -	
316	166	4.65	13500	4.8	144	2KJ3006- HJ23- L1	-Z -	
357	147	4.12	13500	5.3	144	2KJ3006- HJ23- K1	-Z -	
E.109-LE132ZST4P								
204	255	7.19	10500	2.2	119	2KJ3005- HJ23- Q1	-Z -	
217	240	6.76	10500	2.3	119	2KJ3005- HJ23- P1	-Z -	
234	220	6.28	10500	2.5	119	2KJ3005- HJ23- N1	-Z -	
265	198	5.55	10500	2.8	119	2KJ3005- HJ23- M1	-Z -	
297	177	4.95	10500	3.2	119	2KJ3005- HJ23- L1	-Z -	
330	159	4.46	10500	3.5	119	2KJ3005- HJ23- K1	-Z -	
380	138	3.87	10500	4	119	2KJ3005- HJ23- J1	-Z -	
422	124	3.48	10500	4.4	119	2KJ3005- HJ23- H1	-Z -	
484	109	3.04	10500	5	119	2KJ3005- HJ23- G1	-Z -	
542	97	2.71	10500	5.6	119	2KJ3005- HJ23- F1	-Z -	
E.89-LE132ZST4P								
221	235	6.64	8000	1.1	96	2KJ3004- HJ23- P1	-Z -	
262	200	5.62	8000	1.6	96	2KJ3004- HJ23- N1	-Z -	
278	189	5.29	8000	1.1	96	2KJ3004- HJ23- M1	-Z -	
301	175	4.89	8000	2.1	96	2KJ3004- HJ23- L1	-Z -	
338	155	4.35	8000	2.3	96	2KJ3004- HJ23- K1	-Z -	
381	138	3.86	8000	2.6	96	2KJ3004- HJ23- J1	-Z -	
425	124	3.46	8000	3	96	2KJ3004- HJ23- H1	-Z -	
497	106	2.96	8000	3.4	96	2KJ3004- HJ23- G1	-Z -	
557	94	2.64	8000	3.8	96	2KJ3004- HJ23- F1	-Z -	
631	83	2.33	8000	4.3	96	2KJ3004- HJ23- E1	-Z -	
717	73	2.05	7920	4.9	96	2KJ3004- HJ23- D1	-Z -	
826	64	1.78	7630	5.7	96	2KJ3004- HJ23- C1	-Z -	
967	54	1.52	7320	6.6	96	2KJ3004- HJ23- B1	-Z -	
E.69-LE132ZST4P								
282	186	5.21	6100	1.1	82	2KJ3003- HJ23- L1	-Z -	
336	157	4.38	6100	1.3	82	2KJ3003- HJ23- K1	-Z -	
357	147	4.12	6100	1.1	82	2KJ3003- HJ23- J1	-Z -	
389	135	3.78	6100	1.5	82	2KJ3003- HJ23- H1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
5.5	E.69-LE132ZST4P							
	445	118	3.30	6100	1.7	82	2KJ3003- HJ23- G1	-Z -
	498	105	2.95	6100	1.9	82	2KJ3003- HJ23- F1	-Z -
	570	92	2.58	6100	2.1	82	2KJ3003- HJ23- E1	-Z -
	662	79	2.22	6100	2.5	82	2KJ3003- HJ23- D1	-Z -
	750	70	1.96	6100	2.8	82	2KJ3003- HJ23- C1	-Z -
	880	60	1.67	6100	3.3	82	2KJ3003- HJ23- B1	-Z -
	1028	51	1.43	6100	3.8	82	2KJ3003- HJ23- A1	-Z -
	E.49-LE132ZST4P							
	427	123	3.44	2530	0.82	75	2KJ3002- HJ23- H1	-Z -
	454	116	3.24	2680	0.87	75	2KJ3002- HJ23- G1	-Z -
	480	109	3.06	2840	0.92	75	2KJ3002- HJ23- F1	-Z -
	565	93	2.60	2940	1.1	75	2KJ3002- HJ23- E1	-Z -
	750	70	1.96	3050	1.5	75	2KJ3002- HJ23- C1	-Z -
	891	59	1.65	3010	1.7	75	2KJ3002- HJ23- B1	-Z -
1021	52	1.44	2900	2	75	2KJ3002- HJ23- A1	-Z -	
7.5	D.189-LE132ZMS4P							
	4.7	15300	313.63	107000	1.2	700	2KJ3214- HL23- T1	-Z -
	5.2	13700	280.59	107000	1.4	700	2KJ3214- HL23- S1	-Z -
	5.8	12300	253.06	107000	1.5	700	2KJ3214- HL23- R1	-Z -
	6.6	10900	223.66	107000	1.7	700	2KJ3214- HL23- Q1	-Z -
	7.2	9990	204.44	107000	1.9	700	2KJ3214- HL23- P1	-Z -
	8	8990	183.92	107000	2.1	700	2KJ3214- HL23- N1	-Z -
	D.169-LE132ZMS4P							
	4.5	15900	327.18	69400	0.88	487	2KJ3213- HL23- V1	-Z -
	4.8	14900	305.28	69800	0.94	487	2KJ3213- HL23- U1	-Z -
	5.4	13200	271.40	70400	1.1	487	2KJ3213- HL23- T1	-Z -
	6	11900	243.68	70900	1.2	487	2KJ3213- HL23- S1	-Z -
	6.6	10700	220.58	71300	1.3	487	2KJ3213- HL23- R1	-Z -
	7.6	9470	193.75	71800	1.5	487	2KJ3213- HL23- Q1	-Z -
	8.3	8580	175.57	72100	1.6	487	2KJ3213- HL23- P1	-Z -
9.4	7640	156.36	72500	1.8	487	2KJ3213- HL23- N1	-Z -	
10	6860	140.41	72800	2	487	2KJ3213- HL23- M1	-Z -	
D.149-LE132ZMS4P								
7.5	9540	195.24	50400	0.84	309	2KJ3212- HL23- R1	-Z -	
8.3	8610	176.18	50900	0.93	309	2KJ3212- HL23- Q1	-Z -	
9.4	7630	156.11	51300	1	309	2KJ3212- HL23- P1	-Z -	
11	6760	138.26	51700	1.2	309	2KJ3212- HL23- N1	-Z -	
12	6010	123.04	52100	1.3	309	2KJ3212- HL23- M1	-Z -	
13	5390	110.26	52400	1.5	309	2KJ3212- HL23- L1	-Z -	
15	4770	97.75	52700	1.7	309	2KJ3212- HL23- K1	-Z -	
17	4210	86.29	53000	1.9	309	2KJ3212- HL23- J1	-Z -	
19	3700	75.87	53200	2.2	309	2KJ3212- HL23- H1	-Z -	
21	3350	68.71	53400	2.4	309	2KJ3212- HL23- G1	-Z -	
D.129-LE132ZMS4P								
13	5590	114.36	26700	0.89	240	2KJ3211- HL23- F1	-Z -	
14	4980	102.05	27000	1	240	2KJ3211- HL23- E1	-Z -	
16	4390	89.91	27400	1.1	240	2KJ3211- HL23- D1	-Z -	
19	3850	78.78	27700	1.3	240	2KJ3211- HL23- C1	-Z -	
Z.129-LE132ZMS4P								
23	3050	62.48	28200	1.6	220	2KJ3111- HL23- X1	-Z -	
27	2610	53.47	28400	1.9	220	2KJ3111- HL23- W1	-Z -	
29	2460	50.33	28500	2	220	2KJ3111- HL23- V1	-Z -	
31	2300	47.18	28600	2.2	220	2KJ3111- HL23- U1	-Z -	
35	2040	41.82	28800	2.4	220	2KJ3111- HL23- T1	-Z -	
D.109-LE132ZMS4P								
20	3610	73.90	20200	0.86	160	2KJ3210- HL23- D1	-Z -	
23	3140	64.34	20200	0.99	160	2KJ3210- HL23- C1	-Z -	
Z.109-LE132ZMS4P								
29	2500	51.17	20200	1.2	158	2KJ3110- HL23- X1	-Z -	
34	2130	43.64	20200	1.5	158	2KJ3110- HL23- W1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
7.5	Z.109-LE132ZMS4P							
	36	2000	41.07	20200	1.5	158	2KJ3110- HL23- V1	-Z -
	38	1860	38.12	20200	1.7	158	2KJ3110- HL23- U1	-Z -
	43	1640	33.70	20200	1.9	158	2KJ3110- HL23- T1	-Z -
	49	1470	30.08	20200	2.1	158	2KJ3110- HL23- S1	-Z -
	54	1320	27.07	20200	2.3	158	2KJ3110- HL23- R1	-Z -
	62	1140	23.49	20200	2.5	158	2KJ3110- HL23- Q1	-Z -
	69	1030	21.13	20200	2.7	158	2KJ3110- HL23- P1	-Z -
	79	900	18.47	20200	3	158	2KJ3110- HL23- N1	-Z -
	89	805	16.48	20200	3.3	158	2KJ3110- HL23- M1	-Z -
	Z.89-LE132ZMS4P							
	37	1920	39.41	18500	0.87	118	2KJ3108- HL23- U1	-Z -
	44	1630	33.38	18500	1	118	2KJ3108- HL23- T1	-Z -
	47	1530	31.41	18500	1.1	118	2KJ3108- HL23- S1	-Z -
	50	1410	29.01	18500	1.2	118	2KJ3108- HL23- R1	-Z -
	57	1260	25.81	18500	1.3	118	2KJ3108- HL23- Q1	-Z -
	64	1120	22.92	18500	1.5	118	2KJ3108- HL23- P1	-Z -
	71	1000	20.52	18500	1.7	118	2KJ3108- HL23- N1	-Z -
	84	855	17.54	18400	2	118	2KJ3108- HL23- M1	-Z -
94	765	15.66	17800	2.2	118	2KJ3108- HL23- L1	-Z -	
106	675	13.84	17300	2.5	118	2KJ3108- HL23- K1	-Z -	
121	590	12.15	16700	2.7	118	2KJ3108- HL23- J1	-Z -	
138	515	10.58	16100	3.1	118	2KJ3108- HL23- H1	-Z -	
162	440	9.04	15400	3.5	118	2KJ3108- HL23- G1	-Z -	
189	375	7.74	14800	4	118	2KJ3108- HL23- F1	-Z -	
213	335	6.89	14400	3.1	118	2KJ3108- HL23- E1	-Z -	
242	295	6.05	13800	3.6	118	2KJ3108- HL23- D1	-Z -	
279	255	5.26	13200	4.1	118	2KJ3108- HL23- C1	-Z -	
326	220	4.50	12600	4.8	118	2KJ3108- HL23- B1	-Z -	
Z.79-LE132ZMS4P								
76	945	19.33	11600	0.89	96	2KJ3107- HL23- N1	-Z -	
85	845	17.31	11400	0.99	96	2KJ3107- HL23- M1	-Z -	
97	740	15.13	11100	1.1	96	2KJ3107- HL23- L1	-Z -	
113	635	12.99	10700	1.3	96	2KJ3107- HL23- K1	-Z -	
128	560	11.48	10400	1.5	96	2KJ3107- HL23- J1	-Z -	
150	475	9.76	10100	1.7	96	2KJ3107- HL23- H1	-Z -	
175	405	8.37	7890	1.9	96	2KJ3107- HL23- G1	-Z -	
179	400	8.19	6500	1.8	96	2KJ3107- HL23- F1	-Z -	
205	350	7.16	6810	2.1	96	2KJ3107- HL23- E1	-Z -	
238	300	6.15	7080	2.4	96	2KJ3107- HL23- D1	-Z -	
270	265	5.43	7220	2.6	96	2KJ3107- HL23- C1	-Z -	
317	225	4.62	7320	3.4	96	2KJ3107- HL23- B1	-Z -	
370	194	3.96	7310	4	96	2KJ3107- HL23- A1	-Z -	
Z.69-LE132ZMS4P								
105	680	14.00	8990	0.88	86	2KJ3106- HL23- K1	-Z -	
119	600	12.31	8780	1	86	2KJ3106- HL23- J1	-Z -	
141	505	10.39	8490	1.2	86	2KJ3106- HL23- H1	-Z -	
162	440	9.05	6080	1.3	86	2KJ3106- HL23- G1	-Z -	
172	415	8.50	8090	1.1	86	2KJ3106- HL23- F1	-Z -	
203	350	7.23	7810	1.3	86	2KJ3106- HL23- E1	-Z -	
236	300	6.20	5750	1.5	86	2KJ3106- HL23- D1	-Z -	
269	265	5.45	6060	1.6	86	2KJ3106- HL23- C1	-Z -	
318	225	4.60	6360	2	86	2KJ3106- HL23- B1	-Z -	
365	196	4.01	6540	2.3	86	2KJ3106- HL23- A1	-Z -	
Z.59-LE132ZMS4P								
127	560	11.51	3590	0.8	81	2KJ3105- HL23- J1	-Z -	
151	475	9.71	3600	0.95	81	2KJ3105- HL23- H1	-Z -	
173	410	8.46	3610	1.1	81	2KJ3105- HL23- G1	-Z -	
182	395	8.07	3500	1	81	2KJ3105- HL23- F1	-Z -	
214	335	6.86	3480	1.2	81	2KJ3105- HL23- E1	-Z -	
249	285	5.88	3440	1.4	81	2KJ3105- HL23- D1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
7.5	Z.59-LE132ZMS4P							
	283	250	5.17	2280	1.6	81	2KJ3105- HL23- C1	-Z -
	336	210	4.36	2720	1.9	81	2KJ3105- HL23- B1	-Z -
	386	186	3.80	2920	2.2	81	2KJ3105- HL23- A1	-Z -
	Z.49-LE132ZMS4P							
	189	375	7.74	2710	0.85	79	2KJ3104- HL23- H1	-Z -
	203	350	7.21	2590	0.82	79	2KJ3104- HL23- F1	-Z -
	239	300	6.14	2590	0.88	79	2KJ3104- HL23- E1	-Z -
	279	255	5.26	2590	0.95	79	2KJ3104- HL23- D1	-Z -
	317	225	4.62	2560	1	79	2KJ3104- HL23- C1	-Z -
	376	191	3.90	2510	1.1	79	2KJ3104- HL23- B1	-Z -
	431	166	3.40	2470	1.1	79	2KJ3104- HL23- A1	-Z -
	E.149-LE132ZMS4P							
	150	475	9.76	16000	2.5	182	2KJ3007- HL23- S1	-Z -
	161	445	9.11	16000	2.8	182	2KJ3007- HL23- R1	-Z -
	181	395	8.10	16000	3.4	182	2KJ3007- HL23- Q1	-Z -
	202	355	7.27	16000	3.8	182	2KJ3007- HL23- P1	-Z -
	223	320	6.58	16000	4.1	182	2KJ3007- HL23- N1	-Z -
	E.129-LE132ZMS4P							
	150	475	9.79	13500	1.4	144	2KJ3006- HL23- T1	-Z -
	175	410	8.38	13500	1.6	144	2KJ3006- HL23- S1	-Z -
	186	385	7.88	13500	1.7	144	2KJ3006- HL23- R1	-Z -
	198	360	7.39	13500	2.2	144	2KJ3006- HL23- Q1	-Z -
	224	320	6.55	13500	2.5	144	2KJ3006- HL23- P1	-Z -
	252	285	5.82	13500	2.8	144	2KJ3006- HL23- N1	-Z -
	279	255	5.25	13500	3.1	144	2KJ3006- HL23- M1	-Z -
	315	225	4.65	13500	3.5	144	2KJ3006- HL23- L1	-Z -
	356	200	4.12	13500	3.9	144	2KJ3006- HL23- K1	-Z -
	399	179	3.67	13500	4.3	144	2KJ3006- HL23- J1	-Z -
	445	161	3.29	13300	4.8	144	2KJ3006- HL23- H1	-Z -
	503	142	2.91	12800	5.4	144	2KJ3006- HL23- G1	-Z -
	E.109-LE132ZMS4P							
	204	350	7.19	10500	1.6	119	2KJ3005- HL23- Q1	-Z -
	217	330	6.76	10500	1.7	119	2KJ3005- HL23- P1	-Z -
	233	305	6.28	10500	1.8	119	2KJ3005- HL23- N1	-Z -
	264	270	5.55	10500	2.1	119	2KJ3005- HL23- M1	-Z -
	296	240	4.95	10500	2.3	119	2KJ3005- HL23- L1	-Z -
	328	215	4.46	10500	2.6	119	2KJ3005- HL23- K1	-Z -
	379	189	3.87	10500	2.9	119	2KJ3005- HL23- J1	-Z -
	421	170	3.48	10500	3.2	119	2KJ3005- HL23- H1	-Z -
	482	149	3.04	10500	3.7	119	2KJ3005- HL23- G1	-Z -
	541	132	2.71	10500	4.1	119	2KJ3005- HL23- F1	-Z -
	613	117	2.39	10500	4.6	119	2KJ3005- HL23- E1	-Z -
	698	103	2.10	10500	5.2	119	2KJ3005- HL23- D1	-Z -
	801	90	1.83	10100	5.9	119	2KJ3005- HL23- C1	-Z -
	877	82	1.67	9900	6.5	119	2KJ3005- HL23- B1	-Z -
	E.89-LE132ZMS4P							
	221	325	6.64	8000	0.8	96	2KJ3004- HL23- P1	-Z -
	261	275	5.62	8000	1.2	96	2KJ3004- HL23- N1	-Z -
	277	255	5.29	8000	0.81	96	2KJ3004- HL23- M1	-Z -
	300	235	4.89	8000	1.5	96	2KJ3004- HL23- L1	-Z -
	337	210	4.35	8000	1.7	96	2KJ3004- HL23- K1	-Z -
	380	189	3.86	8000	1.9	96	2KJ3004- HL23- J1	-Z -
	423	169	3.46	8000	2.2	96	2KJ3004- HL23- H1	-Z -
	495	145	2.96	8000	2.5	96	2KJ3004- HL23- G1	-Z -
	555	129	2.64	8000	2.8	96	2KJ3004- HL23- F1	-Z -
	629	114	2.33	8000	3.2	96	2KJ3004- HL23- E1	-Z -
	715	100	2.05	7740	3.6	96	2KJ3004- HL23- D1	-Z -
	823	87	1.78	7470	4.2	96	2KJ3004- HL23- C1	-Z -
	964	74	1.52	7170	4.8	96	2KJ3004- HL23- B1	-Z -
	1127	64	1.30	6880	5.7	96	2KJ3004- HL23- A1	-Z -

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
7.5	E.69-LE132ZMS4P							
	334	210	4.38	6100	0.93	82	2KJ3003- HL23- K1	-Z -
	356	200	4.12	6100	0.82	82	2KJ3003- HL23- J1	-Z -
	388	185	3.78	6100	1.1	82	2KJ3003- HL23- H1	-Z -
	444	161	3.30	6100	1.2	82	2KJ3003- HL23- G1	-Z -
	497	144	2.95	6100	1.4	82	2KJ3003- HL23- F1	-Z -
	568	126	2.58	6100	1.6	82	2KJ3003- HL23- E1	-Z -
	660	109	2.22	6100	1.8	82	2KJ3003- HL23- D1	-Z -
	747	96	1.96	6100	2	82	2KJ3003- HL23- C1	-Z -
	877	82	1.67	6100	2.4	82	2KJ3003- HL23- B1	-Z -
	1024	70	1.43	6100	2.8	82	2KJ3003- HL23- A1	-Z -
	E.49-LE132ZMS4P							
	563	127	2.60	1390	0.8	75	2KJ3002- HL23- E1	-Z -
	9.2	D.189-LE160MPA4P						
4.7		18600	313.63	107000	1	717	2KJ3214- JQ23- T1	-Z -
5.3		16600	280.59	107000	1.1	717	2KJ3214- JQ23- S1	-Z -
5.8		15000	253.06	107000	1.3	717	2KJ3214- JQ23- R1	-Z -
6.6		13200	223.66	107000	1.4	717	2KJ3214- JQ23- Q1	-Z -
7.2		12100	204.44	107000	1.6	717	2KJ3214- JQ23- P1	-Z -
8		10900	183.92	107000	1.7	717	2KJ3214- JQ23- N1	-Z -
9		9750	164.36	107000	1.9	717	2KJ3214- JQ23- M1	-Z -
10		8820	148.63	107000	2.2	717	2KJ3214- JQ23- L1	-Z -
D.169-LE160MPA4P								
5.5		16100	271.40	69300	0.87	504	2KJ3213- JQ23- T1	-Z -
6.1		14400	243.68	70000	0.97	504	2KJ3213- JQ23- S1	-Z -
6.7		13000	220.58	70500	1.1	504	2KJ3213- JQ23- R1	-Z -
7.6		11500	193.75	71000	1.2	504	2KJ3213- JQ23- Q1	-Z -
8.4		10400	175.57	71500	1.3	504	2KJ3213- JQ23- P1	-Z -
9.5		9280	156.36	71900	1.5	504	2KJ3213- JQ23- N1	-Z -
11		8330	140.41	72200	1.7	504	2KJ3213- JQ23- M1	-Z -
12		7430	125.28	72600	1.9	504	2KJ3213- JQ23- L1	-Z -
13		6630	111.69	72800	2.1	504	2KJ3213- JQ23- K1	-Z -
D.149-LE160MPA4P								
9.5		9260	156.11	50600	0.86	325	2KJ3212- JQ23- P1	-Z -
11		8200	138.26	51100	0.97	325	2KJ3212- JQ23- N1	-Z -
12		7300	123.04	51500	1.1	325	2KJ3212- JQ23- M1	-Z -
13		6540	110.26	51900	1.2	325	2KJ3212- JQ23- L1	-Z -
15		5800	97.75	52200	1.4	325	2KJ3212- JQ23- K1	-Z -
17		5120	86.29	52500	1.6	325	2KJ3212- JQ23- J1	-Z -
20		4500	75.87	52800	1.8	325	2KJ3212- JQ23- H1	-Z -
22		4070	68.71	53000	2	325	2KJ3212- JQ23- G1	-Z -
Z.149-LE160MPA4P								
26		3360	56.64	53400	2.4	319	2KJ3112- JQ23- W1	-Z -
28		3130	52.84	53500	2.5	319	2KJ3112- JQ23- V1	-Z -
D.129-LE160MPA4P								
15		6050	102.05	26400	0.83	241	2KJ3211- JQ23- E1	-Z -
16		5330	89.91	26800	0.94	241	2KJ3211- JQ23- D1	-Z -
19	4670	78.78	27200	1.1	241	2KJ3211- JQ23- C1	-Z -	
Z.129-LE160MPA4P								
24	3700	62.48	27800	1.3	237	2KJ3111- JQ23- X1	-Z -	
28	3170	53.47	28100	1.6	237	2KJ3111- JQ23- W1	-Z -	
29	2980	50.33	28200	1.7	237	2KJ3111- JQ23- V1	-Z -	
31	2800	47.18	28300	1.8	237	2KJ3111- JQ23- U1	-Z -	
35	2480	41.82	28500	2	237	2KJ3111- JQ23- T1	-Z -	
40	2200	37.15	28700	2.3	237	2KJ3111- JQ23- S1	-Z -	
44	1990	33.52	28800	2.5	237	2KJ3111- JQ23- R1	-Z -	
50	1760	29.70	28900	2.8	237	2KJ3111- JQ23- Q1	-Z -	
D.109-LE160MPA4P								
23	3820	64.34	20000	0.81	178	2KJ3210- JQ23- C1	-Z -	
Z.109-LE160MPA4P								
29	3030	51.17	20200	1	175	2KJ3110- JQ23- X1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles	
9.2	Z.109-LE160MPA4P								
	34	2590	43.64	20200	1.2	175	2KJ3110- JQ23- W1	-Z -	
	36	2430	41.07	20200	1.3	175	2KJ3110- JQ23- V1	-Z -	
	39	2260	38.12	20200	1.4	175	2KJ3110- JQ23- U1	-Z -	
	44	2000	33.70	20200	1.5	175	2KJ3110- JQ23- T1	-Z -	
	49	1780	30.08	20200	1.7	175	2KJ3110- JQ23- S1	-Z -	
	55	1600	27.07	20200	1.9	175	2KJ3110- JQ23- R1	-Z -	
	63	1390	23.49	20200	2.1	175	2KJ3110- JQ23- Q1	-Z -	
	70	1250	21.13	20200	2.3	175	2KJ3110- JQ23- P1	-Z -	
	80	1090	18.47	20200	2.5	175	2KJ3110- JQ23- N1	-Z -	
	90	975	16.48	20200	2.7	175	2KJ3110- JQ23- M1	-Z -	
	102	860	14.52	19800	3	175	2KJ3110- JQ23- L1	-Z -	
	116	755	12.72	19200	3.3	175	2KJ3110- JQ23- K1	-Z -	
	133	655	11.09	18500	3.7	175	2KJ3110- JQ23- J1	-Z -	
	146	600	10.12	18100	4	175	2KJ3110- JQ23- H1	-Z -	
		Z.89-LE160MPA4P							
44		1980	33.38	18500	0.85	137	2KJ3108- JQ23- T1	-Z -	
47		1860	31.41	18500	0.9	137	2KJ3108- JQ23- S1	-Z -	
51		1720	29.01	18500	0.98	137	2KJ3108- JQ23- R1	-Z -	
57		1530	25.81	18500	1.1	137	2KJ3108- JQ23- Q1	-Z -	
65		1360	22.92	18500	1.2	137	2KJ3108- JQ23- P1	-Z -	
72		1210	20.52	18400	1.4	137	2KJ3108- JQ23- N1	-Z -	
84		1040	17.54	17800	1.6	137	2KJ3108- JQ23- M1	-Z -	
95		930	15.66	17300	1.8	137	2KJ3108- JQ23- L1	-Z -	
107		820	13.84	16800	2	137	2KJ3108- JQ23- K1	-Z -	
122		720	12.15	16300	2.3	137	2KJ3108- JQ23- J1	-Z -	
140		625	10.58	15700	2.5	137	2KJ3108- JQ23- H1	-Z -	
164		535	9.04	15100	2.9	137	2KJ3108- JQ23- G1	-Z -	
191		455	7.74	14500	3.3	137	2KJ3108- JQ23- F1	-Z -	
215		405	6.89	14100	2.6	137	2KJ3108- JQ23- E1	-Z -	
245		355	6.05	13600	3	137	2KJ3108- JQ23- D1	-Z -	
281	310	5.26	13100	3.4	137	2KJ3108- JQ23- C1	-Z -		
329	265	4.50	12500	4	137	2KJ3108- JQ23- B1	-Z -		
384	225	3.85	11900	4.6	137	2KJ3108- JQ23- A1	-Z -		
	Z.79-LE160MPA4P								
	85	1020	17.31	10800	0.82	114	2KJ3107- JQ23- M1	-Z -	
	98	895	15.13	10500	0.94	114	2KJ3107- JQ23- L1	-Z -	
	114	770	12.99	10300	1.1	114	2KJ3107- JQ23- K1	-Z -	
	129	680	11.48	10000	1.2	114	2KJ3107- JQ23- J1	-Z -	
	152	575	9.76	9750	1.4	114	2KJ3107- JQ23- H1	-Z -	
	177	495	8.37	6480	1.6	114	2KJ3107- JQ23- G1	-Z -	
	181	485	8.19	4880	1.5	114	2KJ3107- JQ23- F1	-Z -	
	207	425	7.16	5380	1.7	114	2KJ3107- JQ23- E1	-Z -	
	241	365	6.15	5830	2	114	2KJ3107- JQ23- D1	-Z -	
	273	320	5.43	6160	2.1	114	2KJ3107- JQ23- C1	-Z -	
	320	270	4.62	6450	2.8	114	2KJ3107- JQ23- B1	-Z -	
	374	235	3.96	6520	3.3	114	2KJ3107- JQ23- A1	-Z -	
		E.149-LE160MPA4P							
		152	575	9.76	16000	2.1	198	2KJ3007- JQ23- S1	-Z -
		162	540	9.11	16000	2.3	198	2KJ3007- JQ23- R1	-Z -
183		480	8.10	16000	2.8	198	2KJ3007- JQ23- Q1	-Z -	
204		430	7.27	16000	3.1	198	2KJ3007- JQ23- P1	-Z -	
225		390	6.58	16000	3.4	198	2KJ3007- JQ23- N1	-Z -	
256		340	5.78	16000	4.3	198	2KJ3007- JQ23- M1	-Z -	
282		310	5.24	16000	4.8	198	2KJ3007- JQ23- L1	-Z -	
	E.129-LE160MPA4P								
	151	580	9.79	13500	1.1	161	2KJ3006- JQ23- T1	-Z -	
	177	495	8.38	13500	1.3	161	2KJ3006- JQ23- S1	-Z -	
	188	465	7.88	13500	1.4	161	2KJ3006- JQ23- R1	-Z -	
	200	435	7.39	13500	1.8	161	2KJ3006- JQ23- Q1	-Z -	
226	385	6.55	13500	2.1	161	2KJ3006- JQ23- P1	-Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
9.2	E.129-LE160MPA4P							
	254	345	5.82	13500	2.3	161	2KJ3006- JQ23- N1 -Z -	
	282	310	5.25	13500	2.6	161	2KJ3006- JQ23- M1 -Z -	
	318	275	4.65	13500	2.9	161	2KJ3006- JQ23- L1 -Z -	
	359	245	4.12	13500	3.2	161	2KJ3006- JQ23- K1 -Z -	
	403	215	3.67	13400	3.6	161	2KJ3006- JQ23- J1 -Z -	
	450	195	3.29	13000	4	161	2KJ3006- JQ23- H1 -Z -	
	509	173	2.91	12600	4.5	161	2KJ3006- JQ23- G1 -Z -	
	576	153	2.57	12200	5	161	2KJ3006- JQ23- F1 -Z -	
	655	134	2.26	11800	5.7	161	2KJ3006- JQ23- E1 -Z -	
	E.109-LE160MPA4P							
	206	425	7.19	10500	1.3	137	2KJ3005- JQ23- Q1 -Z -	
	219	400	6.76	10500	1.4	137	2KJ3005- JQ23- P1 -Z -	
	236	370	6.28	10500	1.5	137	2KJ3005- JQ23- N1 -Z -	
	267	325	5.55	10500	1.7	137	2KJ3005- JQ23- M1 -Z -	
	299	290	4.95	10500	1.9	137	2KJ3005- JQ23- L1 -Z -	
	332	265	4.46	10500	2.1	137	2KJ3005- JQ23- K1 -Z -	
	382	230	3.87	10500	2.4	137	2KJ3005- JQ23- J1 -Z -	
	425	205	3.48	10500	2.7	137	2KJ3005- JQ23- H1 -Z -	
	487	180	3.04	10500	3	137	2KJ3005- JQ23- G1 -Z -	
	546	161	2.71	10500	3.4	137	2KJ3005- JQ23- F1 -Z -	
	619	142	2.39	10500	3.8	137	2KJ3005- JQ23- E1 -Z -	
	705	125	2.10	10300	4.3	137	2KJ3005- JQ23- D1 -Z -	
	809	109	1.83	10000	4.9	137	2KJ3005- JQ23- C1 -Z -	
	886	99	1.67	9760	5.3	137	2KJ3005- JQ23- B1 -Z -	
	1035	85	1.43	9380	5.5	137	2KJ3005- JQ23- A1 -Z -	
	E.89-LE160MPA4P							
	263	330	5.62	8000	0.96	115	2KJ3004- JQ23- N1 -Z -	
	303	290	4.89	8000	1.2	115	2KJ3004- JQ23- L1 -Z -	
	340	255	4.35	8000	1.4	115	2KJ3004- JQ23- K1 -Z -	
	383	225	3.86	8000	1.6	115	2KJ3004- JQ23- J1 -Z -	
	428	205	3.46	8000	1.8	115	2KJ3004- JQ23- H1 -Z -	
	500	176	2.96	8000	2	115	2KJ3004- JQ23- G1 -Z -	
561	157	2.64	8000	2.3	115	2KJ3004- JQ23- F1 -Z -		
635	138	2.33	7800	2.6	115	2KJ3004- JQ23- E1 -Z -		
722	122	2.05	7560	3	115	2KJ3004- JQ23- D1 -Z -		
831	106	1.78	7310	3.5	115	2KJ3004- JQ23- C1 -Z -		
974	90	1.52	7030	4	115	2KJ3004- JQ23- B1 -Z -		
1138	77	1.30	6750	4.7	115	2KJ3004- JQ23- A1 -Z -		
E.69-LE160MPA4P								
392	220	3.78	6100	0.89	98	2KJ3003- JQ23- H1 -Z -		
448	196	3.30	6100	1	98	2KJ3003- JQ23- G1 -Z -		
502	175	2.95	6100	1.1	98	2KJ3003- JQ23- F1 -Z -		
667	132	2.22	6100	1.5	98	2KJ3003- JQ23- D1 -Z -		
755	116	1.96	6100	1.7	98	2KJ3003- JQ23- C1 -Z -		
886	99	1.67	6040	2	98	2KJ3003- JQ23- B1 -Z -		
1035	85	1.43	5910	2.3	98	2KJ3003- JQ23- A1 -Z -		
11	D.189-LE160MPB4P							
	4.7	22300	313.63	107000	0.85	709	2KJ3214- JR23- T1 -Z -	
	5.3	19900	280.59	107000	0.95	709	2KJ3214- JR23- S1 -Z -	
	5.8	18000	253.06	107000	1.1	709	2KJ3214- JR23- R1 -Z -	
	6.6	15900	223.66	107000	1.2	709	2KJ3214- JR23- Q1 -Z -	
	7.2	14500	204.44	107000	1.3	709	2KJ3214- JR23- P1 -Z -	
	8	13000	183.92	107000	1.5	709	2KJ3214- JR23- N1 -Z -	
	9	11700	164.36	107000	1.6	709	2KJ3214- JR23- M1 -Z -	
	9.9	10500	148.63	107000	1.8	709	2KJ3214- JR23- L1 -Z -	
	11	9340	131.17	107000	2	709	2KJ3214- JR23- K1 -Z -	
	D.169-LE160MPB4P							
	6.1	17300	243.68	68900	0.81	496	2KJ3213- JR23- S1 -Z -	
	6.7	15700	220.58	69500	0.89	496	2KJ3213- JR23- R1 -Z -	
	7.6	13700	193.75	70200	1	496	2KJ3213- JR23- Q1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	No. of poles
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)		
11	D.169-LE160MPB4P								
	8.4	12500	175.57	70700	1.1	496	2KJ3213- JR23- P1	-Z -	
	9.4	11100	156.36	71200	1.3	496	2KJ3213- JR23- N1	-Z -	
	11	10000	140.41	71600	1.4	496	2KJ3213- JR23- M1	-Z -	
	12	8920	125.28	72000	1.6	496	2KJ3213- JR23- L1	-Z -	
	13	7950	111.69	72400	1.8	496	2KJ3213- JR23- K1	-Z -	
	15	7050	99.06	72700	2	496	2KJ3213- JR23- J1	-Z -	
	16	6470	90.94	72900	2.2	496	2KJ3213- JR23- H1	-Z -	
	D.149-LE160MPB4P								
	11	9840	138.26	50300	0.81	317	2KJ3212- JR23- N1	-Z -	
	12	8760	123.04	50800	0.91	317	2KJ3212- JR23- M1	-Z -	
	13	7850	110.26	51200	1	317	2KJ3212- JR23- L1	-Z -	
	15	6960	97.75	51600	1.1	317	2KJ3212- JR23- K1	-Z -	
	17	6140	86.29	52100	1.3	317	2KJ3212- JR23- J1	-Z -	
	19	5400	75.87	52400	1.5	317	2KJ3212- JR23- H1	-Z -	
	21	4890	68.71	52700	1.6	317	2KJ3212- JR23- G1	-Z -	
Z.149-LE160MPB4P									
26	4030	56.64	53100	2	311	2KJ3112- JR23- W1	-Z -		
28	3760	52.84	53200	2	311	2KJ3112- JR23- V1	-Z -		
31	3340	46.98	53200	2.3	311	2KJ3112- JR23- U1	-Z -		
35	3000	42.18	51800	2.5	311	2KJ3112- JR23- T1	-Z -		
D.129-LE160MPB4P									
19	5610	78.78	26700	0.89	233	2KJ3211- JR23- C1	-Z -		
Z.129-LE160MPB4P									
24	4450	62.48	27300	1.1	229	2KJ3111- JR23- X1	-Z -		
28	3800	53.47	27700	1.3	229	2KJ3111- JR23- W1	-Z -		
29	3580	50.33	27900	1.4	229	2KJ3111- JR23- V1	-Z -		
31	3360	47.18	28000	1.5	229	2KJ3111- JR23- U1	-Z -		
35	2970	41.82	28200	1.7	229	2KJ3111- JR23- T1	-Z -		
40	2640	37.15	28400	1.9	229	2KJ3111- JR23- S1	-Z -		
44	2380	33.52	28500	2.1	229	2KJ3111- JR23- R1	-Z -		
50	2110	29.70	28600	2.4	229	2KJ3111- JR23- Q1	-Z -		
56	1870	26.30	27800	2.7	229	2KJ3111- JR23- P1	-Z -		
63	1660	23.41	27100	3	229	2KJ3111- JR23- N1	-Z -		
Z.109-LE160MPB4P									
29	3640	51.17	20200	0.85	167	2KJ3110- JR23- X1	-Z -		
34	3100	43.64	20200	1	167	2KJ3110- JR23- W1	-Z -		
36	2920	41.07	20200	1.1	167	2KJ3110- JR23- V1	-Z -		
39	2710	38.12	20200	1.1	167	2KJ3110- JR23- U1	-Z -		
44	2400	33.70	20200	1.3	167	2KJ3110- JR23- T1	-Z -		
49	2140	30.08	20200	1.4	167	2KJ3110- JR23- S1	-Z -		
54	1920	27.07	20200	1.6	167	2KJ3110- JR23- R1	-Z -		
63	1670	23.49	20200	1.7	167	2KJ3110- JR23- Q1	-Z -		
70	1500	21.13	20200	1.9	167	2KJ3110- JR23- P1	-Z -		
80	1310	18.47	20200	2.1	167	2KJ3110- JR23- N1	-Z -		
90	1170	16.48	19900	2.2	167	2KJ3110- JR23- M1	-Z -		
102	1030	14.52	19400	2.5	167	2KJ3110- JR23- L1	-Z -		
116	905	12.72	18800	2.8	167	2KJ3110- JR23- K1	-Z -		
133	790	11.09	18200	3.1	167	2KJ3110- JR23- J1	-Z -		
146	720	10.12	17900	3.4	167	2KJ3110- JR23- H1	-Z -		
169	620	8.71	17200	3.8	167	2KJ3110- JR23- G1	-Z -		
175	595	8.41	17000	3.8	167	2KJ3110- JR23- F1	-Z -		
199	525	7.41	16500	4.3	167	2KJ3110- JR23- E1	-Z -		
Z.89-LE160MPB4P									
51	2060	29.01	15700	0.81	129	2KJ3108- JR23- R1	-Z -		
57	1830	25.81	17000	0.91	129	2KJ3108- JR23- Q1	-Z -		
64	1630	22.92	17900	1	129	2KJ3108- JR23- P1	-Z -		
72	1460	20.52	17700	1.1	129	2KJ3108- JR23- N1	-Z -		
84	1240	17.54	17200	1.3	129	2KJ3108- JR23- M1	-Z -		
94	1110	15.66	16800	1.5	129	2KJ3108- JR23- L1	-Z -		
107	985	13.84	16400	1.7	129	2KJ3108- JR23- K1	-Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
11	Z.89-LE160MPB4P							
	121	865	12.15	15900	1.9	129	2KJ3108- JR23- J1 -Z -	
	139	750	10.58	15400	2.1	129	2KJ3108- JR23- H1 -Z -	
	163	640	9.04	14800	2.4	129	2KJ3108- JR23- G1 -Z -	
	191	550	7.74	14200	2.8	129	2KJ3108- JR23- F1 -Z -	
	214	490	6.89	13900	2.1	129	2KJ3108- JR23- E1 -Z -	
	244	430	6.05	13400	2.5	129	2KJ3108- JR23- D1 -Z -	
	280	375	5.26	12900	2.8	129	2KJ3108- JR23- C1 -Z -	
	328	320	4.50	12300	3.3	129	2KJ3108- JR23- B1 -Z -	
	383	270	3.85	11800	3.9	129	2KJ3108- JR23- A1 -Z -	
	Z.79-LE160MPB4P							
	114	925	12.99	9850	0.91	106	2KJ3107- JR23- K1 -Z -	
	128	815	11.48	9680	1	106	2KJ3107- JR23- J1 -Z -	
	151	695	9.76	9400	1.2	106	2KJ3107- JR23- H1 -Z -	
	176	595	8.37	4990	1.3	106	2KJ3107- JR23- G1 -Z -	
	180	580	8.19	8880	1.2	106	2KJ3107- JR23- F1 -Z -	
	206	510	7.16	8650	1.4	106	2KJ3107- JR23- E1 -Z -	
	240	435	6.15	4550	1.6	106	2KJ3107- JR23- D1 -Z -	
	272	385	5.43	4970	1.8	106	2KJ3107- JR23- C1 -Z -	
	319	325	4.62	5440	2.4	106	2KJ3107- JR23- B1 -Z -	
	372	280	3.96	5700	2.7	106	2KJ3107- JR23- A1 -Z -	
	E.149-LE160MPB4P							
	151	695	9.76	16000	1.7	190	2KJ3007- JR23- S1 -Z -	
	162	645	9.11	16000	1.9	190	2KJ3007- JR23- R1 -Z -	
	182	575	8.10	16000	2.3	190	2KJ3007- JR23- Q1 -Z -	
	203	515	7.27	16000	2.6	190	2KJ3007- JR23- P1 -Z -	
	224	465	6.58	16000	2.8	190	2KJ3007- JR23- N1 -Z -	
	255	410	5.78	16000	3.6	190	2KJ3007- JR23- M1 -Z -	
	281	370	5.24	16000	4	190	2KJ3007- JR23- L1 -Z -	
	316	330	4.67	16000	4.4	190	2KJ3007- JR23- K1 -Z -	
	352	295	4.19	15800	5	190	2KJ3007- JR23- J1 -Z -	
	E.129-LE160MPB4P							
	151	695	9.79	13500	0.95	153	2KJ3006- JR23- T1 -Z -	
176	595	8.38	13500	1.1	153	2KJ3006- JR23- S1 -Z -		
187	560	7.88	13500	1.2	153	2KJ3006- JR23- R1 -Z -		
200	525	7.39	13500	1.5	153	2KJ3006- JR23- Q1 -Z -		
225	465	6.55	13500	1.7	153	2KJ3006- JR23- P1 -Z -		
253	415	5.82	13500	1.9	153	2KJ3006- JR23- N1 -Z -		
281	370	5.25	13500	2.1	153	2KJ3006- JR23- M1 -Z -		
317	330	4.65	13500	2.4	153	2KJ3006- JR23- L1 -Z -		
358	290	4.12	13500	2.7	153	2KJ3006- JR23- K1 -Z -		
402	260	3.67	13100	3	153	2KJ3006- JR23- J1 -Z -		
448	230	3.29	12800	3.3	153	2KJ3006- JR23- H1 -Z -		
507	205	2.91	12400	3.7	153	2KJ3006- JR23- G1 -Z -		
574	183	2.57	12100	4.2	153	2KJ3006- JR23- F1 -Z -		
653	161	2.26	11700	4.7	153	2KJ3006- JR23- E1 -Z -		
720	146	2.05	11400	5.2	153	2KJ3006- JR23- D1 -Z -		
829	127	1.78	11000	6	153	2KJ3006- JR23- C1 -Z -		
E.109-LE160MPB4P								
205	510	7.19	10500	1.1	129	2KJ3005- JR23- Q1 -Z -		
218	480	6.76	10500	1.2	129	2KJ3005- JR23- P1 -Z -		
235	445	6.28	10500	1.3	129	2KJ3005- JR23- N1 -Z -		
266	395	5.55	10500	1.4	129	2KJ3005- JR23- M1 -Z -		
298	350	4.95	10500	1.6	129	2KJ3005- JR23- L1 -Z -		
331	315	4.46	10500	1.8	129	2KJ3005- JR23- K1 -Z -		
381	275	3.87	10500	2	129	2KJ3005- JR23- J1 -Z -		
424	245	3.48	10500	2.2	129	2KJ3005- JR23- H1 -Z -		
485	215	3.04	10500	2.5	129	2KJ3005- JR23- G1 -Z -		
544	193	2.71	10500	2.8	129	2KJ3005- JR23- F1 -Z -		
617	170	2.39	10500	3.2	129	2KJ3005- JR23- E1 -Z -		
702	150	2.10	10200	3.6	129	2KJ3005- JR23- D1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
11	E.109-LE160MPB4P							
	806	130	1.83	9890	4.1	129	2KJ3005- JR23- C1	-Z -
	883	119	1.67	9650	4.5	129	2KJ3005- JR23- B1	-Z -
	1031	102	1.43	9280	4.6	129	2KJ3005- JR23- A1	-Z -
	E.89-LE160MPB4P							
	262	400	5.62	8000	0.8	107	2KJ3004- JR23- N1	-Z -
	302	345	4.89	8000	1	107	2KJ3004- JR23- L1	-Z -
	339	310	4.35	8000	1.2	107	2KJ3004- JR23- K1	-Z -
	382	275	3.86	8000	1.3	107	2KJ3004- JR23- J1	-Z -
	426	245	3.46	8000	1.5	107	2KJ3004- JR23- H1	-Z -
	498	210	2.96	8000	1.7	107	2KJ3004- JR23- G1	-Z -
	559	188	2.64	7820	1.9	107	2KJ3004- JR23- F1	-Z -
	633	166	2.33	7620	2.2	107	2KJ3004- JR23- E1	-Z -
	720	146	2.05	7400	2.5	107	2KJ3004- JR23- D1	-Z -
	829	127	1.78	7160	2.9	107	2KJ3004- JR23- C1	-Z -
970	108	1.52	6900	3.3	107	2KJ3004- JR23- B1	-Z -	
1135	93	1.30	6630	3.9	107	2KJ3004- JR23- A1	-Z -	
E.69-LE160MPB4P								
447	235	3.30	5190	0.85	90	2KJ3003- JR23- G1	-Z -	
500	210	2.95	5390	0.95	90	2KJ3003- JR23- F1	-Z -	
883	119	1.67	5450	1.6	90	2KJ3003- JR23- B1	-Z -	
1031	102	1.43	5370	1.9	90	2KJ3003- JR23- A1	-Z -	
15	D.189-LE160ZLL4P							
	6.6	21700	223.66	107000	0.87	734	2KJ3214- JU23- Q1	-Z -
	7.2	19800	204.44	107000	0.96	734	2KJ3214- JU23- P1	-Z -
	8	17800	183.92	107000	1.1	734	2KJ3214- JU23- N1	-Z -
	9	15900	164.36	107000	1.2	734	2KJ3214- JU23- M1	-Z -
	9.9	14400	148.63	107000	1.3	734	2KJ3214- JU23- L1	-Z -
	11	12700	131.17	107000	1.5	734	2KJ3214- JU23- K1	-Z -
	13	11300	116.88	107000	1.7	734	2KJ3214- JU23- J1	-Z -
	14	10200	105.89	107000	1.8	734	2KJ3214- JU23- H1	-Z -
	15	9250	95.24	107000	2.1	734	2KJ3214- JU23- G1	-Z -
	D.169-LE160ZLL4P							
	8.4	17000	175.57	69000	0.82	521	2KJ3213- JU23- P1	-Z -
	9.4	15100	156.36	69700	0.92	521	2KJ3213- JU23- N1	-Z -
	11	13600	140.41	70300	1	521	2KJ3213- JU23- M1	-Z -
	12	12100	125.28	70800	1.2	521	2KJ3213- JU23- L1	-Z -
13	10800	111.69	71300	1.3	521	2KJ3213- JU23- K1	-Z -	
15	9620	99.06	71800	1.5	521	2KJ3213- JU23- J1	-Z -	
16	8830	90.94	72100	1.6	521	2KJ3213- JU23- H1	-Z -	
18	7780	80.12	72400	1.8	521	2KJ3213- JU23- G1	-Z -	
22	6380	65.72	72900	2.2	521	2KJ3213- JU23- F1	-Z -	
D.149-LE160ZLL4P								
15	9490	97.75	50400	0.84	342	2KJ3212- JU23- K1	-Z -	
17	8380	86.29	51000	0.95	342	2KJ3212- JU23- J1	-Z -	
19	7360	75.87	51500	1.1	342	2KJ3212- JU23- H1	-Z -	
21	6670	68.71	51800	1.2	342	2KJ3212- JU23- G1	-Z -	
Z.149-LE160ZLL4P								
26	5500	56.64	52400	1.5	336	2KJ3112- JU23- W1	-Z -	
28	5130	52.84	52500	1.5	336	2KJ3112- JU23- V1	-Z -	
31	4560	46.98	51500	1.7	336	2KJ3112- JU23- U1	-Z -	
35	4090	42.18	50300	1.9	336	2KJ3112- JU23- T1	-Z -	
39	3700	38.18	49200	2	336	2KJ3112- JU23- S1	-Z -	
44	3250	33.54	47700	2.5	336	2KJ3112- JU23- R1	-Z -	
49	2950	30.39	46600	2.7	336	2KJ3112- JU23- Q1	-Z -	
Z.129-LE160ZLL4P								
24	6060	62.48	26400	0.82	254	2KJ3111- JU23- X1	-Z -	
28	5190	53.47	26900	0.96	254	2KJ3111- JU23- W1	-Z -	
29	4880	50.33	27100	1	254	2KJ3111- JU23- V1	-Z -	
31	4580	47.18	27300	1.1	254	2KJ3111- JU23- U1	-Z -	
35	4060	41.82	27600	1.2	254	2KJ3111- JU23- T1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles	
15	Z.129-LE160ZLL4P								
	40	3600	37.15	27800	1.4	254	2KJ3111- JU23- S1	-Z -	
	44	3250	33.52	27800	1.5	254	2KJ3111- JU23- R1	-Z -	
	50	2880	29.70	27300	1.7	254	2KJ3111- JU23- Q1	-Z -	
	56	2550	26.30	26700	2	254	2KJ3111- JU23- P1	-Z -	
	63	2270	23.41	26100	2.2	254	2KJ3111- JU23- N1	-Z -	
	70	2030	20.98	25500	2.5	254	2KJ3111- JU23- M1	-Z -	
	79	1800	18.60	24900	2.8	254	2KJ3111- JU23- L1	-Z -	
	90	1590	16.42	24200	3.1	254	2KJ3111- JU23- K1	-Z -	
	102	1400	14.43	23500	3.5	254	2KJ3111- JU23- J1	-Z -	
3	Z.109-LE160ZLL4P								
	39	3700	38.12	20100	0.84	192	2KJ3110- JU23- U1	-Z -	
	44	3270	33.70	20200	0.95	192	2KJ3110- JU23- T1	-Z -	
	49	2920	30.08	20200	1.1	192	2KJ3110- JU23- S1	-Z -	
	54	2620	27.07	20200	1.2	192	2KJ3110- JU23- R1	-Z -	
	63	2280	23.49	19900	1.3	192	2KJ3110- JU23- Q1	-Z -	
	70	2050	21.13	19600	1.4	192	2KJ3110- JU23- P1	-Z -	
	80	1790	18.47	19200	1.5	192	2KJ3110- JU23- N1	-Z -	
	90	1600	16.48	18900	1.6	192	2KJ3110- JU23- M1	-Z -	
	102	1410	14.52	18500	1.8	192	2KJ3110- JU23- L1	-Z -	
	116	1230	12.72	18100	2	192	2KJ3110- JU23- K1	-Z -	
	133	1070	11.09	17600	2.3	192	2KJ3110- JU23- J1	-Z -	
	146	980	10.12	17300	2.5	192	2KJ3110- JU23- H1	-Z -	
	169	845	8.71	16700	2.8	192	2KJ3110- JU23- G1	-Z -	
	175	815	8.41	16400	2.8	192	2KJ3110- JU23- F1	-Z -	
	199	720	7.41	16000	3.2	192	2KJ3110- JU23- E1	-Z -	
	227	630	6.50	15500	3.6	192	2KJ3110- JU23- D1	-Z -	
	261	550	5.66	15000	4.2	192	2KJ3110- JU23- C1	-Z -	
285	500	5.17	14700	4.5	192	2KJ3110- JU23- B1	-Z -		
331	430	4.45	14200	5	192	2KJ3110- JU23- A1	-Z -		
3	Z.89-LE160ZLL4P								
	72	1990	20.52	12100	0.84	154	2KJ3108- JU23- N1	-Z -	
	84	1700	17.54	13800	0.99	154	2KJ3108- JU23- M1	-Z -	
	94	1520	15.66	14700	1.1	154	2KJ3108- JU23- L1	-Z -	
	107	1340	13.84	15300	1.2	154	2KJ3108- JU23- K1	-Z -	
	121	1180	12.15	15000	1.4	154	2KJ3108- JU23- J1	-Z -	
	139	1020	10.58	14600	1.5	154	2KJ3108- JU23- H1	-Z -	
	163	875	9.04	14100	1.8	154	2KJ3108- JU23- G1	-Z -	
	191	750	7.74	13600	2	154	2KJ3108- JU23- F1	-Z -	
	214	665	6.89	13400	1.6	154	2KJ3108- JU23- E1	-Z -	
	244	585	6.05	13000	1.8	154	2KJ3108- JU23- D1	-Z -	
	280	510	5.26	12500	2.1	154	2KJ3108- JU23- C1	-Z -	
	328	435	4.50	12000	2.4	154	2KJ3108- JU23- B1	-Z -	
	383	370	3.85	11500	2.8	154	2KJ3108- JU23- A1	-Z -	
	3	Z.79-LE160ZLL4P							
		151	945	9.76	8640	0.86	131	2KJ3107- JU23- H1	-Z -
176		810	8.37	8480	0.97	131	2KJ3107- JU23- G1	-Z -	
180		795	8.19	8150	0.9	131	2KJ3107- JU23- F1	-Z -	
206		695	7.16	8020	1	131	2KJ3107- JU23- E1	-Z -	
240		595	6.15	7840	1.2	131	2KJ3107- JU23- D1	-Z -	
272		525	5.43	7680	1.3	131	2KJ3107- JU23- C1	-Z -	
319		445	4.62	7460	1.7	131	2KJ3107- JU23- B1	-Z -	
372	385	3.96	3760	2	131	2KJ3107- JU23- A1	-Z -		
3	E.149-LE160ZLL4P								
	151	945	9.76	16000	1.3	215	2KJ3007- JU23- S1	-Z -	
	162	885	9.11	16000	1.4	215	2KJ3007- JU23- R1	-Z -	
	182	785	8.10	16000	1.7	215	2KJ3007- JU23- Q1	-Z -	
	203	705	7.27	16000	1.9	215	2KJ3007- JU23- P1	-Z -	
	224	635	6.58	16000	2.1	215	2KJ3007- JU23- N1	-Z -	
	255	560	5.78	16000	2.7	215	2KJ3007- JU23- M1	-Z -	
	281	505	5.24	16000	2.9	215	2KJ3007- JU23- L1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
15	E.149-LE160ZLL4P							
	316	450	4.67	15700	3.3	215	2KJ3007- ■ JU23- ■ ■ K1	-Z -
	352	405	4.19	15300	3.6	215	2KJ3007- ■ JU23- ■ ■ J1	-Z -
	394	360	3.74	14900	4.1	215	2KJ3007- ■ JU23- ■ ■ H1	-Z -
	443	320	3.33	14500	4.6	215	2KJ3007- ■ JU23- ■ ■ G1	-Z -
	498	285	2.96	14100	5.1	215	2KJ3007- ■ JU23- ■ ■ F1	-Z -
	544	260	2.71	13800	5.5	215	2KJ3007- ■ JU23- ■ ■ E1	-Z -
	E.129-LE160ZLL4P							
	176	810	8.38	13500	0.82	178	2KJ3006- ■ JU23- ■ ■ S1	-Z -
	187	765	7.88	13500	0.87	178	2KJ3006- ■ JU23- ■ ■ R1	-Z -
	200	715	7.39	13500	1.1	178	2KJ3006- ■ JU23- ■ ■ Q1	-Z -
	225	635	6.55	13500	1.3	178	2KJ3006- ■ JU23- ■ ■ P1	-Z -
	253	565	5.82	13500	1.4	178	2KJ3006- ■ JU23- ■ ■ N1	-Z -
	281	510	5.25	13500	1.6	178	2KJ3006- ■ JU23- ■ ■ M1	-Z -
	317	450	4.65	13200	1.8	178	2KJ3006- ■ JU23- ■ ■ L1	-Z -
	358	400	4.12	12900	2	178	2KJ3006- ■ JU23- ■ ■ K1	-Z -
	402	355	3.67	12600	2.2	178	2KJ3006- ■ JU23- ■ ■ J1	-Z -
	448	320	3.29	12300	2.4	178	2KJ3006- ■ JU23- ■ ■ H1	-Z -
	507	280	2.91	12000	2.7	178	2KJ3006- ■ JU23- ■ ■ G1	-Z -
574	250	2.57	11600	3.1	178	2KJ3006- ■ JU23- ■ ■ F1	-Z -	
653	215	2.26	11300	3.5	178	2KJ3006- ■ JU23- ■ ■ E1	-Z -	
720	199	2.05	11000	3.8	178	2KJ3006- ■ JU23- ■ ■ D1	-Z -	
829	173	1.78	10700	4.4	178	2KJ3006- ■ JU23- ■ ■ C1	-Z -	
1010	142	1.46	10100	5.3	178	2KJ3006- ■ JU23- ■ ■ B1	-Z -	
1190	120	1.24	9750	6.2	178	2KJ3006- ■ JU23- ■ ■ A1	-Z -	
E.109-LE160ZLL4P								
205	695	7.19	10500	0.81	154	2KJ3005- ■ JU23- ■ ■ Q1	-Z -	
218	655	6.76	10500	0.86	154	2KJ3005- ■ JU23- ■ ■ P1	-Z -	
235	610	6.28	10500	0.93	154	2KJ3005- ■ JU23- ■ ■ N1	-Z -	
266	535	5.55	10500	1	154	2KJ3005- ■ JU23- ■ ■ M1	-Z -	
298	480	4.95	10500	1.2	154	2KJ3005- ■ JU23- ■ ■ L1	-Z -	
331	430	4.46	10500	1.3	154	2KJ3005- ■ JU23- ■ ■ K1	-Z -	
381	375	3.87	10500	1.5	154	2KJ3005- ■ JU23- ■ ■ J1	-Z -	
424	335	3.48	10500	1.6	154	2KJ3005- ■ JU23- ■ ■ H1	-Z -	
485	295	3.04	10500	1.8	154	2KJ3005- ■ JU23- ■ ■ G1	-Z -	
544	260	2.71	10500	2.1	154	2KJ3005- ■ JU23- ■ ■ F1	-Z -	
617	230	2.39	10200	2.3	154	2KJ3005- ■ JU23- ■ ■ E1	-Z -	
702	200	2.10	9940	2.6	154	2KJ3005- ■ JU23- ■ ■ D1	-Z -	
806	178	1.83	9590	3	154	2KJ3005- ■ JU23- ■ ■ C1	-Z -	
883	162	1.67	9390	3.3	154	2KJ3005- ■ JU23- ■ ■ B1	-Z -	
1031	139	1.43	9040	3.3	154	2KJ3005- ■ JU23- ■ ■ A1	-Z -	
E.89-LE160ZLL4P								
339	420	4.35	7010	0.85	132	2KJ3004- ■ JU23- ■ ■ K1	-Z -	
382	375	3.86	7190	0.96	132	2KJ3004- ■ JU23- ■ ■ J1	-Z -	
426	335	3.46	7360	1.1	132	2KJ3004- ■ JU23- ■ ■ H1	-Z -	
498	285	2.96	7470	1.3	132	2KJ3004- ■ JU23- ■ ■ G1	-Z -	
559	255	2.64	7360	1.4	132	2KJ3004- ■ JU23- ■ ■ F1	-Z -	
633	225	2.33	7210	1.6	132	2KJ3004- ■ JU23- ■ ■ E1	-Z -	
720	199	2.05	7020	1.8	132	2KJ3004- ■ JU23- ■ ■ D1	-Z -	
829	173	1.78	6830	2.1	132	2KJ3004- ■ JU23- ■ ■ C1	-Z -	
970	148	1.52	6600	2.4	132	2KJ3004- ■ JU23- ■ ■ B1	-Z -	
1135	126	1.30	6370	2.9	132	2KJ3004- ■ JU23- ■ ■ A1	-Z -	
18.5	D.189-LES180MQ4P							
	8	22100	183.92	107000	0.86	809	2KJ3214- ■ KL33- ■ ■ N1	-Z -
	8.9	19700	164.36	107000	0.96	809	2KJ3214- ■ KL33- ■ ■ M1	-Z -
	9.9	17800	148.63	107000	1.1	809	2KJ3214- ■ KL33- ■ ■ L1	-Z -
	11	15700	131.17	107000	1.2	809	2KJ3214- ■ KL33- ■ ■ K1	-Z -
	13	14000	116.88	107000	1.4	809	2KJ3214- ■ KL33- ■ ■ J1	-Z -
	14	12700	105.89	107000	1.5	809	2KJ3214- ■ KL33- ■ ■ H1	-Z -
15	11400	95.24	107000	1.7	809	2KJ3214- ■ KL33- ■ ■ G1	-Z -	
19	9510	79.14	107000	2	809	2KJ3214- ■ KL33- ■ ■ F1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
18.5	D.189-LES180MQ4P							
	21	8450	70.36	107000	2.2	809	2KJ3214- KL33- E1 -Z -	
	D.169-LES180MQ4P							
	10	16800	140.41	69100	0.83	590	2KJ3213- KL33- M1 -Z -	
	12	15000	125.28	69700	0.93	590	2KJ3213- KL33- L1 -Z -	
	13	13400	111.69	70400	1	590	2KJ3213- KL33- K1 -Z -	
	15	11900	99.06	70900	1.2	590	2KJ3213- KL33- J1 -Z -	
	16	10900	90.94	71300	1.3	590	2KJ3213- KL33- H1 -Z -	
	18	9620	80.12	71800	1.5	590	2KJ3213- KL33- G1 -Z -	
	22	7890	65.72	72400	1.8	590	2KJ3213- KL33- F1 -Z -	
	26	6920	57.63	72800	2	590	2KJ3213- KL33- E1 -Z -	
	33	5410	45.06	73300	2.6	590	2KJ3213- KL33- D1 -Z -	
	D.149-LES180MQ4P							
	19	9110	75.87	50600	0.88	421	2KJ3212- KL33- H1 -Z -	
	21	8250	68.71	51000	0.97	421	2KJ3212- KL33- G1 -Z -	
	25	7190	59.82	51600	1.1	421	2KJ3212- KL33- F1 -Z -	
	30	5890	49.05	50500	1.4	421	2KJ3212- KL33- E1 -Z -	
	34	5220	43.51	49300	1.5	421	2KJ3212- KL33- D1 -Z -	
	37	4730	39.41	48400	1.7	421	2KJ3212- KL33- C1 -Z -	
	43	4120	34.31	47000	1.9	421	2KJ3212- KL33- B1 -Z -	
	Z.149-LES180MQ4P							
	48	3650	30.39	45700	2.2	415	2KJ3112- KL33- Q1 -Z -	
	54	3250	27.07	44500	2.5	415	2KJ3112- KL33- P1 -Z -	
	60	2920	24.30	43400	2.7	415	2KJ3112- KL33- N1 -Z -	
	68	2600	21.69	42300	3.1	415	2KJ3112- KL33- M1 -Z -	
	Z.129-LES180MQ4P							
	56	3160	26.30	25700	1.6	331	2KJ3111- KL33- P1 -Z -	
	63	2810	23.41	25200	1.8	331	2KJ3111- KL33- N1 -Z -	
	70	2520	20.98	24700	2	331	2KJ3111- KL33- M1 -Z -	
	79	2230	18.60	24200	2.2	331	2KJ3111- KL33- L1 -Z -	
	90	1970	16.42	23600	2.5	331	2KJ3111- KL33- K1 -Z -	
	102	1730	14.43	23000	2.8	331	2KJ3111- KL33- J1 -Z -	
	112	1570	13.07	22500	3.1	331	2KJ3111- KL33- H1 -Z -	
	129	1360	11.38	21800	3.5	331	2KJ3111- KL33- G1 -Z -	
	172	1020	8.53	20100	3.6	331	2KJ3111- KL33- E1 -Z -	
	196	900	7.50	19500	4	331	2KJ3111- KL33- D1 -Z -	
	216	815	6.79	19100	4.4	331	2KJ3111- KL33- C1 -Z -	
	Z.109-LES180MQ4P							
	70	2540	21.13	18500	1.1	271	2KJ3110- KL33- P1 -Z -	
	80	2220	18.47	18300	1.2	271	2KJ3110- KL33- N1 -Z -	
	89	1980	16.48	18000	1.3	271	2KJ3110- KL33- M1 -Z -	
	101	1740	14.52	17800	1.5	271	2KJ3110- KL33- L1 -Z -	
	116	1520	12.72	17400	1.6	271	2KJ3110- KL33- K1 -Z -	
	133	1330	11.09	17000	1.8	271	2KJ3110- KL33- J1 -Z -	
	145	1210	10.12	16700	2	271	2KJ3110- KL33- H1 -Z -	
	169	1040	8.71	16300	2.3	271	2KJ3110- KL33- G1 -Z -	
	175	1010	8.41	16000	2.3	271	2KJ3110- KL33- F1 -Z -	
	198	890	7.41	15600	2.6	271	2KJ3110- KL33- E1 -Z -	
	226	780	6.50	15200	2.9	271	2KJ3110- KL33- D1 -Z -	
	260	680	5.66	14700	3.4	271	2KJ3110- KL33- C1 -Z -	
	284	620	5.17	14400	3.7	271	2KJ3110- KL33- B1 -Z -	
	330	535	4.45	13900	4	271	2KJ3110- KL33- A1 -Z -	
	Z.89-LES180MQ4P							
	94	1880	15.66	10300	0.89	230	2KJ3108- KL33- L1 -Z -	
	106	1660	13.84	11700	1	230	2KJ3108- KL33- K1 -Z -	
	121	1460	12.15	12800	1.1	230	2KJ3108- KL33- J1 -Z -	
	139	1270	10.58	13700	1.3	230	2KJ3108- KL33- H1 -Z -	
	163	1080	9.04	13600	1.4	230	2KJ3108- KL33- G1 -Z -	
	190	930	7.74	13100	1.6	230	2KJ3108- KL33- F1 -Z -	
	213	825	6.89	12700	1.3	230	2KJ3108- KL33- E1 -Z -	
	243	725	6.05	12700	1.5	230	2KJ3108- KL33- D1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
18.5	Z.89-LES180MQ4P							
	279	630	5.26	12200	1.7	230	2KJ3108- KL33- C1	-Z -
	327	540	4.50	11800	2	230	2KJ3108- KL33- B1	-Z -
	382	460	3.85	11300	2.3	230	2KJ3108- KL33- A1	-Z -
	E.149-LES180MQ4P							
	281	630	5.24	15500	2.4	294	2KJ3007- KL33- L1	-Z -
	315	560	4.67	15200	2.6	294	2KJ3007- KL33- K1	-Z -
	351	500	4.19	14900	2.9	294	2KJ3007- KL33- J1	-Z -
	393	445	3.74	14500	3.3	294	2KJ3007- KL33- H1	-Z -
	441	400	3.33	14200	3.7	294	2KJ3007- KL33- G1	-Z -
	497	355	2.96	13800	4.1	294	2KJ3007- KL33- F1	-Z -
	542	325	2.71	13500	4.5	294	2KJ3007- KL33- E1	-Z -
	615	285	2.39	13100	5.1	294	2KJ3007- KL33- D1	-Z -
	750	235	1.96	12500	6.2	294	2KJ3007- KL33- C1	-Z -
	E.129-LES180MQ4P							
	357	495	4.12	12400	1.6	255	2KJ3006- KL33- K1	-Z -
	401	440	3.67	12100	1.8	255	2KJ3006- KL33- J1	-Z -
	447	395	3.29	11900	2	255	2KJ3006- KL33- H1	-Z -
	505	350	2.91	11600	2.2	255	2KJ3006- KL33- G1	-Z -
572	305	2.57	11300	2.5	255	2KJ3006- KL33- F1	-Z -	
650	270	2.26	11000	2.8	255	2KJ3006- KL33- E1	-Z -	
717	245	2.05	10800	3.1	255	2KJ3006- KL33- D1	-Z -	
826	210	1.78	10400	3.6	255	2KJ3006- KL33- C1	-Z -	
1007	175	1.46	9960	4.3	255	2KJ3006- KL33- B1	-Z -	
1185	149	1.24	9560	5	255	2KJ3006- KL33- A1	-Z -	
E.109-LES180MQ4P								
422	415	3.48	10500	1.3	232	2KJ3005- KL33- H1	-Z -	
484	365	3.04	10400	1.5	232	2KJ3005- KL33- G1	-Z -	
542	325	2.71	10100	1.7	232	2KJ3005- KL33- F1	-Z -	
615	285	2.39	9940	1.9	232	2KJ3005- KL33- E1	-Z -	
700	250	2.10	9660	2.1	232	2KJ3005- KL33- D1	-Z -	
803	220	1.83	9350	2.4	232	2KJ3005- KL33- C1	-Z -	
880	200	1.67	9160	2.6	232	2KJ3005- KL33- B1	-Z -	
1028	172	1.43	8840	2.7	232	2KJ3005- KL33- A1	-Z -	
E.89-LES180MQ4P								
557	315	2.64	6300	1.1	208	2KJ3004- KL33- F1	-Z -	
717	245	2.05	6480	1.5	208	2KJ3004- KL33- D1	-Z -	
826	210	1.78	6570	1.7	208	2KJ3004- KL33- C1	-Z -	
967	183	1.52	6340	2	208	2KJ3004- KL33- B1	-Z -	
1131	156	1.30	6150	2.3	208	2KJ3004- KL33- A1	-Z -	
22	D.189-LES180ZLN4P							
	8.9	23400	164.36	107000	0.81	814	2KJ3214- KN33- M1	-Z -
	9.9	21200	148.63	107000	0.89	814	2KJ3214- KN33- L1	-Z -
	11	18700	131.17	107000	1	814	2KJ3214- KN33- K1	-Z -
	13	16700	116.88	107000	1.1	814	2KJ3214- KN33- J1	-Z -
	14	15100	105.89	107000	1.3	814	2KJ3214- KN33- H1	-Z -
	15	13600	95.24	107000	1.4	814	2KJ3214- KN33- G1	-Z -
	19	11300	79.14	107000	1.7	814	2KJ3214- KN33- F1	-Z -
	21	10000	70.36	107000	1.9	814	2KJ3214- KN33- E1	-Z -
	26	8010	56.08	107000	2.4	814	2KJ3214- KN33- D1	-Z -
	D.169-LES180ZLN4P							
	13	15900	111.69	69400	0.88	595	2KJ3213- KN33- K1	-Z -
	15	14100	99.06	70100	0.99	595	2KJ3213- KN33- J1	-Z -
	16	12900	90.94	70500	1.1	595	2KJ3213- KN33- H1	-Z -
	18	11400	80.12	71000	1.2	595	2KJ3213- KN33- G1	-Z -
	22	9390	65.72	71800	1.5	595	2KJ3213- KN33- F1	-Z -
	26	8230	57.63	72300	1.7	595	2KJ3213- KN33- E1	-Z -
	33	6440	45.06	72900	2.2	595	2KJ3213- KN33- D1	-Z -
	35	5920	41.43	73100	2.4	595	2KJ3213- KN33- C1	-Z -
	40	5190	36.33	73400	2.7	595	2KJ3213- KN33- B1	-Z -

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
22	Z.169-LES180ZLN4P							
	40	5220	36.55	73400	2.3	558	2KJ3113- ■ KN33- ■ ■ Q1 -Z -	
	D.149-LES180ZLN4P							
	21	9820	68.71	50300	0.81	426	2KJ3212- ■ KN33- ■ ■ G1 -Z -	
	25	8550	59.82	50500	0.94	426	2KJ3212- ■ KN33- ■ ■ F1 -Z -	
	30	7010	49.05	49000	1.1	426	2KJ3212- ■ KN33- ■ ■ E1 -Z -	
	34	6210	43.51	48000	1.3	426	2KJ3212- ■ KN33- ■ ■ D1 -Z -	
	37	5630	39.41	47100	1.4	426	2KJ3212- ■ KN33- ■ ■ C1 -Z -	
	43	4900	34.31	45900	1.6	426	2KJ3212- ■ KN33- ■ ■ B1 -Z -	
	Z.149-LES180ZLN4P							
	48	4340	30.39	44800	1.8	420	2KJ3112- ■ KN33- ■ ■ Q1 -Z -	
	54	3860	27.07	43700	2.1	420	2KJ3112- ■ KN33- ■ ■ P1 -Z -	
	60	3470	24.30	42700	2.3	420	2KJ3112- ■ KN33- ■ ■ N1 -Z -	
	68	3100	21.69	41600	2.6	420	2KJ3112- ■ KN33- ■ ■ M1 -Z -	
	76	2760	19.33	40500	2.9	420	2KJ3112- ■ KN33- ■ ■ L1 -Z -	
	86	2450	17.15	39400	3.3	420	2KJ3112- ■ KN33- ■ ■ K1 -Z -	
	Z.129-LES180ZLN4P							
	56	3750	26.30	24600	1.3	336	2KJ3111- ■ KN33- ■ ■ P1 -Z -	
	63	3340	23.41	24300	1.5	336	2KJ3111- ■ KN33- ■ ■ N1 -Z -	
	70	2990	20.98	23900	1.7	336	2KJ3111- ■ KN33- ■ ■ M1 -Z -	
	79	2650	18.60	23500	1.9	336	2KJ3111- ■ KN33- ■ ■ L1 -Z -	
	90	2340	16.42	23000	2.1	336	2KJ3111- ■ KN33- ■ ■ K1 -Z -	
	102	2060	14.43	22400	2.4	336	2KJ3111- ■ KN33- ■ ■ J1 -Z -	
	112	1860	13.07	22000	2.6	336	2KJ3111- ■ KN33- ■ ■ H1 -Z -	
	129	1620	11.38	21400	2.9	336	2KJ3111- ■ KN33- ■ ■ G1 -Z -	
	158	1330	9.33	20500	3.5	336	2KJ3111- ■ KN33- ■ ■ F1 -Z -	
	172	1210	8.53	19800	3	336	2KJ3111- ■ KN33- ■ ■ E1 -Z -	
	196	1070	7.50	19200	3.4	336	2KJ3111- ■ KN33- ■ ■ D1 -Z -	
	216	970	6.79	18800	3.7	336	2KJ3111- ■ KN33- ■ ■ C1 -Z -	
	249	845	5.91	18200	4.3	336	2KJ3111- ■ KN33- ■ ■ B1 -Z -	
	303	690	4.85	17300	4.7	336	2KJ3111- ■ KN33- ■ ■ A1 -Z -	
	Z.109-LES180ZLN4P							
	70	3020	21.13	17400	0.94	276	2KJ3110- ■ KN33- ■ ■ P1 -Z -	
	80	2640	18.47	17300	1	276	2KJ3110- ■ KN33- ■ ■ N1 -Z -	
	89	2350	16.48	17200	1.1	276	2KJ3110- ■ KN33- ■ ■ M1 -Z -	
	101	2070	14.52	17000	1.2	276	2KJ3110- ■ KN33- ■ ■ L1 -Z -	
	116	1810	12.72	16700	1.4	276	2KJ3110- ■ KN33- ■ ■ K1 -Z -	
	133	1580	11.09	16400	1.6	276	2KJ3110- ■ KN33- ■ ■ J1 -Z -	
	145	1440	10.12	16200	1.7	276	2KJ3110- ■ KN33- ■ ■ H1 -Z -	
	169	1240	8.71	15800	1.9	276	2KJ3110- ■ KN33- ■ ■ G1 -Z -	
	175	1200	8.41	15500	1.9	276	2KJ3110- ■ KN33- ■ ■ F1 -Z -	
	198	1050	7.41	15200	2.2	276	2KJ3110- ■ KN33- ■ ■ E1 -Z -	
	226	925	6.50	14800	2.5	276	2KJ3110- ■ KN33- ■ ■ D1 -Z -	
	260	805	5.66	14400	2.8	276	2KJ3110- ■ KN33- ■ ■ C1 -Z -	
	284	735	5.17	14100	3.1	276	2KJ3110- ■ KN33- ■ ■ B1 -Z -	
	330	635	4.45	13700	3.4	276	2KJ3110- ■ KN33- ■ ■ A1 -Z -	
	Z.89-LES180ZLN4P							
	106	1970	13.84	7850	0.85	235	2KJ3108- ■ KN33- ■ ■ K1 -Z -	
	121	1730	12.15	9460	0.94	235	2KJ3108- ■ KN33- ■ ■ J1 -Z -	
	139	1510	10.58	10800	1.1	235	2KJ3108- ■ KN33- ■ ■ H1 -Z -	
	163	1290	9.04	12000	1.2	235	2KJ3108- ■ KN33- ■ ■ G1 -Z -	
	190	1100	7.74	12700	1.4	235	2KJ3108- ■ KN33- ■ ■ F1 -Z -	
	213	985	6.89	10200	1.1	235	2KJ3108- ■ KN33- ■ ■ E1 -Z -	
	243	865	6.05	10900	1.2	235	2KJ3108- ■ KN33- ■ ■ D1 -Z -	
	279	750	5.26	11600	1.4	235	2KJ3108- ■ KN33- ■ ■ C1 -Z -	
	327	640	4.50	11500	1.6	235	2KJ3108- ■ KN33- ■ ■ B1 -Z -	
	382	550	3.85	11100	1.9	235	2KJ3108- ■ KN33- ■ ■ A1 -Z -	
	E.149-LES180ZLN4P							
	281	745	5.24	15000	2	299	2KJ3007- ■ KN33- ■ ■ L1 -Z -	
	315	665	4.67	14700	2.2	299	2KJ3007- ■ KN33- ■ ■ K1 -Z -	
	351	595	4.19	14500	2.5	299	2KJ3007- ■ KN33- ■ ■ J1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code	
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles	
22	E.149-LES180ZLN4P								
	393	535	3.74	14100	2.8	299	2KJ3007- ■ KN33- ■ ■ H1 -Z -		
	441	475	3.33	13800	3.1	299	2KJ3007- ■ KN33- ■ ■ G1 -Z -		
	497	420	2.96	13500	3.5	299	2KJ3007- ■ KN33- ■ ■ F1 -Z -		
	542	385	2.71	13200	3.8	299	2KJ3007- ■ KN33- ■ ■ E1 -Z -		
	615	340	2.39	12800	4.3	299	2KJ3007- ■ KN33- ■ ■ D1 -Z -		
	750	280	1.96	12200	5.2	299	2KJ3007- ■ KN33- ■ ■ C1 -Z -		
	855	245	1.72	11900	5.9	299	2KJ3007- ■ KN33- ■ ■ B1 -Z -		
	1097	192	1.34	11100	6.7	299	2KJ3007- ■ KN33- ■ ■ A1 -Z -		
	22	E.129-LES180ZLN4P							
357		585	4.12	11900	1.3	260	2KJ3006- ■ KN33- ■ ■ K1 -Z -		
401		525	3.67	11600	1.5	260	2KJ3006- ■ KN33- ■ ■ J1 -Z -		
447		470	3.29	11400	1.7	260	2KJ3006- ■ KN33- ■ ■ H1 -Z -		
505		415	2.91	11200	1.9	260	2KJ3006- ■ KN33- ■ ■ G1 -Z -		
572		365	2.57	11000	2.1	260	2KJ3006- ■ KN33- ■ ■ F1 -Z -		
650		320	2.26	10700	2.4	260	2KJ3006- ■ KN33- ■ ■ E1 -Z -		
717		290	2.05	10500	2.6	260	2KJ3006- ■ KN33- ■ ■ D1 -Z -		
826		250	1.78	10200	3	260	2KJ3006- ■ KN33- ■ ■ C1 -Z -		
1007		205	1.46	9760	3.6	260	2KJ3006- ■ KN33- ■ ■ B1 -Z -		
1185		177	1.24	9360	4.2	260	2KJ3006- ■ KN33- ■ ■ A1 -Z -		
22		E.109-LES180ZLN4P							
		422	495	3.48	10200	1.1	237	2KJ3005- ■ KN33- ■ ■ H1 -Z -	
	484	430	3.04	10000	1.3	237	2KJ3005- ■ KN33- ■ ■ G1 -Z -		
	542	385	2.71	9850	1.4	237	2KJ3005- ■ KN33- ■ ■ F1 -Z -		
	615	340	2.39	9620	1.6	237	2KJ3005- ■ KN33- ■ ■ E1 -Z -		
	700	300	2.10	9360	1.8	237	2KJ3005- ■ KN33- ■ ■ D1 -Z -		
	803	260	1.83	9110	2	237	2KJ3005- ■ KN33- ■ ■ C1 -Z -		
	880	235	1.67	8950	2.2	237	2KJ3005- ■ KN33- ■ ■ B1 -Z -		
	1028	200	1.43	8660	2.3	237	2KJ3005- ■ KN33- ■ ■ A1 -Z -		
	22	E.89-LES180ZLN4P							
557		375	2.64	5080	0.95	213	2KJ3004- ■ KN33- ■ ■ F1 -Z -		
967		215	1.52	5660	1.7	213	2KJ3004- ■ KN33- ■ ■ B1 -Z -		
1131	186	1.30	5600	1.9	213	2KJ3004- ■ KN33- ■ ■ A1 -Z -			
30	D.189-LES200ZLU4P								
	13	22700	116.88	107000	0.83	884	2KJ3214- ■ LN33- ■ ■ J1 -Z -		
	14	20600	105.89	107000	0.92	884	2KJ3214- ■ LN33- ■ ■ H1 -Z -		
	15	18500	95.24	107000	1	884	2KJ3214- ■ LN33- ■ ■ G1 -Z -		
	19	15400	79.14	107000	1.2	884	2KJ3214- ■ LN33- ■ ■ F1 -Z -		
	21	13700	70.36	107000	1.4	884	2KJ3214- ■ LN33- ■ ■ E1 -Z -		
	26	10900	56.08	107000	1.7	884	2KJ3214- ■ LN33- ■ ■ D1 -Z -		
	33	8690	44.63	107000	2.2	884	2KJ3214- ■ LN33- ■ ■ C1 -Z -		
	40	7140	36.67	107000	2.7	884	2KJ3214- ■ LN33- ■ ■ B1 -Z -		
	30	D.169-LES200ZLU4P							
		18	15600	80.12	69500	0.9	665	2KJ3213- ■ LN33- ■ ■ G1 -Z -	
		22	12800	65.72	70600	1.1	665	2KJ3213- ■ LN33- ■ ■ F1 -Z -	
		26	11200	57.63	71100	1.2	665	2KJ3213- ■ LN33- ■ ■ E1 -Z -	
		33	8780	45.06	72100	1.6	665	2KJ3213- ■ LN33- ■ ■ D1 -Z -	
		35	8070	41.43	72300	1.7	665	2KJ3213- ■ LN33- ■ ■ C1 -Z -	
		40	7080	36.33	72700	2	665	2KJ3213- ■ LN33- ■ ■ B1 -Z -	
30		Z.169-LES200ZLU4P							
	45	6400	32.88	72900	2.2	634	2KJ3113- ■ LN33- ■ ■ P1 -Z -		
	50	5720	29.38	73200	2.4	634	2KJ3113- ■ LN33- ■ ■ N1 -Z -		
55	5170	26.57	73400	2.7	634	2KJ3113- ■ LN33- ■ ■ M1 -Z -			
30	D.149-LES200ZLU4P								
	30	9560	49.05	45500	0.84	501	2KJ3212- ■ LN33- ■ ■ E1 -Z -		
	34	8480	43.51	44900	0.94	501	2KJ3212- ■ LN33- ■ ■ D1 -Z -		
	37	7680	39.41	44300	1	501	2KJ3212- ■ LN33- ■ ■ C1 -Z -		
43	6680	34.31	43500	1.2	501	2KJ3212- ■ LN33- ■ ■ B1 -Z -			
30	Z.149-LES200ZLU4P								
	54	5270	27.07	41800	1.5	494	2KJ3112- ■ LN33- ■ ■ P1 -Z -		
60	4730	24.30	41000	1.7	494	2KJ3112- ■ LN33- ■ ■ N1 -Z -			

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
30	Z.149-LES200ZLU4P							
	68	4220	21.69	40100	1.9	494	2KJ3112- LN33- M1	-Z -
	76	3760	19.33	39100	2.1	494	2KJ3112- LN33- L1	-Z -
	86	3340	17.15	38100	2.4	494	2KJ3112- LN33- K1	-Z -
	93	3060	15.74	37400	2.6	494	2KJ3112- LN33- J1	-Z -
	106	2700	13.87	36400	3	494	2KJ3112- LN33- H1	-Z -
	129	2210	11.38	34700	3.6	494	2KJ3112- LN33- G1	-Z -
	202	1410	7.27	31200	3.4	494	2KJ3112- LN33- D1	-Z -
	247	1160	5.96	29600	4.2	494	2KJ3112- LN33- C1	-Z -
	281	1010	5.23	28600	4.8	494	2KJ3112- LN33- B1	-Z -
	Z.129-LES200ZLU4P							
	63	4560	23.41	22200	1.1	411	2KJ3111- LN33- N1	-Z -
	70	4080	20.98	22000	1.2	411	2KJ3111- LN33- M1	-Z -
	79	3620	18.60	21800	1.4	411	2KJ3111- LN33- L1	-Z -
	90	3200	16.42	21500	1.6	411	2KJ3111- LN33- K1	-Z -
	102	2810	14.43	21100	1.8	411	2KJ3111- LN33- J1	-Z -
	112	2540	13.07	20800	1.9	411	2KJ3111- LN33- H1	-Z -
	129	2210	11.38	20400	2.1	411	2KJ3111- LN33- G1	-Z -
	158	1810	9.33	19600	2.6	411	2KJ3111- LN33- F1	-Z -
	172	1660	8.53	18900	2.2	411	2KJ3111- LN33- E1	-Z -
	196	1460	7.50	18400	2.5	411	2KJ3111- LN33- D1	-Z -
	216	1320	6.79	18100	2.7	411	2KJ3111- LN33- C1	-Z -
	249	1150	5.91	17600	3.1	411	2KJ3111- LN33- B1	-Z -
	303	945	4.85	16800	3.5	411	2KJ3111- LN33- A1	-Z -
	Z.109-LES200ZLU4P							
	89	3210	16.48	15200	0.82	351	2KJ3110- LN33- M1	-Z -
	101	2830	14.52	15200	0.91	351	2KJ3110- LN33- L1	-Z -
	116	2470	12.72	15200	1	351	2KJ3110- LN33- K1	-Z -
133	2160	11.09	15100	1.1	351	2KJ3110- LN33- J1	-Z -	
145	1970	10.12	15000	1.2	351	2KJ3110- LN33- H1	-Z -	
169	1690	8.71	14800	1.4	351	2KJ3110- LN33- G1	-Z -	
175	1630	8.41	14400	1.4	351	2KJ3110- LN33- F1	-Z -	
198	1440	7.41	14200	1.6	351	2KJ3110- LN33- E1	-Z -	
226	1260	6.50	13900	1.8	351	2KJ3110- LN33- D1	-Z -	
260	1100	5.66	13600	2.1	351	2KJ3110- LN33- C1	-Z -	
284	1000	5.17	13500	2.3	351	2KJ3110- LN33- B1	-Z -	
330	865	4.45	13100	2.5	351	2KJ3110- LN33- A1	-Z -	
E.149-LES200ZLU4P								
315	910	4.67	13600	1.6	374	2KJ3007- LN33- K1	-Z -	
351	815	4.19	13500	1.8	374	2KJ3007- LN33- J1	-Z -	
393	725	3.74	13200	2	374	2KJ3007- LN33- H1	-Z -	
441	645	3.33	13000	2.3	374	2KJ3007- LN33- G1	-Z -	
497	575	2.96	12700	2.5	374	2KJ3007- LN33- F1	-Z -	
542	525	2.71	12600	2.8	374	2KJ3007- LN33- E1	-Z -	
615	465	2.39	12200	3.1	374	2KJ3007- LN33- D1	-Z -	
750	380	1.96	11700	3.8	374	2KJ3007- LN33- C1	-Z -	
855	335	1.72	11400	4.4	374	2KJ3007- LN33- B1	-Z -	
1097	260	1.34	10800	4.9	374	2KJ3007- LN33- A1	-Z -	
E.129-LES200ZLU4P								
401	715	3.67	10200	1.1	335	2KJ3006- LN33- J1	-Z -	
447	640	3.29	10400	1.2	335	2KJ3006- LN33- H1	-Z -	
505	565	2.91	10300	1.4	335	2KJ3006- LN33- G1	-Z -	
572	500	2.57	10200	1.5	335	2KJ3006- LN33- F1	-Z -	
650	440	2.26	10000	1.7	335	2KJ3006- LN33- E1	-Z -	
717	400	2.05	9830	1.9	335	2KJ3006- LN33- D1	-Z -	
826	345	1.78	9610	2.2	335	2KJ3006- LN33- C1	-Z -	
1007	285	1.46	9220	2.7	335	2KJ3006- LN33- B1	-Z -	
1185	240	1.24	8910	3.1	335	2KJ3006- LN33- A1	-Z -	
E.109-LES200ZLU4P								
484	590	3.04	7660	0.92	312	2KJ3005- LN33- G1	-Z -	
542	525	2.71	7980	1	312	2KJ3005- LN33- F1	-Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
30	E.109-LES200ZLU4P							
	803	355	1.83	8310	1.5	312	2KJ3005- ■ LN33- ■ ■ C1 -Z -	
	880	325	1.67	8320	1.6	312	2KJ3005- ■ LN33- ■ ■ B1 -Z -	
	1028	275	1.43	8180	1.7	312	2KJ3005- ■ LN33- ■ ■ A1 -Z -	
37	D.189-LES225SD4P							
	16	22700	95.24	107000	0.83	935	2KJ3214- ■ MF33- ■ ■ G1 -Z -	
	19	18900	79.14	107000	1	935	2KJ3214- ■ MF33- ■ ■ F1 -Z -	
	21	16800	70.36	107000	1.1	935	2KJ3214- ■ MF33- ■ ■ E1 -Z -	
	26	13400	56.08	107000	1.4	935	2KJ3214- ■ MF33- ■ ■ D1 -Z -	
	33	10600	44.63	107000	1.8	935	2KJ3214- ■ MF33- ■ ■ C1 -Z -	
	Z.189-LES225SD4P							
	43	8180	34.25	107000	2.3	853	2KJ3114- ■ MF33- ■ ■ L1 -Z -	
	48	7340	30.73	107000	2.6	853	2KJ3114- ■ MF33- ■ ■ K1 -Z -	
	54	6560	27.46	105100	2.9	853	2KJ3114- ■ MF33- ■ ■ J1 -Z -	
	D.169-LES225SD4P							
	22	15700	65.72	69500	0.89	721	2KJ3213- ■ MF33- ■ ■ F1 -Z -	
	26	13700	57.63	70200	1	721	2KJ3213- ■ MF33- ■ ■ E1 -Z -	
	33	10700	45.06	71300	1.3	721	2KJ3213- ■ MF33- ■ ■ D1 -Z -	
	36	9900	41.43	71700	1.4	721	2KJ3213- ■ MF33- ■ ■ C1 -Z -	
	41	8680	36.33	72100	1.6	721	2KJ3213- ■ MF33- ■ ■ B1 -Z -	
	Z.169-LES225SD4P							
	50	7020	29.38	72700	2	677	2KJ3113- ■ MF33- ■ ■ N1 -Z -	
	56	6350	26.57	72100	2.2	677	2KJ3113- ■ MF33- ■ ■ M1 -Z -	
	63	5600	23.45	70000	2.5	677	2KJ3113- ■ MF33- ■ ■ L1 -Z -	
	71	4990	20.90	68200	2.8	677	2KJ3113- ■ MF33- ■ ■ K1 -Z -	
	78	4520	18.93	66600	3.1	677	2KJ3113- ■ MF33- ■ ■ J1 -Z -	
	D.149-LES225SD4P							
	38	9420	39.41	41900	0.85	546	2KJ3212- ■ MF33- ■ ■ C1 -Z -	
	43	8200	34.31	41300	0.98	546	2KJ3212- ■ MF33- ■ ■ B1 -Z -	
	53	6720	28.13	40300	1.2	546	2KJ3212- ■ MF33- ■ ■ A1 -Z -	
	Z.149-LES225SD4P							
	61	5800	24.30	39400	1.4	539	2KJ3112- ■ MF33- ■ ■ N1 -Z -	
	68	5180	21.69	38700	1.5	539	2KJ3112- ■ MF33- ■ ■ M1 -Z -	
	76	4620	19.33	37900	1.7	539	2KJ3112- ■ MF33- ■ ■ L1 -Z -	
	86	4100	17.15	37000	2	539	2KJ3112- ■ MF33- ■ ■ K1 -Z -	
	94	3760	15.74	36400	2.1	539	2KJ3112- ■ MF33- ■ ■ J1 -Z -	
	107	3310	13.87	35500	2.4	539	2KJ3112- ■ MF33- ■ ■ H1 -Z -	
	130	2720	11.38	34000	2.9	539	2KJ3112- ■ MF33- ■ ■ G1 -Z -	
	148	2380	9.98	33000	3.4	539	2KJ3112- ■ MF33- ■ ■ F1 -Z -	
	189	1860	7.80	31100	4.3	539	2KJ3112- ■ MF33- ■ ■ E1 -Z -	
	203	1730	7.27	30700	2.8	539	2KJ3112- ■ MF33- ■ ■ D1 -Z -	
248	1420	5.96	29200	3.4	539	2KJ3112- ■ MF33- ■ ■ C1 -Z -		
283	1250	5.23	28200	3.9	539	2KJ3112- ■ MF33- ■ ■ B1 -Z -		
361	975	4.09	26400	5	539	2KJ3112- ■ MF33- ■ ■ A1 -Z -		
Z.129-LES225SD4P								
70	5010	20.98	20400	1	455	2KJ3111- ■ MF33- ■ ■ M1 -Z -		
79	4440	18.60	20300	1.1	455	2KJ3111- ■ MF33- ■ ■ L1 -Z -		
90	3920	16.42	20200	1.3	455	2KJ3111- ■ MF33- ■ ■ K1 -Z -		
102	3450	14.43	20000	1.4	455	2KJ3111- ■ MF33- ■ ■ J1 -Z -		
113	3120	13.07	19800	1.6	455	2KJ3111- ■ MF33- ■ ■ H1 -Z -		
130	2720	11.38	19500	1.7	455	2KJ3111- ■ MF33- ■ ■ G1 -Z -		
158	2230	9.33	18900	2.1	455	2KJ3111- ■ MF33- ■ ■ F1 -Z -		
173	2030	8.53	18100	1.8	455	2KJ3111- ■ MF33- ■ ■ E1 -Z -		
197	1790	7.50	17800	2	455	2KJ3111- ■ MF33- ■ ■ D1 -Z -		
218	1620	6.79	17500	2.2	455	2KJ3111- ■ MF33- ■ ■ C1 -Z -		
250	1410	5.91	17000	2.6	455	2KJ3111- ■ MF33- ■ ■ B1 -Z -		
305	1160	4.85	16400	2.8	455	2KJ3111- ■ MF33- ■ ■ A1 -Z -		
Z.109-LES225SD4P								
116	3040	12.72	13800	0.83	393	2KJ3110- ■ MF33- ■ ■ K1 -Z -		
133	2650	11.09	13900	0.93	393	2KJ3110- ■ MF33- ■ ■ J1 -Z -		
146	2410	10.12	13900	1	393	2KJ3110- ■ MF33- ■ ■ H1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
37	Z.109-LES225SD4P							
	170	2080	8.71	13800	1.1	393	2KJ3110- MF33- G1 -Z -	
	176	2010	8.41	13400	1.1	393	2KJ3110- MF33- F1 -Z -	
	199	1770	7.41	13300	1.3	393	2KJ3110- MF33- E1 -Z -	
	227	1550	6.50	13200	1.5	393	2KJ3110- MF33- D1 -Z -	
	261	1350	5.66	13000	1.7	393	2KJ3110- MF33- C1 -Z -	
	286	1230	5.17	12800	1.8	393	2KJ3110- MF33- B1 -Z -	
	332	1060	4.45	12600	2	393	2KJ3110- MF33- A1 -Z -	
	E.149-LES225SD4P							
	353	1000	4.19	12600	1.5	419	2KJ3007- MF33- J1 -Z -	
	395	890	3.74	12500	1.7	419	2KJ3007- MF33- H1 -Z -	
	444	795	3.33	12300	1.9	419	2KJ3007- MF33- G1 -Z -	
	499	705	2.96	12100	2.1	419	2KJ3007- MF33- F1 -Z -	
	545	645	2.71	12000	2.3	419	2KJ3007- MF33- E1 -Z -	
	618	570	2.39	11700	2.6	419	2KJ3007- MF33- D1 -Z -	
	754	465	1.96	11300	3.1	419	2KJ3007- MF33- C1 -Z -	
	859	410	1.72	11000	3.6	419	2KJ3007- MF33- B1 -Z -	
	1103	320	1.34	10400	4	419	2KJ3007- MF33- A1 -Z -	
	E.129-LES225SD4P							
	449	785	3.29	8430	0.99	379	2KJ3006- MF33- H1 -Z -	
	508	695	2.91	8760	1.1	379	2KJ3006- MF33- G1 -Z -	
	721	490	2.05	9140	1.6	379	2KJ3006- MF33- D1 -Z -	
	830	425	1.78	9070	1.8	379	2KJ3006- MF33- C1 -Z -	
	1012	345	1.46	8790	2.2	379	2KJ3006- MF33- B1 -Z -	
	1192	295	1.24	8500	2.5	379	2KJ3006- MF33- A1 -Z -	
	E.109-LES225SD4P							
	545	645	2.71	5910	0.84	354	2KJ3005- MF33- F1 -Z -	
45	D.189-LES225YMF4P							
	19	23000	79.14	107000	0.83	980	2KJ3214- MT33- F1 -Z -	
	21	20400	70.36	107000	0.93	980	2KJ3214- MT33- E1 -Z -	
	26	16300	56.08	107000	1.2	980	2KJ3214- MT33- D1 -Z -	
	33	12900	44.63	107000	1.5	980	2KJ3214- MT33- C1 -Z -	
	Z.189-LES225YMF4P							
	43	9950	34.25	107000	1.9	898	2KJ3114- MT33- L1 -Z -	
	48	8930	30.73	106700	2.1	898	2KJ3114- MT33- K1 -Z -	
	54	7980	27.46	103800	2.4	898	2KJ3114- MT33- J1 -Z -	
	60	7130	24.53	100900	2.7	898	2KJ3114- MT33- H1 -Z -	
	66	6520	22.44	98600	2.9	898	2KJ3114- MT33- G1 -Z -	
	D.169-LES225YMF4P							
	26	16700	57.63	69100	0.84	766	2KJ3213- MT33- E1 -Z -	
	33	13100	45.06	70500	1.1	766	2KJ3213- MT33- D1 -Z -	
	36	12000	41.43	70900	1.2	766	2KJ3213- MT33- C1 -Z -	
	41	10500	36.33	71400	1.3	766	2KJ3213- MT33- B1 -Z -	
	Z.169-LES225YMF4P							
	50	8540	29.38	71800	1.6	722	2KJ3113- MT33- N1 -Z -	
	56	7720	26.57	70400	1.8	722	2KJ3113- MT33- M1 -Z -	
	63	6810	23.45	68600	2.1	722	2KJ3113- MT33- L1 -Z -	
	71	6070	20.90	66900	2.3	722	2KJ3113- MT33- K1 -Z -	
	78	5500	18.93	65400	2.5	722	2KJ3113- MT33- J1 -Z -	
	87	4950	17.03	63800	2.8	722	2KJ3113- MT33- H1 -Z -	
	104	4110	14.15	61100	3.4	722	2KJ3113- MT33- G1 -Z -	
	201	2140	7.37	51700	3.7	722	2KJ3113- MT33- C1 -Z -	
	251	1710	5.88	48700	4.6	722	2KJ3113- MT33- B1 -Z -	
	D.149-LES225YMF4P							
43	9970	34.31	38900	0.8	591	2KJ3212- MT33- B1 -Z -		
53	8170	28.13	38300	0.98	591	2KJ3212- MT33- A1 -Z -		
Z.149-LES225YMF4P								
61	7060	24.30	37700	1.1	584	2KJ3112- MT33- N1 -Z -		
68	6300	21.69	37100	1.3	584	2KJ3112- MT33- M1 -Z -		
76	5620	19.33	36500	1.4	584	2KJ3112- MT33- L1 -Z -		
86	4980	17.15	35800	1.6	584	2KJ3112- MT33- K1 -Z -		

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
45	Z.149-LES225YMF4P							
	94	4570	15.74	35300	1.7	584	2KJ3112- ■ MT33- ■ ■ J1 -Z -	
	107	4030	13.87	34500	2	584	2KJ3112- ■ MT33- ■ ■ H1 -Z -	
	130	3300	11.38	33200	2.4	584	2KJ3112- ■ MT33- ■ ■ G1 -Z -	
	148	2900	9.98	32300	2.8	584	2KJ3112- ■ MT33- ■ ■ F1 -Z -	
	189	2260	7.80	30600	3.5	584	2KJ3112- ■ MT33- ■ ■ E1 -Z -	
	203	2110	7.27	30200	2.3	584	2KJ3112- ■ MT33- ■ ■ D1 -Z -	
	248	1730	5.96	28800	2.8	584	2KJ3112- ■ MT33- ■ ■ C1 -Z -	
	283	1520	5.23	27900	3.2	584	2KJ3112- ■ MT33- ■ ■ B1 -Z -	
	361	1180	4.09	26200	4.1	584	2KJ3112- ■ MT33- ■ ■ A1 -Z -	
	Z.129-LES225YMF4P							
	70	6100	20.98	12900	0.82	500	2KJ3111- ■ MT33- ■ ■ M1 -Z -	
	79	5400	18.60	16700	0.92	500	2KJ3111- ■ MT33- ■ ■ L1 -Z -	
	90	4770	16.42	18700	1	500	2KJ3111- ■ MT33- ■ ■ K1 -Z -	
	102	4190	14.43	18700	1.2	500	2KJ3111- ■ MT33- ■ ■ J1 -Z -	
	113	3800	13.07	18600	1.3	500	2KJ3111- ■ MT33- ■ ■ H1 -Z -	
	130	3300	11.38	18500	1.4	500	2KJ3111- ■ MT33- ■ ■ G1 -Z -	
	158	2710	9.33	18100	1.7	500	2KJ3111- ■ MT33- ■ ■ F1 -Z -	
	173	2480	8.53	17200	1.5	500	2KJ3111- ■ MT33- ■ ■ E1 -Z -	
	197	2180	7.50	17000	1.7	500	2KJ3111- ■ MT33- ■ ■ D1 -Z -	
	218	1970	6.79	16800	1.8	500	2KJ3111- ■ MT33- ■ ■ C1 -Z -	
	250	1710	5.91	16400	2.1	500	2KJ3111- ■ MT33- ■ ■ B1 -Z -	
	305	1410	4.85	15900	2.3	500	2KJ3111- ■ MT33- ■ ■ A1 -Z -	
	Z.109-LES225YMF4P							
	146	2940	10.12	12700	0.83	438	2KJ3110- ■ MT33- ■ ■ H1 -Z -	
	170	2530	8.71	12800	0.94	438	2KJ3110- ■ MT33- ■ ■ G1 -Z -	
	176	2440	8.41	12300	0.94	438	2KJ3110- ■ MT33- ■ ■ F1 -Z -	
	199	2150	7.41	12400	1.1	438	2KJ3110- ■ MT33- ■ ■ E1 -Z -	
	227	1890	6.50	12300	1.2	438	2KJ3110- ■ MT33- ■ ■ D1 -Z -	
	261	1640	5.66	12300	1.4	438	2KJ3110- ■ MT33- ■ ■ C1 -Z -	
	286	1500	5.17	12200	1.5	438	2KJ3110- ■ MT33- ■ ■ B1 -Z -	
	332	1290	4.45	12000	1.7	438	2KJ3110- ■ MT33- ■ ■ A1 -Z -	
	E.149-LES225YMF4P							
	353	1210	4.19	10600	1.2	464	2KJ3007- ■ MT33- ■ ■ J1 -Z -	
	395	1080	3.74	11000	1.4	464	2KJ3007- ■ MT33- ■ ■ H1 -Z -	
	444	965	3.33	11200	1.5	464	2KJ3007- ■ MT33- ■ ■ G1 -Z -	
499	860	2.96	11400	1.7	464	2KJ3007- ■ MT33- ■ ■ F1 -Z -		
545	785	2.71	11300	1.9	464	2KJ3007- ■ MT33- ■ ■ E1 -Z -		
618	695	2.39	11100	2.1	464	2KJ3007- ■ MT33- ■ ■ D1 -Z -		
754	570	1.96	10800	2.6	464	2KJ3007- ■ MT33- ■ ■ C1 -Z -		
859	500	1.72	10500	2.9	464	2KJ3007- ■ MT33- ■ ■ B1 -Z -		
1103	390	1.34	10000	3.3	464	2KJ3007- ■ MT33- ■ ■ A1 -Z -		
E.129-LES225YMF4P								
449	955	3.29	6110	0.82	424	2KJ3006- ■ MT33- ■ ■ H1 -Z -		
508	845	2.91	6660	0.91	424	2KJ3006- ■ MT33- ■ ■ G1 -Z -		
830	515	1.78	7770	1.5	424	2KJ3006- ■ MT33- ■ ■ C1 -Z -		
1012	425	1.46	7830	1.8	424	2KJ3006- ■ MT33- ■ ■ B1 -Z -		
1192	360	1.24	7830	2.1	424	2KJ3006- ■ MT33- ■ ■ A1 -Z -		
55	D.189-LES250MD4P							
	26	19800	56.08	107000	0.96	1083	2KJ3214- ■ NM33- ■ ■ D1 -Z -	
	33	15800	44.63	107000	1.2	1083	2KJ3214- ■ NM33- ■ ■ C1 -Z -	
	40	12900	36.67	107000	1.5	1083	2KJ3214- ■ NM33- ■ ■ B1 -Z -	
	Z.189-LES250MD4P							
	54	9730	27.46	102100	2	1001	2KJ3114- ■ NM33- ■ ■ J1 -Z -	
	60	8690	24.53	99400	2.2	1001	2KJ3114- ■ NM33- ■ ■ H1 -Z -	
	66	7950	22.44	97200	2.4	1001	2KJ3114- ■ NM33- ■ ■ G1 -Z -	
	74	7070	19.95	94400	2.7	1001	2KJ3114- ■ NM33- ■ ■ F1 -Z -	
	88	6000	16.93	90500	3.2	1001	2KJ3114- ■ NM33- ■ ■ E1 -Z -	
	D.169-LES250MD4P							
	33	15900	45.06	69400	0.88	870	2KJ3213- ■ NM33- ■ ■ D1 -Z -	
	36	14600	41.43	69900	0.95	870	2KJ3213- ■ NM33- ■ ■ C1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Geared motors up to 55 kW

Helical geared motors

Selection and ordering data

P_N	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Additional identification code -Z with order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement. see below)	No. of poles
55	D.169-LES250MD4P							
	41	12800	36.33	70600	1.1	870	2KJ3213- NM33- B1 -Z -	
	52	10000	28.41	69100	1.4	870	2KJ3213- NM33- A1 -Z -	
	Z.169-LES250MD4P							
	63	8310	23.45	66600	1.7	826	2KJ3113- NM33- L1 -Z -	
	71	7400	20.90	65100	1.9	826	2KJ3113- NM33- K1 -Z -	
	78	6700	18.93	63800	2.1	826	2KJ3113- NM33- J1 -Z -	
	87	6030	17.03	62400	2.3	826	2KJ3113- NM33- H1 -Z -	
	105	5010	14.15	59900	2.8	826	2KJ3113- NM33- G1 -Z -	
	118	4450	12.58	58300	3.1	826	2KJ3113- NM33- F1 -Z -	
	148	3550	10.03	55200	3.9	826	2KJ3113- NM33- E1 -Z -	
	201	2610	7.37	51100	3	826	2KJ3113- NM33- C1 -Z -	
	252	2080	5.88	48200	3.8	826	2KJ3113- NM33- B1 -Z -	
	317	1650	4.68	45300	4.7	826	2KJ3113- NM33- A1 -Z -	
	D.149-LES250MD4P							
	53	9970	28.13	35800	0.8	693	2KJ3212- NM33- A1 -Z -	
	Z.149-LES250MD4P							
	77	6850	19.33	34800	1.2	686	2KJ3112- NM33- L1 -Z -	
	86	6070	17.15	34300	1.3	686	2KJ3112- NM33- K1 -Z -	
	94	5570	15.74	33900	1.4	686	2KJ3112- NM33- J1 -Z -	
	107	4910	13.87	33300	1.6	686	2KJ3112- NM33- H1 -Z -	
	130	4030	11.38	32200	2	686	2KJ3112- NM33- G1 -Z -	
	148	3530	9.98	31400	2.3	686	2KJ3112- NM33- F1 -Z -	
	190	2760	7.80	29800	2.9	686	2KJ3112- NM33- E1 -Z -	
	204	2570	7.27	29600	1.9	686	2KJ3112- NM33- D1 -Z -	
	249	2110	5.96	28300	2.3	686	2KJ3112- NM33- C1 -Z -	
	283	1850	5.23	27400	2.6	686	2KJ3112- NM33- B1 -Z -	
	362	1450	4.09	25800	3.4	686	2KJ3112- NM33- A1 -Z -	
	Z.129-LES250MD4P							
	90	5820	16.42	10600	0.86	601	2KJ3111- NM33- K1 -Z -	
	103	5110	14.43	14500	0.97	601	2KJ3111- NM33- J1 -Z -	
	113	4630	13.07	17000	1	601	2KJ3111- NM33- H1 -Z -	
	130	4030	11.38	17200	1.2	601	2KJ3111- NM33- G1 -Z -	
	159	3300	9.33	17000	1.4	601	2KJ3111- NM33- F1 -Z -	
	174	3020	8.53	16200	1.2	601	2KJ3111- NM33- E1 -Z -	
	198	2650	7.50	16100	1.4	601	2KJ3111- NM33- D1 -Z -	
	218	2400	6.79	15900	1.5	601	2KJ3111- NM33- C1 -Z -	
	251	2090	5.91	15700	1.7	601	2KJ3111- NM33- B1 -Z -	
	306	1710	4.85	15300	1.9	601	2KJ3111- NM33- A1 -Z -	
	E.149-LES250MD4P							
	445	1180	3.33	8970	1.3	566	2KJ3007- NM33- G1 -Z -	
	501	1040	2.96	9450	1.4	566	2KJ3007- NM33- F1 -Z -	
	547	960	2.71	9620	1.5	566	2KJ3007- NM33- E1 -Z -	
	620	845	2.39	9880	1.7	566	2KJ3007- NM33- D1 -Z -	
	756	695	1.96	9980	2.1	566	2KJ3007- NM33- C1 -Z -	
	862	610	1.72	9990	2.4	566	2KJ3007- NM33- B1 -Z -	
	1106	475	1.34	9620	2.7	566	2KJ3007- NM33- A1 -Z -	
	E.129-LES250MD4P							
	1015	515	1.46	6300	1.5	525	2KJ3006- NM33- B1 -Z -	
	1195	435	1.24	6480	1.7	525	2KJ3006- NM33- A1 -Z -	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size											Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	225	
Z.19																		
34.97	41	100	1650	12.6	0.02	1364/39	✓	✓									2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ W1	
30.97	47	100	1650	13.2	0.03	2013/65	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ V1	
26.91	54	100	1650	13.3	0.04	1749/65	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ U1	
24.46	59	100	1650	13.3	0.05	318/13	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ T1	
20.82	70	100	1650	13.5	0.06	1353/65	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ S1	
18.92	77	100	1790	13.5	0.08	246/13	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ R1	
16.50	88	99	1900	13.7	0.09	33/2	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1	
14.77	98	95	1870	13.8	0.12	192/13	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ P1	
13.12	111	91	1830	13.9	0.15	341/26	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ N1	
12.11	120	88	1810	13.9	0.18	2046/169	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ M1	
10.52	138	82	1760	14.3	0.20	957/91	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ L1	
9.14	159	78	1710	13.9	0.21	594/65	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ K1	
8.25	176	74	1670	14.1	0.27	33/4	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ J1	
7.76	187	73	1650	14.1	0.32	132/17	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ H1	
6.77	214	68	1600	14.5	0.36	88/13	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ G1	
6.25	232	56	1460	20.3	0.19	1705/273	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ F1	
5.43	267	53	1420	21.0	0.22	1595/294	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ E1	
4.71	308	49	1380	20.3	0.22	33/7	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ D1	
4.26	340	47	1350	20.7	0.29	715/168	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ C1	
4.01	362	46	1330	20.7	0.32	1430/357	✓	✓	✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ B1	
3.49	415	43	1290	21.5	0.39	220/63			✓								2KJ3101 - ■ ■ ■ ■ ■ - ■ ■ ■ A1	
D.19																		
184.86	7.8	100	1650	13.1	0.02	50468/273	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1	
163.69	8.9	100	1650	13.2	0.03	74481/455	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ P1	
142.23	10	100	1650	13.2	0.04	64713/455	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ N1	
129.30	11	100	1650	13.2	0.04	11766/91	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ M1	
110.02	13	100	1650	13.2	0.06	50061/455	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ L1	
100.02	14	100	1650	13.2	0.07	9102/91	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ K1	
87.21	17	100	1650	13.3	0.08	1221/14	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ J1	
78.07	19	100	1650	13.3	0.11	7104/91	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ H1	
69.32	21	100	1650	13.3	0.13	12617/182	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ G1	
63.99	23	100	1650	13.3	0.16	75702/1183	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ F1	
55.59	26	100	1650	13.4	0.17	35409/637	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ E1	
48.30	30	100	1650	13.3	0.18	21978/455	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ D1	
43.61	33	100	1650	13.3	0.22	1221/28	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ C1	
41.04	35	100	1650	13.3	0.26	4884/119	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ B1	
35.78	41	100	1650	13.4	0.29	3256/91	✓	✓									2KJ3201 - ■ ■ ■ ■ ■ - ■ ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size												Article No. (Article No. supplement, see below)							
							63	71	80	90	100	112	132	160	180	200	225	250								
Z.29																										
41.40	35	140	3710	10.8	0.04	207/5	✓	✓										2KJ3102	-	■	■	■	■	■	■	A2
36.72	39	140	3670	10.8	0.05	918/25	✓	✓	✓	✓								2KJ3102	-	■	■	■	■	■	■	X1
31.86	46	140	3330	10.9	0.06	1593/50	✓	✓	✓	✓								2KJ3102	-	■	■	■	■	■	■	W1
28.96	50	140	3110	10.9	0.07	1593/55	✓	✓	✓	✓								2KJ3102	-	■	■	■	■	■	■	V1
24.84	58	140	2770	11.0	0.09	621/25	✓	✓	✓	✓								2KJ3102	-	■	■	■	■	■	■	U1
22.58	64	140	2570	11.0	0.11	1242/55	✓	✓	✓	✓								2KJ3102	-	■	■	■	■	■	■	T1
19.80	73	140	2300	11.2	0.13	99/5	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	S1
17.67	82	140	2070	11.3	0.15	972/55	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	R1
15.75	92	140	1850	11.4	0.18	63/4	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	Q1
14.54	100	120	2240	11.4	0.23	189/13	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	P1
12.73	114	140	1470	11.6	0.26	891/70	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	N1
11.16	130	140	1250	11.9	0.27	279/25	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	M1
10.12	143	140	1090	12.1	0.34	81/8	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	L1
9.53	152	140	1000	12.1	0.40	162/17	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	K1
8.40	173	138	855	11.7	0.45	42/5	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	J1
7.29	199	130	860	11.9	0.60	729/100	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	H1
6.92	210	75	1900	17.4	0.29	90/13	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	G1
6.06	239	100	945	17.9	0.34	297/49	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	F1
5.31	273	91	1050	18.6	0.37	186/35	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	E1
4.82	301	86	1080	18.9	0.46	135/28	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	D1
4.54	319	84	1070	18.9	0.54	540/119	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	C1
4.00	362	76	1160	18.2	0.63	4/1	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	B1
3.47	418	70	1240	18.5	0.84	243/70	✓	✓	✓	✓	✓							2KJ3102	-	■	■	■	■	■	■	A1
D.29																										
217.89	6.7	140	3710	10.7	0.02	7626/35	✓	✓										2KJ3202	-	■	■	■	■	■	■	Q1
192.93	7.5	140	3710	10.8	0.03	67527/350	✓	✓	✓	✓								2KJ3202	-	■	■	■	■	■	■	P1
167.63	8.7	140	3710	10.8	0.04	58671/350	✓	✓	✓	✓								2KJ3202	-	■	■	■	■	■	■	N1
152.39	9.5	140	3710	10.8	0.05	58671/385	✓	✓	✓	✓								2KJ3202	-	■	■	■	■	■	■	M1
129.68	11	140	3710	10.9	0.06	45387/350	✓	✓	✓	✓								2KJ3202	-	■	■	■	■	■	■	L1
117.89	12	140	3710	10.9	0.08	45387/385	✓	✓	✓	✓								2KJ3202	-	■	■	■	■	■	■	K1
102.79	14	140	3710	10.9	0.09	14391/140	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	J1
92.01	16	140	3710	10.9	0.12	35424/385	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	H1
81.71	18	140	3710	10.9	0.14	11439/140	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	G1
75.42	19	140	3710	10.9	0.17	34317/455	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	F1
65.52	22	140	3710	11.0	0.19	32103/490	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	E1
56.93	25	140	3710	10.9	0.19	9963/175	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	D1
51.40	28	140	3710	11.0	0.25	14391/280	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	C1
48.37	30	140	3710	11.0	0.29	28782/595	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	B1
42.17	34	140	3710	11.0	0.33	1476/35	✓	✓	✓	✓	✓							2KJ3202	-	■	■	■	■	■	■	A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size												Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	225	250	
Z.39																			
55.95	26	200	4370	7.7	0.06	7553/135	✓	✓								2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A2			
49.75	29	200	4370	7.7	0.07	3731/75	✓	✓	✓	✓						2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ X1			
43.68	33	200	4070	7.8	0.08	1092/25	✓	✓	✓	✓						2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ W1			
39.71	37	200	3790	7.8	0.10	2184/55	✓	✓	✓	✓						2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ V1			
33.97	43	200	3340	7.9	0.12	2548/75	✓	✓	✓	✓						2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ U1			
30.88	47	200	3080	7.9	0.14	5096/165	✓	✓	✓	✓						2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ T1			
27.30	53	200	2760	8.0	0.17	273/10	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ S1			
24.82	58	200	2520	8.0	0.22	273/11	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ R1			
21.74	67	200	2190	8.1	0.25	3913/180	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ Q1			
20.07	72	200	2000	8.1	0.31	301/15	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ P1			
17.77	82	200	1720	8.3	0.36	533/30	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ N1			
14.79	98	193	1500	8.4	0.47	1183/80	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ M1			
13.92	104	189	1470	8.4	0.55	1183/85	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ L1			
12.47	116	180	1470	8.6	0.60	3367/270	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ K1			
10.62	137	169	1440	8.8	0.78	637/60	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ J1			
9.10	159	158	1430	9.0	1.02	91/10			✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ H1			
7.84	185	148	1420	9.3	1.30	2821/360			✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ G1			
6.46	224	146	225	13.4	0.57	2379/368	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ F1			
6.08	238	147	100	13.4	0.66	2379/391	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ E1			
5.45	266	140	150	13.8	0.74	2257/414	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ D1			
4.64	312	130	490	14.3	0.97	427/92	✓	✓	✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ C1			
3.98	364	121	820	14.8	1.28	183/46			✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ B1			
3.43	423	112	1070	15.4	1.65	1891/552			✓	✓	✓					2KJ3103 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A1			
D.39																			
235.29	6.2	200	4370	8.1	0.03	179998/765	✓	✓								2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ R1			
208.69	6.9	200	4370	8.2	0.05	15652/75	✓	✓	✓	✓						2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ Q1			
181.07	8	200	4370	8.2	0.05	230867/1275	✓	✓	✓	✓						2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ P1			
164.61	8.8	200	4370	8.2	0.07	461734/2805	✓	✓	✓	✓						2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ N1			
141.17	10	200	4370	8.2	0.08	179998/1275	✓	✓	✓	✓						2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ M1			
128.34	11	200	4370	8.2	0.10	359996/2805	✓	✓	✓	✓						2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ L1			
112.53	13	200	4370	8.2	0.12	86086/765	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ K1			
100.44	14	200	4370	8.3	0.15	93912/935	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ J1			
89.51	16	200	4370	8.3	0.17	27391/306	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ H1			
82.63	18	200	4370	8.3	0.21	4214/51	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ G1			
72.34	20	200	4370	8.3	0.25	6149/85	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ F1			
63.43	23	200	4370	8.4	0.23	242606/3825	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ E1			
57.54	25	200	4370	8.4	0.33	3913/68	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ D1			
54.16	27	200	4370	8.4	0.39	15652/289	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ C1			
47.74	30	200	4350	8.3	0.43	109564/2295	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ B1			
41.43	35	200	3920	8.4	0.58	35217/850	✓	✓	✓	✓	✓					2KJ3203 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A1			

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size											Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	225	
Z.49																		
52.14	28	320	5900	7.0	0.17	4171/80	✓	✓	✓	✓						2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B2		
47.40	31	320	5780	7.0	0.21	4171/88	✓	✓	✓	✓						2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A2		
40.31	36	320	5650	7.1	0.25	645/16	✓	✓	✓	✓						2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ X1		
36.65	40	320	5220	7.1	0.31	3225/88	✓	✓	✓	✓						2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ W1		
32.70	44	320	5520	7.1	0.36	3139/96	✓	✓	✓	✓	✓					2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ V1		
29.32	49	320	5280	7.2	0.43	645/22	✓	✓	✓	✓	✓					2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ U1		
26.43	55	320	5060	7.2	0.50	2537/96	✓	✓	✓	✓	✓					2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ T1		
24.39	59	320	4890	7.2	0.59	2537/104	✓	✓	✓	✓	✓					2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1		
22.27	65	320	4710	7.2	0.71	1247/56	✓	✓	✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1		
18.48	78	320	4350	7.4	0.90	2365/128	✓	✓	✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1		
17.39	83	320	4230	7.4	1.03	2365/136	✓	✓	✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1		
16.42	88	320	4130	7.4	1.17	2365/144	✓	✓	✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1		
13.98	104	320	3850	7.5	1.44	559/40	✓	✓	✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1		
11.97	121	320	3590	7.5	1.76	2107/176			✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1		
10.53	138	320	3390	7.5	2.10	2021/192			✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1		
8.88	163	320	3130	7.8	2.70	817/92			✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1		
7.74	187	320	3100	8.0	3.60	387/50			✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1		
7.64	190	295	3000	11.8	1.18	649/85	✓	✓	✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1		
7.21	201	290	2980	11.8	1.34	649/90	✓	✓	✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1		
6.14	236	265	2940	12.2	1.67	767/125	✓	✓	✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1		
5.26	276	245	2880	12.2	2.10	2891/550			✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1		
4.62	314	225	2820	12.2	2.60	2773/600			✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1		
3.90	372	205	2740	12.2	3.30	2242/575			✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1		
3.40	426	191	2210	12.2	4.40	2124/625			✓	✓	✓	✓				2KJ3104 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1		
D.49																		
280.89	5.2	320	5780	7.3	0.06	60673/216	✓	✓								2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1		
249.76	5.8	320	5780	7.3	0.07	29971/120	✓	✓	✓	✓						2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1		
219.30	6.6	320	5780	7.4	0.08	2193/10	✓	✓	✓	✓						2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1		
199.36	7.3	320	5780	7.4	0.10	2193/11	✓	✓	✓	✓						2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1		
170.57	8.5	320	5780	7.4	0.12	5117/30	✓	✓	✓	✓						2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1		
155.06	9.4	320	5780	7.4	0.14	5117/33	✓	✓	✓	✓						2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1		
137.06	11	320	5780	7.4	0.17	2193/16	✓	✓	✓	✓	✓					2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1		
124.60	12	320	5780	7.4	0.22	10965/88	✓	✓	✓	✓	✓					2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1		
109.14	13	320	5780	7.4	0.25	31433/288	✓	✓	✓	✓	✓					2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1		
100.75	14	320	5780	7.4	0.31	31433/312	✓	✓	✓	✓	✓					2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1		
89.20	16	320	5780	7.4	0.37	29971/336	✓	✓	✓	✓	✓	✓				2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1		
74.24	20	320	5780	7.5	0.50	9503/128	✓	✓	✓	✓	✓	✓				2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1		
69.88	21	320	5780	7.5	0.58	559/8	✓	✓	✓	✓	✓	✓				2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1		
62.61	23	320	5780	7.5	0.65	27047/432	✓	✓	✓	✓	✓	✓				2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1		
53.30	27	320	5780	7.5	0.85	5117/96	✓	✓	✓	✓	✓	✓				2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1		
45.69	32	320	5780	7.6	1.12	731/16			✓	✓	✓	✓				2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1		
39.34	37	320	5540	7.6	1.43	22661/576			✓	✓	✓	✓				2KJ3204 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1		

Article No. supplement

Shaft design	1 or 9	see page 10/48
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Gearbox mounting type	A, B, F or H	see page 10/42

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Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size										Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	
Z.59																	
56.99	25	450	7660	6.5	0.18	4559/80	✓	✓	✓	✓						2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A2	
51.81	28	450	7660	6.5	0.21	4559/88	✓	✓	✓	✓						2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ X1	
44.06	33	450	7310	6.6	0.26	705/16	✓	✓	✓	✓						2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ W1	
40.06	36	450	7020	6.6	0.32	3525/88	✓	✓	✓	✓						2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ V1	
35.74	41	450	6690	6.6	0.37	3431/96	✓	✓	✓	✓	✓					2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ U1	
32.05	45	450	6180	6.7	0.44	705/22	✓	✓	✓	✓	✓	✓				2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ T1	
28.89	50	450	5690	6.7	0.52	2773/96	✓	✓	✓	✓	✓	✓				2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ S1	
26.66	54	450	5330	6.7	0.62	2773/104	✓	✓	✓	✓	✓	✓				2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ R1	
24.34	60	450	4930	6.7	0.73	1363/56	✓	✓	✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ Q1	
20.20	72	450	5230	6.9	0.94	2585/128	✓	✓	✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ P1	
19.01	76	450	5090	6.9	1.08	2585/136	✓	✓	✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ N1	
17.95	81	450	4960	6.9	1.23	2585/144	✓	✓	✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ M1	
15.27	95	450	4600	7.0	1.51	611/40	✓	✓	✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ L1	
13.09	111	450	4280	7.2	1.85	2303/176			✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ K1	
11.51	126	450	4030	7.3	2.30	2209/192			✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ J1	
9.71	149	450	3710	7.5	2.90	893/92			✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ H1	
8.46	171	450	3600	8.0	3.90	423/50			✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ G1	
8.07	180	410	3500	10.6	1.45	121/15	✓	✓	✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ F1	
6.86	211	410	3480	11.0	1.81	858/125	✓	✓	✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ E1	
5.88	247	410	3440	11.3	2.30	147/25			✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ D1	
5.17	280	410	2210	11.6	2.80	517/100			✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ C1	
4.36	333	405	2650	12.0	3.60	2508/575			✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ B1	
3.80	382	405	2920	13.4	4.90	2376/625			✓	✓	✓	✓	✓			2KJ3105 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A1	
D.59																	
307.02	4.7	450	7660	6.8	0.06	66317/216	✓	✓								2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ S1	
272.99	5.3	450	7660	6.8	0.07	32759/120	✓	✓	✓	✓						2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ R1	
239.70	6	450	7660	6.8	0.08	2397/10	✓	✓	✓	✓						2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ Q1	
217.91	6.7	450	7660	6.8	0.10	2397/11	✓	✓	✓	✓						2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ P1	
186.43	7.8	450	7660	6.9	0.12	5593/30	✓	✓	✓	✓						2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ N1	
169.48	8.6	450	7660	6.9	0.14	5593/33	✓	✓	✓	✓						2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ M1	
149.81	9.7	450	7660	6.9	0.17	2397/16	✓	✓	✓	✓	✓					2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ L1	
136.19	11	450	7660	6.9	0.22	11985/88	✓	✓	✓	✓	✓					2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ K1	
119.30	12	450	7660	6.9	0.26	34357/288	✓	✓	✓	✓	✓					2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ J1	
110.12	13	450	7660	6.9	0.31	34357/312	✓	✓	✓	✓	✓	✓				2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ H1	
97.50	15	450	7660	6.9	0.37	32759/336	✓	✓	✓	✓	✓	✓	✓			2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ G1	
81.15	18	450	7660	7.0	0.50	10387/128	✓	✓	✓	✓	✓	✓	✓			2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ F1	
76.38	19	450	7660	7.0	0.59	611/8	✓	✓	✓	✓	✓	✓	✓			2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ E1	
68.43	21	450	7660	7.0	0.65	29563/432	✓	✓	✓	✓	✓	✓	✓			2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ D1	
58.26	25	450	7660	7.0	0.85	5593/96	✓	✓	✓	✓	✓	✓	✓			2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ C1	
49.94	29	450	7660	7.1	1.12	799/16			✓	✓	✓	✓	✓			2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ B1	
43.00	34	450	7230	7.1	1.44	24769/576			✓	✓	✓	✓	✓			2KJ3205 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size												Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	225	250	
Z.69																			
60.97	24	600	11000	6.2	0.18	2134/35	✓	✓	✓	✓						2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A2			
55.43	26	600	11000	6.2	0.22	388/7	✓	✓	✓	✓						2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ X1			
47.14	31	600	11000	6.3	0.28	330/7	✓	✓	✓	✓						2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ W1			
42.86	34	600	11000	6.3	0.34	300/7	✓	✓	✓	✓						2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ V1			
38.24	38	600	11000	6.4	0.39	803/21	✓	✓	✓	✓	✓					2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ U1			
34.29	42	600	11000	6.4	0.47	240/7	✓	✓	✓	✓	✓	✓				2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ T1			
30.90	47	600	10400	6.4	0.56	649/21	✓	✓	✓	✓	✓	✓				2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ S1			
28.53	51	600	9860	6.4	0.66	2596/91	✓	✓	✓	✓	✓	✓				2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ R1			
26.04	56	600	9200	6.5	0.79	1276/49	✓	✓	✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ Q1			
21.61	67	600	7910	6.6	1.01	605/28	✓	✓	✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ P1			
20.34	71	600	7510	6.6	1.16	2420/119	✓	✓	✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ N1			
19.21	75	600	7140	6.6	1.32	1210/63	✓	✓	✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ M1			
16.34	89	600	9850	6.7	1.64	572/35	✓	✓	✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ L1			
14.00	104	600	9260	6.8	2.00	14/1			✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ K1			
12.31	118	600	8790	7.0	2.50	517/42			✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ J1			
10.39	140	600	8200	7.1	3.20	1672/161			✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ H1			
9.05	160	591	7920	7.7	4.30	1584/175			✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ G1			
8.50	171	446	8000	10.0	1.67	1760/207	✓	✓	✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ F1			
7.23	201	447	7540	10.3	2.10	832/115	✓	✓	✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ E1			
6.20	234	445	7290	10.6	2.70	1568/253			✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ D1			
5.45	266	429	7090	10.9	3.40	376/69			✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ C1			
4.60	315	446	6810	11.3	4.40	2432/529			✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ B1			
4.01	362	445	5440	11.6	5.80	2304/575			✓	✓	✓	✓	✓			2KJ3106 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A1			
D.69																			
328.49	4.4	600	11000	6.5	0.06	62084/189	✓	✓								2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ S1			
292.08	5.0	600	11000	6.5	0.07	30668/105	✓	✓	✓	✓						2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ R1			
256.46	5.7	600	11000	6.6	0.08	8976/35	✓	✓	✓	✓						2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ Q1			
233.14	6.2	600	11000	6.6	0.10	1632/7	✓	✓	✓	✓						2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ P1			
199.47	7.3	600	11000	6.6	0.12	2992/15	✓	✓	✓	✓						2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ N1			
181.33	8	600	11000	6.6	0.14	544/3	✓	✓	✓	✓						2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ M1			
160.29	9	600	11000	6.6	0.17	1122/7	✓	✓	✓	✓	✓					2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ L1			
145.71	10	600	11000	6.6	0.22	1020/7	✓	✓	✓	✓	✓					2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ K1			
127.63	11	600	11000	6.6	0.26	8041/63	✓	✓	✓	✓	✓					2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ J1			
117.82	12	600	11000	6.6	0.31	32164/273	✓	✓	✓	✓	✓	✓				2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ H1			
104.31	14	600	11000	6.6	0.37	15334/147	✓	✓	✓	✓	✓	✓	✓			2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ G1			
86.82	17	600	11000	6.7	0.50	2431/28	✓	✓	✓	✓	✓	✓	✓			2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ F1			
81.71	18	600	11000	6.7	0.59	572/7	✓	✓	✓	✓	✓	✓	✓			2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ E1			
73.22	20	600	11000	6.7	0.66	13838/189	✓	✓	✓	✓	✓	✓	✓			2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ D1			
62.33	23	600	11000	6.7	0.86	187/3	✓	✓	✓	✓	✓	✓	✓			2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ C1			
53.43	27	600	11000	6.7	1.14	374/7			✓	✓	✓	✓	✓			2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ B1			
46.01	32	600	11000	6.7	1.46	5797/126			✓	✓	✓	✓	✓			2KJ3206 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ ■ A1			

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

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Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size										Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	
Z.79																	
54.47	27	840	13400	6.1	0.43	3813/70	✓	✓	✓							2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A2	
49.52	29	840	12600	6.1	0.53	3813/77	✓	✓	✓							2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ X1	
44.42	33	840	11700	6.2	0.73	533/12	✓	✓	✓	✓	✓					2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ W1	
39.94	36	840	10900	6.2	0.83	3075/77	✓	✓	✓	✓	✓					2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ V1	
36.12	40	840	10100	6.2	0.92	1517/42	✓	✓	✓	✓	✓					2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ U1	
33.34	43	840	13400	6.2	1.08	3034/91	✓	✓	✓	✓	✓					2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ T1	
30.54	47	840	13400	6.3	1.41	2993/98	✓	✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ S1	
25.62	57	840	13300	6.0	1.52	205/8	✓	✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ R1	
24.12	60	840	13000	6.0	1.73	410/17	✓	✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ Q1	
22.13	66	840	12600	6.1	1.90	1394/63	✓	✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ P1	
19.33	75	840	11900	6.1	2.7	1353/70	✓	✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ N1	
17.31	84	840	11400	6.2	3.3	2665/154		✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ M1	
15.13	96	840	10800	6.3	3.9	1271/84		✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ L1	
12.99	112	840	10100	6.3	4.3	2091/161		✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ K1	
11.48	126	840	9640	6.7	5.5	287/25		✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ J1	
9.76	149	815	9080	6.9	7.0	205/21			✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1	
8.37	173	790	8580	7.1	9.3	410/49				✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1	
8.19	177	715	8460	9.2	4.0	3965/484		✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1	
7.16	203	730	8030	9.4	4.8	1891/264		✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1	
6.15	236	715	7850	9.6	5.4	3111/506		✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1	
5.43	267	685	7690	10.5	6.9	2989/550		✓	✓	✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1	
4.62	314	775	7460	10.9	9.1	305/66				✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1	
3.96	366	775	3730	11.3	12.0	305/77				✓	✓	✓	✓			2KJ3107 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1	
D.79																	
330.23	4.4	840	13400	6.1	0.17	369861/1120	✓	✓	✓							2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ S1	
300.21	4.8	840	13400	6.1	0.20	369861/1232	✓	✓	✓							2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ R1	
255.33	5.7	840	13400	6.2	0.25	57195/224	✓	✓	✓							2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ Q1	
232.12	6.2	840	13400	6.2	0.30	285975/1232	✓	✓	✓							2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ P1	
207.10	7	840	13400	6.2	0.35	92783/448	✓	✓	✓	✓	✓					2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ N1	
185.70	7.8	840	13400	6.2	0.42	57195/308	✓	✓	✓	✓	✓					2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ M1	
167.39	8.7	840	13400	6.2	0.49	74989/448	✓	✓	✓	✓	✓					2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ L1	
154.51	9.4	840	13400	6.2	0.58	224967/1456	✓	✓	✓	✓	✓					2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ K1	
141.04	10	840	13400	6.2	0.69	110577/784	✓	✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ J1	
117.03	12	840	13400	6.2	0.87	209715/1792	✓	✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1	
110.14	13	840	13400	6.2	1.00	209715/1904	✓	✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1	
104.03	14	840	13400	6.2	1.14	69905/672	✓	✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1	
88.52	16	840	13400	6.2	1.39	49569/560	✓	✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1	
75.83	19	840	13400	6.2	1.69	26691/352	✓	✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1	
66.67	22	840	13400	6.2	2.10	59737/896	✓	✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1	
56.25	26	840	13400	6.2	2.60	72447/1288	✓	✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1	
49.02	30	840	12600	6.2	3.50	34317/700		✓	✓	✓	✓	✓	✓			2KJ3207 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1	

Article No. supplement

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Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size										Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	
Z.89																	
57.36	25	1680	18500	5.4	1.34	2581/45		✓	✓	✓	✓					2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A2	
51.78	28	1680	18500	5.4	1.46	2848/55		✓	✓	✓	✓					2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ X1	
46.97	31	1680	18500	5.4	1.71	1691/36		✓	✓	✓	✓					2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ W1	
43.36	33	1680	18500	5.4	2.0	1691/39		✓	✓	✓	✓					2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ V1	
39.41	37	1680	18500	5.5	2.3	2759/70		✓	✓	✓	✓	✓	✓			2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ U1	
33.38	43	1680	18500	5.5	2.8	267/8		✓	✓	✓	✓	✓	✓			2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ T1	
31.41	46	1680	18500	5.5	2.8	534/17		✓	✓	✓	✓	✓	✓			2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ S1	
29.01	50	1680	18500	5.6	4.3	3916/135		✓	✓	✓	✓	✓	✓			2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ R1	
25.81	56	1680	18500	5.6	5.3	2581/100		✓	✓	✓	✓	✓	✓			2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ Q1	
22.92	63	1680	17400	5.6	6.4	1513/66		✓	✓	✓	✓	✓	✓			2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ P1	
20.52	71	1680	16000	5.7	6.4	7387/360		✓	✓	✓	✓	✓	✓			2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ N1	
17.54	83	1680	14200	5.7	7.5	6052/345		✓	✓	✓	✓	✓	✓			2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ M1	
15.66	93	1680	12900	6.0	9.5	1958/125		✓	✓	✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ L1	
13.84	105	1680	11500	6.1	11	623/45				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ K1	
12.15	119	1630	10700	5.9	15	3827/315				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ J1	
10.58	137	1590	10700	6.0	19	3649/345				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1	
9.04	160	1560	11900	6.1	24	2848/315				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1	
7.74	187	1530	12700	6.3	30	178/23				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1	
6.89	210	1050	10100	8.6	12	62/9				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1	
6.05	240	1060	10900	8.8	17	2666/441				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1	
5.26	276	1060	11600	9.0	21	2542/483				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1	
4.50	322	1060	11500	9.3	28	1984/441				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1	
3.85	377	1060	11100	9.7	35	620/161				✓	✓	✓	✓	✓		2KJ3108 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1	
D.89																	
311.60	4.7	1680	18500	5.7	0.41	132432/425		✓	✓							2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ S1	
283.28	5.1	1680	18500	5.7	0.50	264864/935		✓	✓							2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ R1	
254.09	5.7	1680	18500	5.7	0.70	64792/255		✓	✓	✓	✓					2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ Q1	
228.45	6.3	1680	18500	5.7	0.79	42720/187		✓	✓	✓	✓					2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ P1	
206.62	7	1680	18500	5.7	0.87	52688/255		✓	✓	✓	✓					2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ N1	
190.73	7.6	1680	18500	5.7	1.03	210752/1105		✓	✓	✓	✓					2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ M1	
174.71	8.3	1680	18500	5.7	1.35	103952/595		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ L1	
146.59	9.9	1680	18500	5.7	1.43	2492/17		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ K1	
137.97	11	1680	18500	5.7	1.63	39872/289		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ J1	
126.58	11	1680	18500	5.7	1.78	5696/45		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1	
110.57	13	1680	18500	5.7	2.5	46992/425		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1	
98.99	15	1680	18500	5.7	3.1	18512/187		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1	
86.56	17	1680	18500	5.7	3.7	22072/255		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1	
74.30	20	1680	18500	5.7	4.0	8544/115		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1	
65.67	22	1680	18500	5.7	5.0	139552/2125		✓	✓	✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1	
55.84	26	1680	18500	5.7	6.4	2848/51				✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1	
47.87	30	1680	18500	5.7	8.5	5696/119				✓	✓	✓	✓			2KJ3208 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size										Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	
Z.109																	
51.17	28	3100	20200	5.4	4.7	5015/98		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ X1
43.64	33	3100	20200	5.4	6.0	9775/224		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ W1
41.07	35	3100	20200	5.4	6.8	575/14		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ V1
38.12	38	3100	20200	5.4	7.4	9605/252		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ U1
33.70	43	3100	20200	5.4	9.0	1887/56		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ T1
30.08	48	3100	20000	5.5	11	9265/308		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ S1
27.07	54	3040	19300	5.5	13	9095/336		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ R1
23.49	62	2920	18400	5.5	15	7565/322		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ Q1
21.13	69	2830	17900	5.7	18	1479/70		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ P1
18.47	79	2720	17100	5.8	21	6205/336		✓	✓	✓	✓	✓					2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ N1
16.48	88	2630	16600	5.8	25	1615/98		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ M1
14.52	100	2570	15900	5.9	30	4675/322		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ L1
12.72	114	2510	15100	6.0	37	1870/147		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ K1
11.09	131	2460	14400	6.1	44	255/23		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ J1
10.12	143	2430	13900	6.1	51	425/42		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ H1
8.71	166	2380	13200	6.3	64	2805/322				✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ G1
8.41	172	2290	12800	8.6	29	589/70		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ F1
7.41	196	2280	12300	8.7	34	341/46		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ E1
6.50	223	2280	12300	8.8	42	682/105		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ D1
5.66	256	2290	12200	9.0	51	651/115		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ C1
5.17	280	2280	12200	9.1	60	31/6		✓	✓	✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ B1
4.45	326	2150	12000	9.4	75	1023/230				✓	✓	✓	✓				2KJ3110 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ A1
D.109																	
348.88	4.2	3100	20200	5.5	1.27	263755/756		✓	✓	✓							2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ T1
314.98	4.6	3100	20200	5.5	1.36	72760/231		✓	✓	✓							2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ S1
285.72	5.1	3100	20200	5.5	1.60	864025/3024		✓	✓	✓							2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ R1
263.74	5.5	3100	20200	5.5	1.88	864025/3276		✓	✓	✓							2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ Q1
239.75	6	3100	20200	5.5	2.1	281945/1176		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ P1
203.01	7.1	3100	20200	5.5	2.6	45475/224		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ N1
191.07	7.6	3100	20200	5.5	2.6	2675/14		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ M1
176.45	8.2	3100	20200	5.6	4.0	100045/567		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ L1
157.00	9.2	3100	20200	5.6	5.0	52751/336		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ K1
139.44	10	3100	20200	5.6	5.9	773075/5544		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ J1
124.82	12	3100	20200	5.6	5.8	754885/6048		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ H1
106.70	14	3100	20200	5.6	6.7	154615/1449		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ G1
95.28	15	3100	20200	5.6	8.5	20009/210		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ F1
84.21	17	3100	20200	5.6	9.6	9095/108		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ E1
73.90	20	3100	20200	5.6	13	391085/5292		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ D1
64.34	23	3100	20200	5.6	16	372895/5796		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ C1
55.00	26	3090	20200	5.6	20	72760/1323		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ B1
47.08	31	2930	20200	5.7	25	45475/966		✓	✓	✓	✓	✓					2KJ3210 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size										Article No. (Article No. supplement, see below)								
							63	71	80	90	100	112	132	160	180	200		225	250						
Z.129																									
62.48	23	5000	27000	6.2	7.5	11371/182			✓	✓	✓	✓	✓				2KJ3111	-	■	■	■	■	■	■	X1
53.47	27	5000	27000	6.2	9.5	5561/104			✓	✓	✓	✓	✓				2KJ3111	-	■	■	■	■	■	■	W1
50.33	29	5000	27000	6.2	11	11122/221			✓	✓	✓	✓	✓				2KJ3111	-	■	■	■	■	■	■	V1
47.18	31	5000	27000	6.2	12	11039/234			✓	✓	✓	✓	✓				2KJ3111	-	■	■	■	■	■	■	U1
41.82	35	5000	27000	6.3	14	10873/260			✓	✓	✓	✓	✓				2KJ3111	-	■	■	■	■	■	■	T1
37.15	39	5000	26000	6.3	17	5312/143			✓	✓	✓	✓	✓				2KJ3111	-	■	■	■	■	■	■	S1
33.52	43	5000	24900	6.3	20	1743/52			✓	✓	✓	✓	✓				2KJ3111	-	■	■	■	■	■	■	R1
29.70	49	5000	23700	6.3	25	8881/299			✓	✓	✓	✓	✓				2KJ3111	-	■	■	■	■	■	■	Q1
26.30	55	5000	22600	6.4	28	8549/325			✓	✓	✓	✓	✓	✓			2KJ3111	-	■	■	■	■	■	■	P1
23.41	62	5000	21500	6.4	33	913/39			✓	✓	✓	✓	✓	✓	✓		2KJ3111	-	■	■	■	■	■	■	N1
20.98	69	5000	20500	6.5	40	1909/91			✓	✓	✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	M1
18.60	78	5000	19500	6.5	47	5561/299			✓	✓	✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	L1
16.42	88	5000	18100	6.6	57	1494/91			✓	✓	✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	K1
14.43	100	4940	16200	6.6	69	332/23			✓	✓	✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	J1
13.07	111	4850	16600	6.6	78	3569/273			✓	✓	✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	H1
11.38	127	4760	17200	6.6	95	3403/299					✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	G1
9.33	155	4660	17000	6.7	126	1577/169					✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	F1
8.53	170	3640	16200	7.4	66	162/19			✓	✓	✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	E1
7.50	193	3630	16100	8.3	80	3276/437			✓	✓	✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	D1
6.79	214	3630	15900	8.3	91	129/19			✓	✓	✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	C1
5.91	245	3610	15700	8.5	112	2583/437					✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	B1
4.85	299	3270	15300	8.8	151	63/13					✓	✓	✓	✓	✓	✓	2KJ3111	-	■	■	■	■	■	■	A1
D.129																									
373.00	3.9	5000	27000	6.4	3.3	523481/1404			✓	✓	✓						2KJ3211	-	■	■	■	■	■	■	S1
344.17	4.2	5000	27000	6.4	3.9	523481/1521			✓	✓	✓						2KJ3211	-	■	■	■	■	■	■	R1
316.90	4.6	5000	27000	6.4	4.5	259541/819			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	Q1
270.24	5.4	5000	27000	6.4	5.6	505885/1872			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	P1
254.34	5.7	5000	27000	6.4	6.4	505885/1989			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	N1
236.03	6.1	5000	27000	6.4	6.9	497087/2106			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	M1
208.67	6.9	5000	27000	6.4	8.4	162763/780			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	L1
186.28	7.8	5000	27000	6.4	9.9	479491/2574			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	K1
167.63	8.7	5000	27000	6.4	12	470693/2808			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	J1
145.49	10	5000	27000	6.4	14	391511/2691			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	H1
130.84	11	5000	27000	6.4	16	127571/975			✓	✓	✓	✓	✓				2KJ3211	-	■	■	■	■	■	■	G1
114.36	13	5000	27000	6.5	19	321127/2808					✓	✓	✓	✓			2KJ3211	-	■	■	■	■	■	■	F1
102.05	14	5000	27000	6.5	23	83581/819					✓	✓	✓	✓			2KJ3211	-	■	■	■	■	■	■	E1
89.91	16	5000	27000	6.5	27	241945/2691					✓	✓	✓	✓			2KJ3211	-	■	■	■	■	■	■	D1
78.78	18	5000	27000	6.5	31	193556/2457					✓	✓	✓	✓			2KJ3211	-	■	■	■	■	■	■	C1
68.66	21	5000	27000	6.5	37	61586/897					✓	✓	✓	✓			2KJ3211	-	■	■	■	■	■	■	B1
62.66	23	5000	27000	6.5	44	21995/351					✓	✓	✓	✓			2KJ3211	-	■	■	■	■	■	■	A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
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Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size										Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	
Z.149																	
56.64	26	8000	50300	5.2	19	4814/85				✓	✓	✓	✓			2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ W1	
52.84	27	7710	49500	5.2	21	2378/45				✓	✓	✓	✓			2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ V1	
46.98	31	7570	47600	5.2	25	2349/50				✓	✓	✓	✓			2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ U1	
42.18	34	7660	45600	5.2	30	464/11				✓	✓	✓	✓			2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ T1	
38.18	38	7550	44100	5.2	35	2291/60				✓	✓	✓	✓			2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1	
33.54	43	8000	41400	5.2	43	3857/115				✓	✓	✓	✓			2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1	
30.39	48	8000	39900	5.2	50	3799/125				✓	✓	✓	✓	✓		2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1	
27.07	54	8000	38100	5.3	59	406/15				✓	✓	✓	✓	✓		2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1	
24.30	60	8000	36600	5.3	70	2552/105				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1	
21.69	67	8000	35000	5.3	81	2494/115				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1	
19.33	75	8000	33400	5.4	96	58/3				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1	
17.15	85	8000	31900	5.4	113	1972/115				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1	
15.74	92	8000	30800	5.4	127	551/35				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1	
13.87	105	8000	29200	5.5	150	319/23				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1	
11.38	127	8000	28700	5.5	203	1479/130				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1	
9.98	145	8000	28300	5.6	227	1247/125				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1	
7.80	186	8000	27500	5.9	360	39/5				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1	
7.27	199	4880	27500	7.5	173	836/115				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
5.96	243	4870	26600	7.7	237	1938/325				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
5.23	277	4870	26000	7.7	273	3268/625				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
4.09	355	4870	24700	7.7	432	2964/725				✓	✓	✓	✓	✓	✓	2KJ3112 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	
D.149																	
328.38	4.4	8000	51200	5.5	7.1	321813/980				✓	✓	✓	✓			2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ W1	
281.04	5.2	8000	51200	5.5	9	157383/560				✓	✓	✓	✓			2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ V1	
264.51	5.5	8000	51200	5.5	10	157383/595				✓	✓	✓	✓			2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ U1	
247.95	5.8	8000	51200	5.5	11	4959/20				✓	✓	✓	✓			2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ T1	
219.80	6.6	8000	51200	5.5	14	307719/1400				✓	✓	✓	✓			2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1	
195.24	7.4	8000	51200	5.5	16	75168/385				✓	✓	✓	✓			2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1	
176.18	8.2	8000	51200	5.5	19	7047/40				✓	✓	✓	✓			2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1	
156.11	9.3	8000	51200	5.5	23	251343/1610				✓	✓	✓	✓			2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1	
138.26	10	8000	51200	5.5	26	241947/1750				✓	✓	✓	✓	✓		2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1	
123.04	12	8000	51200	5.5	31	8613/70				✓	✓	✓	✓	✓		2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1	
110.26	13	8000	51200	5.5	37	54027/490				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1	
97.75	15	8000	51200	5.5	43	157383/1610				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1	
86.29	17	8000	51200	5.5	52	21141/245				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1	
75.87	19	8000	51200	5.5	63	61074/805				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1	
68.71	21	8000	51200	5.6	70	33669/490				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1	
59.82	24	8000	51200	5.6	85	96309/1610				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1	
49.05	30	8000	47700	5.6	110	44631/910				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1	
43.51	33	8000	45700	5.8	72	55042/1265				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
39.41	37	8000	44000	5.8	82	91031/2310				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
34.31	42	8000	41800	5.8	101	86797/2530				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
28.13	52	8000	38700	5.9	133	40223/1430				✓	✓	✓	✓	✓	✓	2KJ3212 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size										Article No. (Article No. supplement, see below)	
							63	71	80	90	100	112	132	160	180	200		225
Z.169																		
36.55	40	12100	70800	4.7	79	13706/375					✓	✓	✓	✓				2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ Q1
32.88	44	14000	68200	4.7	94	11837/360					✓	✓	✓	✓	✓			2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ P1
29.38	49	14000	65300	4.8	109	9256/315					✓	✓	✓	✓	✓	✓		2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ N1
26.57	55	14000	62900	4.8	131	9167/345					✓	✓	✓	✓	✓	✓		2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ M1
23.45	62	14000	60200	4.8	154	7387/315					✓	✓	✓	✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ L1
20.90	69	14000	59400	4.8	183	2403/115					✓	✓	✓	✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ K1
18.93	77	14000	58600	4.8	203	5963/315					✓	✓	✓	✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ J1
17.03	85	14000	57800	4.8	245	1958/115						✓	✓	✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ H1
14.15	102	14000	56100	4.8	308	2759/195						✓	✓	✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ G1
12.58	115	13900	54900	4.8	377	4717/375						✓	✓	✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ F1
10.03	145	13900	52600	5.1	521	4361/435						✓	✓	✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ E1
7.98	182	13800	50100	5.3	689	1157/145								✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ D1
7.37	197	7960	49100	7.0	409	848/115								✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ C1
5.88	247	7900	46700	7.1	571	3920/667								✓	✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ B1
4.68	310	7820	44200	7.3	768	3120/667									✓	✓	✓	2KJ3113 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ A1
D.169																		
327.18	4.4	14000	70100	5.0	18	472768 / 1445						✓	✓	✓				2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ V1
305.28	4.7	14000	70100	5.0	19	233536 / 765						✓	✓	✓				2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ U1
271.40	5.3	14000	70100	5.0	23	115344 / 425						✓	✓	✓				2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ T1
243.68	6.0	14000	70100	5.0	28	45568 / 187						✓	✓	✓				2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ S1
220.58	6.6	14000	70100	5.0	33	56248 / 255						✓	✓	✓				2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ R1
193.75	7.5	14000	70100	5.0	40	378784 / 1955						✓	✓	✓				2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ Q1
175.57	8.3	14000	70100	5.0	46	373088 / 2125						✓	✓	✓	✓			2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ P1
156.36	9.3	14000	70100	5.0	54	39872 / 255						✓	✓	✓	✓	✓		2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ N1
140.41	10	14000	70100	5.0	64	250624 / 1785						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ M1
125.28	12	14000	70100	5.0	74	244928 / 1955						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ L1
111.69	13	14000	70100	5.0	85	5696 / 51						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ K1
99.06	15	14000	70100	5.0	101	11392 / 115						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ J1
90.94	16	14000	70100	5.0	112	54112 / 595						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ H1
80.12	18	14000	70100	5.0	132	31328 / 391						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ G1
65.72	22	14000	70100	5.1	176	4272 / 65						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ F1
57.63	25	14000	70100	5.1	193	122464 / 2125						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ E1
45.06	32	14000	70100	5.1	301	111072 / 2465						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ D1
41.43	35	14000	70100	5.2	200	134657 / 3250						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ C1
36.33	40	14000	70500	5.2	225	340603 / 9375						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ B1
28.41	51	14000	69200	5.3	353	102973 / 3625						✓	✓	✓	✓	✓	✓	2KJ3213 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size										Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	
Z.189																	
34.25	42	19000	101700	4.5	140	3596/105					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1
30.73	47	19000	97900	4.5	166	3534/115					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1
27.46	53	19000	94100	4.6	199	961/35					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1
24.53	59	19000	90400	4.6	236	2821/115					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1
22.44	65	19000	87500	4.6	262	2356/105					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1
19.95	73	19000	83900	4.6	314	2294/115					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1
16.93	86	19000	79000	4.6	400	2201/130					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1
14.63	99	19000	74900	4.7	481	1829/125					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1
11.97	121	19000	72500	4.8	666	1736/145					✓	✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1
9.83	148	18800	70100	4.8	875	1426/145						✓	✓	✓	✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1
7.65	190	16000	66800	4.8	1283	1147/150									✓	✓	2KJ3114 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1
D.189																	
313.63	4.6	19000	107000	4.7	36	533169/1700					✓	✓	✓				2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ T1
280.59	5.2	19000	107000	4.7	43	262353/935					✓	✓	✓				2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1
253.06	5.7	19000	107000	4.7	49	172081/680					✓	✓	✓				2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1
223.66	6.5	19000	107000	4.7	61	87451/391					✓	✓	✓				2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1
204.44	7.1	19000	107000	4.7	71	434434/2125					✓	✓	✓	✓			2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1
183.92	7.9	19000	107000	4.7	84	375193/2040					✓	✓	✓	✓	✓		2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1
164.36	8.8	19000	107000	4.7	98	41912/255					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1
148.63	9.8	19000	107000	4.7	116	290563/1955					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1
131.17	11	19000	107000	4.7	136	33449/255					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1
116.88	12	19000	107000	4.7	160	228501/1955					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1
105.89	14	19000	107000	4.7	175	27001/255					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1
95.24	15	19000	107000	4.7	210	186186/1955					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1
79.14	18	19000	107000	4.7	257	6727/85					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1
70.36	21	19000	107000	4.7	314	149513/2125					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1
56.08	26	19000	107000	4.7	421	138229/2465					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1
44.63	32	19000	107000	4.8	531	110019/2465						✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1
36.67	40	19000	104200	4.8	475	10633/290					✓	✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1
29.18	50	19000	97800	4.8	617	8463/290						✓	✓	✓	✓	✓	2KJ3214 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Transmission ratios and torques for high speeds

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size											Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	225	
E.39																		
9.22	157	30	3000	-	0.001	83/9	✓	✓									2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ S1	
8.20	177	34	3000	-	0.001	41/5	✓	✓	✓	✓							2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ R1	
7.20	201	40	3000	-	0.003	36/5	✓	✓	✓	✓							2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1	
6.55	221	40	3000	-	0.004	72/11	✓	✓	✓	✓							2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ P1	
5.60	259	40	3000	-	0.007	28/5	✓	✓	✓	✓							2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ N1	
5.09	285	40	3000	-	0.01	56/11	✓	✓	✓	✓							2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ M1	
4.50	322	48	3000	-	0.02	9/2	✓	✓	✓	✓	✓						2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ L1	
4.09	355	48	3000	-	0.02	45/11	✓	✓	✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ K1	
3.58	405	58	2550	-	0.03	43/12	✓	✓	✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ J1	
3.31	438	58	2400	-	0.05	43/13	✓	✓	✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ H1	
2.93	495	65	1620	-	0.07	41/14	✓	✓	✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ G1	
2.44	594	65	1200	-	0.13	39/16	✓	✓	✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ F1	
2.29	633	66	1330	-	0.16	39/17	✓	✓	✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ E1	
2.06	704	66	1370	-	0.19	37/18	✓	✓	✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ D1	
1.75	829	66	1490	-	0.29	7/4	✓	✓	✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ C1	
1.50	967	61	1560	-	0.45	3/2			✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ B1	
1.29	1124	54	1600	-	0.64	31/24			✓	✓	✓	✓					2KJ3001 - ■ ■ ■ ■ ■ - ■ ■ ■ A1	
E.49																		
9.70	149	86	4000	-	0.003	97/10	✓	✓	✓	✓							2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ S1	
8.82	164	108	4000	-	0.004	97/11	✓	✓	✓	✓							2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ R1	
7.50	193	107	4000	-	0.007	15/2	✓	✓	✓	✓							2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1	
6.82	213	104	4000	-	0.01	75/11	✓	✓	✓	✓							2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ P1	
6.08	238	104	4000	-	0.02	73/12	✓	✓	✓	✓	✓						2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ N1	
5.45	266	103	4000	-	0.02	60/11	✓	✓	✓	✓	✓	✓					2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ M1	
4.92	295	102	4000	-	0.03	59/12	✓	✓	✓	✓	✓	✓					2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ L1	
4.54	319	102	4000	-	0.05	59/13	✓	✓	✓	✓	✓	✓					2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ K1	
4.14	350	102	4000	-	0.09	29/7	✓	✓	✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ J1	
3.44	422	101	3510	-	0.15	55/16	✓	✓	✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ H1	
3.24	448	101	3350	-	0.19	55/17	✓	✓	✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ G1	
3.06	474	101	3200	-	0.23	55/18	✓	✓	✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ F1	
2.60	558	102	2540	-	0.36	13/5	✓	✓	✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ E1	
2.23	650	102	1930	-	0.55	49/22			✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ D1	
1.96	740	103	1420	-	0.78	47/24			✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ C1	
1.65	879	103	975	-	1.1	38/23			✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ B1	
1.44	1007	102	1140	-	1.81	36/25			✓	✓	✓	✓	✓				2KJ3002 - ■ ■ ■ ■ ■ - ■ ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size											Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	225	
E.69																		
9.30	156	120	6100	-	0.007	93/10	✓	✓	✓								2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ S1	
8.45	172	105	6100	-	0.01	93/11	✓	✓	✓								2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ R1	
7.58	191	205	6100	-	0.02	91/12	✓	✓	✓	✓	✓						2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1	
6.82	213	170	6100	-	0.02	75/11	✓	✓	✓	✓	✓						2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ P1	
6.17	235	205	6100	-	0.03	37/6	✓	✓	✓	✓	✓						2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ N1	
5.69	255	165	6100	-	0.05	74/13	✓	✓	✓	✓	✓						2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ M1	
5.21	278	200	6100	-	0.09	73/14	✓	✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ L1	
4.38	331	200	6100	-	0.15	35/8	✓	✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ K1	
4.12	352	165	6100	-	0.19	70/17	✓	✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ J1	
3.78	384	200	6100	-	0.23	34/9	✓	✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ H1	
3.30	439	200	6100	-	0.36	33/10	✓	✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ G1	
2.95	492	200	5680	-	0.55	65/22		✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ F1	
2.58	562	197	5120	-	0.78	31/12		✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ E1	
2.22	653	196	4500	-	1.10	51/23		✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ D1	
1.96	740	196	4050	-	1.81	49/25		✓	✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ C1	
1.67	868	196	4130	-	2.6	5/3			✓	✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ B1	
1.43	1014	195	4170	-	3.7	10/7				✓	✓	✓	✓				2KJ3003 - ■ ■ ■ ■ ■ - ■ ■ ■ A1	
E.89																		
9.67	150	280	8000	-	0.02	29/3		✓	✓	✓	✓						2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ T1	
8.73	166	280	8000	-	0.02	96/11		✓	✓	✓	✓						2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ S1	
7.92	183	280	8000	-	0.03	95/12		✓	✓	✓	✓						2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ R1	
7.31	198	260	8000	-	0.05	95/13		✓	✓	✓	✓						2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1	
6.64	218	260	8000	-	0.09	93/14		✓	✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ P1	
5.62	258	320	8000	-	0.15	45/8		✓	✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ N1	
5.29	274	210	8000	-	0.19	90/17		✓	✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ M1	
4.89	297	360	8000	-	0.23	44/9		✓	✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ L1	
4.35	333	360	8000	-	0.36	87/20		✓	✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ K1	
3.86	376	360	7520	-	0.55	85/22		✓	✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ J1	
3.46	419	365	6830	-	0.78	83/24		✓	✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ H1	
2.96	490	360	6030	-	1.1	68/23		✓	✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ G1	
2.64	549	360	5410	-	1.81	66/25		✓	✓	✓	✓	✓	✓	✓			2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ F1	
2.33	622	360	5260	-	2.6	7/3			✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ E1	
2.05	707	360	5430	-	3.7	43/21			✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ D1	
1.78	815	365	5550	-	5.4	41/23			✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ C1	
1.52	954	360	5580	-	7.6	32/21			✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ B1	
1.3	1115	360	5580	-	11	30/23			✓	✓	✓	✓	✓				2KJ3004 - ■ ■ ■ ■ ■ - ■ ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
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¹⁾ Only in conjunction with reduced-backlash version

Transmission ratios and torques for high speeds

Helical geared motors

Selection and ordering data

<i>i</i>	<i>n</i> ₂ rpm	<i>T</i> _{2N} Nm	<i>F</i> _{R2} N	φ ¹⁾	<i>J</i> _G 10 ⁻⁴ kgm ²	<i>R</i> _{ex} -	Motor frame size										Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	180	200	
E.109																	
7.19	202	565	10500	-	0.15	115/16			✓	✓	✓	✓	✓			2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1	
6.76	214	565	10500	-	0.19	115/17			✓	✓	✓	✓	✓			2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ P1	
6.28	231	565	10500	-	0.23	113/18			✓	✓	✓	✓	✓			2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ N1	
5.55	261	560	10500	-	0.36	111/20			✓	✓	✓	✓	✓			2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ M1	
4.95	293	560	10500	-	0.55	109/22			✓	✓	✓	✓	✓			2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ L1	
4.46	325	560	10500	-	0.78	107/24			✓	✓	✓	✓	✓			2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ K1	
3.87	375	555	10000	-	1.10	89/23			✓	✓	✓	✓	✓			2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ J1	
3.48	417	550	9390	-	1.81	87/25			✓	✓	✓	✓	✓			2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ H1	
3.04	477	545	8440	-	2.6	73/24			✓	✓	✓	✓	✓	✓		2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ G1	
2.71	535	545	7670	-	3.7	19/7			✓	✓	✓	✓	✓	✓	✓	2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ F1	
2.39	607	540	6850	-	5.4	55/23			✓	✓	✓	✓	✓	✓	✓	2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ E1	
2.10	690	535	5980	-	7.8	44/21			✓	✓	✓	✓	✓	✓	✓	2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ D1	
1.83	792	530	5060	-	11	42/23			✓	✓	✓	✓	✓	✓	✓	2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ C1	
1.67	868	530	5170	-	14	5/3			✓	✓	✓	✓	✓	✓	✓	2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ B1	
1.43	1014	465	5420	-	21	33/23				✓	✓	✓	✓	✓	✓	2KJ3005 - ■ ■ ■ ■ ■ - ■ ■ ■ A1	
E.129																	
9.79	148	665	13500	-	0.09	137/14			✓	✓	✓	✓	✓			2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ T1	
8.38	173	665	13500	-	0.15	67/8			✓	✓	✓	✓	✓			2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ S1	
7.88	184	665	13500	-	0.19	134/17			✓	✓	✓	✓	✓			2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ R1	
7.39	196	800	13500	-	0.23	133/18			✓	✓	✓	✓	✓			2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1	
6.55	221	800	13100	-	0.36	131/20			✓	✓	✓	✓	✓			2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ P1	
5.82	249	800	12500	-	0.55	64/11			✓	✓	✓	✓	✓			2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ N1	
5.25	276	795	12000	-	0.78	21/4			✓	✓	✓	✓	✓			2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ M1	
4.65	312	795	11100	-	1.10	107/23			✓	✓	✓	✓	✓			2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ L1	
4.12	352	785	10200	-	1.81	103/25			✓	✓	✓	✓	✓	✓		2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ K1	
3.67	395	780	9380	-	2.6	11/3			✓	✓	✓	✓	✓	✓		2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ J1	
3.29	441	780	8570	-	3.7	23/7			✓	✓	✓	✓	✓	✓	✓	2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ H1	
2.91	498	770	7780	-	5.4	67/23			✓	✓	✓	✓	✓	✓	✓	2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ G1	
2.57	564	765	6880	-	9.5	18/7			✓	✓	✓	✓	✓	✓	✓	2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ F1	
2.26	642	760	5930	-	14	52/23			✓	✓	✓	✓	✓	✓	✓	2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ E1	
2.05	707	765	5450	-	18	43/21			✓	✓	✓	✓	✓	✓	✓	2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ D1	
1.78	815	760	5830	-	25	41/23				✓	✓	✓	✓	✓	✓	2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ C1	
1.46	993	755	6190	-	40	19/13				✓	✓	✓	✓	✓	✓	2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ B1	
1.24	1169	745	6350	-	66	31/25				✓	✓	✓	✓	✓	✓	2KJ3006 - ■ ■ ■ ■ ■ - ■ ■ ■ A1	

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¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

<i>i</i>	<i>n</i> ₂ rpm	<i>T</i> _{2N} Nm	<i>F</i> _{R2} N	φ ¹⁾	<i>J</i> _G 10 ⁻⁴ kgm ²	<i>R</i> _{ex}	Motor frame size										Article No. (Article No. supplement, see below)	
							63	71	80	90	100	112	132	160	180	200		225
E.149																		
9.76	149	1200	16000	-	0.17	166/17					✓	✓	✓	✓				2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ S1
9.11	159	1260	16000	-	0.22	82/9					✓	✓	✓	✓				2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ R1
8.10	179	1330	15200	-	0.33	81/10					✓	✓	✓	✓				2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1
7.27	199	1350	14300	-	0.5	80/11					✓	✓	✓	✓				2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ P1
6.58	220	1330	13500	-	0.69	79/12					✓	✓	✓	✓				2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ N1
5.78	251	1490	10800	-	1.08	133/23					✓	✓	✓	✓				2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ M1
5.24	277	1490	9900	-	1.58	131/25					✓	✓	✓	✓	✓			2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ L1
4.67	310	1480	8900	-	2.3	14/3					✓	✓	✓	✓	✓	✓		2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ K1
4.19	346	1480	7940	-	4.0	88/21					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ J1
3.74	388	1480	6890	-	4.6	86/23					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ H1
3.33	435	1480	5850	-	6.7	10/3					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ G1
2.96	490	1460	4950	-	9.6	68/23					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ F1
2.71	535	1460	4140	-	12	19/7					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ E1
2.39	607	1460	3530	-	18	55/23					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ D1
1.96	740	1470	4840	-	9.6	51/26					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ C1
1.72	843	1460	5130	-	42	43/25					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ B1
1.34	1082	1280	5810	-	119	39/29					✓	✓	✓	✓	✓	✓	✓	2KJ3007 - ■ ■ ■ ■ ■ - ■ ■ ■ A1

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Transmission ratios and torques for very low speeds

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
Z.29-Z19															
1114	1.3	140	3710	-	0.02	362142/325	✓	✓							2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ P1
987	1.5	140	3710	-	0.03	3206709/3250	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ N1
857	1.7	140	3710	-	0.04	2786157/3250	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ M1
779	1.9	140	3710	-	0.05	253287/325	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ L1
663	2.2	140	3710	-	0.07	2155329/3250	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ K1
603	2.4	140	3710	-	0.08	195939/325	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ J1
526	2.8	140	3710	-	0.09	52569/100	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ H1
471	3.1	140	3710	-	0.12	152928/325	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ G1
418	3.5	140	3710	-	0.15	543213/1300	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ F1
386	3.8	140	3710	-	0.18	1629639/4225	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ E1
335.06	4.3	140	3710	-	0.20	1524501/4550	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ D1
291.15	5.0	140	3710	-	0.21	473121/1625	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ C1
262.85	5.5	140	3710	-	0.27	52569/200	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ B1
247.38	5.9	140	3710	-	0.32	105138/425	✓	✓	✓						2KJ3120 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ A1
Z.29-D19															
5890	0.25	140	3710	-	0.02	13399254/2275	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ P1
5215	0.28	140	3710	-	0.03	118648233/22750	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ N1
4531	0.32	140	3710	-	0.04	103087809/22750	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ M1
4119	0.35	140	3710	-	0.04	9371619/2275	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ L1
3505	0.41	140	3710	-	0.06	79747173/22750	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ K1
3187	0.45	140	3710	-	0.07	7249743/2275	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ J1
2779	0.52	140	3710	-	0.08	1945053/700	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ H1
2487	0.58	140	3710	-	0.11	5658336/2275	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ G1
2209	0.66	140	3710	-	0.13	20098881/9100	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ F1
2039	0.71	140	3710	-	0.16	60296643/29575	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ E1
1771	0.82	140	3710	-	0.17	56406537/31850	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ D1
1539	0.94	140	3710	-	0.18	17505477/11375	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ C1
1389	1.0	140	3710	-	0.22	1945053/1400	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ B1
1308	1.1	140	3710	-	0.26	3890106/2975	✓	✓							2KJ3121 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ A1
D.29-D19															
8025	0.18	140	3710	-	0.08	1966032/245	✓	✓							2KJ3221 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ C1
7183	0.20	140	3710	-	0.11	251652096/35035	✓	✓							2KJ3221 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ B1
6379	0.23	140	3710	-	0.13	20315664/3185	✓	✓							2KJ3221 - ■ ■ ■ ■ ■ ■ - ■ ■ ■ A1

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Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾ °	J _G 10 ⁻⁴ kgm ²	R _{ex} -	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
Z.39-Z19															
1528	0.95	200	4370	-	0.02	38192/25	✓	✓						2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ S1	
1353	1.1	200	4370	-	0.03	169092/125	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ R1	
1175	1.2	200	4370	-	0.04	146916/125	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ Q1	
1068	1.4	200	4370	-	0.05	26712/25	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ P1	
909	1.6	200	4370	-	0.07	113652/125	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ N1	
827	1.8	200	4370	-	0.08	20664/25	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ M1	
721	2.0	200	4370	-	0.09	18018/25	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ L1	
645	2.2	200	4370	-	0.12	16128/25	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ K1	
573	2.5	200	4370	-	0.15	14322/25	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ J1	
529	2.7	200	4370	-	0.18	171864/325	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ H1	
459	3.2	200	4370	-	0.20	11484/25	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ G1	
399	3.6	200	4370	-	0.21	49896/125	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ F1	
360	4.0	200	4370	-	0.27	9009/25	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ E1	
339.16	4.3	200	4370	-	0.32	144144/425	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ D1	
295.68	4.9	200	4370	-	0.36	7392/25	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ C1	
272.80	5.3	200	4370	-	0.19	1364/5	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ B1	
236.97	6.1	200	4370	-	0.22	8294/35	✓	✓	✓					2KJ3122 - ■ ■ ■ ■ ■ - ■ ■ A1	
Z.39-D19															
8075	0.18	200	4370	-	0.02	201872/25	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ P1	
7150	0.20	200	4370	-	0.03	893772/125	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ N1	
6212	0.23	200	4370	-	0.04	776556/125	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ M1	
5648	0.26	200	4370	-	0.04	141192/25	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ L1	
4806	0.30	200	4370	-	0.06	600732/125	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ K1	
4369	0.33	200	4370	-	0.07	109224/25	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ J1	
3810	0.38	200	4370	-	0.08	95238/25	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ H1	
3410	0.43	200	4370	-	0.11	85248/25	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ G1	
3028	0.48	200	4370	-	0.13	75702/25	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ F1	
2795	0.52	200	4370	-	0.16	908424/325	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ E1	
2428	0.60	200	4370	-	0.17	424908/175	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ D1	
2110	0.69	200	4370	-	0.18	263736/125	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ C1	
1905	0.76	200	4370	-	0.22	47619/25	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ B1	
1793	0.81	200	4370	-	0.26	761904/425	✓	✓						2KJ3123 - ■ ■ ■ ■ ■ - ■ ■ A1	
D.39-D19															
8760	0.17	200	4370	-	0.08	744588/85	✓	✓						2KJ3223 - ■ ■ ■ ■ ■ - ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Transmission ratios and torques for very low speeds

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
Z.49-Z19															
1823	0.80	320	5900	-	0.02	1422311/780	✓	✓							2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1
1615	0.90	320	5900	-	0.03	8396223/5200	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1
1403	1.0	320	5900	-	0.04	7295079/5200	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1
1275	1.1	320	5900	-	0.05	663189/520	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1
1085	1.3	320	5900	-	0.07	5643363/5200	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1
987	1.5	320	5900	-	0.08	513033/520	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1
860	1.7	320	5900	-	0.09	137643/160	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1
770	1.9	320	5900	-	0.12	50052/65	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1
684	2.1	320	5900	-	0.15	1422311/2080	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1
631	2.3	320	5900	-	0.18	4266933/6760	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1
548	2.6	320	5900	-	0.20	3991647/7280	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1
476	3.0	320	5900	-	0.21	1238787/2600	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1
430	3.4	320	5900	-	0.27	137643/320	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1
405	3.6	320	5900	-	0.32	137643/340	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1
353	4.1	320	5900	-	0.36	45881/130	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1
325.62	4.5	320	5900	-	0.19	1422311/4368	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1
282.85	5.1	320	5900	-	0.22	1330549/4704	✓	✓	✓						2KJ3124 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1
Z.49-D19															
9638	0.15	320	5900	-	0.02	52625507/5460	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1
8535	0.17	320	5900	-	0.03	310660251/36400	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1
7415	0.20	320	5900	-	0.04	269917923/36400	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1
6741	0.22	320	5900	-	0.04	24537993/3640	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1
5736	0.25	320	5900	-	0.06	208804431/36400	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1
5215	0.28	320	5900	-	0.07	18982221/3640	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1
4547	0.32	320	5900	-	0.08	5092791/1120	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1
4070	0.36	320	5900	-	0.11	1851924/455	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1
3614	0.40	320	5900	-	0.13	52625507/14560	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1
3336	0.43	320	5900	-	0.16	157876521/47320	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1
2898	0.50	320	5900	-	0.17	147690939/50960	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1
2518	0.58	320	5900	-	0.18	45835119/18200	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1
2274	0.64	320	5900	-	0.22	5092791/2240	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1
2140	0.68	320	5900	-	0.26	5092791/2380	✓	✓							2KJ3125 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1
D.49-D19															
13709	0.11	320	5780	-	0.06	9980343/728	✓	✓							2KJ3225 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1
12463	0.12	320	5780	-	0.07	49901715/4004	✓	✓							2KJ3225 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1
10867	0.13	320	5780	-	0.08	1217115/112	✓	✓							2KJ3225 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1
9727	0.15	320	5780	-	0.11	9736920/1001	✓	✓							2KJ3225 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
Z.59-Z19															
1812	0.80	450	7660	-	0.02	141329/78	✓	✓						2KJ3126 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1	
1604	0.90	450	7660	-	0.03	834297/520	✓	✓	✓					2KJ3126 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1	
1394	1.0	450	7660	-	0.04	724881/520	✓	✓	✓					2KJ3126 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1	
1267	1.1	450	7660	-	0.05	724881/572	✓	✓	✓					2KJ3126 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
1078	1.3	450	7660	-	0.07	560757/520	✓	✓	✓					2KJ3126 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
980	1.5	450	7660	-	0.08	560757/572	✓	✓	✓					2KJ3126 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
855	1.7	450	7660	-	0.09	13677/16	✓	✓	✓					2KJ3126 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	
Z.59-D19															
9577	0.15	450	7660	-	0.02	5229173/546	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1	
8480	0.17	450	7660	-	0.03	30868989/3640	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1	
7368	0.20	450	7660	-	0.04	26820597/3640	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1	
6698	0.22	450	7660	-	0.04	26820597/4004	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1	
5700	0.25	450	7660	-	0.06	20748009/3640	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1	
5182	0.28	450	7660	-	0.07	20748009/4004	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1	
4518	0.32	450	7660	-	0.08	506049/112	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1	
4044	0.36	450	7660	-	0.11	4048392/1001	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1	
3591	0.40	450	7660	-	0.13	5229173/1456	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1	
3315	0.44	450	7660	-	0.16	15687519/4732	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1	
2880	0.50	450	7660	-	0.17	14675421/5096	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
2502	0.58	450	7660	-	0.18	4554441/1820	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
2259	0.64	450	7660	-	0.22	506049/224	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
2126	0.68	450	7660	-	0.26	506049/238	✓	✓						2KJ3127 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	
D.59-Z19															
739	2.0	450	7660	-	0.22	579275/784	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1	
642	2.3	450	7660	-	0.23	35955/56	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1	
580	2.5	450	7660	-	0.30	259675/448	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1	
546	2.7	450	7660	-	0.35	15275/28	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1	
507	2.9	450	7660	-	0.20	1362295/2688	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1	
440	3.3	450	7660	-	0.23	16567265/37632	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
383	3.8	450	7660	-	0.24	342771/896	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
345.36	4.2	450	7660	-	0.31	7426705/21504	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
325.05	4.5	450	7660	-	0.37	436865/1344	✓	✓	✓					2KJ3226 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	
D.59-D19															
14985	0.10	450	7660	-	0.06	10908747/728	✓	✓						2KJ3227 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
13622	0.11	450	7660	-	0.07	54543735/4004	✓	✓						2KJ3227 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
11878	0.12	450	7660	-	0.08	1330335/112	✓	✓						2KJ3227 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
10632	0.14	450	7660	-	0.11	10642680/1001	✓	✓						2KJ3227 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Transmission ratios and torques for very low speeds

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
Z.69-Z19															
1939	0.75	600	11000	-	0.02	529232/273	✓	✓							2KJ3128 - ■ ■ ■ ■ ■ - ■ ■ ■ B1
1717	0.84	600	11000	-	0.03	781044/455	✓	✓	✓						2KJ3128 - ■ ■ ■ ■ ■ - ■ ■ ■ A1
Z.69-D19															
10247	0.14	600	11000	-	0.02	19581584/1911	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1
9073	0.16	600	11000	-	0.03	28898628/3185	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ P1
7883	0.18	600	11000	-	0.04	25108644/3185	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ N1
7167	0.20	600	11000	-	0.04	4565208/637	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ M1
6098	0.24	600	11000	-	0.06	19423668/3185	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ L1
5544	0.26	600	11000	-	0.07	3531576/637	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ K1
4834	0.30	600	11000	-	0.08	236874/49	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ J1
4327	0.34	600	11000	-	0.11	2756352/637	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ H1
3843	0.38	600	11000	-	0.13	2447698/637	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ G1
3547	0.41	600	11000	-	0.16	29372376/8281	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ F1
3081	0.47	600	11000	-	0.17	13738692/4459	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ E1
2677	0.54	600	11000	-	0.18	8527464/3185	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ D1
2417	0.60	600	11000	-	0.22	118437/49	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ C1
2275	0.64	600	11000	-	0.26	1894992/833	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ B1
1983	0.73	600	11000	-	0.29	1263328/637	✓	✓							2KJ3130 - ■ ■ ■ ■ ■ - ■ ■ ■ A1
D.69-Z19															
1532	0.95	600	11000	-	0.20	976140/637	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ Q1
1332	1.1	600	11000	-	0.21	121176/91	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ P1
1202	1.2	600	11000	-	0.27	8415/7	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ N1
1131	1.3	600	11000	-	0.32	7920/7	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ M1
986	1.5	600	11000	-	0.37	89760/91	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ L1
910	1.6	600	11000	-	0.19	579700/637	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ K1
791	1.8	600	11000	-	0.22	271150/343	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ J1
687	2.1	600	11000	-	0.23	33660/49	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ H1
620	2.3	600	11000	-	0.30	60775/98	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ G1
584	2.5	600	11000	-	0.35	28600/49	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ F1
542	2.7	600	11000	-	0.20	318835/588	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ E1
471	3.1	600	11000	-	0.23	3877445/8232	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ D1
409	3.5	600	11000	-	0.24	80223/196	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ C1
370	3.9	600	11000	-	0.31	1738165/4704	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ B1
347.77	4.2	600	11000	-	0.37	102245/294	✓	✓	✓						2KJ3228 - ■ ■ ■ ■ ■ - ■ ■ ■ A1
D.69-D19															
14575	0.10	600	11000	-	0.07	9284040/637	✓	✓							2KJ3230 - ■ ■ ■ ■ ■ - ■ ■ ■ C1
12708	0.11	600	11000	-	0.08	622710/49	✓	✓							2KJ3230 - ■ ■ ■ ■ ■ - ■ ■ ■ B1
11375	0.13	600	11000	-	0.11	7246080/637	✓	✓							2KJ3230 - ■ ■ ■ ■ ■ - ■ ■ ■ A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)								
							63	71	80	90	100	112	132	160									
Z.79-Z39																							
2485	0.58	840	13400	-	0.06	4025749/1620	✓	✓						2KJ3131	-	■	■	■	■	-	■	■	T1
2210	0.66	840	13400	-	0.07	1988623/900	✓	✓	✓	✓				2KJ3131	-	■	■	■	■	-	■	■	S1
1940	0.75	840	13400	-	0.08	48503/25	✓	✓	✓	✓				2KJ3131	-	■	■	■	■	-	■	■	R1
1764	0.82	840	13400	-	0.10	97006/55	✓	✓	✓	✓				2KJ3131	-	■	■	■	■	-	■	■	Q1
1509	0.96	840	13400	-	0.12	339521/225	✓	✓	✓	✓				2KJ3131	-	■	■	■	■	-	■	■	P1
1372	1.1	840	13400	-	0.14	679042/495	✓	✓	✓	✓				2KJ3131	-	■	■	■	■	-	■	■	N1
1213	1.2	840	13400	-	0.17	48503/40	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	M1
1102	1.3	840	13400	-	0.22	48503/44	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	L1
966	1.5	840	13400	-	0.26	2085629/2160	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	K1
891	1.6	840	13400	-	0.31	160433/180	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	J1
789	1.8	840	13400	-	0.36	284089/360	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	H1
657	2.2	840	13400	-	0.48	630539/960	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	G1
618	2.3	840	13400	-	0.56	630539/1020	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	F1
554	2.6	840	13400	-	0.61	1794611/3240	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	E1
472	3.1	840	13400	-	0.79	339521/720	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	D1
455	3.2	840	13400	-	0.36	21853/48	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	C1
379	3.8	840	13400	-	0.48	48503/128	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	B1
357	4.1	840	13400	-	0.56	48503/136	✓	✓	✓	✓	✓			2KJ3131	-	■	■	■	■	-	■	■	A1
Z.79-D39																							
10451	0.14	840	13400	-	0.03	47969467/4590	✓	✓						2KJ3132	-	■	■	■	■	-	■	■	R1
9269	0.16	840	13400	-	0.05	2085629/225	✓	✓	✓	✓				2KJ3132	-	■	■	■	■	-	■	■	Q1
8043	0.18	840	13400	-	0.05	123052111/15300	✓	✓	✓	✓				2KJ3132	-	■	■	■	■	-	■	■	P1
7311	0.20	840	13400	-	0.07	123052111/16830	✓	✓	✓	✓				2KJ3132	-	■	■	■	■	-	■	■	N1
6271	0.23	840	13400	-	0.08	47969467/7650	✓	✓	✓	✓				2KJ3132	-	■	■	■	■	-	■	■	M1
5700	0.25	840	13400	-	0.10	47969467/8415	✓	✓	✓	✓				2KJ3132	-	■	■	■	■	-	■	■	L1
4998	0.29	840	13400	-	0.12	22941919/4590	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	K1
4461	0.33	840	13400	-	0.15	4171258/935	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	J1
3976	0.36	840	13400	-	0.17	14599403/3672	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	H1
3670	0.40	840	13400	-	0.21	1123031/306	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	G1
3213	0.45	840	13400	-	0.25	3277417/1020	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	F1
2817	0.51	840	13400	-	0.23	64654499/22950	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	E1
2556	0.57	840	13400	-	0.33	2085629/816	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	D1
2406	0.60	840	13400	-	0.39	2085629/867	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	C1
2120	0.68	840	13400	-	0.43	14599403/6885	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	B1
1840	0.79	840	13400	-	0.58	6256887/3400	✓	✓	✓	✓	✓			2KJ3132	-	■	■	■	■	-	■	■	A1
D.79-D39																							
15344	0.09	840	13400	-	0.21	5738565/374	✓	✓	✓	✓	✓			2KJ3232	-	■	■	■	■	-	■	■	D1
13434	0.11	840	13400	-	0.25	6394401/476	✓	✓	✓	✓	✓			2KJ3232	-	■	■	■	■	-	■	■	C1
11778	0.12	840	13400	-	0.23	22025159/1870	✓	✓	✓	✓	✓			2KJ3232	-	■	■	■	■	-	■	■	B1
10686	0.14	840	13400	-	0.33	31972005/2992	✓	✓	✓	✓	✓			2KJ3232	-	■	■	■	■	-	■	■	A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex} -	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
Z.89-Z39															
3209	0.45	1680	18500	-	0.06	19494293/6075	✓	✓							2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ N1
2853	0.51	1680	18500	-	0.07	9629711/3375	✓	✓	✓	✓					2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ M1
2505	0.58	1680	18500	-	0.08	939484/375	✓	✓	✓	✓					2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ .L1
2278	0.64	1680	18500	-	0.10	1878968/825	✓	✓	✓	✓					2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ K1
1949	0.74	1680	18500	-	0.12	6576388/3375	✓	✓	✓	✓					2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ J1
1771	0.82	1680	18500	-	0.14	13152776/7425	✓	✓	✓	✓					2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1
1566	0.93	1680	18500	-	0.17	234871/150	✓	✓	✓	✓	✓				2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1
1423	1.0	1680	18500	-	0.22	234871/165	✓	✓	✓	✓	✓				2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1
1247	1.2	1680	18500	-	0.26	10099453/8100	✓	✓	✓	✓	✓				2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1
1151	1.3	1680	18500	-	0.31	776881/675	✓	✓	✓	✓	✓				2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1
1019	1.4	1680	18500	-	0.36	1375673/1350	✓	✓	✓	✓	✓				2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1
848	1.7	1680	18500	-	0.48	3053323/3600	✓	✓	✓	✓	✓				2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1
798	1.8	1680	18500	-	0.56	3053323/3825	✓	✓	✓	✓	✓				2KJ3133 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1
Z.89-D39															
13495	0.11	1680	18500	-	0.03	464574838/34425	✓	✓							2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ N1
11970	0.12	1680	18500	-	0.05	40397812/3375	✓	✓	✓	✓					2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ M1
10385	0.14	1680	18500	-	0.05	595867727/57375	✓	✓	✓	✓					2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ .L1
9441	0.15	1680	18500	-	0.07	1191735454/126225	✓	✓	✓	✓					2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ K1
8097	0.18	1680	18500	-	0.08	464574838/57375	✓	✓	✓	✓					2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ J1
7361	0.20	1680	18500	-	0.1	929149676/126225	✓	✓	✓	✓					2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1
6454	0.22	1680	18500	-	0.12	222187966/34425	✓	✓	✓	✓	✓				2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1
5761	0.25	1680	18500	-	0.15	80795624/14025	✓	✓	✓	✓	✓				2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1
5134	0.28	1680	18500	-	0.17	70696171/13770	✓	✓	✓	✓	✓				2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1
4739	0.31	1680	18500	-	0.21	10876334/2295	✓	✓	✓	✓	✓				2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1
4149	0.35	1680	18500	-	0.25	15870569/3825	✓	✓	✓	✓	✓				2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1
3638	0.40	1680	18500	-	0.23	626166086/172125	✓	✓	✓	✓	✓				2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1
3300	0.44	1680	18500	-	0.33	10099453/3060	✓	✓	✓	✓	✓				2KJ3134 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1
D.89-Z39															
715	2.0	1680	18500	-	0.63	6987123/9775	✓	✓	✓	✓	✓				2KJ3233 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1
673	2.2	1680	18500	-	0.73	111793968/166175	✓	✓	✓	✓	✓				2KJ3233 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1
603	2.4	1680	18500	-	0.83	17676824/29325	✓	✓	✓	✓	✓				2KJ3233 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1
513	2.8	1680	18500	-	1.09	5016396/9775	✓	✓	✓	✓	✓				2KJ3233 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1
480	3.0	1680	18500	-	0.66	1270386/2645	✓	✓	✓	✓	✓				2KJ3233 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1
452	3.2	1680	18500	-	0.77	20326176/44965	✓	✓	✓	✓	✓				2KJ3233 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1
405	3.6	1680	18500	-	0.87	3213968/7935	✓	✓	✓	✓	✓				2KJ3233 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1
344.83	4.2	1680	18500	-	1.15	912072/2645	✓	✓	✓	✓	✓				2KJ3233 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1
D.89-D39															
16496	0.09	1680	18500	-	0.12	214526312/13005	✓	✓	✓	✓	✓				2KJ3234 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1
14723	0.10	1680	18500	-	0.15	234028704/15895	✓	✓	✓	✓	✓				2KJ3234 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
D.109-Z39															
5970	0.24	3100	20200	-	0.06	33365917/5589	✓	✓						2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A2	
5308	0.27	3100	20200	-	0.07	16481959/3105	✓	✓	✓	✓				2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ X1	
4661	0.31	3100	20200	-	0.09	1607996/345	✓	✓	✓	✓				2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ W1	
4237	0.34	3100	20200	-	0.10	3215992/759	✓	✓	✓	✓				2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ V1	
3625	0.40	3100	20200	-	0.12	11255972/3105	✓	✓	✓	✓				2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ U1	
3296	0.44	3100	20200	-	0.15	22511944/6831	✓	✓	✓	✓				2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ T1	
2913	0.50	3100	20200	-	0.17	401999/138	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1	
2648	0.55	3100	20200	-	0.23	2009995/759	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1	
2320	0.62	3100	20200	-	0.27	17285957/7452	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1	
2141	0.68	3100	20200	-	0.32	1329689/621	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1	
1896	0.76	3100	20200	-	0.38	16481959/8694	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1	
1578	0.92	3100	20200	-	0.50	5225987/3312	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1	
1485	0.98	3100	20200	-	0.59	307411/207	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1	
1331	1.1	3100	20200	-	0.64	14873963/11178	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1	
1133	1.3	3100	20200	-	0.84	2813993/2484	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1	
971	1.5	3100	20200	-	1.10	401999/414			✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1	
836	1.7	3100	20200	-	1.40	12461969/14904			✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1	
690	2.1	3100	20200	-	0.73	122609695/177744	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1	
649	2.2	3100	20200	-	0.84	7212335/11109	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1	
582	2.5	3100	20200	-	0.96	348966055/599886	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
495	2.9	3100	20200	-	1.28	9431515/19044	✓	✓	✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
424	3.4	3100	20200	-	1.69	9431515/22218			✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
366	4.0	3100	20200	-	2.20	292376965/799848			✓	✓	✓			2KJ3235 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	
D.109-D39															
19321	0.08	3100	20200	-	0.05	59992439/3105	✓	✓	✓	✓				2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ T1	
17565	0.08	3100	20200	-	0.07	119984878/6831	✓	✓	✓	✓				2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1	
15064	0.10	3100	20200	-	0.08	2033642/135	✓	✓	✓	✓				2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1	
13695	0.11	3100	20200	-	0.10	4067284/297	✓	✓	✓	✓				2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1	
12008	0.12	3100	20200	-	0.12	22370062/1863	✓	✓	✓	✓	✓			2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1	
10717	0.14	3100	20200	-	0.15	8134568/759	✓	✓	✓	✓	✓			2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1	
9551	0.15	3100	20200	-	0.18	35588735/3726	✓	✓	✓	✓	✓			2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1	
8817	0.16	3100	20200	-	0.21	5475190/621	✓	✓	✓	✓	✓			2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1	
7719	0.19	3100	20200	-	0.25	11185031/1449	✓	✓	✓	✓	✓			2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1	
6768	0.21	3100	20200	-	0.23	63042902/9315	✓	✓	✓	✓	✓			2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1	
6140	0.24	3100	20200	-	0.33	5084105/828	✓	✓	✓	✓	✓			2KJ3236 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Transmission ratios and torques for very low speeds

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
D.129-Z49															
5963	0.24	5000	27000	-	0.18	1339420717/224640	✓	✓	✓	✓					2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B2
5420	0.27	5000	27000	-	0.21	1339420717/247104	✓	✓	✓	✓					2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A2
4610	0.31	5000	27000	-	0.27	69042305/14976	✓	✓	✓	✓					2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ X1
4191	0.35	5000	27000	-	0.32	345211525/82368	✓	✓	✓	✓					2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ W1
3739	0.39	5000	27000	-	0.37	1008017653/269568	✓	✓	✓	✓	✓				2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ V1
3353	0.43	5000	27000	-	0.45	69042305/20592	✓	✓	✓	✓	✓				2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ U1
3022	0.48	5000	27000	-	0.53	814699199/269568	✓	✓	✓	✓	✓	✓			2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ T1
2790	0.52	5000	27000	-	0.63	814699199/292032	✓	✓	✓	✓	✓	✓			2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1
2547	0.57	5000	27000	-	0.74	400445369/157248	✓	✓	✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1
2113	0.69	5000	27000	-	0.95	759465355/359424	✓	✓	✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1
1989	0.73	5000	27000	-	1.09	759465355/381888	✓	✓	✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1
1878	0.77	5000	27000	-	1.24	759465355/404352	✓	✓	✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1
1598	0.91	5000	27000	-	1.53	13808461/8640	✓	✓	✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1
1369	1.1	5000	27000	-	1.89	676614589/494208			✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1
1204	1.2	5000	27000	-	2.3	648997667/539136			✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1
1016	1.4	5000	27000	-	2.9	262360759/258336			✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1
885	1.6	5000	27000	-	3.9	13808461/15600			✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1
873	1.7	5000	27000	-	1.51	208411423/238680	✓	✓	✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1
825	1.8	5000	27000	-	1.71	208411423/252720	✓	✓	✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1
702	2.1	5000	27000	-	2.2	18946493/27000	✓	✓	✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1
601	2.4	5000	27000	-	2.8	928378157/1544400			✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1
529	2.7	5000	27000	-	3.4	890485171/1684800			✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1
446	3.3	5000	27000	-	4.5	359983367/807300			✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1
389	3.7	5000	27000	-	6.0	18946493/48750			✓	✓	✓	✓	✓		2KJ3237 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1
D.129-D49															
19506	0.07	5000	27000	-	0.12	1643206859/84240	✓	✓	✓	✓					2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1
17733	0.08	5000	27000	-	0.14	1643206859/92664	✓	✓	✓	✓					2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1
15675	0.09	5000	27000	-	0.17	234743837/14976	✓	✓	✓	✓	✓				2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1
14250	0.10	5000	27000	-	0.22	1173719185/82368	✓	✓	✓	✓	✓				2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1
12482	0.12	5000	27000	-	0.26	10093984991/808704	✓	✓	✓	✓	✓	✓			2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1
11522	0.13	5000	27000	-	0.31	10093984991/876096	✓	✓	✓	✓	✓	✓			2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1
10201	0.14	5000	27000	-	0.37	9624497317/943488	✓	✓	✓	✓	✓	✓	✓		2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1
8490	0.17	5000	27000	-	0.50	234743837/27648	✓	✓	✓	✓	✓	✓	✓		2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1
7991	0.18	5000	27000	-	0.59	13808461/1728	✓	✓	✓	✓	✓	✓	✓		2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1
7160	0.2	5000	27000	-	0.65	8685521969/1213056	✓	✓	✓	✓	✓	✓	✓		2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1
6096	0.24	5000	27000	-	0.85	1643206859/269568	✓	✓	✓	✓	✓	✓	✓		2KJ3238 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
D.149-Z49															
5749	0.25	8000	51200	-	0.18	225346617/39200	✓	✓	✓	✓					2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ B2
5226	0.28	8000	51200	-	0.22	225346617/43120	✓	✓	✓	✓					2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ A2
4445	0.33	8000	51200	-	0.28	6969483/1568	✓	✓	✓	✓					2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ X1
4041	0.36	8000	51200	-	0.34	34847415/8624	✓	✓	✓	✓					2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ W1
3605	0.40	8000	51200	-	0.39	56530251/15680	✓	✓	✓	✓	✓				2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ V1
3233	0.45	8000	51200	-	0.47	6969483/2156	✓	✓	✓	✓	✓	✓			2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ U1
2914	0.50	8000	51200	-	0.55	45688833/15680	✓	✓	✓	✓	✓	✓			2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ T1
2690	0.54	8000	51200	-	0.66	137066499/50960	✓	✓	✓	✓	✓	✓			2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ S1
2455	0.59	8000	51200	-	0.78	67371669/27440	✓	✓	✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ R1
2037	0.71	8000	51200	-	1.0	25554771/12544	✓	✓	✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ Q1
1917	0.76	8000	51200	-	1.16	25554771/13328	✓	✓	✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ P1
1811	0.80	8000	51200	-	1.31	2839419/1568	✓	✓	✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ N1
1541	0.94	8000	51200	-	1.62	30201093/19600	✓	✓	✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ M1
1320	1.1	8000	51200	-	2.0	2323161/1760			✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ L1
1161	1.2	8000	51200	-	2.5	36396189/31360			✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ K1
979	1.5	8000	51200	-	3.2	1919133/1960			✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ J1
853	1.7	8000	51200	-	4.2	20908449/24500			✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ H1
842	1.7	8000	51200	-	1.81	35063523/41650	✓	✓	✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ G1
795	1.8	8000	51200	-	2.0	3895947/4900	✓	✓	✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ F1
677	2.1	8000	51200	-	2.6	41438709/61250	✓	✓	✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ E1
580	2.5	8000	51200	-	3.4	3187593/5500			✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ D1
510	2.8	8000	51200	-	4.3	49938957/98000			✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ C1
430	3.4	8000	51200	-	5.7	2633229/6125			✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ B1
375	3.9	8000	51200	-	7.5	57376674/153125			✓	✓	✓	✓	✓		2KJ3240 - ■ ■ ■ ■ ■ - ■ ■ A1
D.149-D49															
24180	0.06	8000	51200	-	0.08	118481211/4900	✓	✓	✓	✓					2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ N1
21982	0.07	8000	51200	-	0.10	118481211/5390	✓	✓	✓	✓					2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ M1
18807	0.08	8000	51200	-	0.12	13164579/700	✓	✓	✓	✓					2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ L1
17097	0.08	8000	51200	-	0.14	13164579/770	✓	✓	✓	✓					2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ K1
15112	0.10	8000	51200	-	0.17	118481211/7840	✓	✓	✓	✓	✓				2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ J1
13739	0.11	8000	51200	-	0.22	118481211/8624	✓	✓	✓	✓	✓				2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ H1
12034	0.12	8000	51200	-	0.26	188692299/15680	✓	✓	✓	✓	✓				2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ G1
11108	0.13	8000	51200	-	0.31	566076897/50960	✓	✓	✓	✓	✓				2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ F1
9835	0.15	8000	51200	-	0.37	539747739/54880	✓	✓	✓	✓	✓	✓			2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ E1
8186	0.18	8000	51200	-	0.50	513418581/62720	✓	✓	✓	✓	✓	✓			2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ D1
7704	0.19	8000	51200	-	0.59	30201093/3920	✓	✓	✓	✓	✓	✓			2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ C1
6903	0.21	8000	51200	-	0.66	54121047/7840	✓	✓	✓	✓	✓	✓			2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ B1
5877	0.25	8000	51200	-	0.86	13164579/2240	✓	✓	✓	✓	✓	✓			2KJ3241 - ■ ■ ■ ■ ■ - ■ ■ A1

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Transmission ratios and torques for very low speeds

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
D.169-Z.69															
5545	0.26	14000	70100	-	0.21	115475008/20825	✓	✓	✓	✓				2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A2	
5041	0.29	14000	70100	-	0.26	20995456/4165	✓	✓	✓	✓				2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ X1	
4287	0.34	14000	70100	-	0.33	3571392/833	✓	✓	✓	✓				2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ W1	
3898	0.37	14000	70100	-	0.40	3246720/833	✓	✓	✓	✓				2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ V1	
3478	0.42	14000	70100	-	0.47	43451936/12495	✓	✓	✓	✓	✓			2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ U1	
3118	0.47	14000	70100	-	0.57	2597376/833	✓	✓	✓	✓	✓	✓		2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ T1	
2811	0.52	14000	70100	-	0.67	35118688/12495	✓	✓	✓	✓	✓	✓		2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ S1	
2594	0.56	14000	70100	-	0.8	140474752/54145	✓	✓	✓	✓	✓	✓		2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ R1	
2368	0.61	14000	70100	-	0.95	69046912/29155	✓	✓	✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ Q1	
1965	0.74	14000	70100	-	1.25	1636888/833	✓	✓	✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ P1	
1849	0.78	14000	70100	-	1.44	26190208/14161	✓	✓	✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ N1	
1747	0.83	14000	70100	-	1.62	13095104/7497	✓	✓	✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ M1	
1486	0.98	14000	70100	-	2.1	30952064/20825	✓	✓	✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ L1	
1273	1.1	14000	70100	-	2.6	108224/85	✓	✓	✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ K1	
1119	1.3	14000	70100	-	3.2	13987952/12495			✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ J1	
944	1.5	14000	70100	-	4.2	90475264/95795			✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1	
823	1.8	14000	70100	-	5.7	85713408/104125			✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1	
773	1.9	14000	70100	-	3.2	19047424/24633	✓	✓	✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1	
658	2.2	14000	70100	-	4.3	45021184/68425	✓	✓	✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1	
564	2.6	14000	70100	-	5.6	12121088/21505			✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1	
496	2.9	14000	70100	-	7.1	20346112/41055			✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1	
418	3.5	14000	70100	-	9.7	131600384/314755			✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1	
364	4.0	14000	70100	-	13	124674048/342125			✓	✓	✓	✓	✓	2KJ3242 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1	
D.169-D69															
23323	0.06	14000	70100	-	0.08	28571136/1225	✓	✓	✓	✓				2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ N1	
21203	0.07	14000	70100	-	0.10	5194752/245	✓	✓	✓	✓				2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ M1	
18140	0.08	14000	70100	-	0.12	9523712/525	✓	✓	✓	✓				2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ L1	
16491	0.09	14000	70100	-	0.15	1731584/105	✓	✓	✓	✓				2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ K1	
14577	0.10	14000	70100	-	0.17	3571392/245	✓	✓	✓	✓	✓			2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ J1	
13252	0.11	14000	70100	-	0.23	649344/49	✓	✓	✓	✓	✓	✓		2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ H1	
11608	0.12	14000	70100	-	0.26	25594976/2205	✓	✓	✓	✓	✓	✓		2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ G1	
10715	0.14	14000	70100	-	0.32	102379904/9555	✓	✓	✓	✓	✓	✓		2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ F1	
9487	0.15	14000	70100	-	0.39	48809024/5145	✓	✓	✓	✓	✓	✓	✓	2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ E1	
7896	0.18	14000	70100	-	0.52	1934504/245	✓	✓	✓	✓	✓	✓	✓	2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ D1	
7431	0.20	14000	70100	-	0.61	30952064/4165	✓	✓	✓	✓	✓	✓	✓	2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ C1	
6659	0.22	14000	70100	-	0.68	44047168/6615	✓	✓	✓	✓	✓	✓	✓	2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ B1	
5669	0.26	14000	70100	-	0.89	595232/105	✓	✓	✓	✓	✓	✓	✓	2KJ3243 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ ■ A1	

Article No. supplement

Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

Helical geared motors

Selection and ordering data

i	n ₂ rpm	T _{2N} Nm	F _{R2} N	φ ¹⁾	J _G 10 ⁻⁴ kgm ²	R _{ex}	Motor frame size								Article No. (Article No. supplement, see below)
							63	71	80	90	100	112	132	160	
D.189-Z69															
5807	0.25	19000	107000	-	0.24	56760132/9775	✓	✓	✓	✓				2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A2	
5279	0.27	19000	107000	-	0.29	10320024/1955	✓	✓	✓	✓				2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ X1	
4490	0.32	19000	107000	-	0.37	1755468/391	✓	✓	✓	✓				2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ W1	
4082	0.36	19000	107000	-	0.45	1595880/391	✓	✓	✓	✓				2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ V1	
3642	0.40	19000	107000	-	0.53	7119398/1955	✓	✓	✓	✓	✓			2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ U1	
3265	0.44	19000	107000	-	0.64	1276704/391	✓	✓	✓	✓	✓	✓		2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ T1	
2943	0.49	19000	107000	-	0.77	5754034/1955	✓	✓	✓	✓	✓	✓		2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ S1	
2717	0.53	19000	107000	-	0.91	5311416/1955	✓	✓	✓	✓	✓	✓		2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ R1	
2480	0.58	19000	107000	-	1.08	33939048/13685	✓	✓	✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ Q1	
2058	0.70	19000	107000	-	1.45	1609179/782	✓	✓	✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1	
1937	0.75	19000	107000	-	1.65	12873432/6647	✓	✓	✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1	
1829	0.79	19000	107000	-	1.87	2145572/1173	✓	✓	✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1	
1556	0.93	19000	107000	-	2.4	15214056/9775	✓	✓	✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1	
1333	1.1	19000	107000	-	3.1	2606604/1955			✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1	
1172	1.2	19000	107000	-	3.8	2291861/1955			✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1	
989	1.5	19000	107000	-	5.1	44471856/44965			✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1	
862	1.7	19000	107000	-	6.8	42131232/48875			✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1	
810	1.8	19000	107000	-	4.5	21845824/26979	✓	✓	✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1	
689	2.1	19000	107000	-	6	154906752/224825	✓	✓	✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1	
590	2.5	19000	107000	-	8	26539968/44965			✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
519	2.8	19000	107000	-	10	23335312/44965			✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
438	3.3	19000	107000	-	14	452804352/1034195			✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
382	3.8	19000	107000	-	18	428972544/1124125			✓	✓	✓	✓	✓	2KJ3244 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	
D.189-D69															
27816	0.05	19000	107000	-	0.07	15994264/575	✓	✓	✓	✓				2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ P1	
24424	0.06	19000	107000	-	0.09	14043744/575	✓	✓	✓	✓				2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ N1	
22204	0.07	19000	107000	-	0.11	2553408/115	✓	✓	✓	✓				2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ M1	
18996	0.08	19000	107000	-	0.12	10922912/575	✓	✓	✓	✓				2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ L1	
17269	0.08	19000	107000	-	0.15	1985984/115	✓	✓	✓	✓				2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ K1	
15265	0.09	19000	107000	-	0.18	1755468/115	✓	✓	✓	✓	✓			2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ J1	
13877	0.10	19000	107000	-	0.23	319176/23	✓	✓	✓	✓	✓			2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ H1	
12155	0.12	19000	107000	-	0.27	4193618/345	✓	✓	✓	✓	✓			2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ G1	
11220	0.13	19000	107000	-	0.32	1290344/115	✓	✓	✓	✓	✓			2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ F1	
9934	0.15	19000	107000	-	0.39	7997132/805	✓	✓	✓	✓	✓	✓		2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ E1	
8269	0.18	19000	107000	-	0.53	1901757/230	✓	✓	✓	✓	✓	✓		2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ D1	
7782	0.19	19000	107000	-	0.62	15214056/1955	✓	✓	✓	✓	✓	✓		2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ C1	
6973	0.21	19000	107000	-	0.69	7216924/1035	✓	✓	✓	✓	✓	✓		2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ B1	
5936	0.24	19000	107000	-	0.91	682682/115	✓	✓	✓	✓	✓	✓		2KJ3245 - ■ ■ ■ ■ ■ - ■ ■ ■ ■ A1	

Article No. supplement

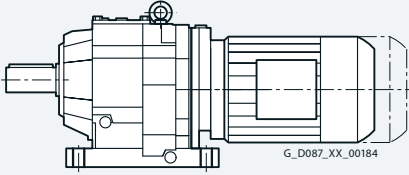
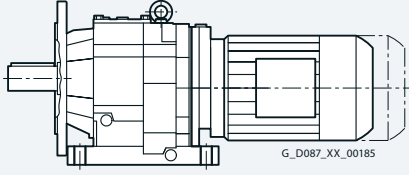
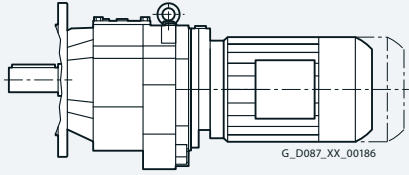
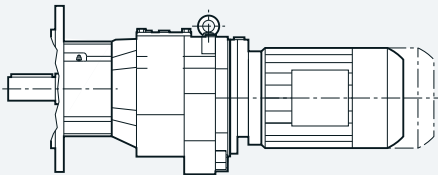
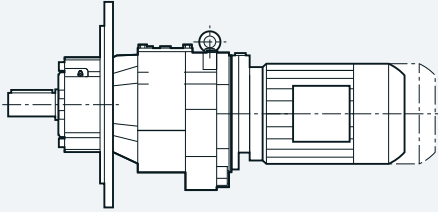
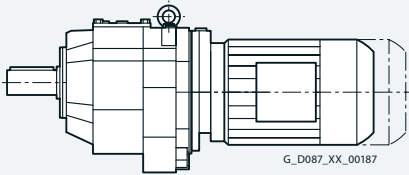
Shaft design	1 or 9	see page 10/48
Motor frame size, motor type, efficiency class		see chapter 9
Frequency and voltage	2 or 9	see page 11/2
Gearbox mounting type	A, B, F or H	see page 10/42

¹⁾ Only in conjunction with reduced-backlash version

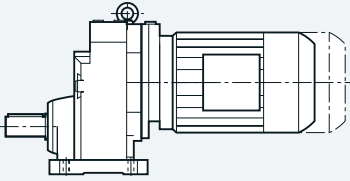
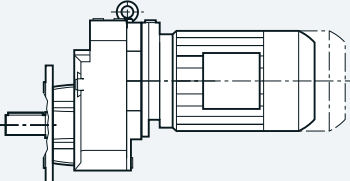
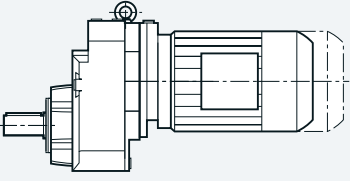
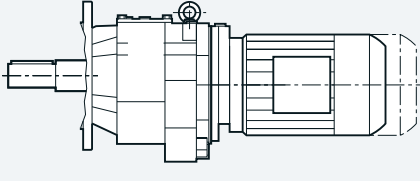
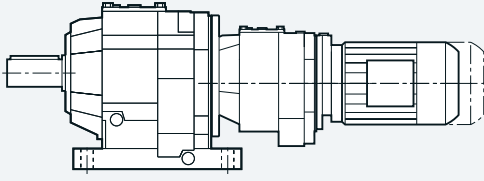
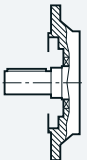
Helical geared motors

Overview

Notes on the dimensional drawings are provided in chapter Introduction on page 1/23.

Design	Frame size	Dimensional drawing, see page
Helical geared motor Z and D		
<i>Foot-mounted design</i>		
	Z/D19	3/108
	Z/D29	3/111
	Z/D39	3/115
	Z/D49	3/119
	Z/D59	3/122
	Z/D69	3/125
	Z/D79	3/128
	Z/D89	3/131
	Z/D109	3/136
	Z/D129	3/141
	Z/D149	3/146
	Z/D169	3/150
	Z/D189	3/154
<i>Foot/flange-mounted design</i>		
	ZB/DB29	3/112
	ZB/DB39	3/116
	ZB/DB49	3/119
	ZB/DB59	3/122
	ZB/DB69	3/125
	ZB/DB79	3/128
ZB/DB89	3/131	
<i>Flange-mounted design</i>		
	ZF/DF19	3/109
	ZF/DF29	3/113
	ZF/DF39	3/117
	ZF/DF49	3/120
	ZF/DF59	3/123
	ZF/DF69	3/126
	ZF/DF79	3/129
	ZF/DF89	3/132
	ZF/DF109	3/137
	ZF/DF129	3/142
	ZF/DF149	3/147
	ZF/DF169	3/151
	ZF/DF189	3/155
<i>Flange-mounted design with VLplus reinforced bearing system</i>		
	ZF/DF89	3/133
	ZF/DF109	3/138
	ZF/DF129	3/143
	ZF/DF149	3/148
	ZF/DF169	3/152
<i>Flange-mounted design with XLplus reinforced bearing system</i>		
	ZF/DF89	3/134
	ZF/DF109	3/139
	ZF/DF129	3/144
	ZF/DF149	3/149
	ZF/DF169	3/153
<i>Housing flange design</i>		
	ZZ/DZ19	3/110
	ZZ/DZ29	3/114
	ZZ/DZ39	3/118
	ZZ/DZ49	3/121
	ZZ/DZ59	3/124
	ZZ/DZ69	3/127
	ZZ/DZ79	3/130
	ZZ/DZ89	3/135
	ZZ/DZ109	3/140
	ZZ/DZ129	3/145

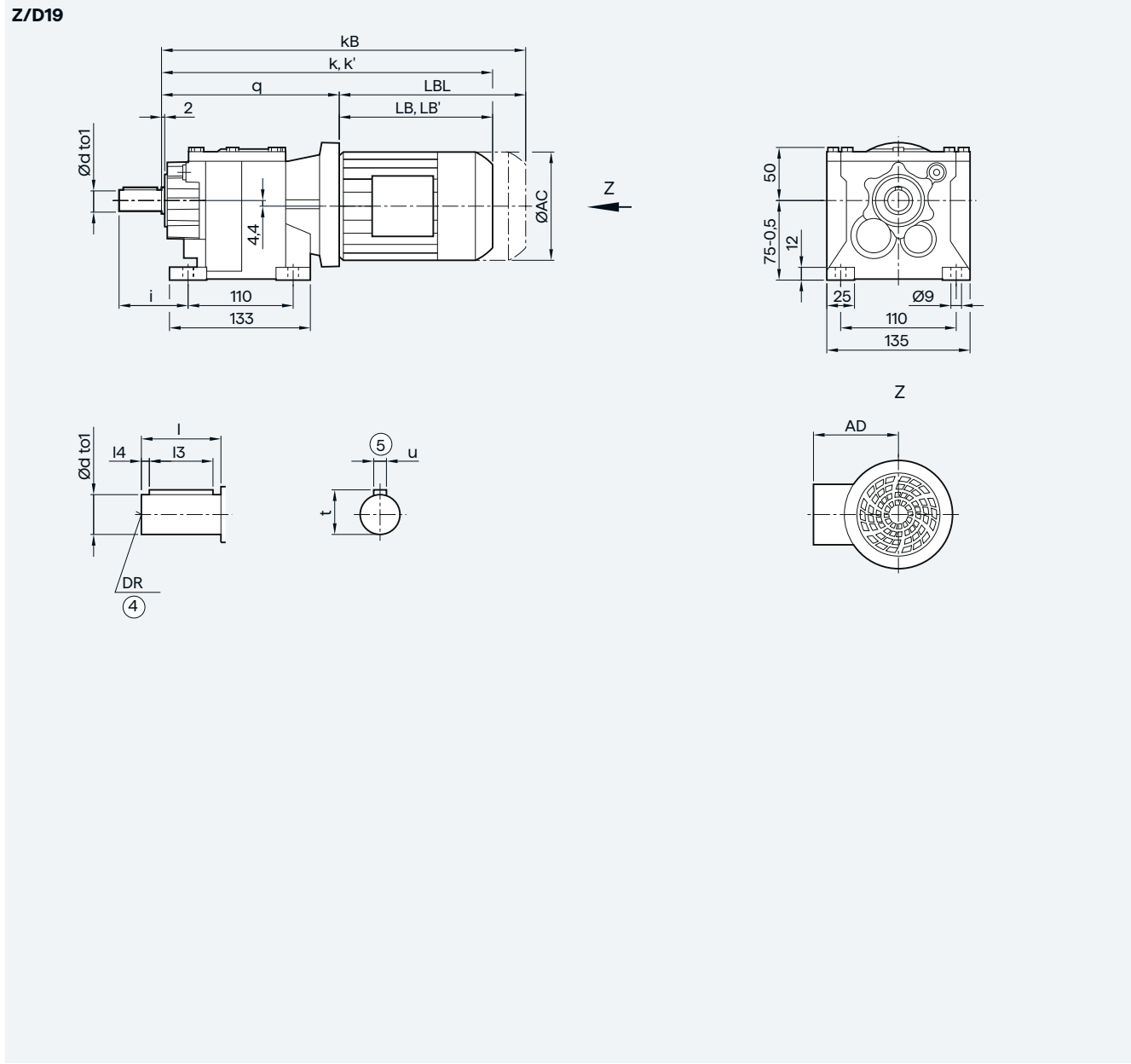
Overview

Design	Frame size	Dimensional drawing, see page
Helical geared motor E		
<i>Foot-mounted design</i>		
	E39	3/156
	E49	3/159
	E69	3/162
	E89	3/165
	E109	3/168
	E129	3/171
	E149	3/174
<i>Flange-mounted design</i>		
	EF39	3/157
	EF49	3/160
	EF69	3/163
	EF89	3/166
	EF109	3/169
	EF129	3/172
	EF149	3/175
<i>Housing flange design</i>		
	EZ39	3/158
	EZ49	3/161
	EZ69	3/164
	EZ89	3/167
	EZ109	3/170
	EZ129	3/173
	EZ149	3/176
Cooling tower geared motor		
	ZKF89	3/177
	ZKF109	3/178
	ZKF129	3/179
	ZKF149	3/180
	ZKF169	3/181
	ZKF189	3/182
	EKF89	3/183
	EKF109	3/184
	EKF129	3/185
	EKF149	3/186
Helical tandem geared motor		
	Z/D.29-Z/D19 ... D.189-Z/D69	3/187
Additional versions and options		
<i>Inner contour of the flange-mounted design</i>		
	ZF/DF19 ... ZF/DF189, ZB/DB29 ... ZB/DB89	3/189
	EF39 ... EF149	3/191
	ZKF89 ... ZKF189	3/191
	EKF89 ... EKF149	3/191

Helical geared motors

2- and 3-stage

Gearbox Z/D19 in a foot-mounted design



Shaft	d	to1	l	l3	l4	t	u	i	DR
	16	k6	28	22	3	18.0	5	46	M5
	16	k6	40	32	4	18.0	5	58	M8
	20	k6	40	32	4	22.5	6	58t	M6x16
Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z		
q	159.5	159.5	167.5	167.5	167.5	168.0	168.0		
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3		
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2		
k	320.0	346.0	352.0	371.0	411.0	408.0	443.0		
k' ²⁾	—	—	—	—	—	—	—		
kB	364.5	390.5	407.0	426.0	466.0	468.0	503.0		
LB	160.5	186.5	184.5	203.5	243.5	240.0	275.0		
LB' ²⁾	—	—	—	—	—	—	—		
LBL	205.0	231.0	239.5	258.5	298.5	300.0	335.0		

④ DIN 332

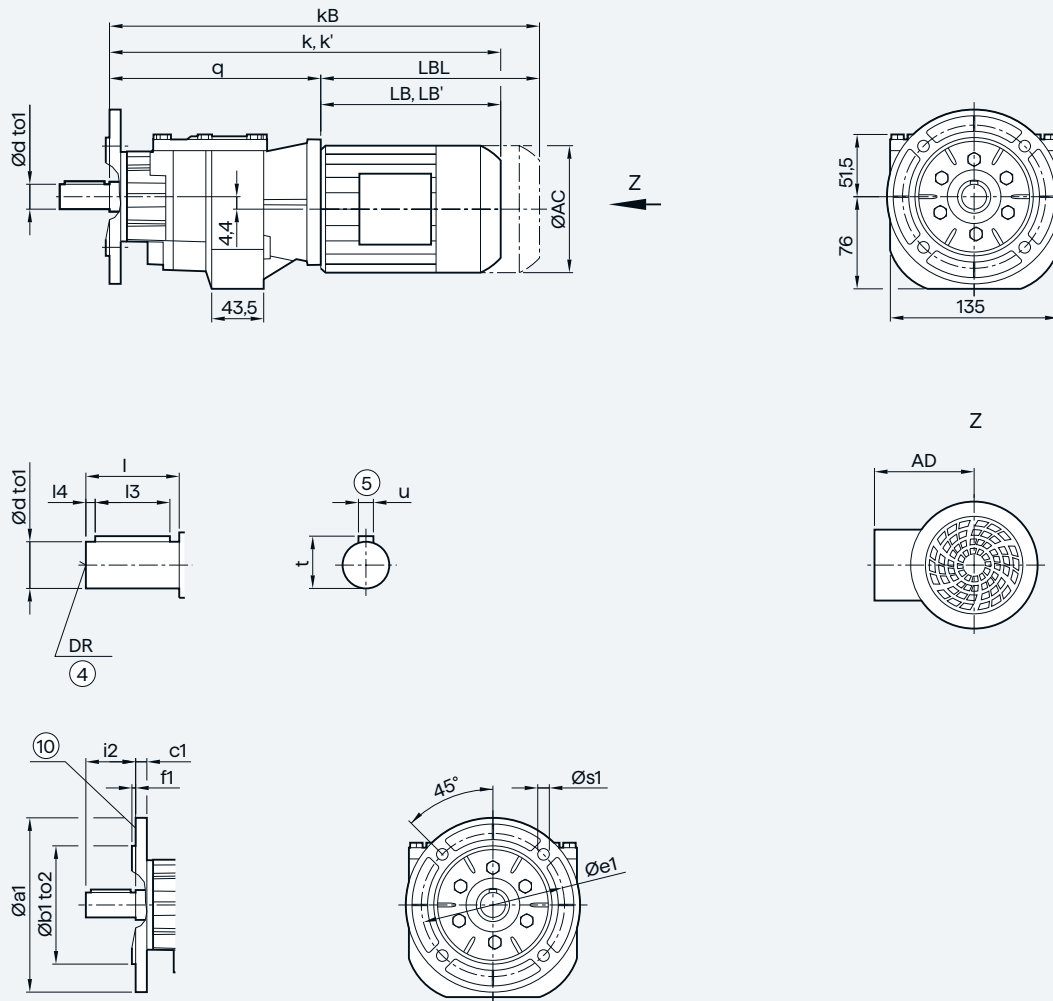
⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF19 in a flange-mounted design

ZF/DF19



Flange	a1	b1	to2	c1	e1	f1	s1	Shaft	d	to1	l	l3	l4	t	u	i2	DR
		120	80	j6	8	100	3.0		6.6		16	k6	28	22	3	18.0	5
	140	95	j6	9	115	3.0	9.0		16	k6	40	32	4	18.0	5	40	M8
	160	110	j6	9	130	3.5	9.0		20	k6	40	32	4	22.5	6	40	M6x16
Motor	LE63		LE63Z		LE71/ FZ71		LE71Z/ FZ71Z		LE71Y		LE80		LE80Z				
q	168.5		168.5		176.5		176.5		176.5		177.0		177.0				
AC	117.8		117.8		138.8		138.8		138.8		156.3		156.3				
AD ¹⁾	124.0		124.0		134.0		134.0		134.0		149.2		149.2				
k	329.0		355.0		361.0		380.0		420.0		417.0		452.0				
k' ²⁾	—		—		—		—		—		—		—				
kB	373.5		399.5		416.0		435.0		475.0		477.0		512.0				
LB	160.5		186.5		184.5		203.5		243.5		240.0		275.0				
LB' ²⁾	—		—		—		—		—		—		—				
LBL	205.0		231.0		239.5		258.5		298.5		300.0		335.0				

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

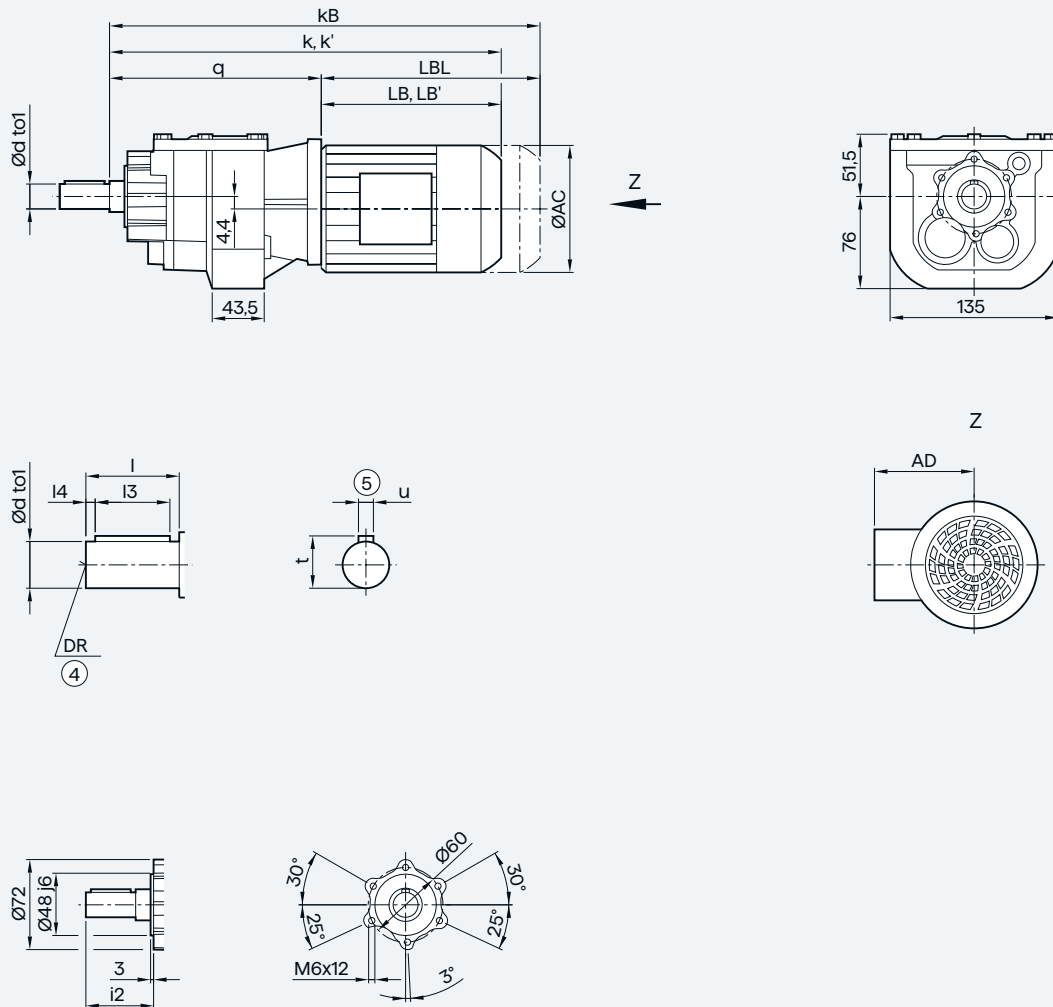
²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2

Helical geared motors

2- and 3-stage

Gearbox ZZ/DZ19 in a housing flange design

ZZ/DZ19



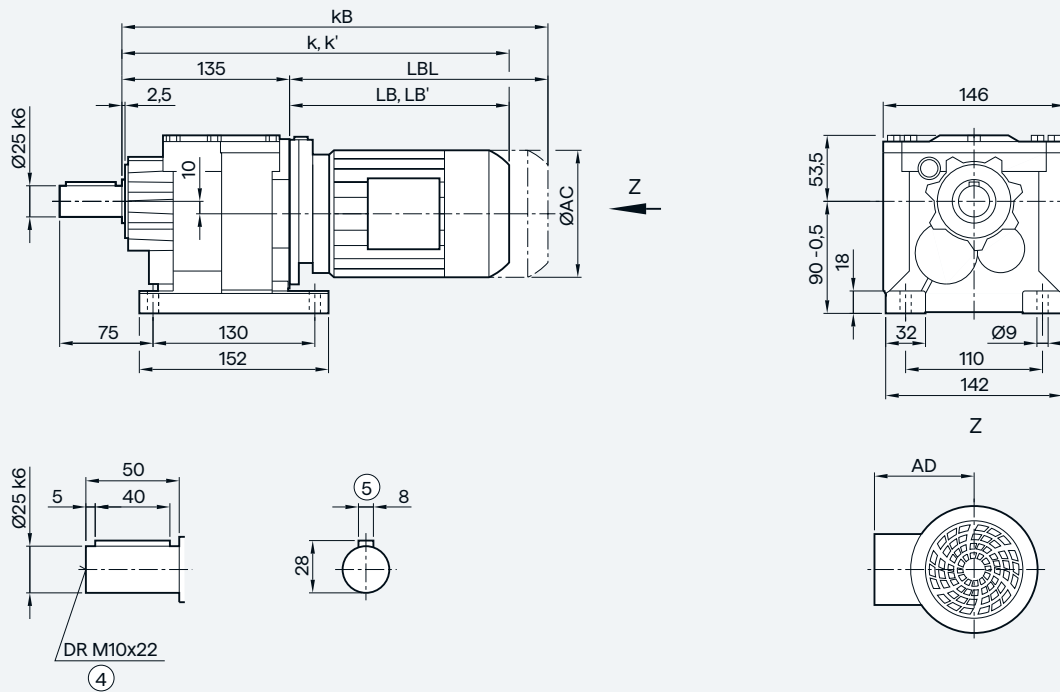
Shaft	d	to1	l	l3	l4	t	u	i2	DR
	16	k6	28	22	3	18.0	5	42	M5
	16	k6	40	32	4	18.0	5	54	M8
	20	k6	40	32	4	22.5	6	54	M6x16
Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z		
q	168.5	168.5	176.5	176.5	176.5	177.0	177.0		
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3		
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2		
k	329.0	355.0	361.0	380.0	420.0	417.0	452.0		
k' ²⁾	—	—	—	—	—	—	—		
kB	373.5	399.5	416.0	435.0	475.0	477.0	512.0		
LB	160.5	186.5	184.5	203.5	243.5	240.0	275.0		
LB' ²⁾	—	—	—	—	—	—	—		
LBL	205.0	231.0	239.5	258.5	298.5	300.0	335.0		

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox Z/D29 in a foot-mounted design**Z/D29**

Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	329.0	355.0	361.0	380.0	420.0	425.0	460.0	486.5	526.5	543.0	578.0
k' ²⁾	—	—	—	—	—	—	—	—	—	536.5	571.5
kB	373.5	399.5	416.0	435.0	475.0	485.0	520.0	556.5	596.5	621.5	656.5
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

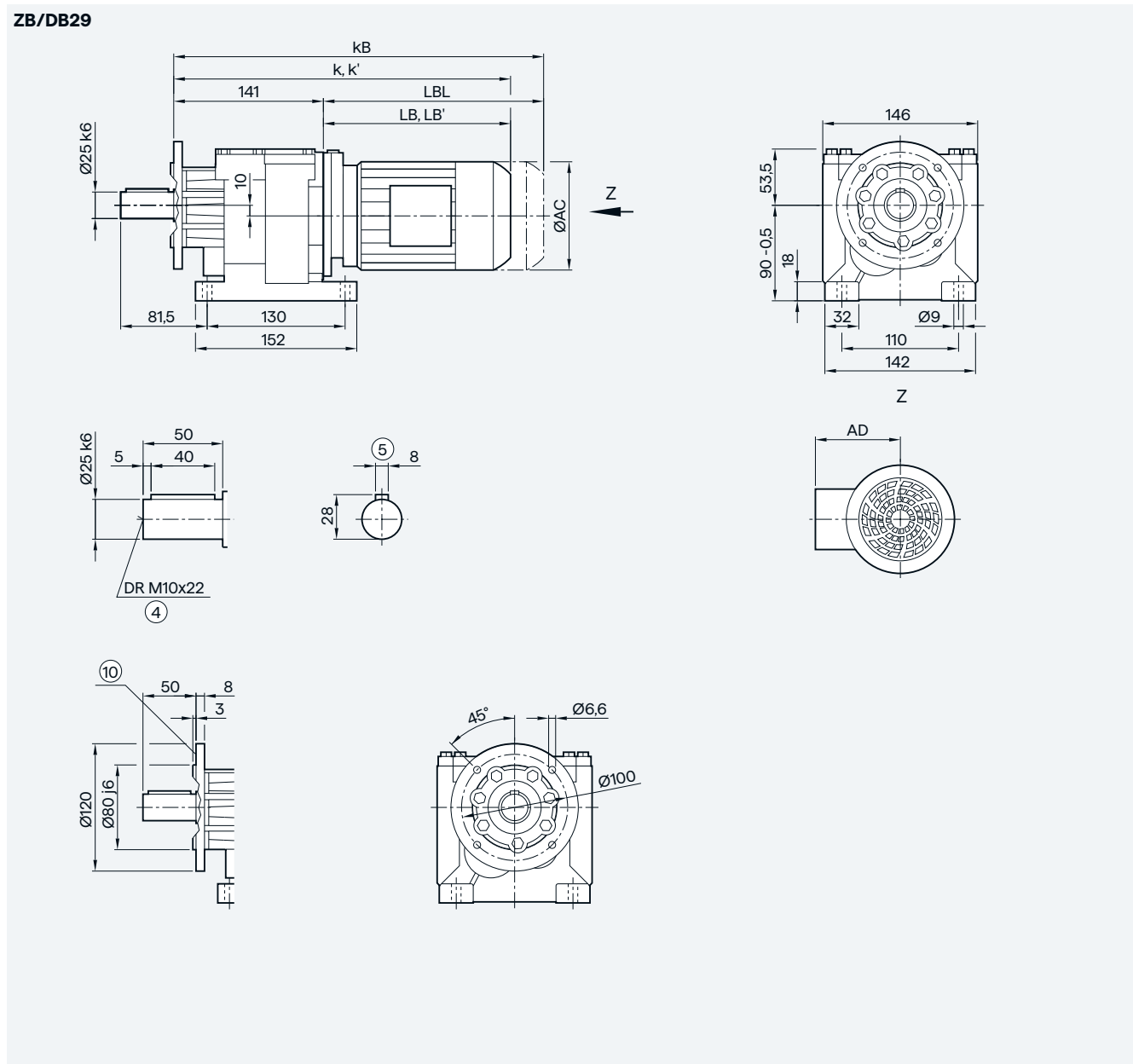
1) AD depends on the motor options, for other dimensions, see page 9/46.

2) k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZB/DB29 in a foot/flange-mounted design



Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	335.0	361.0	367.0	386.0	426.0	431.0	466.0	492.5	532.5	549.0	584.0
k' ²⁾	—	—	—	—	—	—	—	—	—	542.5	577.5
kB	379.5	405.5	422.0	441.0	481.0	491.0	526.0	562.5	602.5	627.5	662.5
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

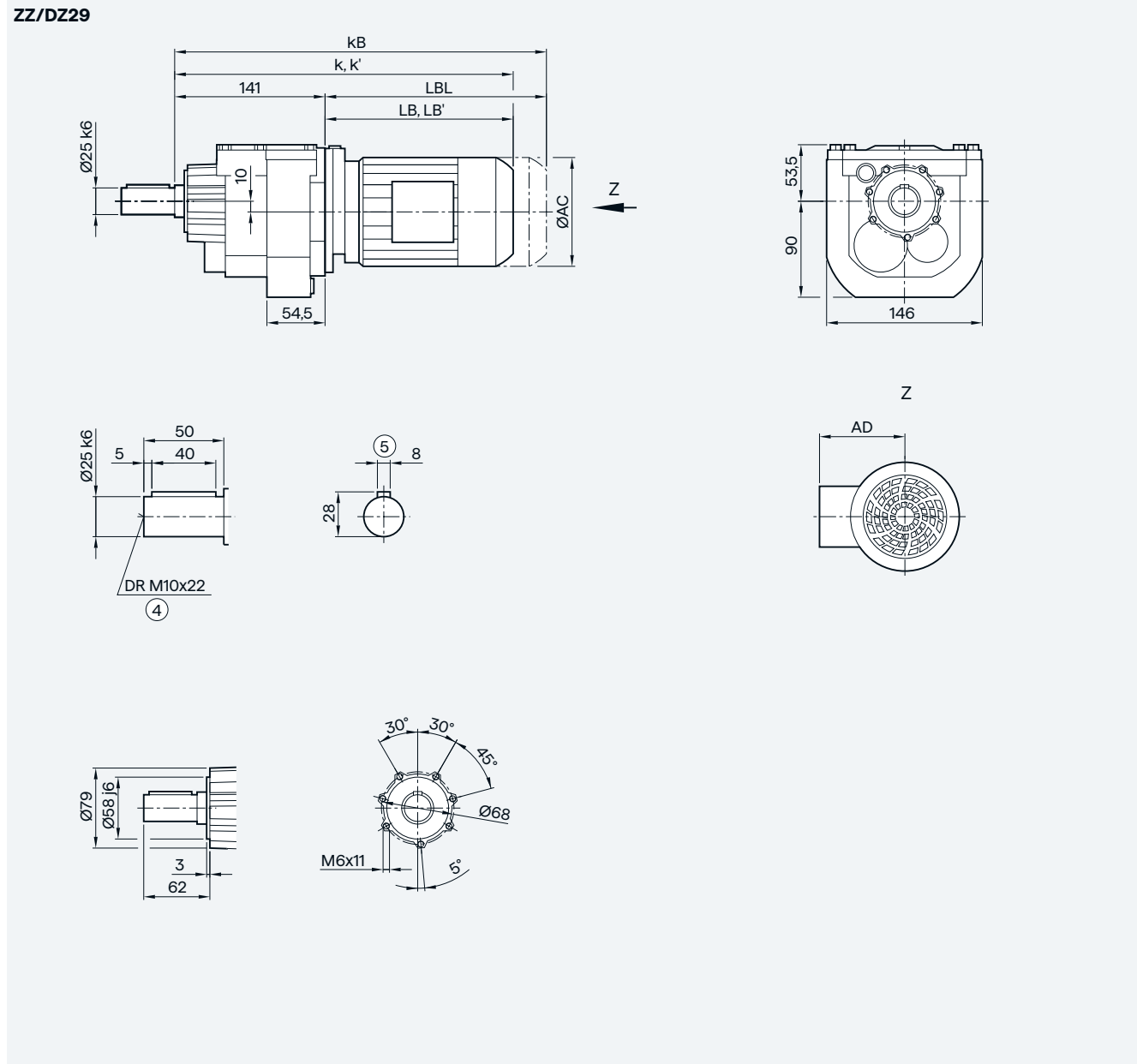
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZZ/DZ29 in a housing flange design



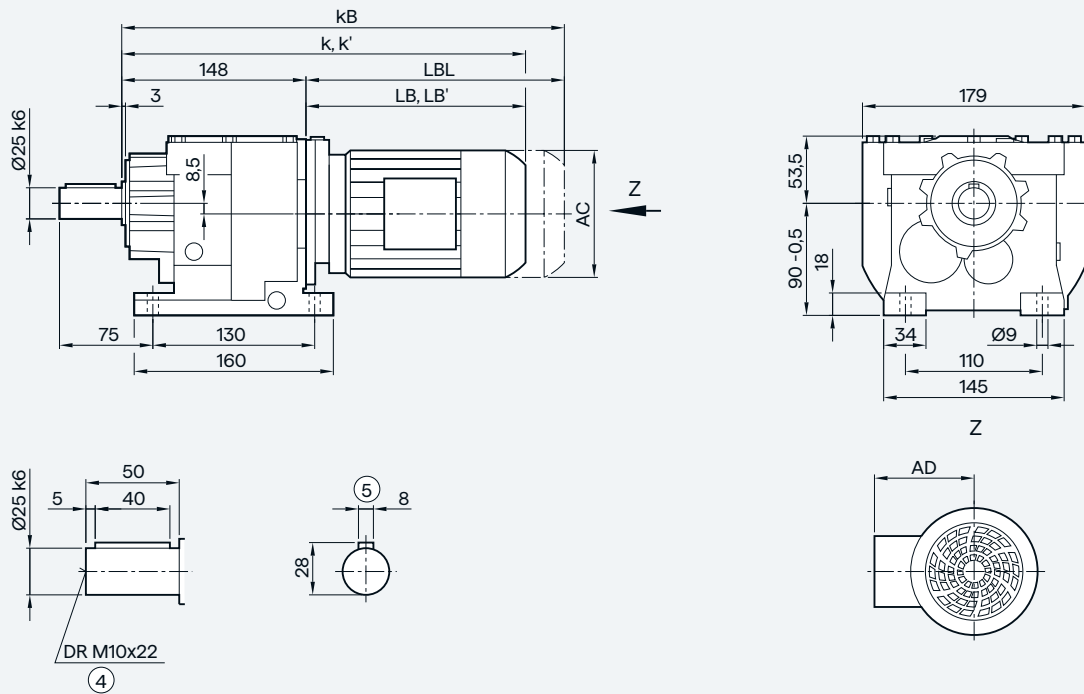
Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	335.0	361.0	367.0	386.0	426.0	431.0	466.0	492.5	532.5	549.0	584.0
k' ²⁾	—	—	—	—	—	—	—	—	—	542.5	577.5
kB	379.5	405.5	422.0	441.0	481.0	491.0	526.0	562.5	602.5	627.5	662.5
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox Z/D39 in a foot-mounted design**Z/D39**

Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	342.0	368.0	374.0	393.0	433.0	438.0	473.0	499.5	539.5	556.0	591.0
k' ²⁾	—	—	—	—	—	—	—	—	—	549.5	584.5
kB	386.5	412.5	429.0	448.0	488.0	498.0	533.0	569.5	609.5	634.5	669.5
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

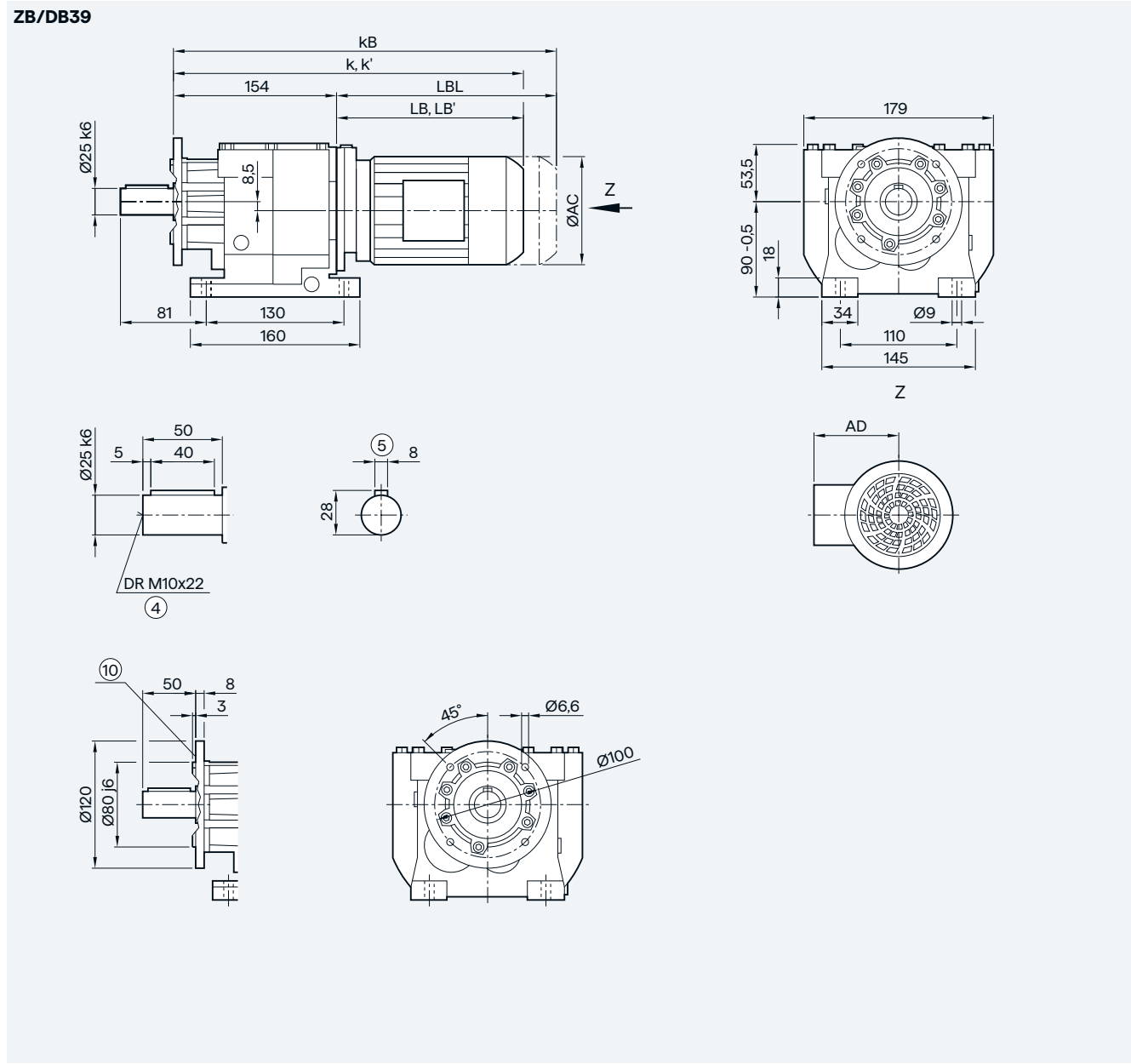
1) AD depends on the motor options, for other dimensions, see page 9/46.

2) k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZB/DB39 in a foot/flange-mounted design



Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	348.0	374.0	380.0	399.0	439.0	444.0	479.0	505.5	545.5	562.0	597.0
k' ²⁾	—	—	—	—	—	—	—	—	—	555.5	590.5
kB	392.5	418.5	435.0	454.0	494.0	504.0	539.0	575.5	615.5	640.5	675.5
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

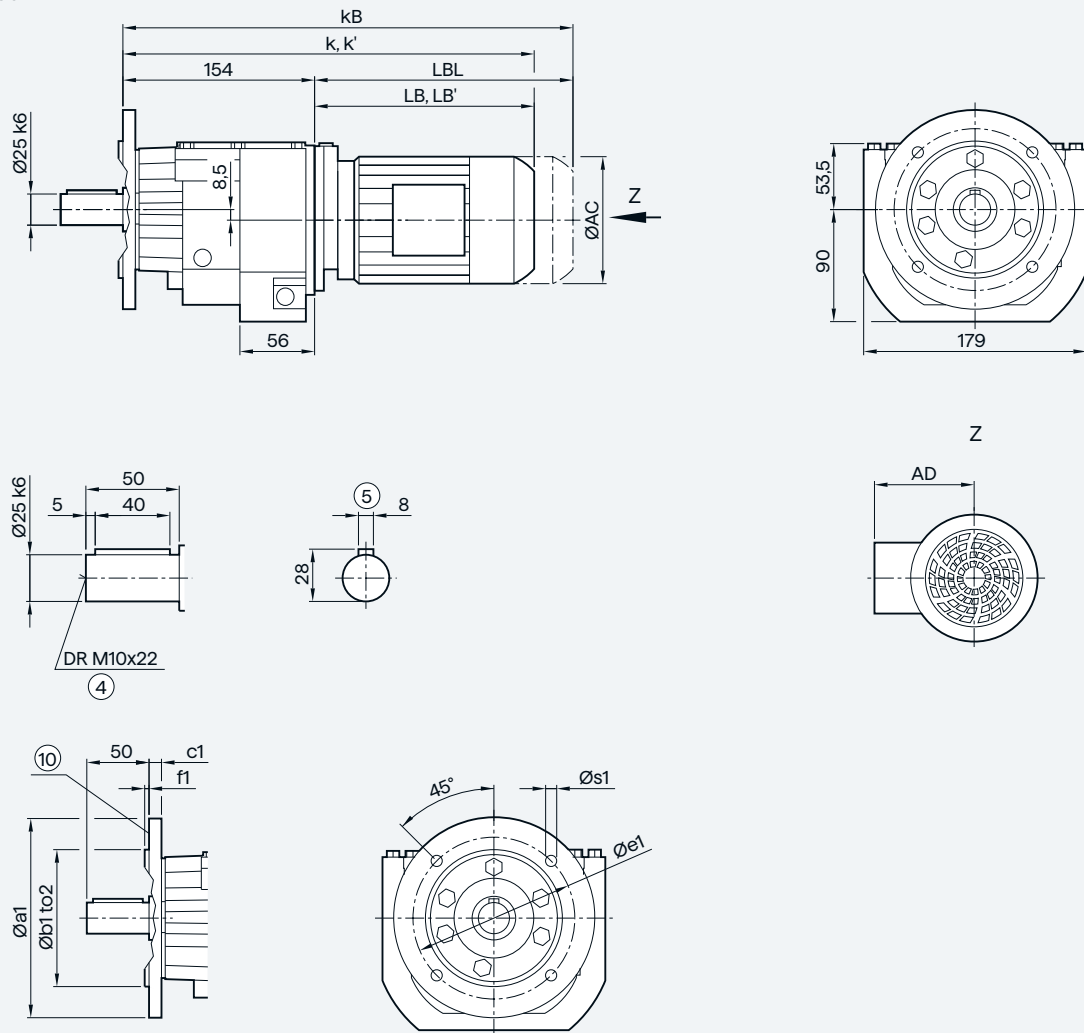
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⊗ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF39 in a flange-mounted design**ZF/DF39**

Flange	a1	b1	to2	c1	e1	f1	s1				
	120	80	j6	8	100	3.0	6.6				
	160	110	j6	10	130	3.5	9.0				
	200	130	j6	12	165	3.5	11.0				
Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	348.0	374.0	380.0	399.0	439.0	444.0	479.0	505.5	545.5	562.0	597.0
k' ²⁾	—	—	—	—	—	—	—	—	—	555.5	590.5
kB	392.5	418.5	435.0	454.0	494.0	504.0	539.0	575.5	615.5	640.5	675.5
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

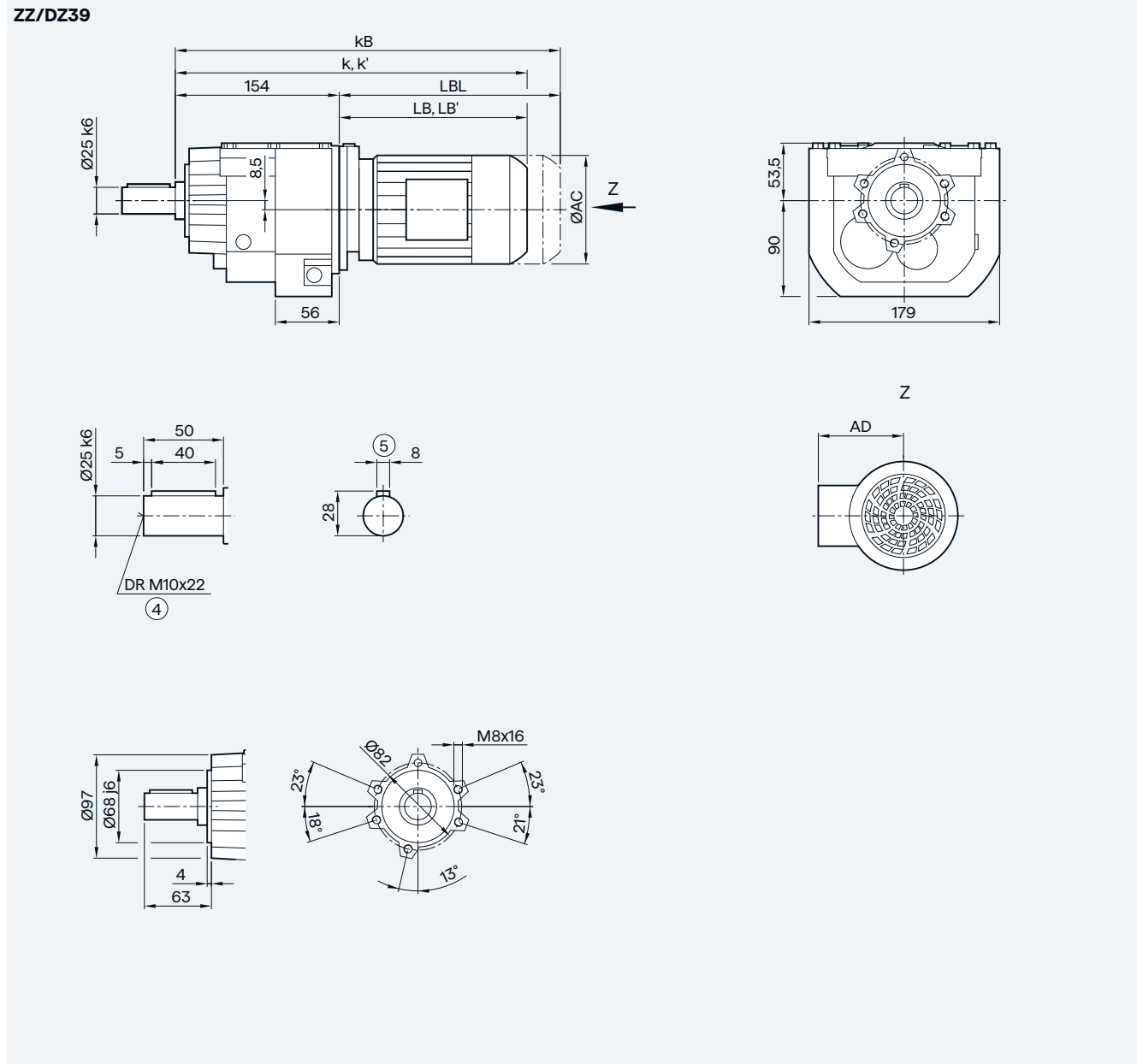
Ⓢ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZZ/DZ39 in a housing flange design



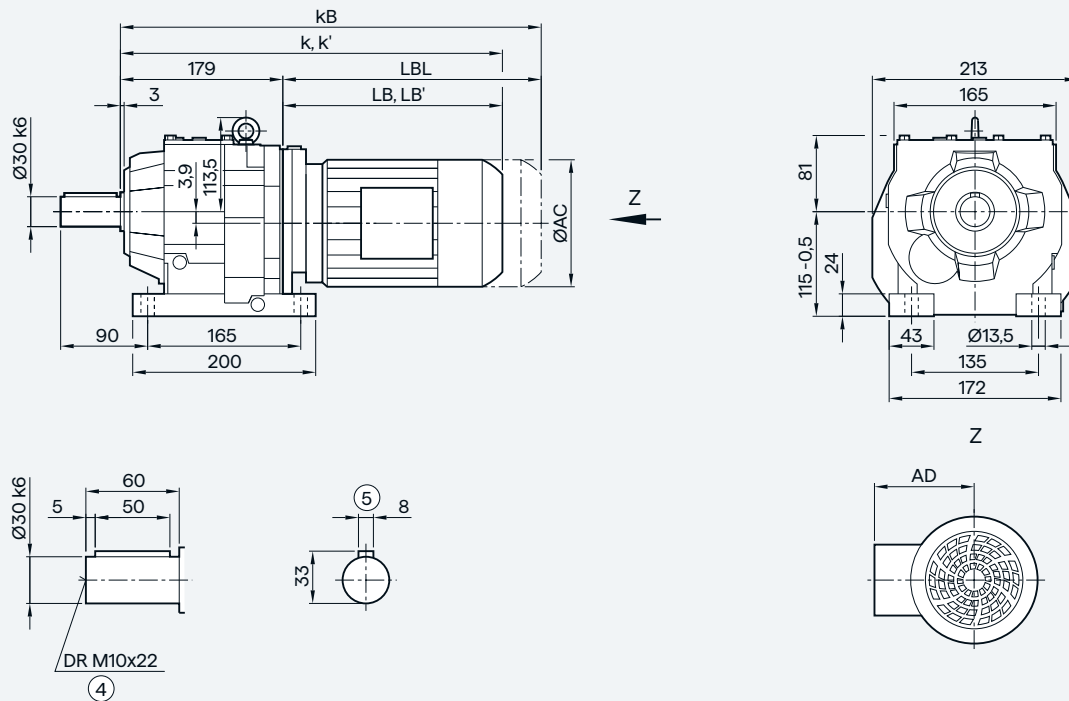
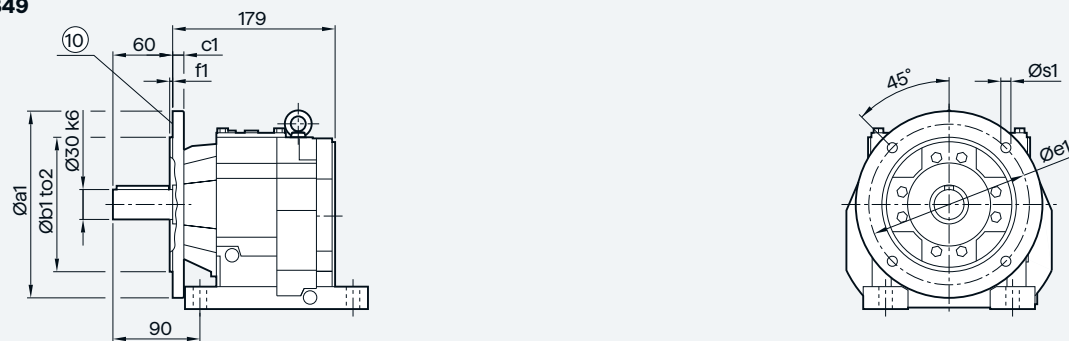
Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	348.0	374.0	380.0	399.0	439.0	444.0	479.0	505.5	545.5	562.0	597.0
k' ²⁾	—	—	—	—	—	—	—	—	—	555.5	590.5
kB	392.5	418.5	435.0	454.0	494.0	504.0	539.0	575.5	615.5	640.5	675.5
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox Z/D49 in a foot-mounted design and ZB/DB49 in a foot/flange-mounted design**D/Z49****DB/ZB49**

Flange	a1	b1	to2	c1	e1	f1	s1								
	140	95	j6	10	115	3.0	9.0								
	160	110	j6	10	130	3.5	9.0								
Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	363.5	389.5	395.5	414.5	454.5	459.5	494.5	521.0	561.0	577.5	612.5	587.5	622.0	640.5	690.5
k' ²⁾	—	—	—	—	—	—	—	—	—	571.0	606.0	576.5	611.0	631.0	681.0
KB	408.0	434.0	450.5	469.5	509.5	519.5	554.5	591.0	631.0	656.0	691.0	660.5	695.0	745.0	795.0
LB	184.5	210.5	216.5	235.5	275.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LB' ²⁾	—	—	—	—	—	—	—	—	—	392.0	427.0	397.5	432.0	452.0	502.0
LBL	229.0	255.0	271.5	290.5	330.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

1) AD depends on the motor options, for other dimensions, see page 9/46.

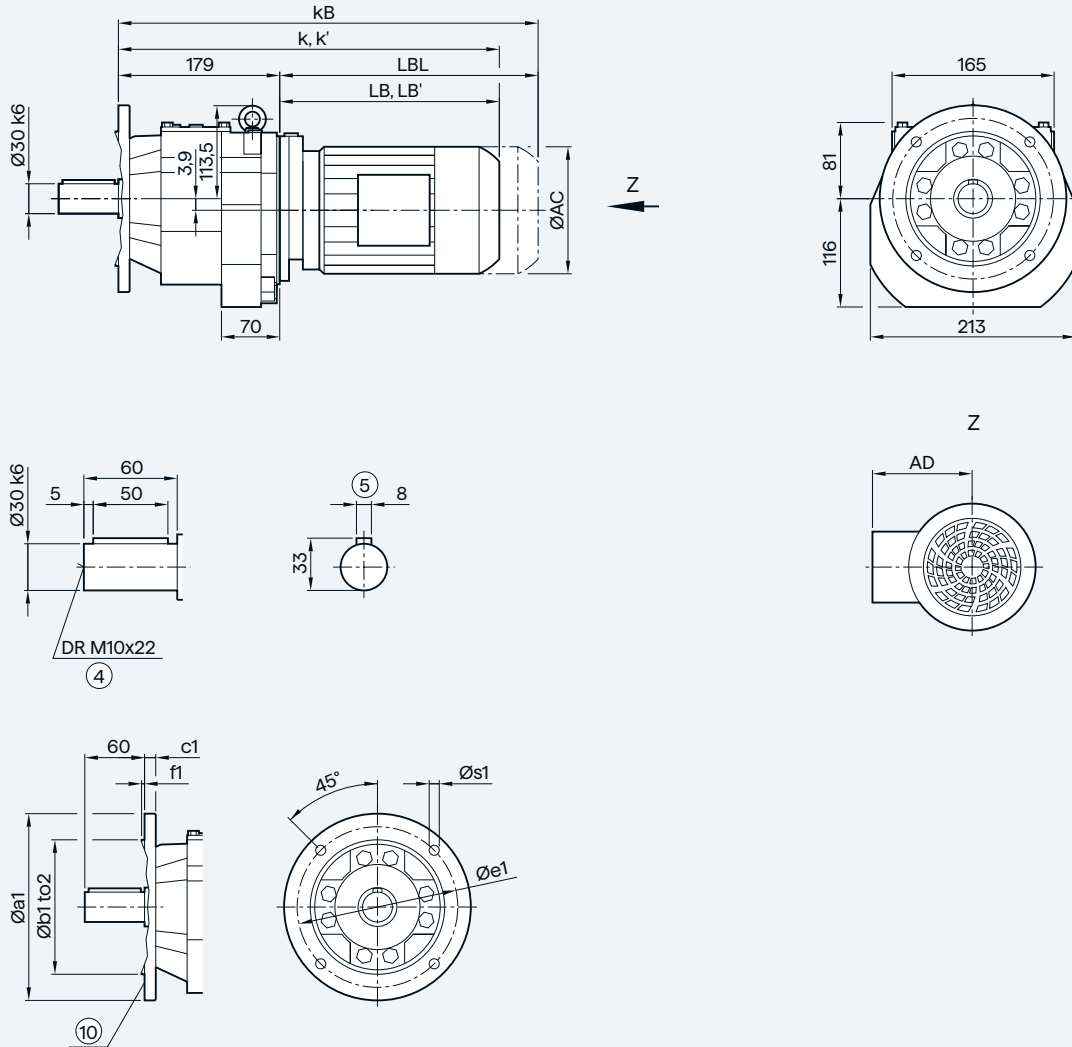
2) k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZF/DF49 in a flange-mounted design

DF/ZF49



Flange	a1	b1	to2	c1	e1	f1	s1
	140	95	j6	10	115	3.0	9.0
	160	110	j6	10	130	3.5	9.0
	200	130	j6	12	165	3.5	11.0

Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	363.5	389.5	395.5	414.5	454.5	459.5	494.5	521.0	561.0	577.5	612.5	587.5	622.0	640.5	690.5
k' ²⁾	—	—	—	—	—	—	—	—	—	571.0	606.0	576.5	611.0	631.0	681.0
kB	408.0	434.0	450.5	469.5	509.5	519.5	554.5	591.0	631.0	656.0	691.0	660.5	695.0	745.0	795.0
LB	184.5	210.5	216.5	235.5	275.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LB' ²⁾	—	—	—	—	—	—	—	—	—	392.0	427.0	397.5	432.0	452.0	502.0
LBL	229.0	255.0	271.5	290.5	330.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

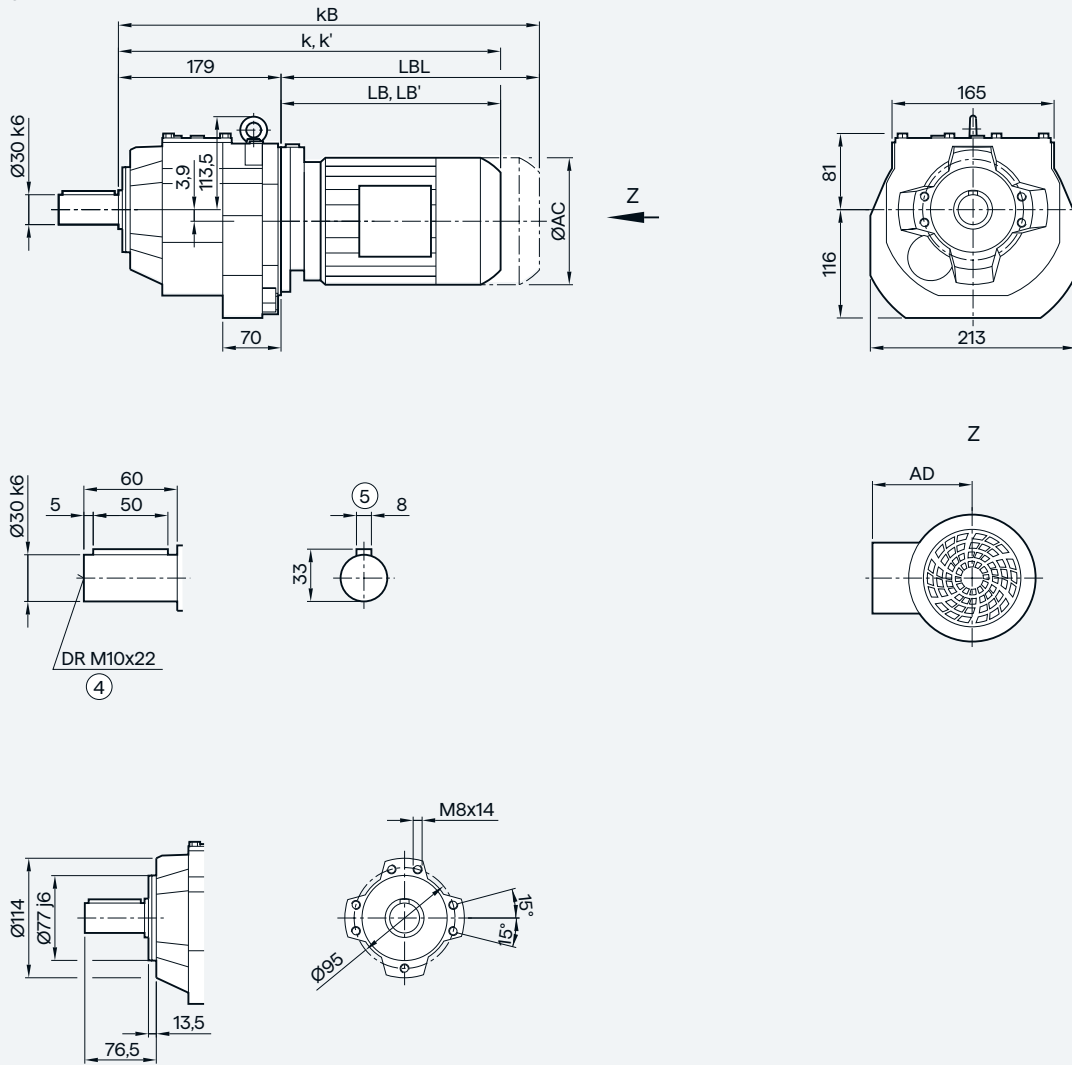
⊗ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZZ/DZ49 in a housing flange design

DZ/ZZ49



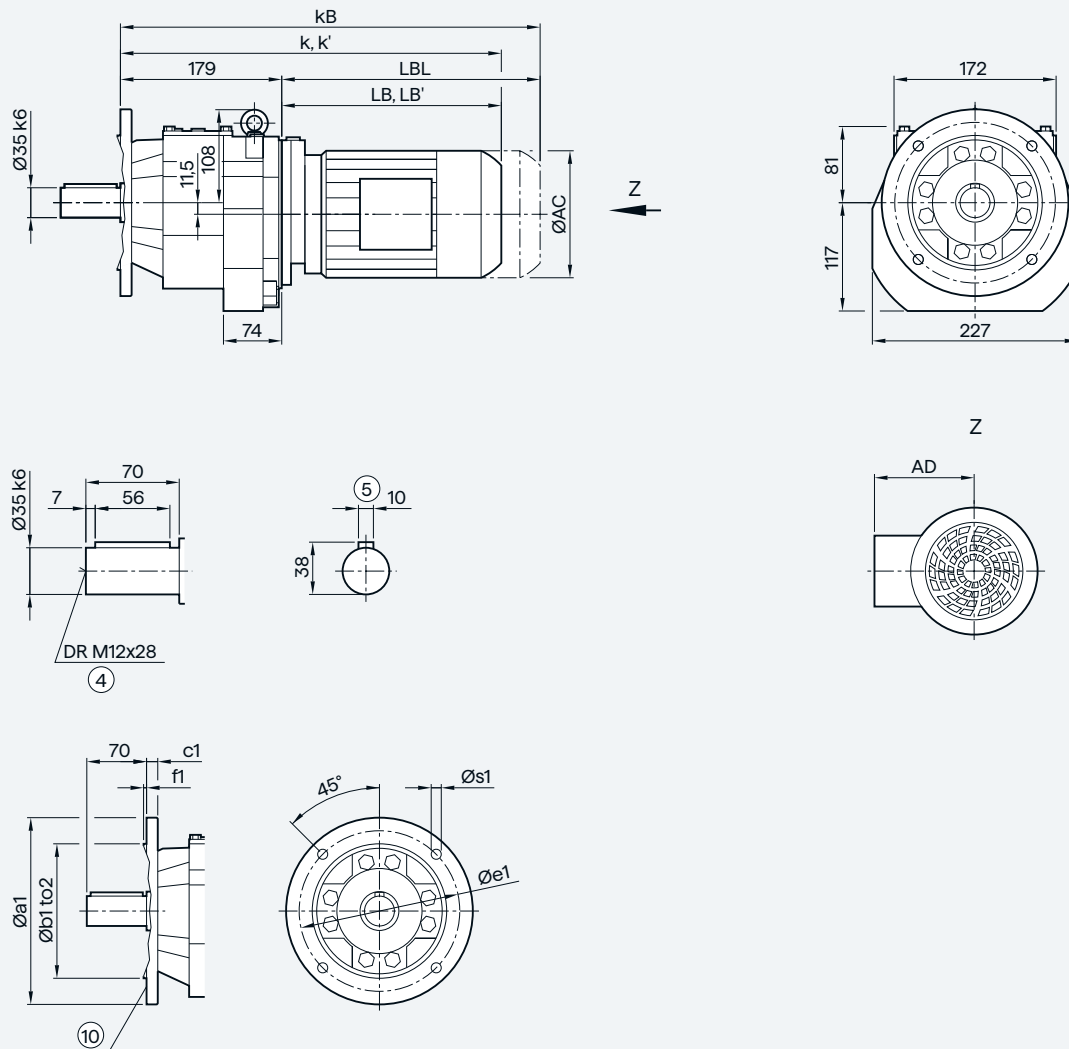
Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	363.5	389.5	395.5	414.5	454.5	459.5	494.5	521.0	561.0	577.5	612.5	587.5	622.0	640.5	690.5
k' ²⁾	—	—	—	—	—	—	—	—	—	571.0	606.0	576.5	611.0	631.0	681.0
KB	408.0	434.0	450.5	469.5	509.5	519.5	554.5	591.0	631.0	656.0	691.0	660.5	695.0	745.0	795.0
LB	184.5	210.5	216.5	235.5	275.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LB' ²⁾	—	—	—	—	—	—	—	—	—	392.0	427.0	397.5	432.0	452.0	502.0
LBL	229.0	255.0	271.5	290.5	330.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF59 in a flange-mounted design**DF/ZF59**

Flange	a1	b1	to2	c1	e1	f1	s1								
	160	110	j6	10	130	3.5	9.0								
	200	130	j6	12	165	3.5	11.0								
	250	180	j6	15	215	4.0	13.5								
Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	363.5	389.5	395.5	414.5	454.5	459.5	494.5	521.0	561.0	577.5	612.5	587.5	622.0	640.5	690.5
k' ²⁾	—	—	—	—	—	—	—	—	—	571.0	606.0	576.5	611.0	631.0	681.0
kB	408.0	434.0	450.5	469.5	509.5	519.5	554.5	591.0	631.0	656.0	691.0	660.5	695.0	745.0	795.0
LB	184.5	210.5	216.5	235.5	275.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LB' ²⁾	—	—	—	—	—	—	—	—	—	392.0	427.0	397.5	432.0	452.0	502.0
LBL	229.0	255.0	271.5	290.5	330.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

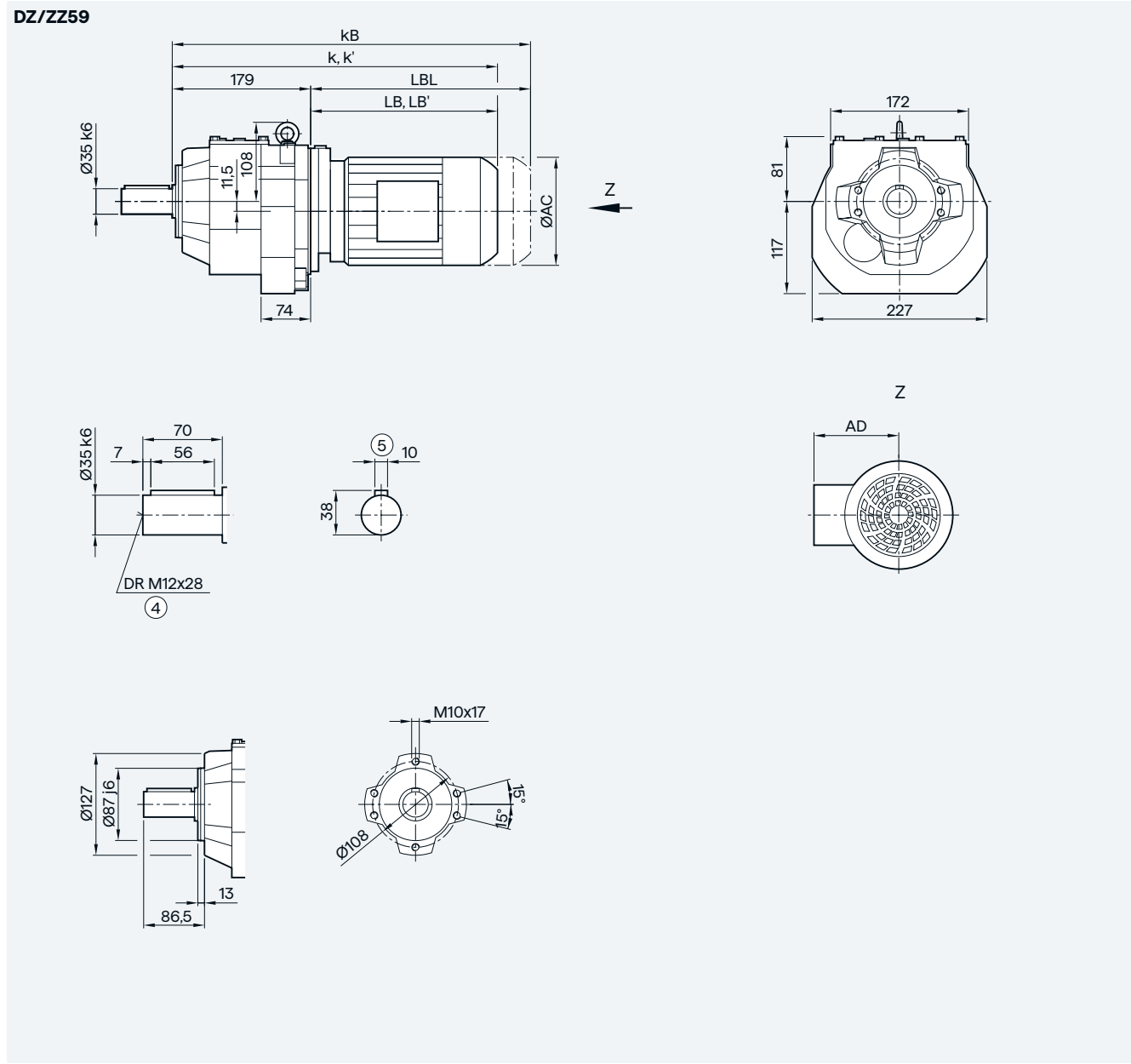
Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZZ/DZ59 in a housing flange design



Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	363.5	389.5	395.5	414.5	454.5	459.5	494.5	521.0	561.0	577.5	612.5	587.5	622.0	640.5	690.5
k' ²⁾	—	—	—	—	—	—	—	—	—	571.0	606.0	576.5	611.0	631.0	681.0
KB	408.0	434.0	450.5	469.5	509.5	519.5	554.5	591.0	631.0	656.0	691.0	660.5	695.0	745.0	795.0
LB	184.5	210.5	216.5	235.5	275.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LB' ²⁾	—	—	—	—	—	—	—	—	—	392.0	427.0	397.5	432.0	452.0	502.0
LBL	229.0	255.0	271.5	290.5	330.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

④ DIN 332

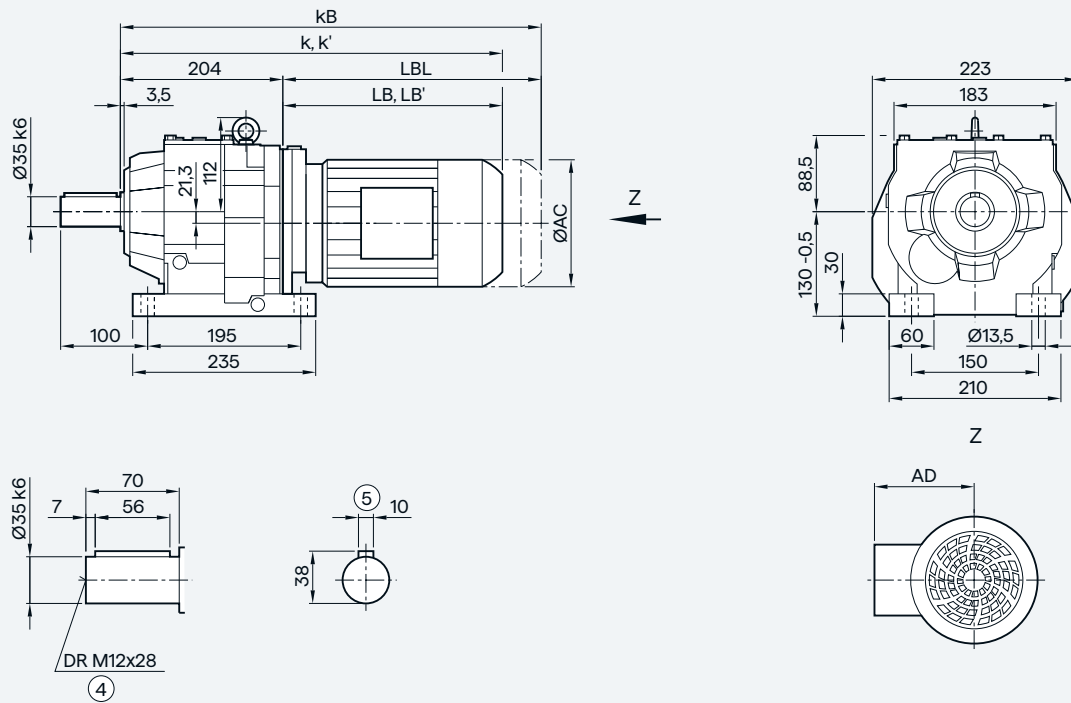
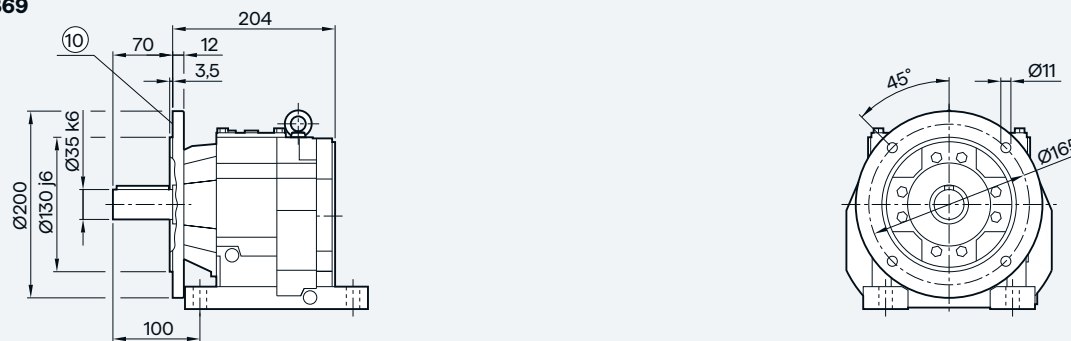
⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox Z/D69 in a foot-mounted design and ZB/DB69 in a foot/flange-mounted design**D/Z69****DB/ZB69**

Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	388.5	414.5	420.5	439.5	479.5	484.5	519.5	546.0	586.0	602.5	637.5	612.5	647.0	665.5	715.5
k' ²⁾	—	—	—	—	—	—	—	—	—	596.0	631.0	601.5	636.0	656.0	706.0
kB	433.0	459.0	475.5	494.5	534.5	544.5	579.5	616.0	656.0	681.0	716.0	685.5	720.0	770.0	820.0
LB	184.5	210.5	216.5	235.5	275.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LB' ²⁾	—	—	—	—	—	—	—	—	—	392.0	427.0	397.5	432.0	452.0	502.0
LBL	229.0	255.0	271.5	290.5	340.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑥ For inner contour, see page 3/189

1) AD depends on the motor options, for other dimensions, see page 9/46.

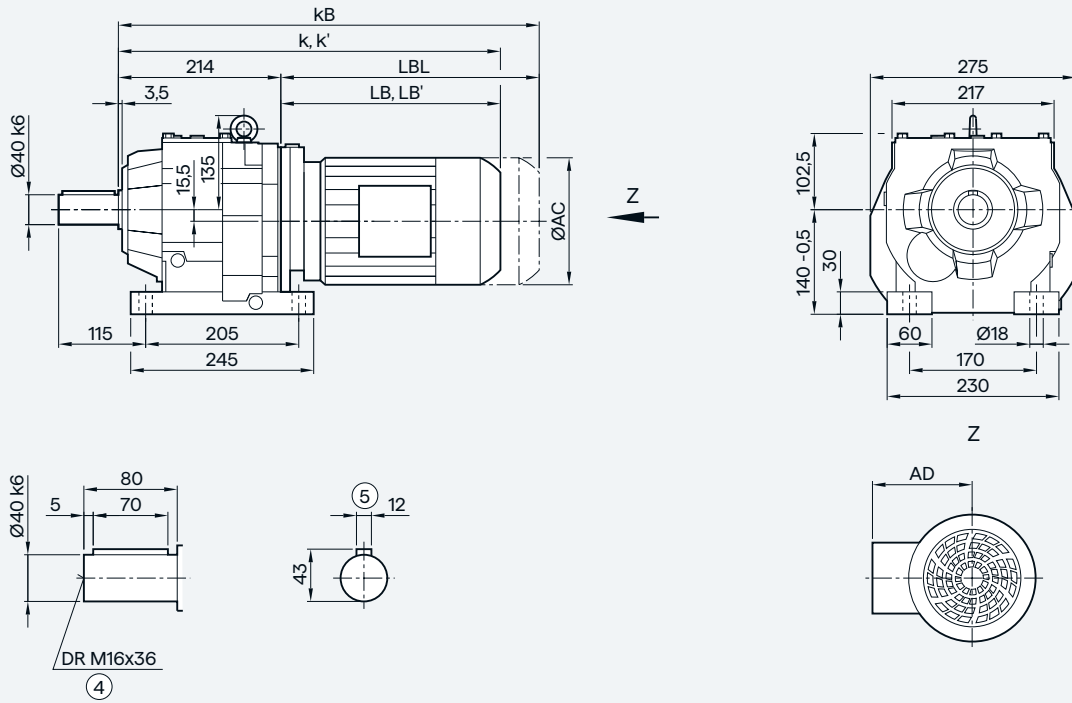
2) k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

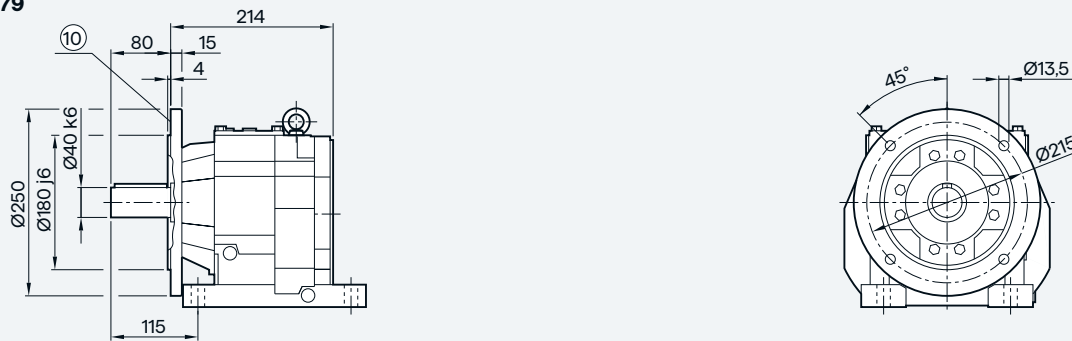
2- and 3-stage

Gearbox Z/D79 in a foot-mounted design and ZB/DB79 in a foot/flange-mounted design

D/Z79



DB/ZB79



Motor	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z
AC	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD ¹⁾	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	428.5	447.5	487.5	488.5	523.5	550.0	590.0	606.5	641.5	616.5	641.5	669.5	719.5	751.5	811.5
k' ²⁾	—	—	—	—	—	—	—	600.0	635.0	605.5	630.5	660.0	710.0	736.5	796.5
kB	483.5	502.5	542.5	548.5	583.5	620.0	660.0	685.0	720.0	689.5	714.5	774.0	824.0	867.5	927.5
LB	214.5	233.5	273.5	274.5	309.5	336.0	376.0	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LB' ²⁾	—	—	—	—	—	—	—	386.0	421.0	391.5	416.5	446.0	496.0	522.5	582.5
LBL	269.5	288.5	328.5	334.5	369.5	406.0	446.0	471.0	506.0	475.5	500.5	560.0	610.0	653.5	713.5

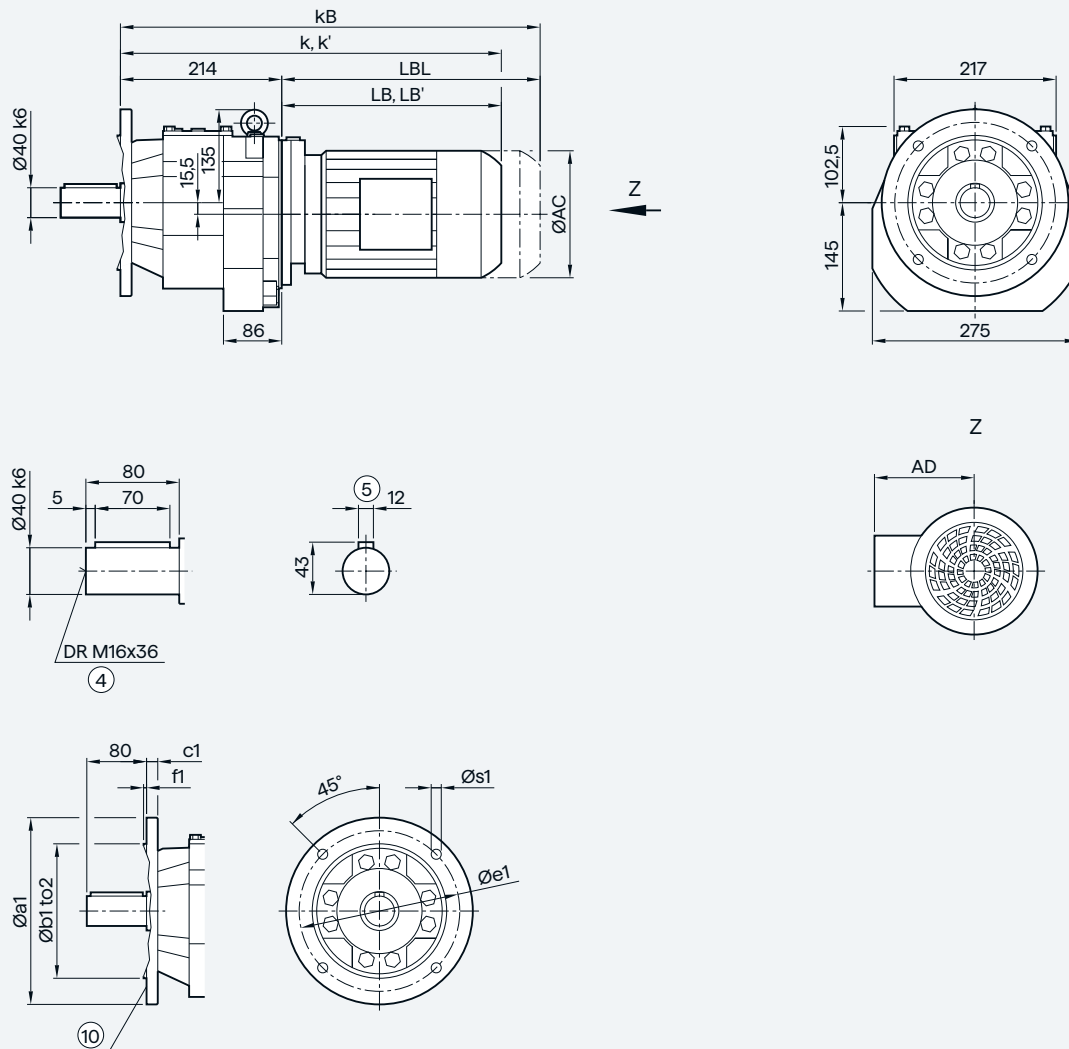
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⊗ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF79 in a flange-mounted design**DF/ZF79**

Flange	a1	b1	to2	c1	e1	f1	s1
	250	180	j6	15	215	4.0	13.5
	300	230	j6	16	265	4.0	13.5
	350	250	j6	16	300	5.0	17.5

Motor	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z
AC	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD ¹⁾	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	428.5	447.5	487.5	488.5	523.5	550.0	590.0	606.5	641.5	616.5	641.5	669.5	719.5	751.5	811.5
k' ²⁾	—	—	—	—	—	—	—	600.0	635.0	605.5	630.5	660.0	710.0	736.5	796.5
kB	483.5	502.5	542.5	548.5	583.5	620.0	660.0	685.0	720.0	689.5	714.5	774.0	824.0	867.5	927.5
LB	214.5	233.5	273.5	274.5	309.5	336.0	376.0	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LB' ²⁾	—	—	—	—	—	—	—	386.0	421.0	391.5	416.5	446.0	496.0	522.5	582.5
LBL	269.5	288.5	328.5	334.5	369.5	406.0	446.0	471.0	506.0	475.5	500.5	560.0	610.0	653.5	713.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

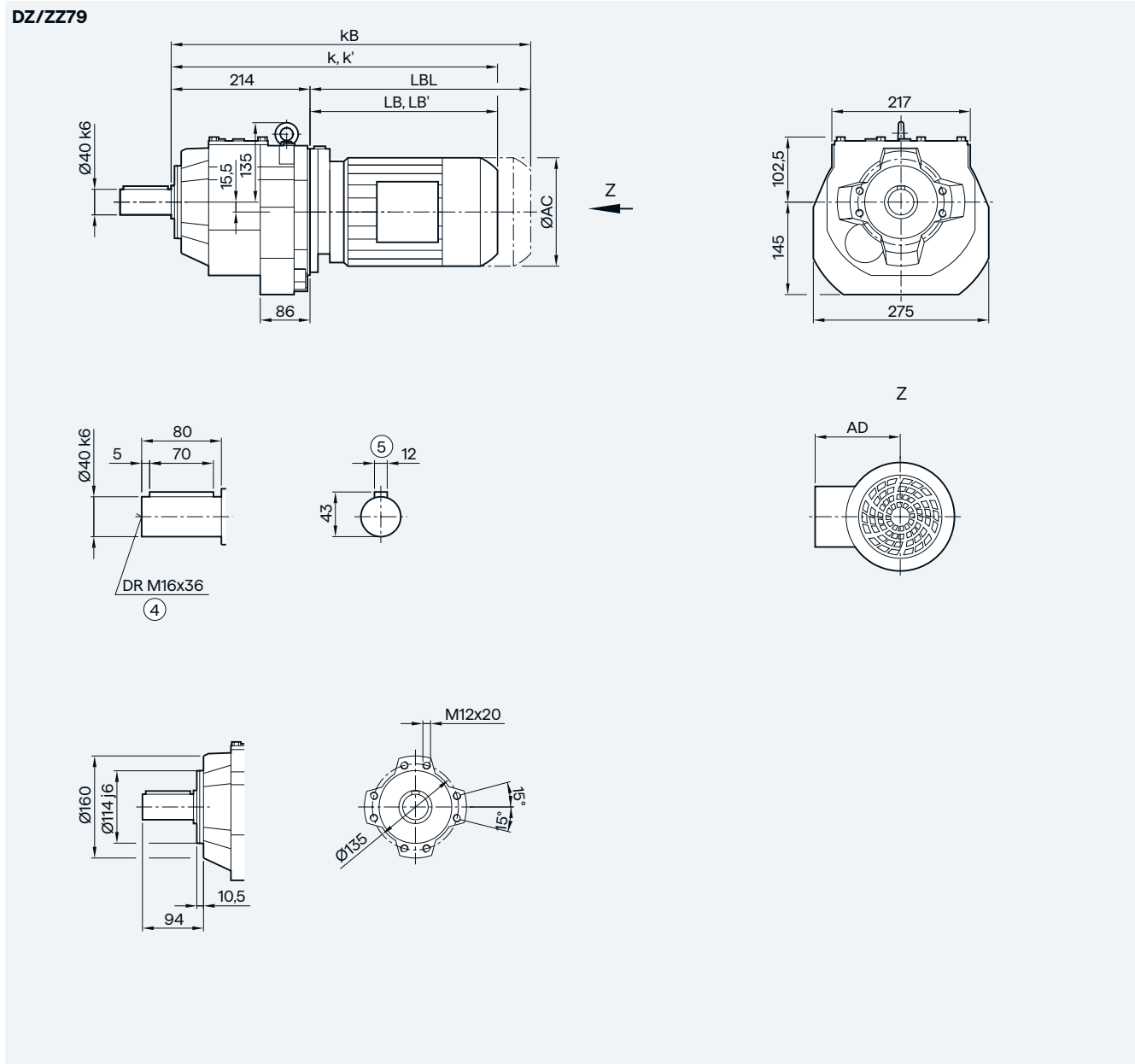
⑩ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZZ/DZ79 in a housing flange design



Motor	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z
AC	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD ¹⁾	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	428.5	447.5	487.5	488.5	523.5	550.0	590.0	606.5	641.5	616.5	641.5	669.5	719.5	751.5	811.5
k' ²⁾	—	—	—	—	—	—	—	600.0	635.0	605.5	630.5	660.0	710.0	736.5	796.5
KB	483.5	502.5	542.5	548.5	583.5	620.0	660.0	685.0	720.0	689.5	714.5	774.0	824.0	867.5	927.5
LB	214.5	233.5	273.5	274.5	309.5	336.0	376.0	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LB' ²⁾	—	—	—	—	—	—	—	386.0	421.0	391.5	416.5	446.0	496.0	522.5	582.5
LBL	269.5	288.5	328.5	334.5	369.5	406.0	446.0	471.0	506.0	475.5	500.5	560.0	610.0	653.5	713.5

④ DIN 332

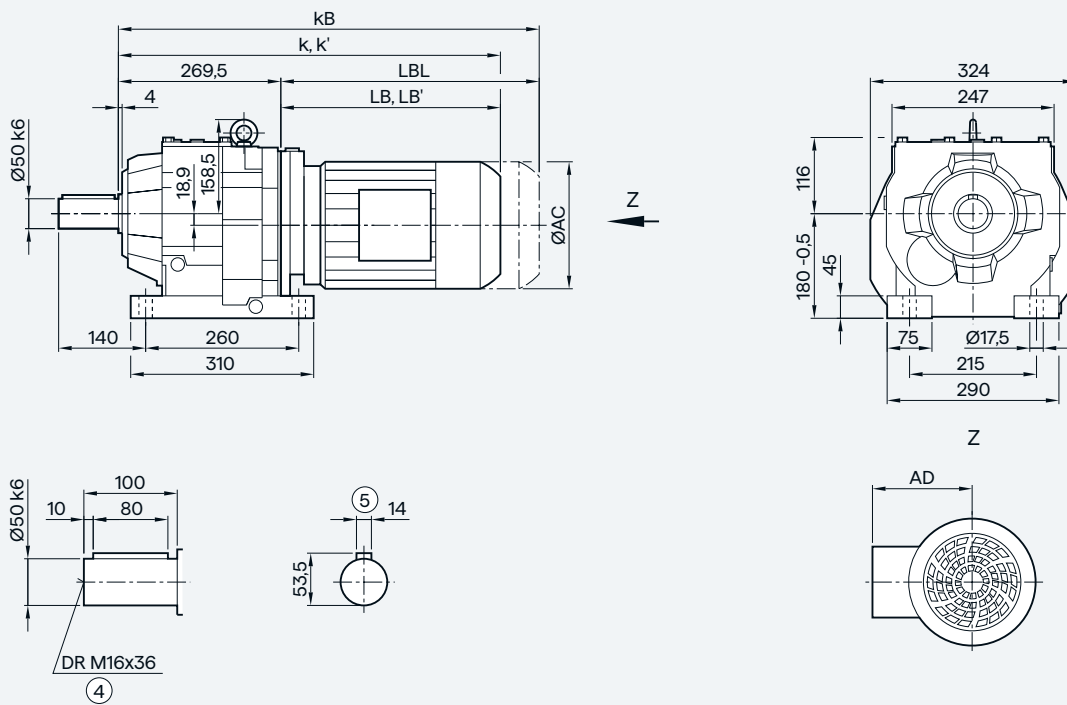
⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

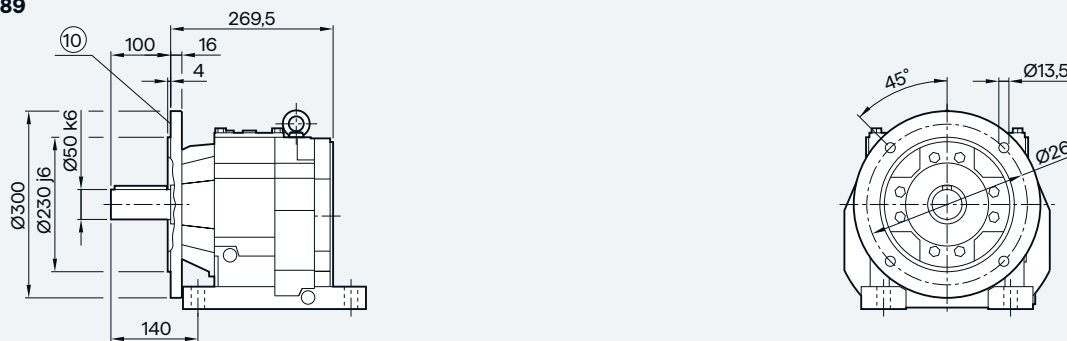
²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox Z/D89 in a foot-mounted design and ZB/DB89 in a foot/flange-mounted design

D/Z89



DB/ZB89



Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	531.0	566.0	592.5	632.5	645.0	680.0	655.0	680.0	708.0	758.0	790.0	850.0	863.0	893.0
k' ²⁾	—	—	—	—	638.5	673.5	644.0	669.0	698.5	748.5	775.0	835.0	—	—
kB	591.0	626.0	662.5	702.5	723.5	758.5	728.0	753.0	812.5	862.5	906.0	966.0	992.0	1022.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⊙ For inner contour, see page 3/189

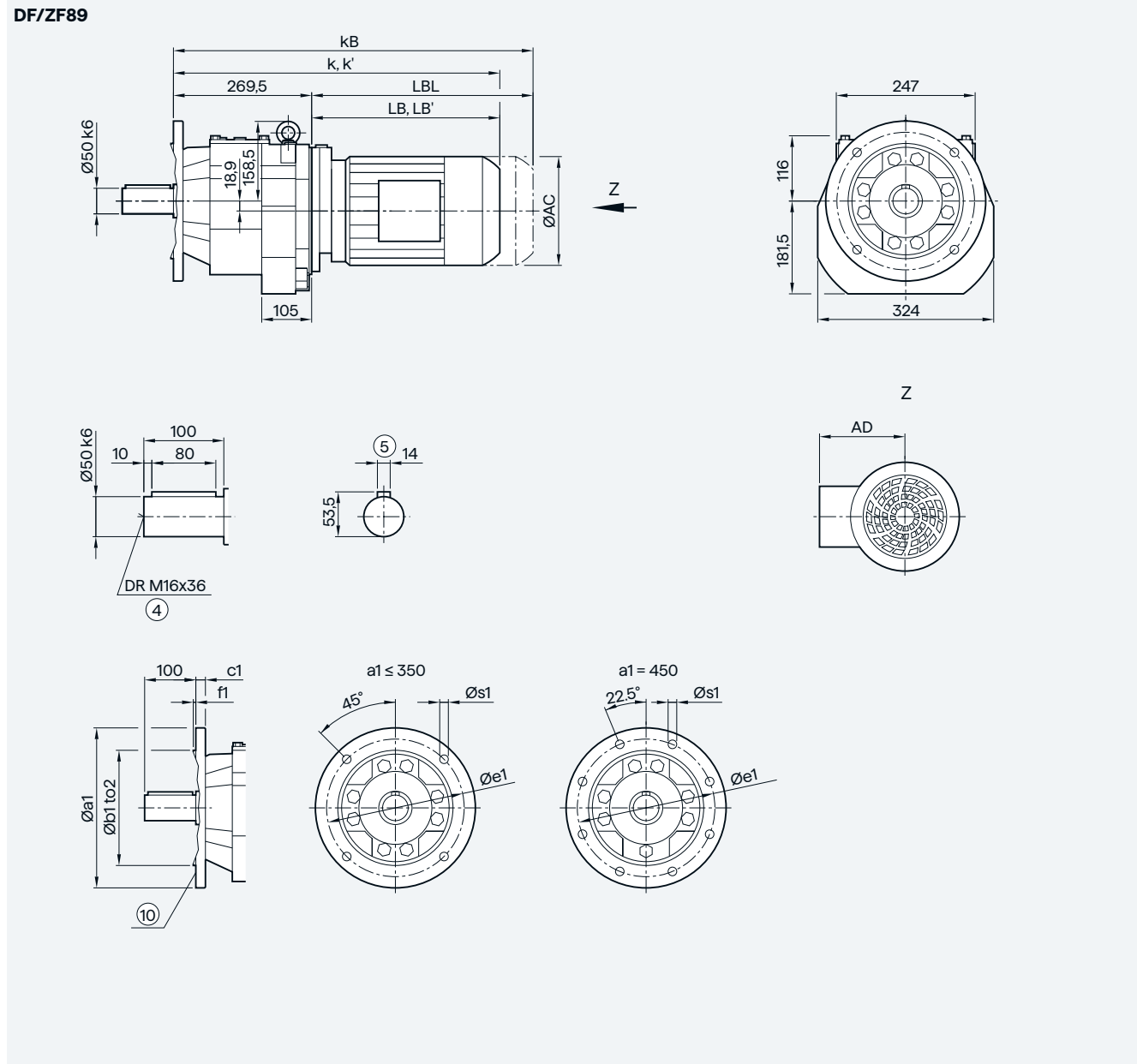
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZF/DF89 in a flange-mounted design



Flange	a1	b1	to2	c1	e1	f1	s1							
	300	230	j6	16	265	4.0	13.5							
	350	250	j6	18	300	5.0	17.5							
	450	350	h6	18	400	5.0	17.5							
Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LE180	LE180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	531.0	566.0	592.5	632.5	645.0	680.0	655.0	680.0	708.0	758.0	790.0	850.0	863.0	893.0
k' ²⁾	—	—	—	—	638.5	673.5	644.0	669.0	698.5	748.5	775.0	835.0	—	—
kB	591.0	626.0	662.5	702.5	723.5	758.5	728.0	753.0	812.5	862.5	906.0	966.0	992.0	1022.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

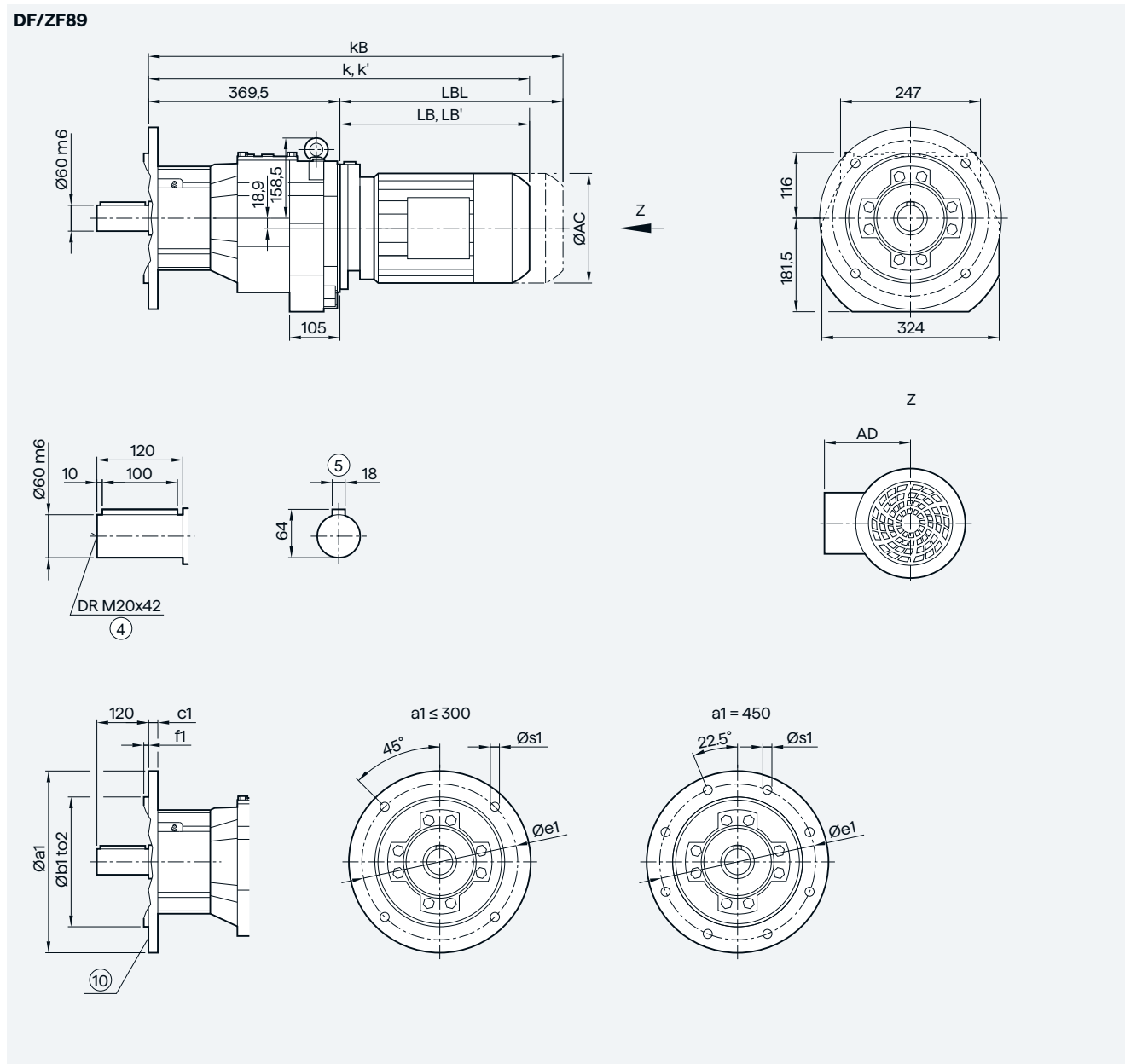
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF89 in a flange-mounted design with VLplus reinforced bearing system (G30)



Flange	a1	b1	to2	c1	e1	f1	s1							
	300	230	j6	16	265	4.0	13.5							
	350	250	j6	18	300	5.0	17.5							
	450	350	h6	18	400	5.0	17.5							
Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	631.0	666.0	692.5	732.5	745.0	780.0	755.0	780.0	808.0	858.0	890.0	950.0	963.0	993.0
k' ²⁾	—	—	—	—	738.5	773.5	744.0	769.0	798.5	848.5	875.0	935.0	—	—
k _B	691.0	726.0	762.5	802.5	823.5	858.5	828.0	853.0	912.5	962.5	1006.0	1066.0	1092.0	1122.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

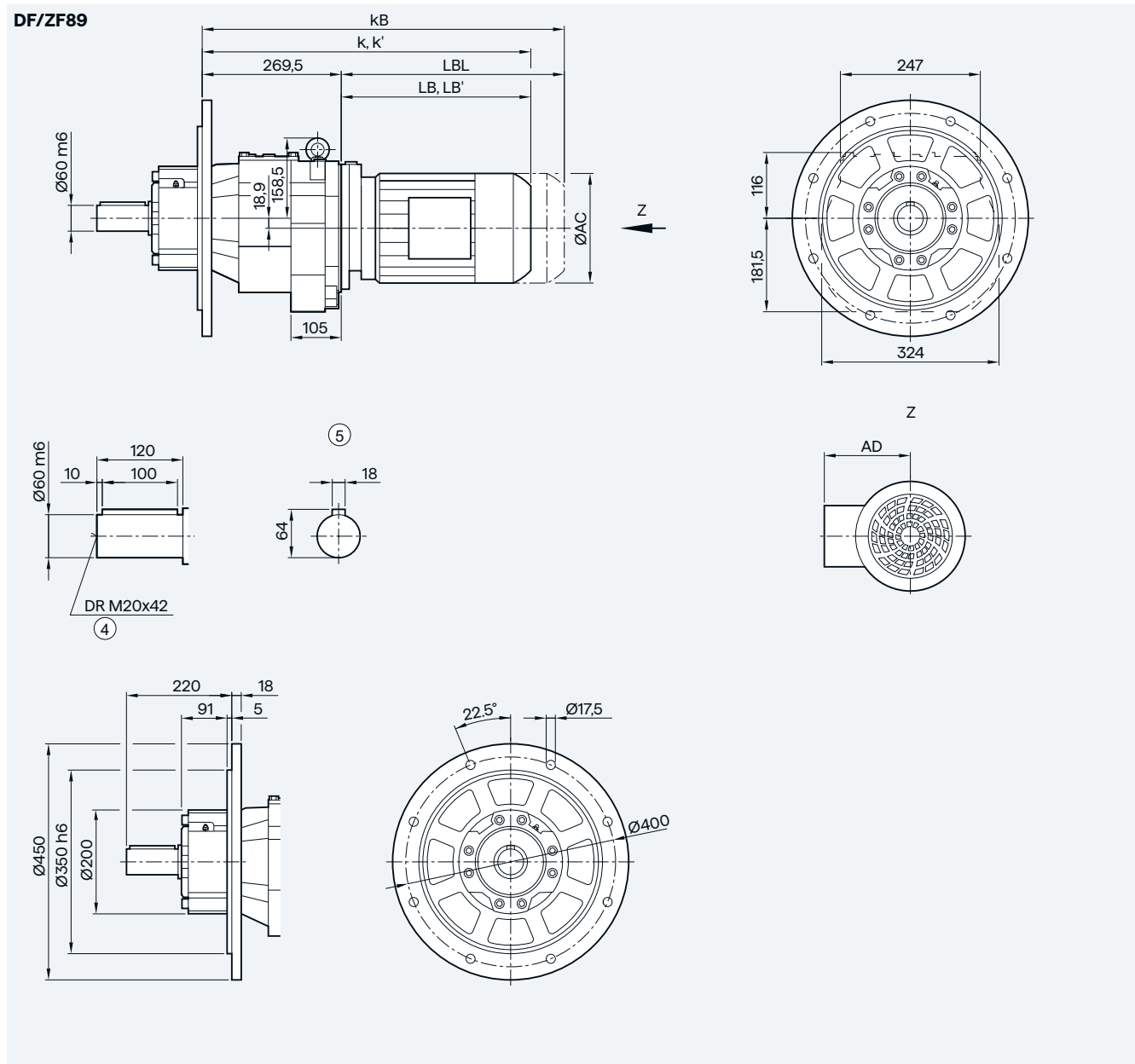
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZF/DF89 in a flange-mounted design with XLplus reinforced bearing system (G31)



Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	531.0	566.0	592.5	632.5	645.0	680.0	655.0	680.0	708.0	758.0	790.0	850.0	863.0	893.0
k' ²⁾	—	—	—	—	638.5	673.5	644.0	669.0	698.5	748.5	775.0	835.0	—	—
kB	591.0	626.0	662.5	702.5	723.5	758.5	728.0	753.0	812.5	862.5	906.0	966.0	992.0	1022.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

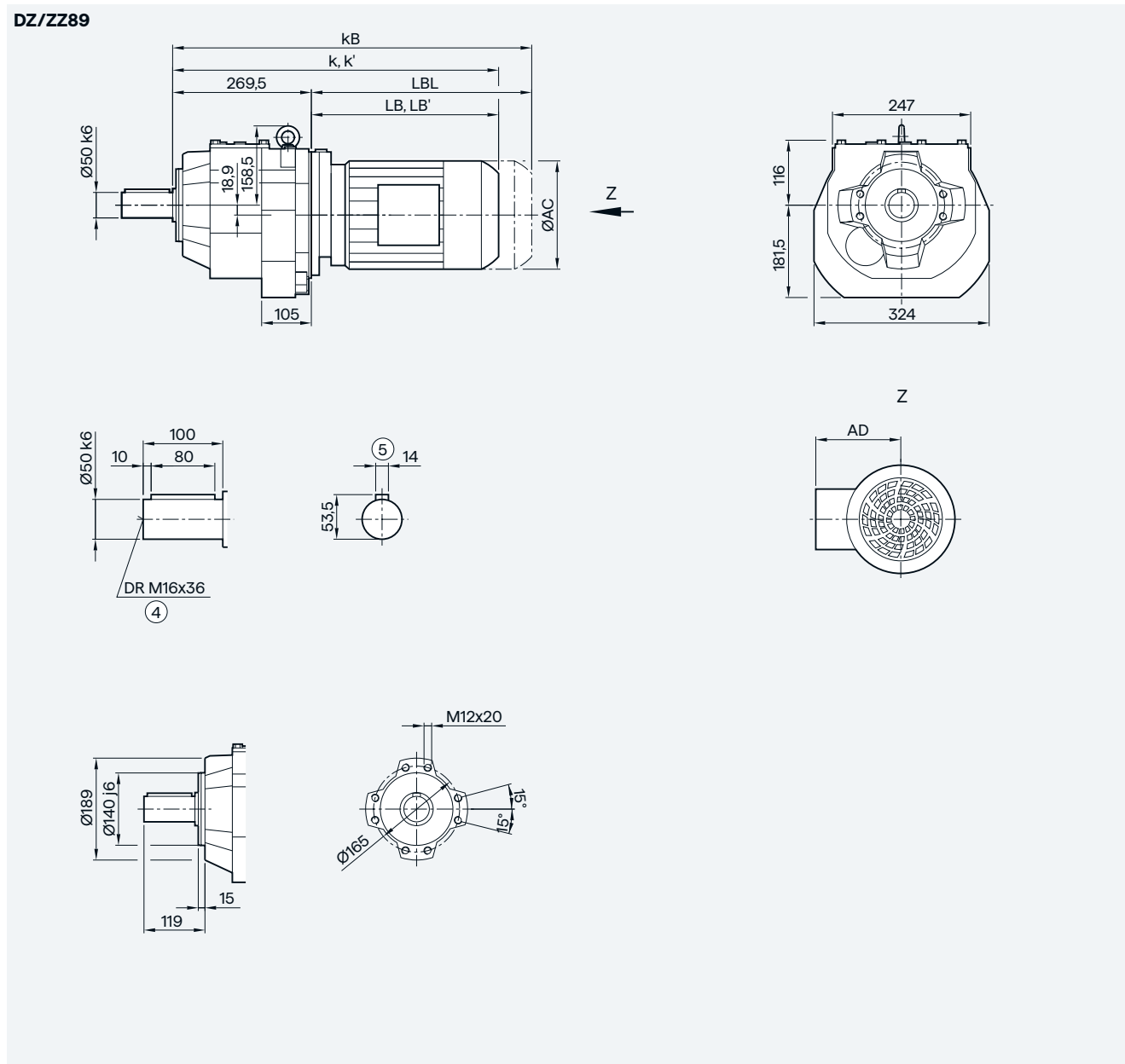
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZZ/DZ89 in a housing flange design



Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	531.0	566.0	592.5	632.5	645.0	680.0	655.0	680.0	708.0	758.0	790.0	850.0	863.0	893.0
k' ²⁾	—	—	—	—	638.5	673.5	644.0	669.0	698.5	748.5	775.0	835.0	—	—
KB	591.0	626.0	662.5	702.5	723.5	758.5	728.0	753.0	812.5	862.5	906.0	966.0	992.0	1022.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

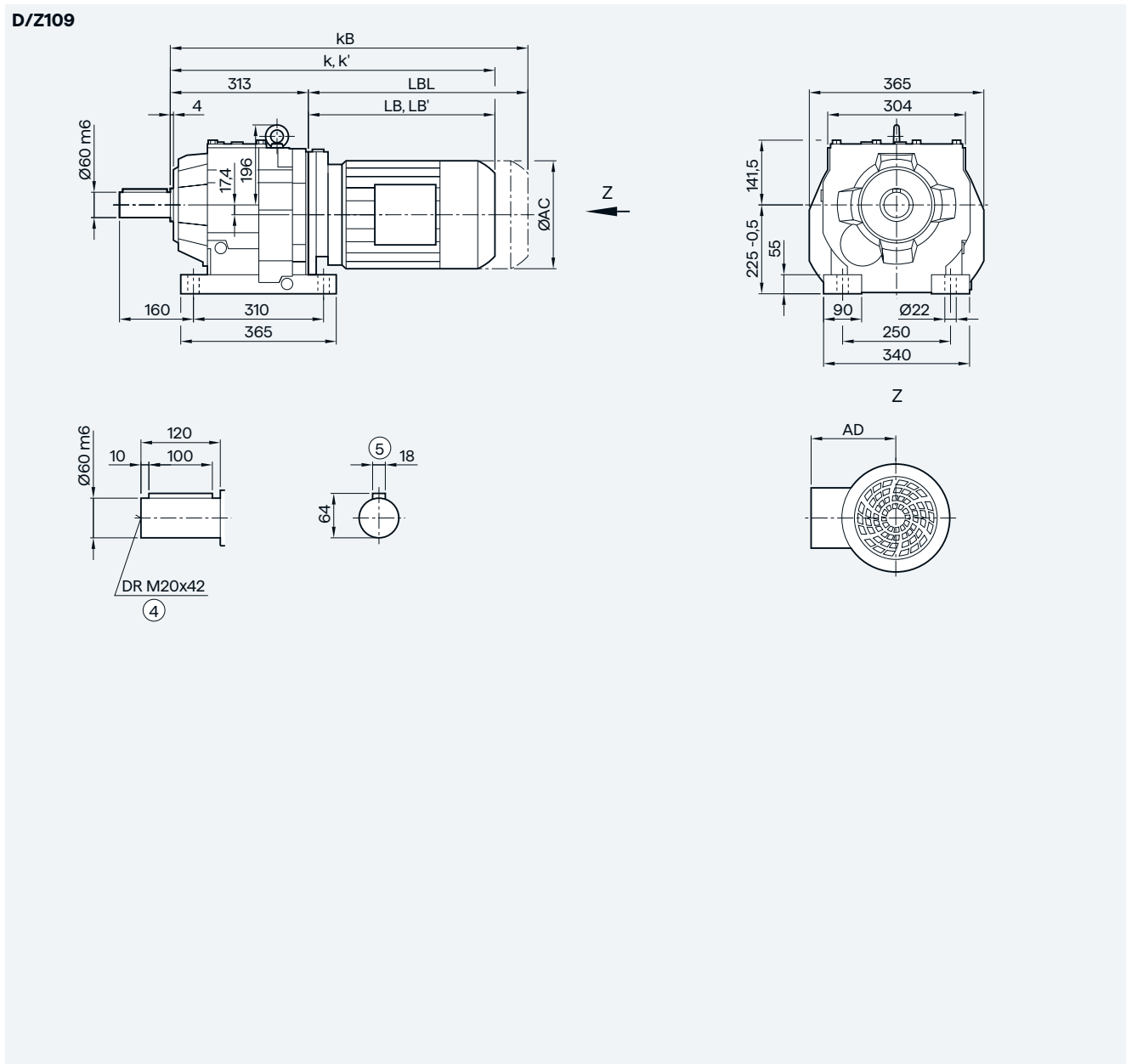
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox Z/D109 in a foot-mounted design



Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0
k	629.0	669.0	679.5	714.5	689.5	714.5	742.5	792.5	824.5	884.5	897.5	927.5	965.5	990.5	1011.0	1071.0
k' ²⁾	—	—	673.0	708.0	678.5	703.5	733.0	783.0	809.5	869.5	—	—	—	—	—	—
kB	699.0	739.0	758.0	793.0	762.5	787.5	847.0	897.0	940.5	1000.5	1026.5	1056.5	1112.5	1137.5	1239.0	1299.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LB' ²⁾	—	—	360.0	395.0	365.5	390.5	420.0	470.0	496.5	556.5	—	—	—	—	—	—
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

④ DIN 332

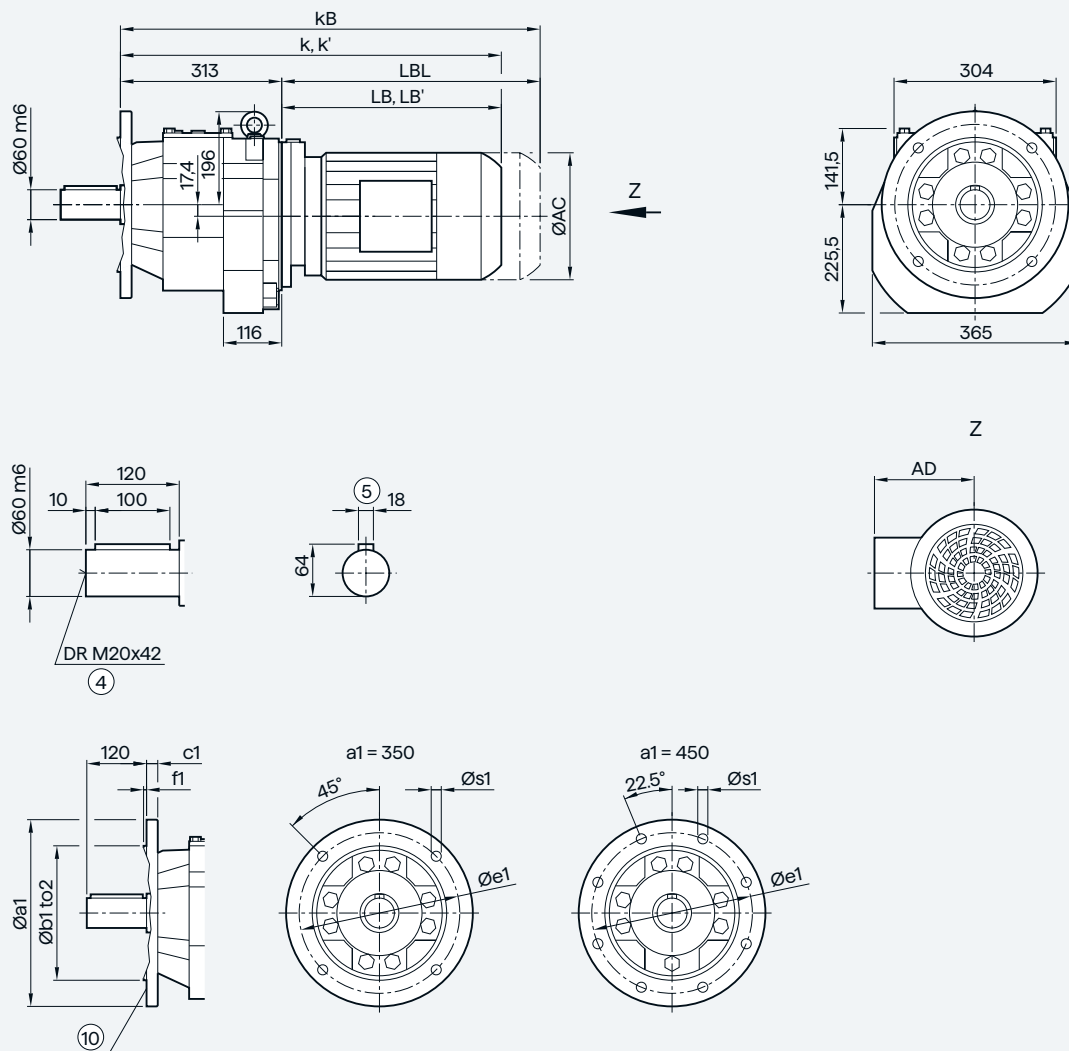
⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF109 in a flange-mounted design

DF/ZF109



Flange	a1	b1	to2	c1	e1	f1	s1									
	350	250	h6	18	300	5	17,5									
	450	350	h6	22	400	5	17,5									
Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y
AC	173,8	173,8	198,0	198,0	222,0	222,0	264,0	264,0	318,0	318,0	352,5	352,5	392,5	392,5	439,0	439,0
AD ¹⁾	154,2	154,2	170,5	170,5	181,5	181,5	207,0	207,0	241,0	241,0	292,0	292,0	315,0	315,0	337,0	337,0
k	629,0	669,0	679,5	714,5	689,5	714,5	742,5	792,5	824,5	884,5	897,5	927,5	965,5	990,5	1011,0	1071,0
k' ²⁾	—	—	673,0	708,0	678,5	703,5	733,0	783,0	809,5	869,5	—	—	—	—	—	—
kB	699,0	739,0	758,0	793,0	762,5	787,5	847,0	897,0	940,5	1000,5	1026,5	1056,5	1112,5	1137,5	1239,0	1299,0
LB	316,0	356,0	366,5	401,5	376,5	401,5	429,5	479,5	511,5	571,5	584,5	614,5	652,5	677,5	698,0	758,0
LB' ²⁾	—	—	360,0	395,0	365,5	390,5	420,0	470,0	496,5	556,5	—	—	—	—	—	—
LBL	386,0	426,0	445,0	480,0	449,5	474,5	534,0	584,0	627,5	687,5	713,5	743,5	799,5	824,5	926,0	986,0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

Ⓣ For inner contour, see page 3/189

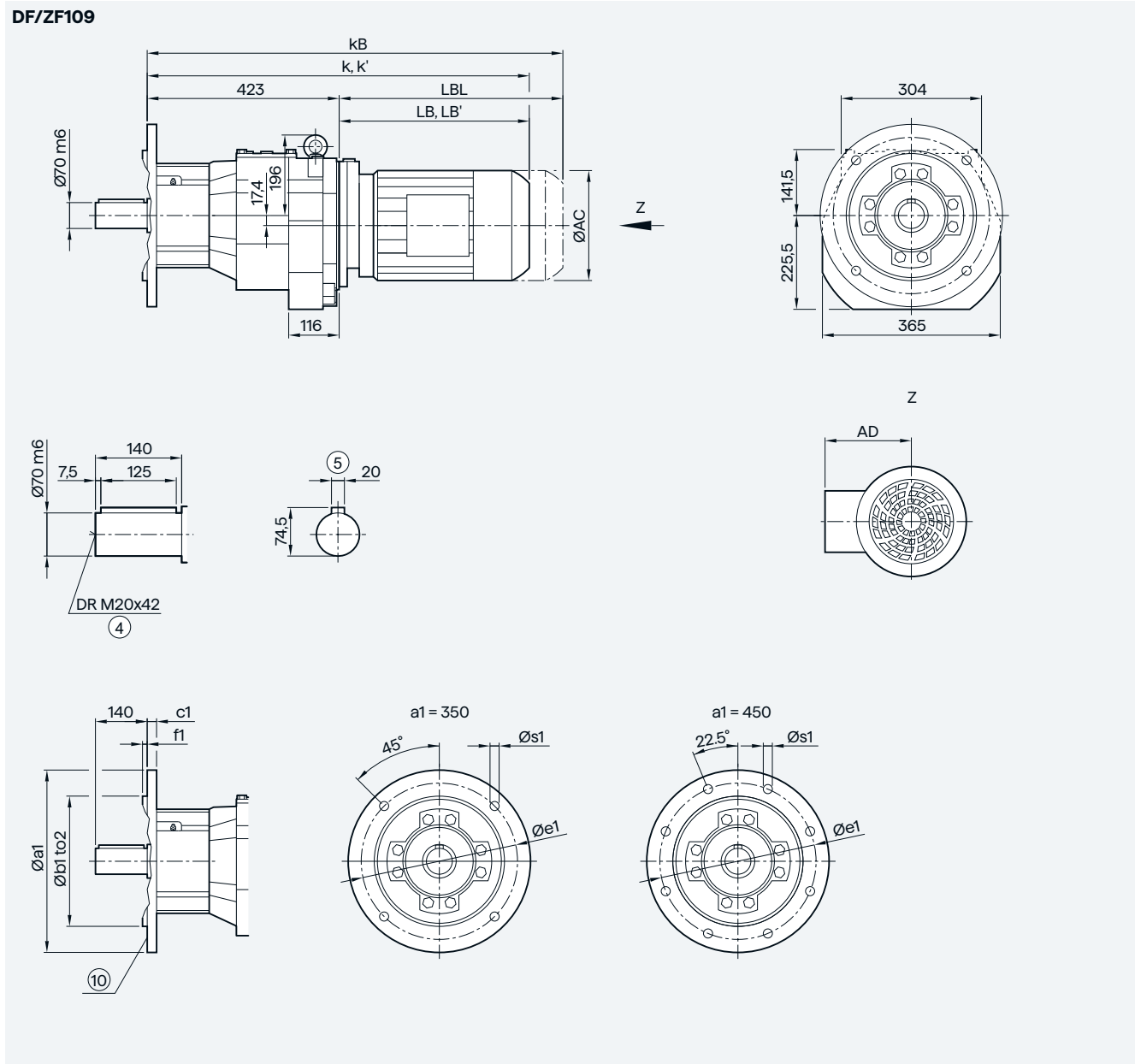
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZF/DF109 in a flange-mounted design with VLplus reinforced bearing system (G30)



Flange	a1	b1	to2	c1	e1	f1	s1									
	350	250	h6	18	300	5	17,5									
	450	350	h6	22	400	5	17,5									
Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0
k	739.0	779.0	789.5	824.5	799.5	824.5	852.5	902.5	934.5	994.5	1 007.5	1037.5	1075.5	1100.5	1121.0	1181.0
k' ²⁾	—	—	783.0	818.0	788.5	813.5	843.0	893.0	919.5	979.5	—	—	—	—	—	—
kB	809.0	849.0	868.0	903.0	872.5	897.5	957.0	1007.0	1050.5	1110.5	1136.5	1166.5	1222.5	1247.5	1349.0	1409.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LB' ²⁾	—	—	360.0	395.0	365.5	390.5	420.0	470.0	496.5	556.5	—	—	—	—	—	—
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

④ DIN 332

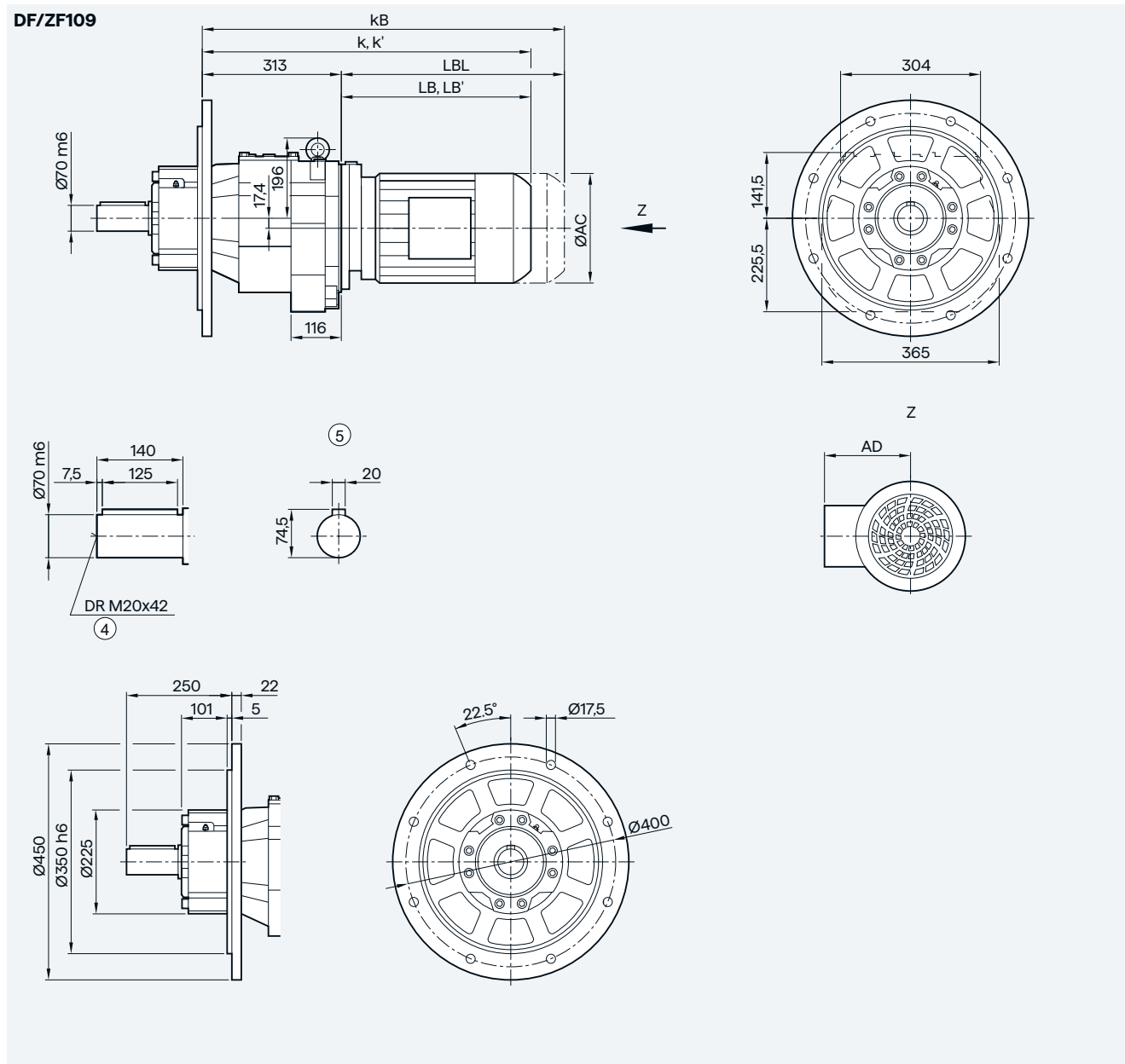
⑤ Feather key/keyway DIN 6885-1

Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF109 in a flange-mounted design with XLplus reinforced bearing system (G31)



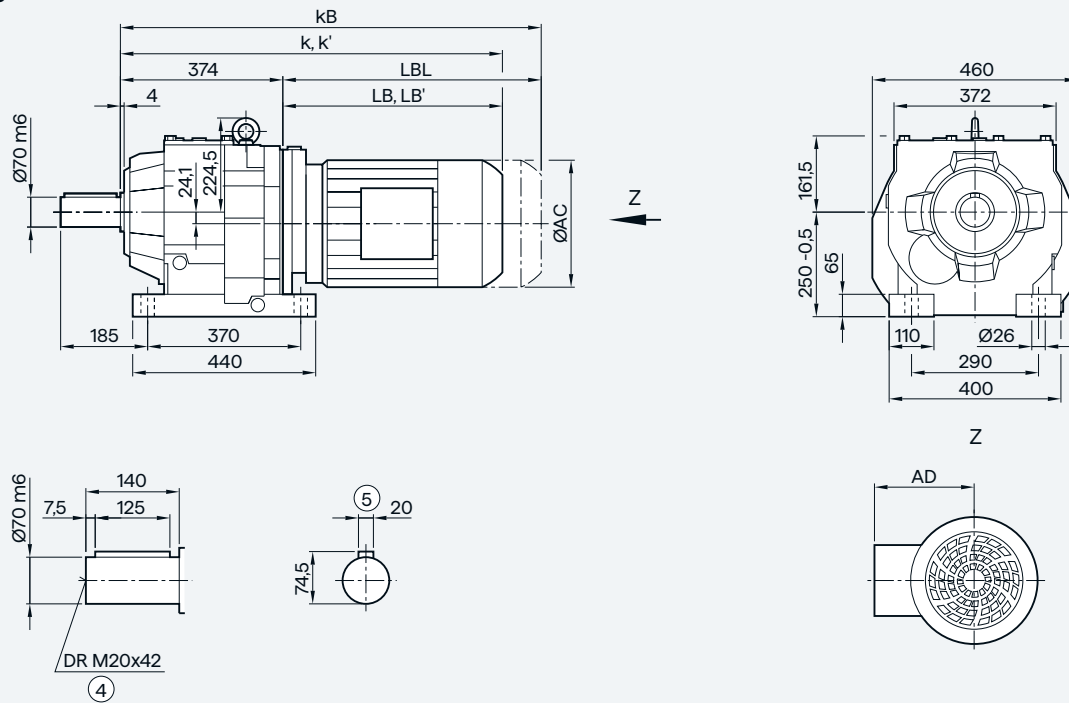
Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0
k	629.0	669.0	679.5	714.5	689.5	714.5	742.5	792.5	824.5	884.5	897.5	927.5	965.5	990.5	1011.0	1071.0
k' ²⁾	—	—	673.0	708.0	678.5	703.5	733.0	783.0	809.5	869.5	—	—	—	—	—	—
kB	699.0	739.0	758.0	793.0	762.5	787.5	847.0	897.0	940.5	1000.5	1026.5	1056.5	1112.5	1137.5	1239.0	1299.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LB' ²⁾	—	—	360.0	395.0	365.5	390.5	420.0	470.0	496.5	556.5	—	—	—	—	—	—
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox Z/D129 in a foot-mounted design**D/Z129**

Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	683.0	723.0	731.5	766.5	741.5	766.5	792.5	842.5	874.5	934.5	947.5	977.5	1015.5	1040.5	1061.0	1121.0	1172.5
k' ²⁾	—	—	725.0	760.0	730.5	755.5	783.0	833.0	859.5	919.5	—	—	—	—	—	—	—
KB	753.0	793.0	810.0	845.0	814.5	839.5	897.0	947.0	990.5	1050.5	1076.5	1106.5	1162.5	1187.5	1289.0	1349.0	1397.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	687.0	747.0	798.5
LB' ²⁾	—	—	351.0	386.0	356.5	381.5	409.0	459.0	485.5	545.5	—	—	—	—	—	—	—
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	915.0	975.0	1023.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

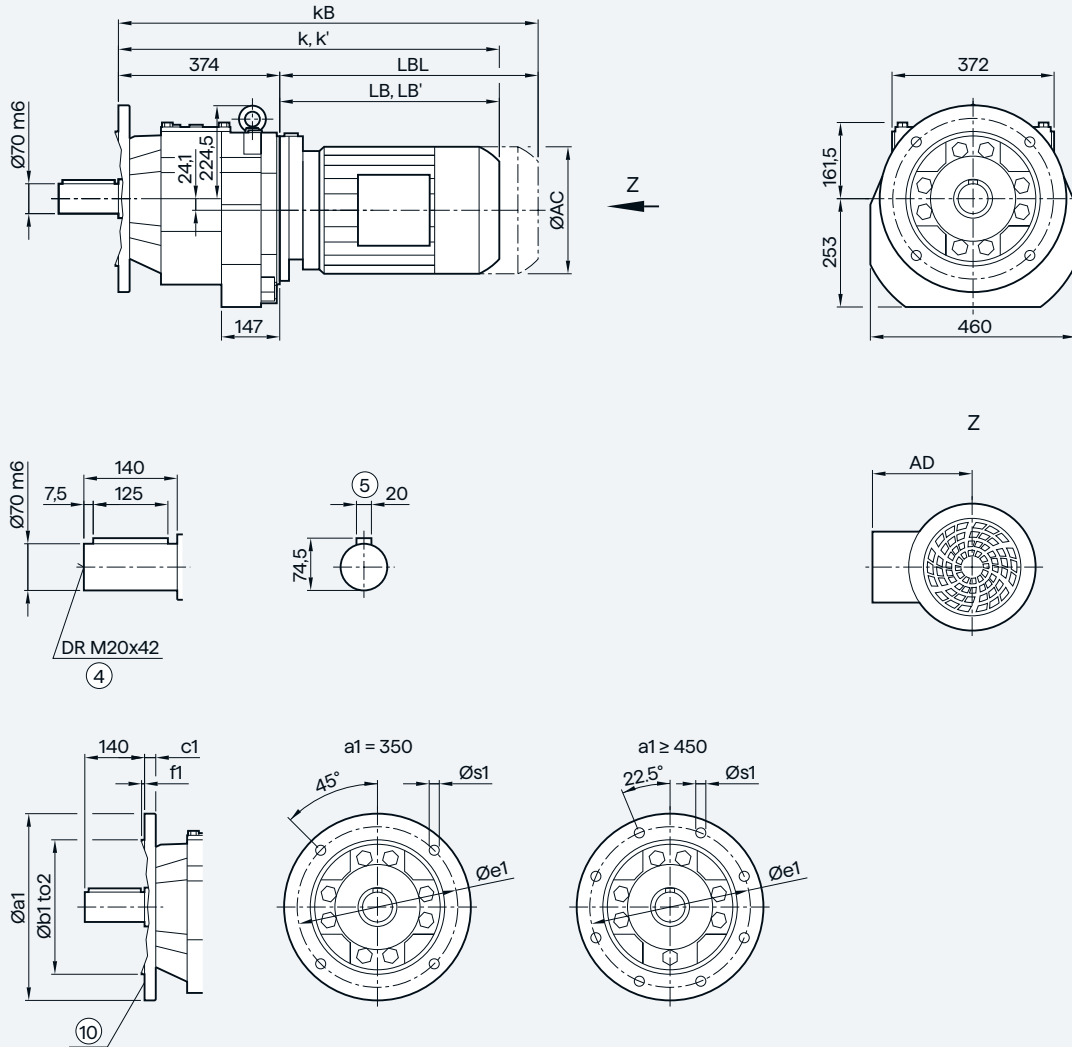
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZF/DF129 in a flange-mounted design

DF/ZF129



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	683.0	723.0	731.5	766.5	741.5	766.5	792.5	842.5	874.5	934.5	947.5	977.5	1015.5	1040.5	1061.0	1121.0	1172.5
k' ²⁾	—	—	725.0	760.0	730.5	755.5	783.0	833.0	859.5	919.5	—	—	—	—	—	—	—
kB	753.0	793.0	810.0	845.0	814.5	839.5	897.0	947.0	990.5	1050.5	1076.5	1106.5	1162.5	1187.5	1289.0	1349.0	1397.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	687.0	747.0	798.5
LB' ²⁾	—	—	351.0	386.0	356.5	381.5	409.0	459.0	485.5	545.5	—	—	—	—	—	—	—
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	915.0	975.0	1023.5

④ DIN 332

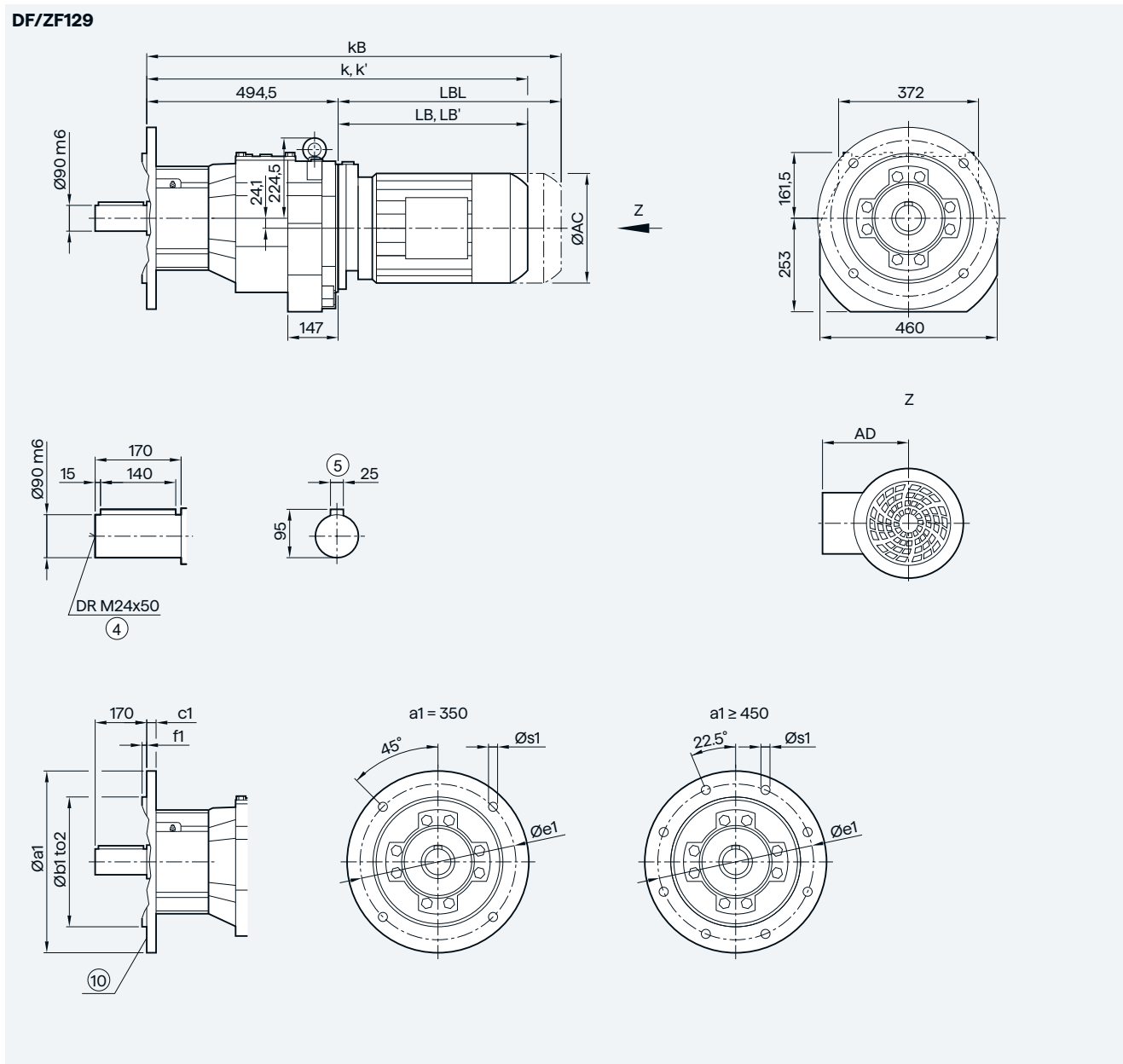
⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF129 in a flange-mounted design with VLplus reinforced bearing system (G30)



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	803.0	843.0	851.5	886.5	861.5	886.5	912.5	962.5	994.5	1054.5	1067.5	1097.5	1135.5	1160.5	1181.0	1241.0	1292.5
k' ²⁾	—	—	845.0	880.0	850.5	875.5	903.0	953.0	979.5	1039.5	—	—	—	—	—	—	—
k _B	873.0	913.0	930.0	965.0	934.5	959.5	1017.0	1067.0	1110.5	1170.5	1196.5	1226.5	1282.5	1307.5	1409.0	1469.0	1517.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	687.0	747.0	798.5
LB' ²⁾	—	—	351.0	386.0	356.5	381.5	409.0	459.0	485.5	545.5	—	—	—	—	—	—	—
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	915.0	975.0	1023.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

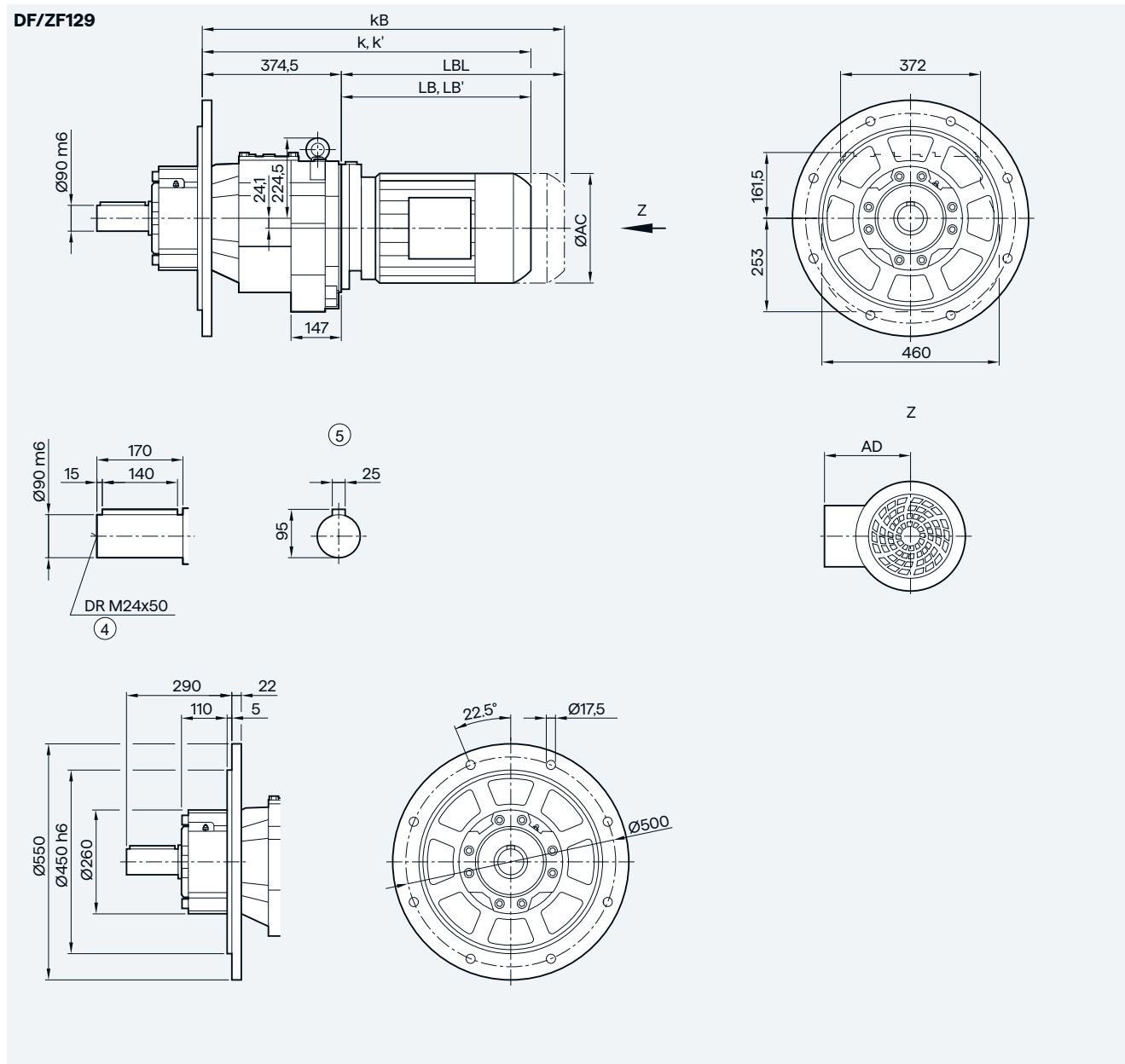
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZF/DF129 in a flange-mounted design with XLplus reinforced bearing system (G31)



Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	683.0	723.0	731.5	766.5	741.5	766.5	792.5	842.5	874.5	934.5	947.5	977.5	1015.5	1040.5	1061.0	1121.0	1172.5
k' ²⁾	—	—	725.0	760.0	730.5	755.5	783.0	833.0	859.5	919.5	—	—	—	—	—	—	—
kB	753.0	793.0	810.0	845.0	814.5	839.5	897.0	947.0	990.5	1050.5	1076.5	1106.5	1162.5	1187.5	1289.0	1349.0	1397.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	687.0	747.0	798.5
LB' ²⁾	—	—	351.0	386.0	356.5	381.5	409.0	459.0	485.5	545.5	—	—	—	—	—	—	—
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	915.0	975.0	1023.5

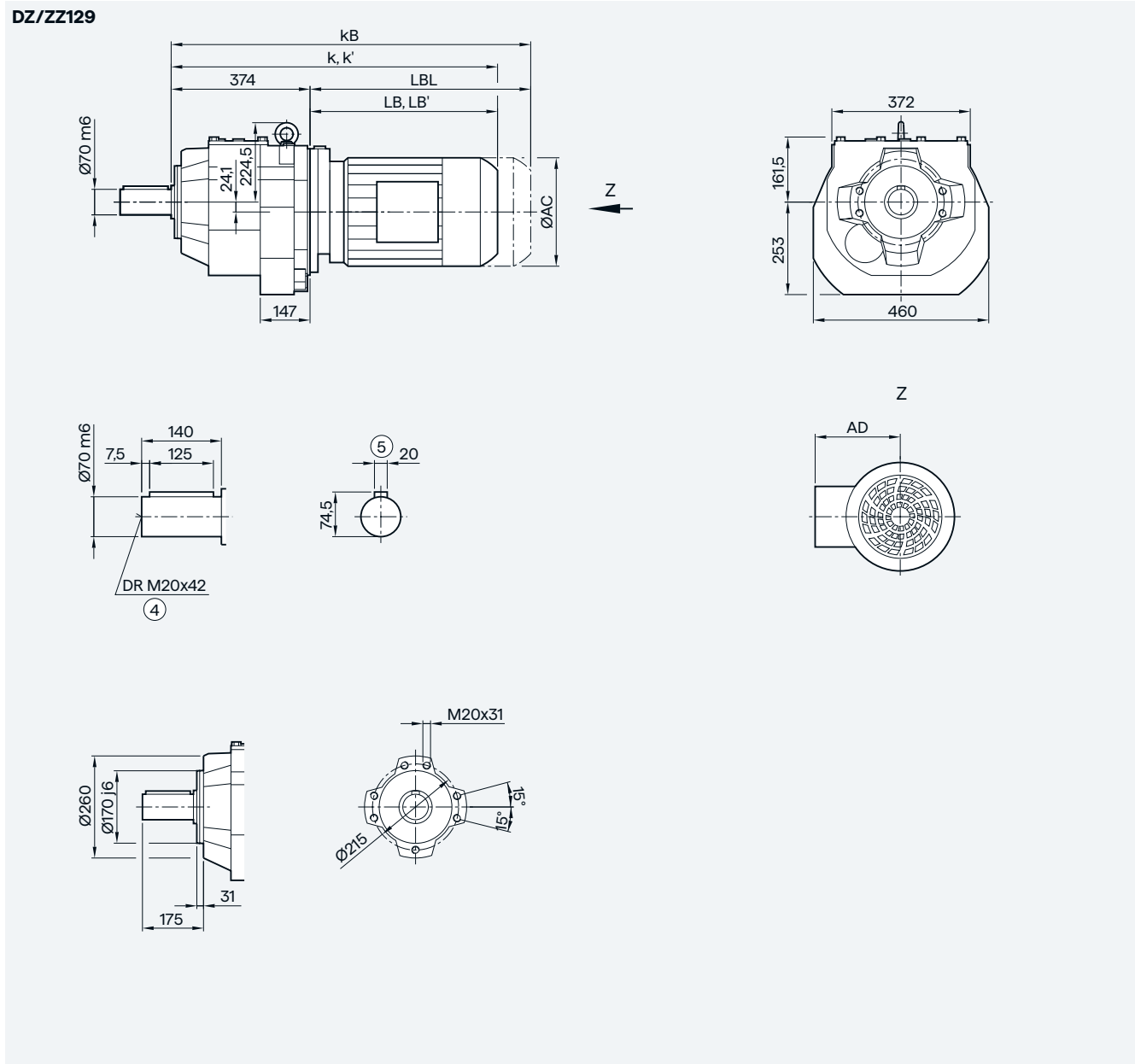
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZZ/DZ129 in a housing flange design



Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	683.0	723.0	731.5	766.5	741.5	766.5	792.5	842.5	874.5	934.5	947.5	977.5	1015.5	1040.5	1061.0	1121.0	1172.5
k' ²⁾	—	—	725.0	760.0	730.5	755.5	783.0	833.0	859.5	919.5	—	—	—	—	—	—	—
KB	753.0	793.0	810.0	845.0	814.5	839.5	897.0	947.0	990.5	1050.5	1076.5	1106.5	1162.5	1187.5	1289.0	1349.0	1397.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	687.0	747.0	798.5
LB' ²⁾	—	—	351.0	386.0	356.5	381.5	409.0	459.0	485.5	545.5	—	—	—	—	—	—	—
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	915.0	975.0	1023.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

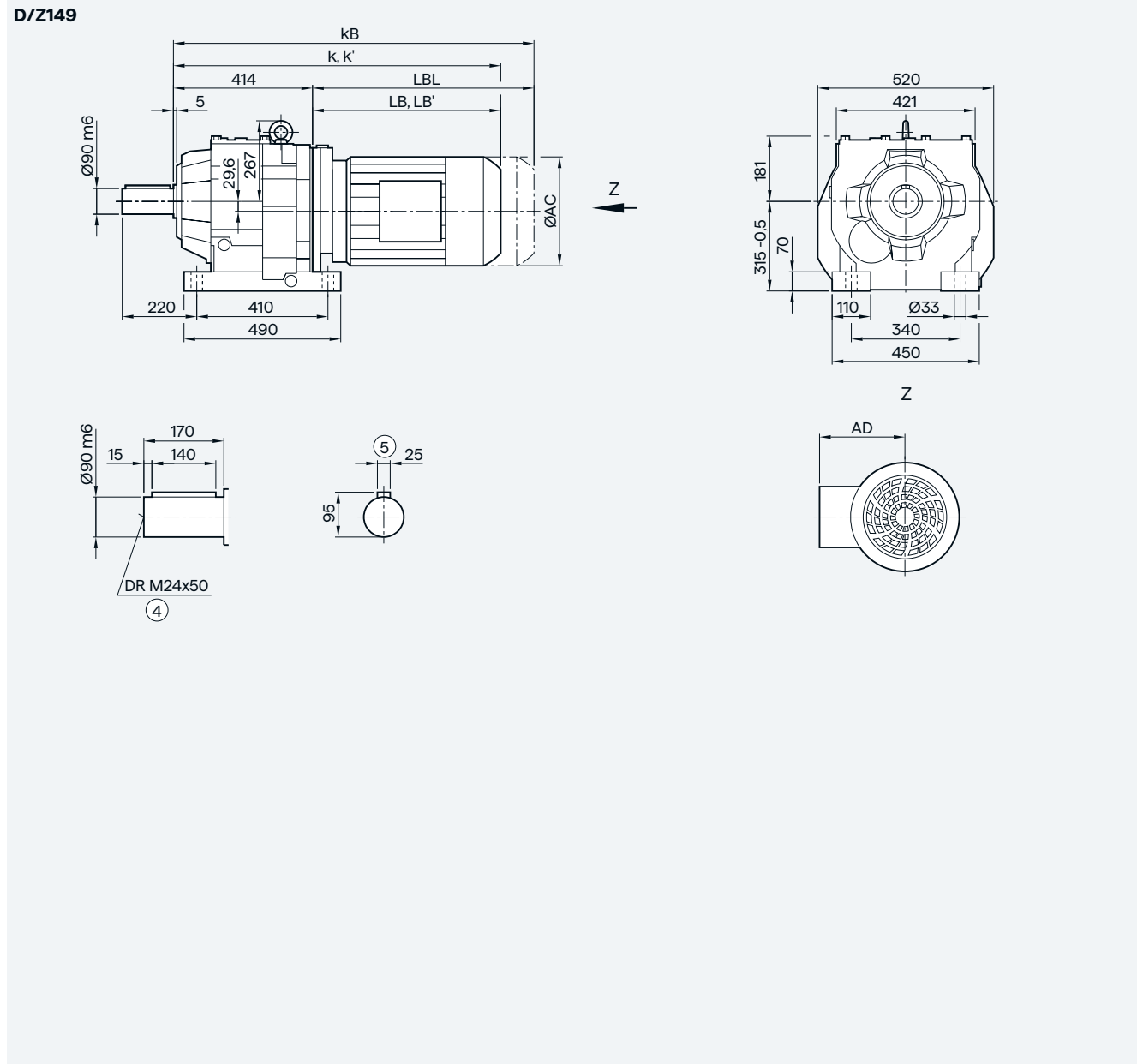
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox Z/D149 in a foot-mounted design



Motor	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	770.0	805.0	780.0	805.0	826.0	876.0	908.0	968.0	981.0	1011.0	1049.0	1074.0	1094.5	1154.5	1206.0
k' ²⁾	763.5	798.5	769.0	794.0	816.5	866.5	893.0	953.0	—	—	—	—	—	—	—
kB	848.5	883.5	853.0	878.0	930.5	980.5	1024.0	1084.0	1110.0	1140.0	1196.0	1221.0	1322.5	1382.5	1431.0
LB	356.0	391.0	366.0	391.0	412.0	462.0	494.0	554.0	567.0	597.0	635.0	660.0	680.5	740.5	792.0
LB' ²⁾	349.5	384.5	355.0	380.0	402.5	452.5	479.0	539.0	—	—	—	—	—	—	—
LBL	434.5	469.5	439.0	464.0	516.5	566.5	610.0	670.0	696.0	726.0	782.0	807.0	908.5	968.5	1017.0

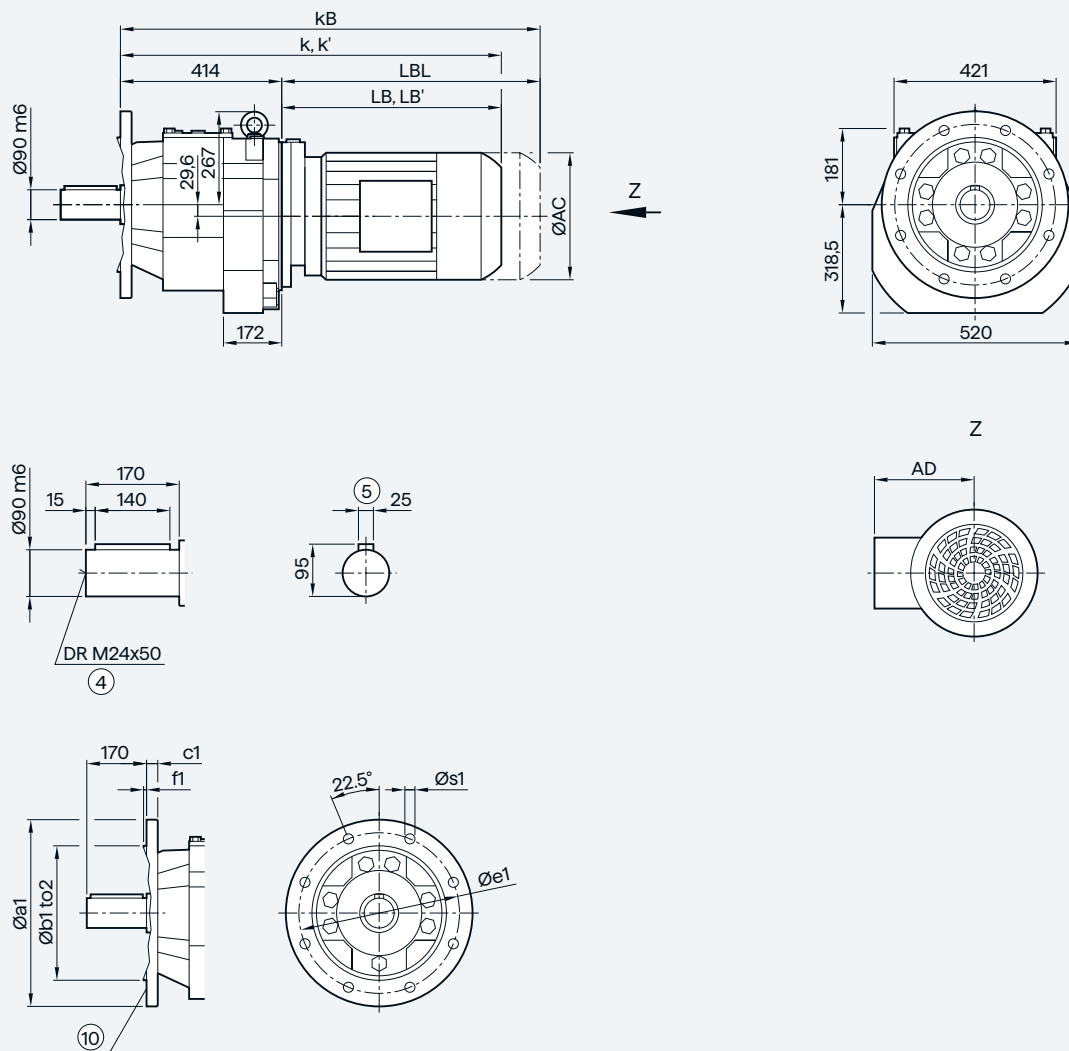
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF149 in a flange-mounted design

DF/ZF149



Flange	a1	b1	to2	c1	e1	f1	s1								
	450	350	h6	22	400	5	17.5								
	550	450	h6	25	500	5	17.5								
Motor	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	770.0	805.0	780.0	805.0	826.0	876.0	908.0	968.0	981.0	1011.0	1049.0	1074.0	1094.5	1154.5	1206.0
k' ²⁾	763.5	798.5	769.0	794.0	816.5	866.5	893.0	953.0	—	—	—	—	—	—	—
KB	848.5	883.5	853.0	878.0	930.5	980.5	1024.0	1084.0	1110.0	1140.0	1196.0	1221.0	1322.5	1382.5	1431.0
LB	356.0	391.0	366.0	391.0	412.0	462.0	494.0	554.0	567.0	597.0	635.0	660.0	680.5	740.5	792.0
LB' ²⁾	349.5	384.5	355.0	380.0	402.5	452.5	479.0	539.0	—	—	—	—	—	—	—
LBL	434.5	469.5	439.0	464.0	516.5	566.5	610.0	670.0	696.0	726.0	782.0	807.0	908.5	968.5	1017.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⊗ For inner contour, see page 3/189

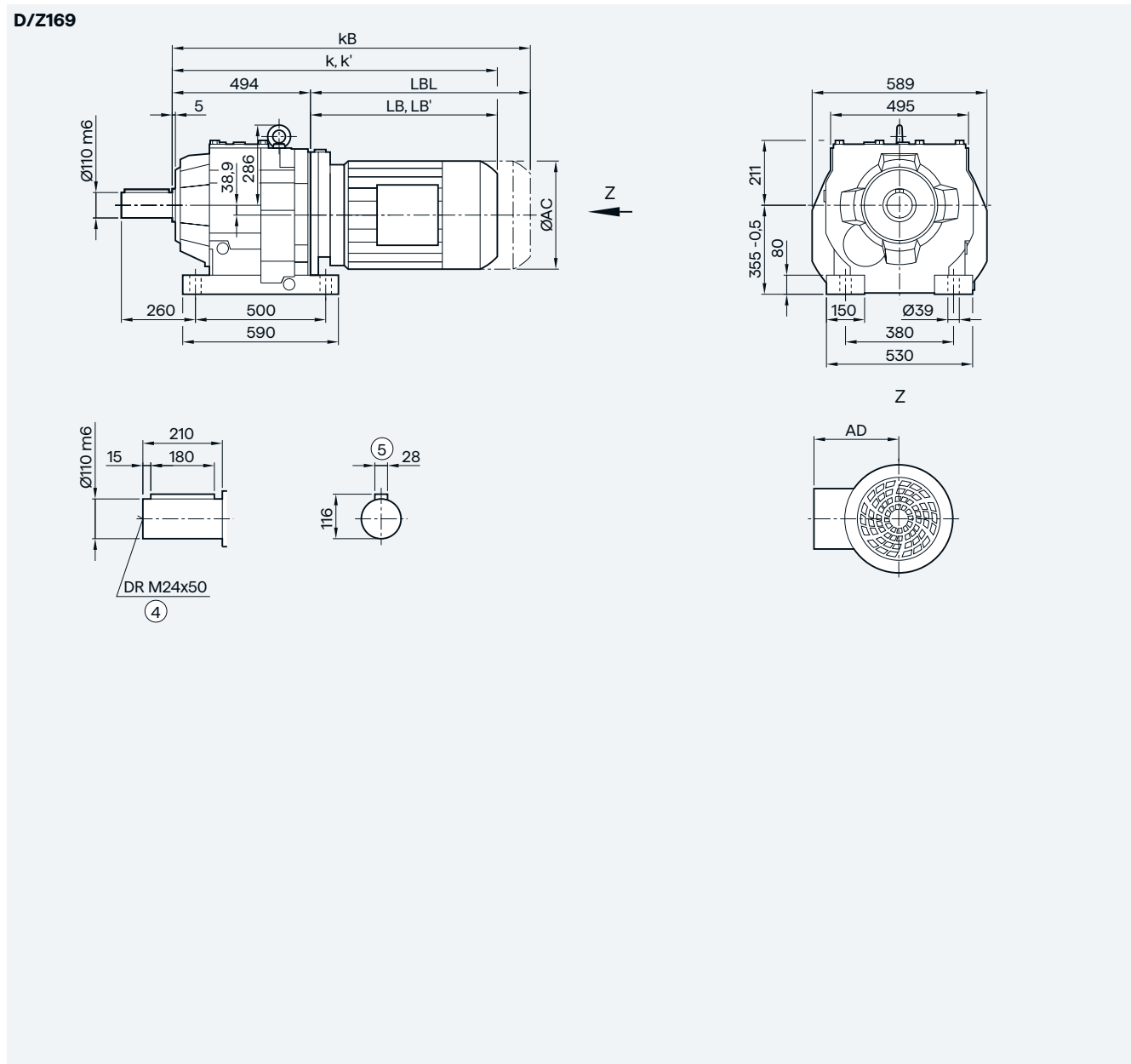
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox Z/D169 in a foot-mounted design



Motor	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	847.5	872.5	893.0	943.0	975.0	1035.0	1047.5	1077.5	1115.5	1140.5	1160.0	1220.0	1267.5
k' ²⁾	836.5	861.5	883.5	933.5	960.0	1020.0	—	—	—	—	—	—	—
kB	920.5	945.5	997.5	1047.5	1091.0	1151.0	1176.5	1206.5	1262.5	1287.5	1388.0	1448.0	1492.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LB' ²⁾	342.5	367.5	389.5	439.5	466.0	526.0	—	—	—	—	—	—	—
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

④ DIN 332

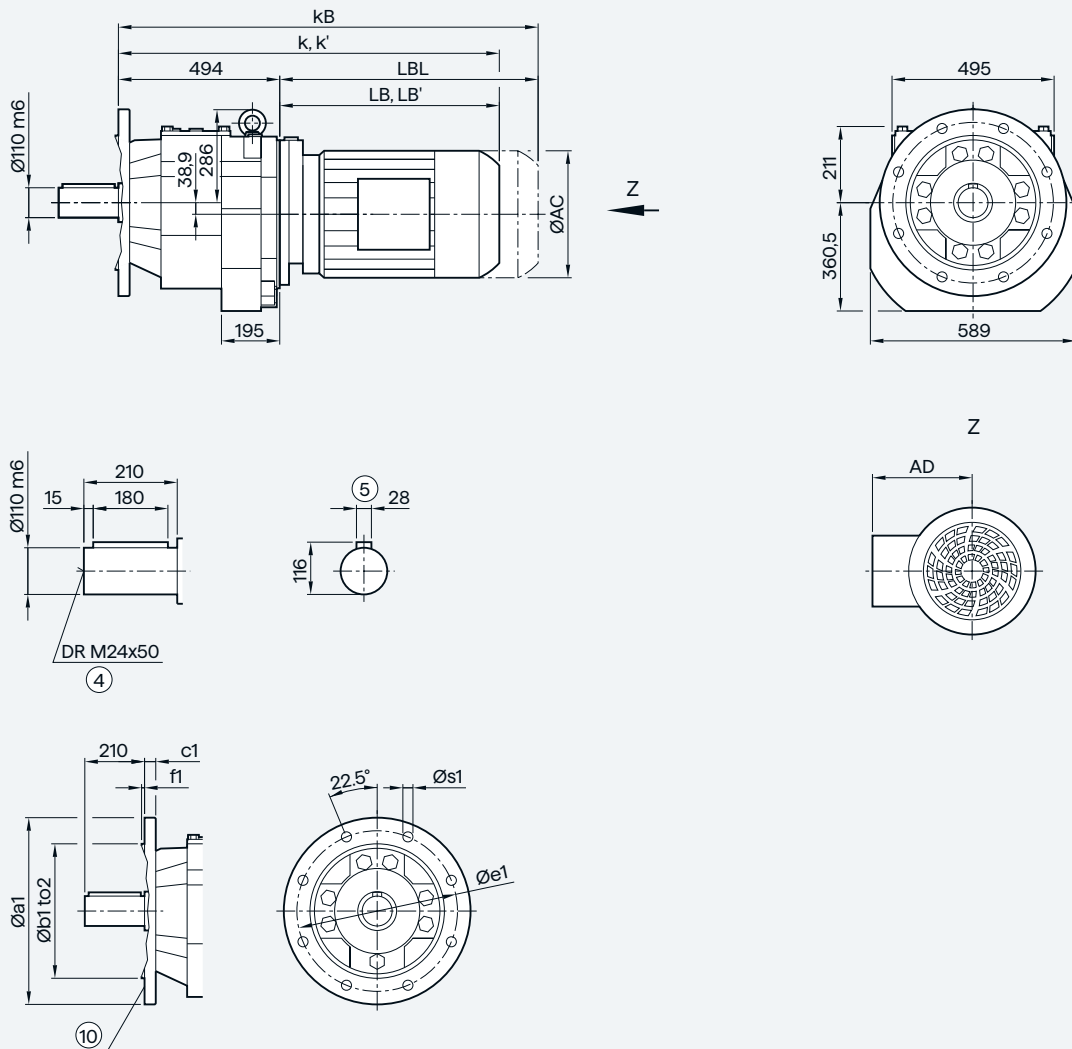
⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF169 in a flange-mounted design

DF/ZF169



Flange	a1	b1	to2	c1	e1	f1	s1						
	450	350	h6	22	400	5	17.5						
	550	450	h6	25	500	5	17.5						
	660	550	h6	25	600	6	22.0						
Motor	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	847.5	872.5	893.0	943.0	975.0	1035.0	1047.5	1077.5	1115.5	1140.5	1160.0	1220.0	1267.5
k' ²⁾	836.5	861.5	883.5	933.5	960.0	1020.0	—	—	—	—	—	—	—
kB	920.5	945.5	997.5	1047.5	1091.0	1151.0	1176.5	1206.5	1262.5	1287.5	1388.0	1448.0	1492.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LB' ²⁾	342.5	367.5	389.5	439.5	466.0	526.0	—	—	—	—	—	—	—
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⊗ For inner contour, see page 3/189

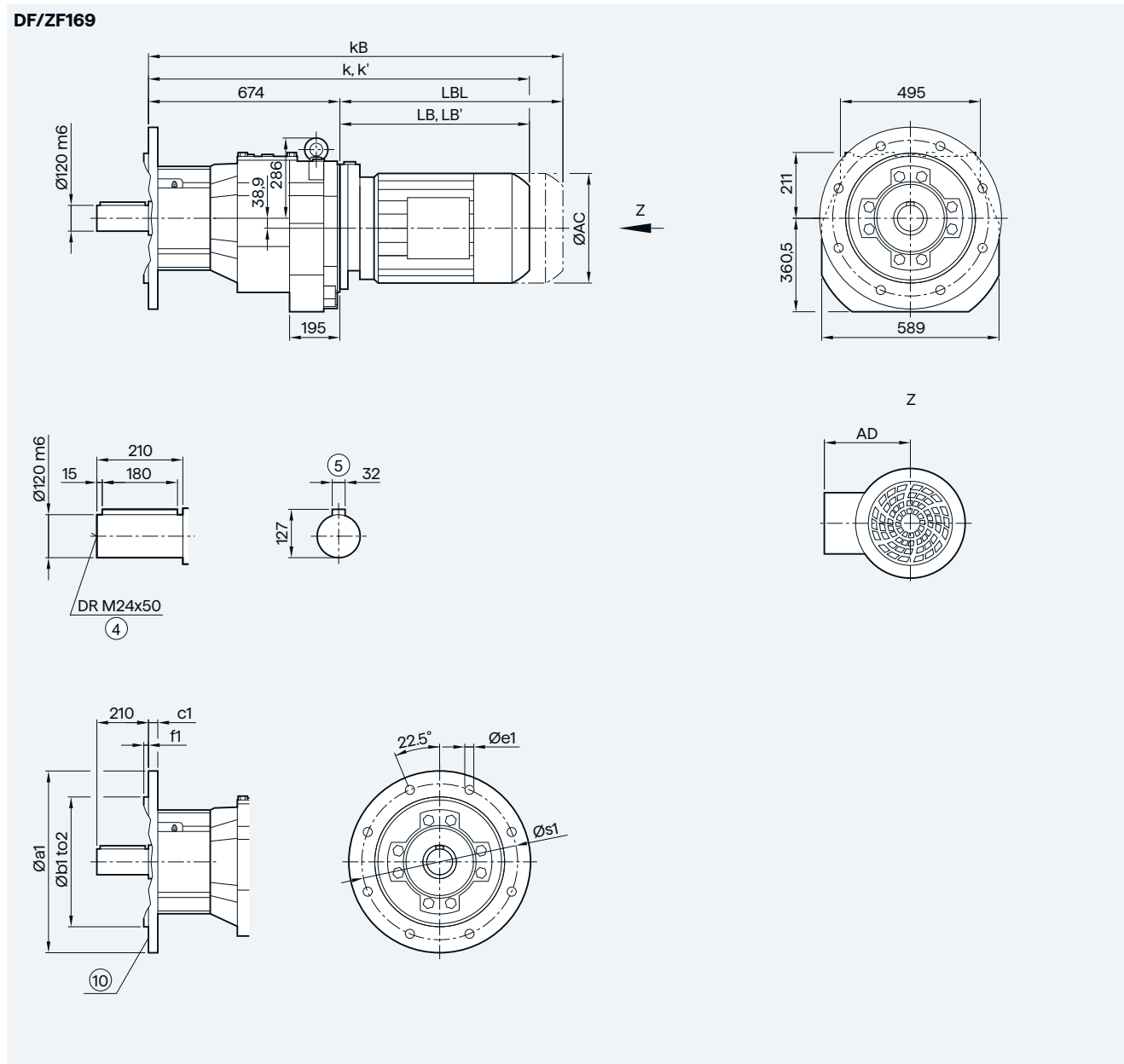
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox ZF/DF169 in a flange-mounted design with VLplus reinforced bearing system (G30)



Flange	a1	b1	to2	c1	e1	f1	s1
	450	350	h6	22	400	5	17.5
	550	450	h6	25	500	5	17.5
	660	550	h6	25	600	6	22.0

Motor	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	1027.5	1052.5	1073.0	1123.0	1155.0	1215.0	1227.5	1257.5	1295.5	1320.5	1340.0	1400.0	1447.5
k' ²⁾	1016.5	1041.5	1063.5	1113.5	1140.0	1200.0	—	—	—	—	—	—	—
kB	1100.5	1125.5	1177.5	1227.5	1271.0	1331.0	1356.5	1386.5	1442.5	1467.5	1568.0	1628.0	1672.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LB' ²⁾	342.5	367.5	389.5	439.5	466.0	526.0	—	—	—	—	—	—	—
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

④ DIN 332

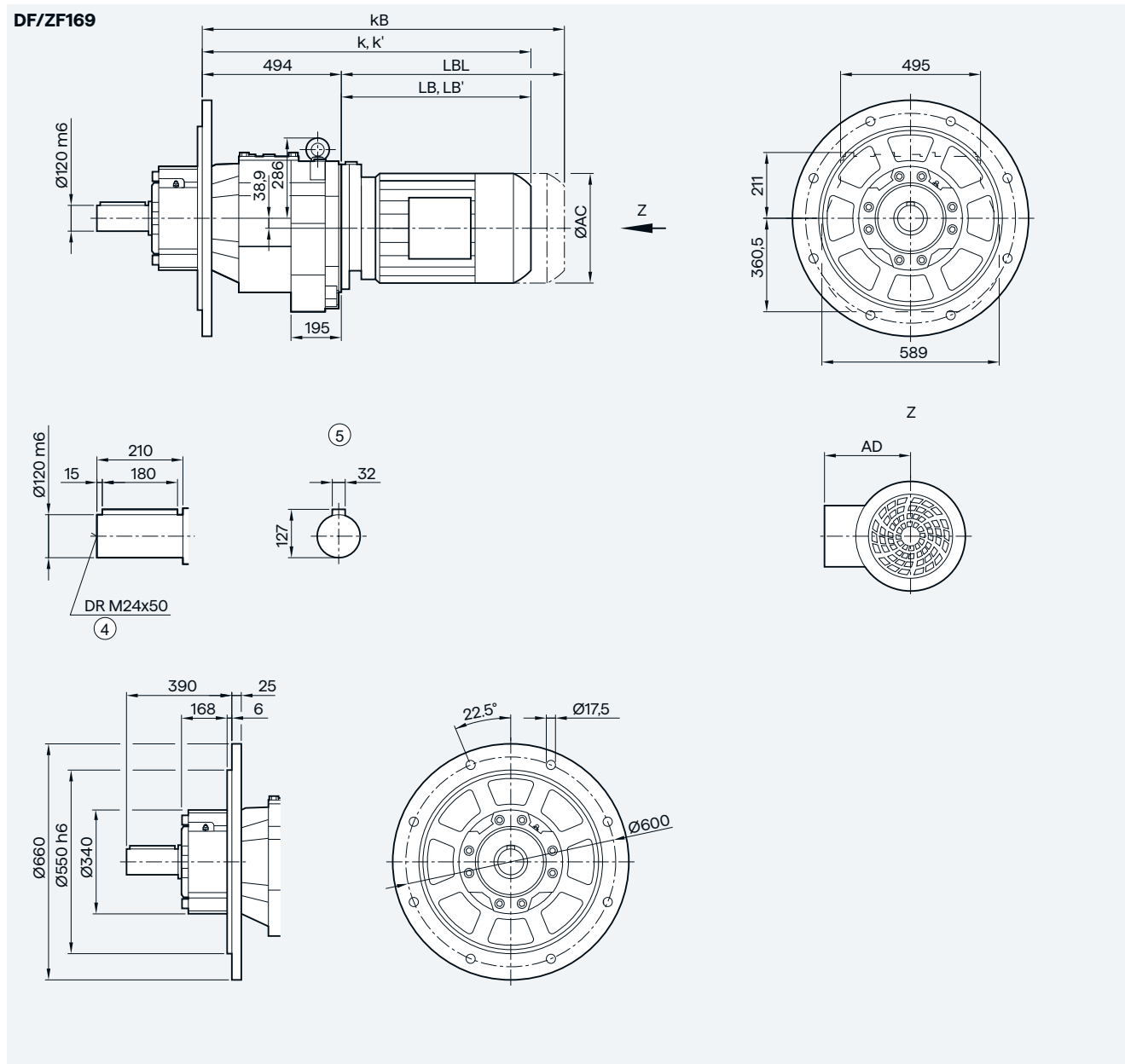
⑤ Feather key/keyway DIN 6885-1

Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF169 in a flange-mounted design with XLplus reinforced bearing system (G31)



3

Motor	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	847.5	872.5	893.0	943.0	975.0	1035.0	1047.5	1077.5	1115.5	1140.5	1160.0	1220.0	1267.5
k' ²⁾	836.5	861.5	883.5	933.5	960.0	1020.0	—	—	—	—	—	—	—
kB	920.5	945.5	997.5	1047.5	1091.0	1151.0	1176.5	1206.5	1262.5	1287.5	1388.0	1448.0	1492.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LB' ²⁾	342.5	367.5	389.5	439.5	466.0	526.0	—	—	—	—	—	—	—
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

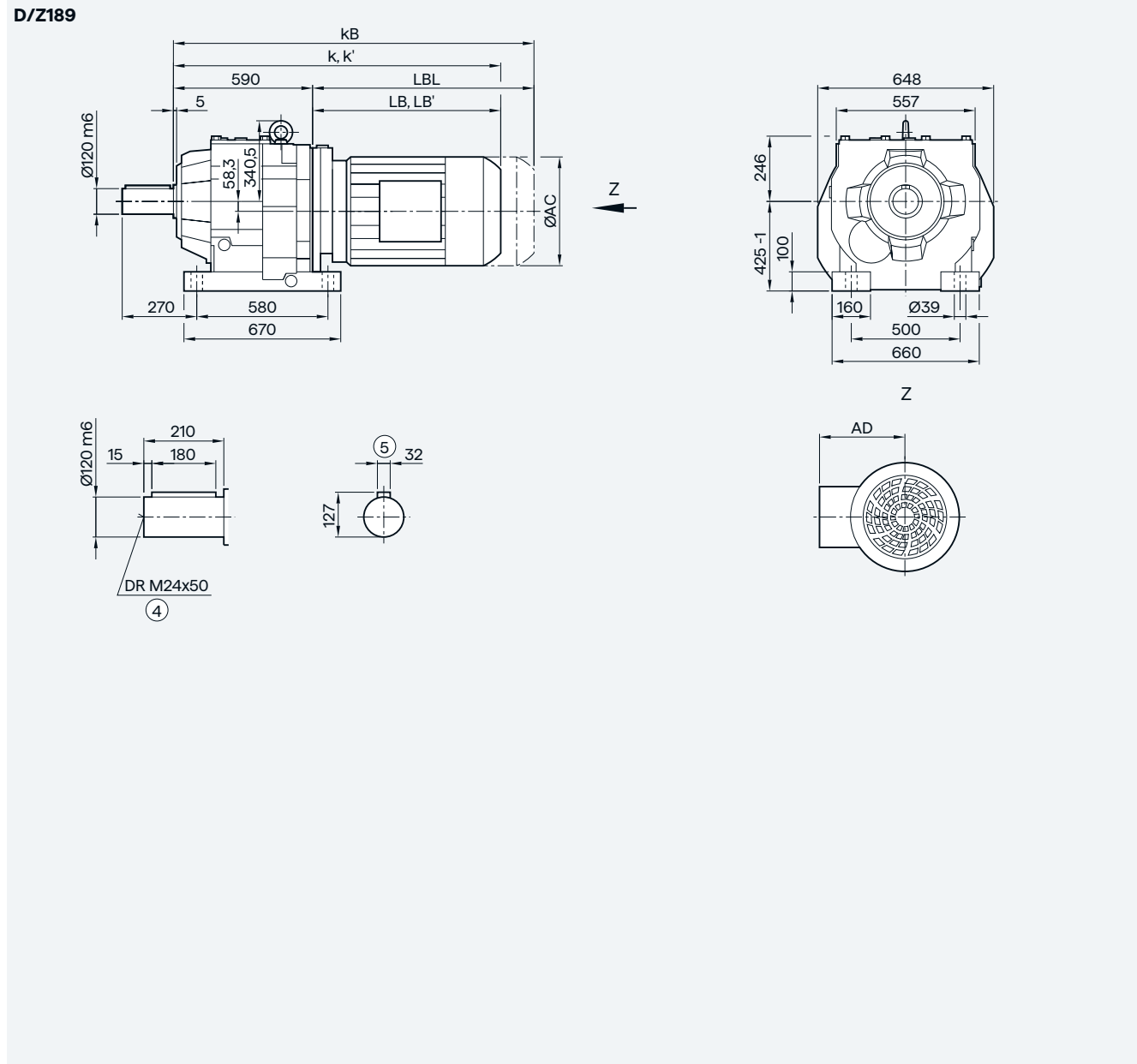
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

2- and 3-stage

Gearbox Z/D189 in a foot-mounted design



Motor	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	943.5	968.5	989.0	1039.0	1071.0	1131.0	1143.5	1173.5	1211.5	1236.5	1256.0	1316.0	1363.5
k' ²⁾	932.5	957.5	979.5	1029.5	1056.0	1116.0	—	—	—	—	—	—	—
kB	1016.5	1041.5	1093.5	1143.5	1187.0	1247.0	1272.5	1302.5	1358.5	1383.5	1484.0	1544.0	1588.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LB' ²⁾	342.5	367.5	389.5	439.5	466.0	526.0	—	—	—	—	—	—	—
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

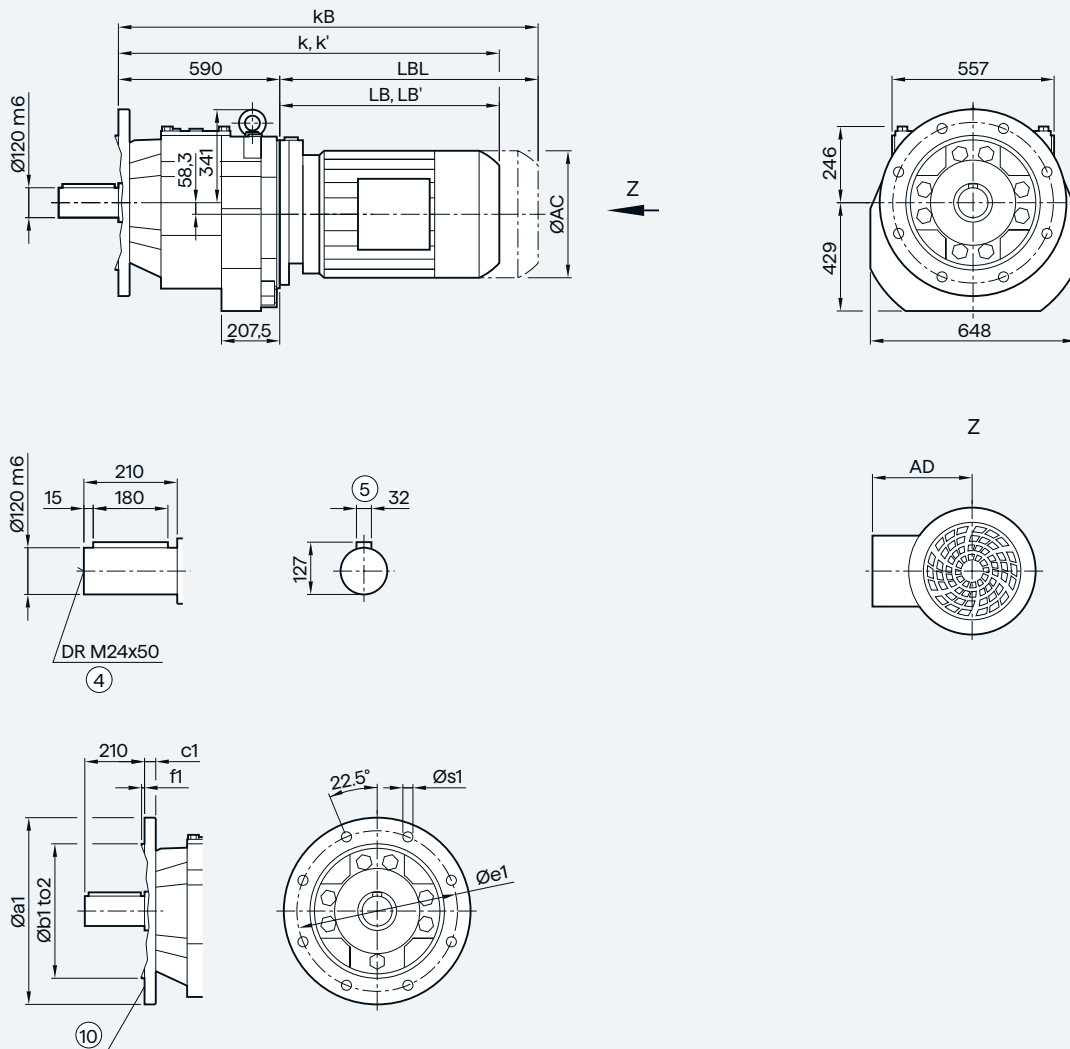
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZF/DF189 in a flange-mounted design

DF/ZF189



Flange	a1	b1	to2	c1	e1	f1	s1						
	550	450	h6	25	500	5	17.5						
	660	550	h6	28	600	6	22.0						
Motor	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	943.5	968.5	989.0	1039.0	1071.0	1131.0	1143.5	1173.5	1211.5	1236.5	1256.0	1316.0	1363.5
k' ²⁾	932.5	957.5	979.5	1029.5	1056.0	1116.0	—	—	—	—	—	—	—
kB	1016.5	1041.5	1093.5	1143.5	1187.0	1247.0	1272.5	1302.5	1358.5	1383.5	1484.0	1544.0	1588.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LB' ²⁾	342.5	367.5	389.5	439.5	466.0	526.0	—	—	—	—	—	—	—
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

Ⓣ For inner contour, see page 3/189

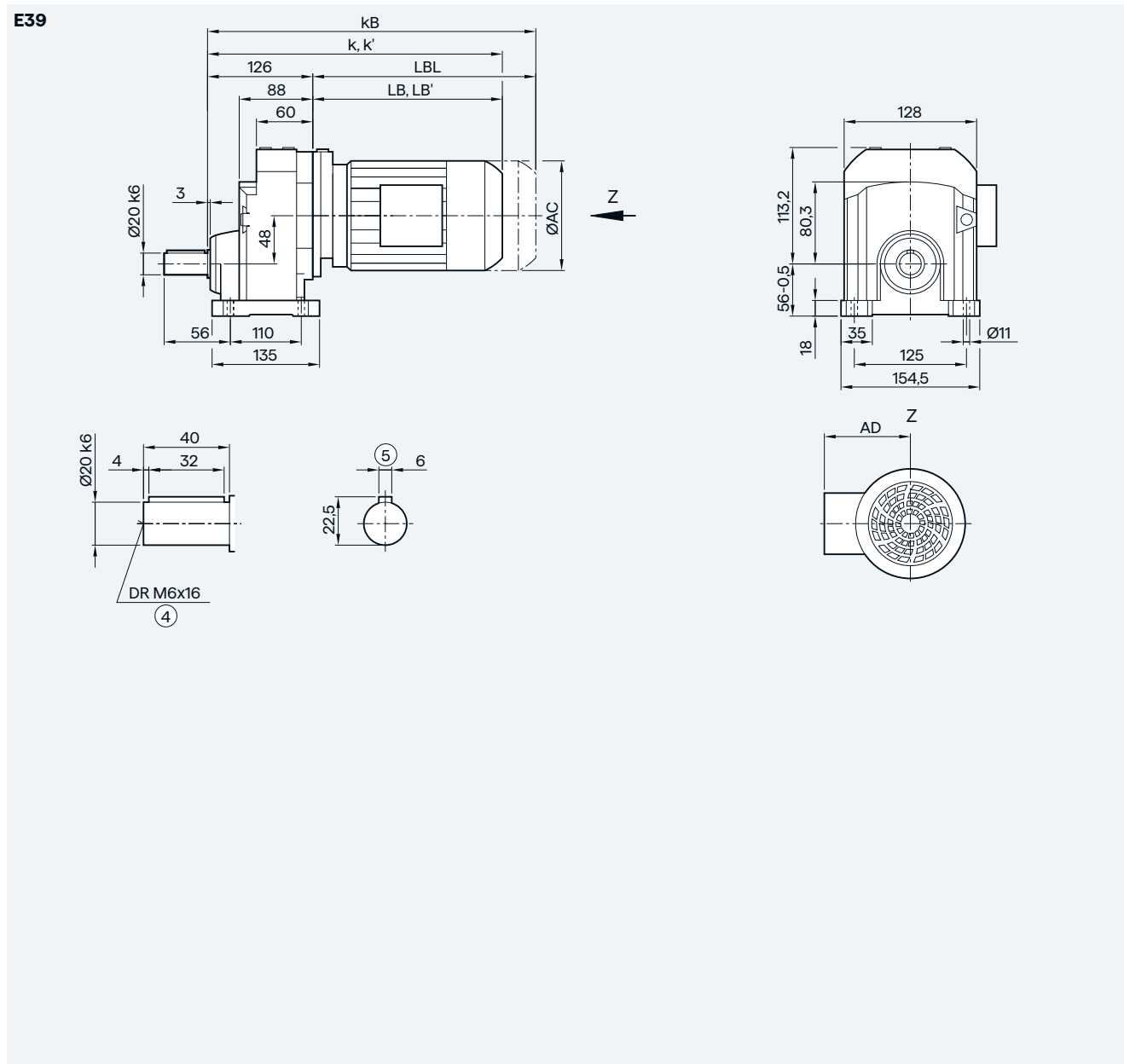
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

1-stage

Gearbox E39 in a foot-mounted design



Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5
k	320.0	346.0	352.0	371.0	411.0	416.0	451.0	477.5	517.5	534.0	569.0	544.0	569.0
k' ²⁾	—	—	—	—	—	—	—	—	—	527.5	562.5	533.0	558.0
kB	364.5	390.5	407.0	426.0	466.0	476.0	511.0	547.5	587.5	612.5	647.5	617.0	642.0
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0	418.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5	407.0	432.0
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5	491.0	516.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

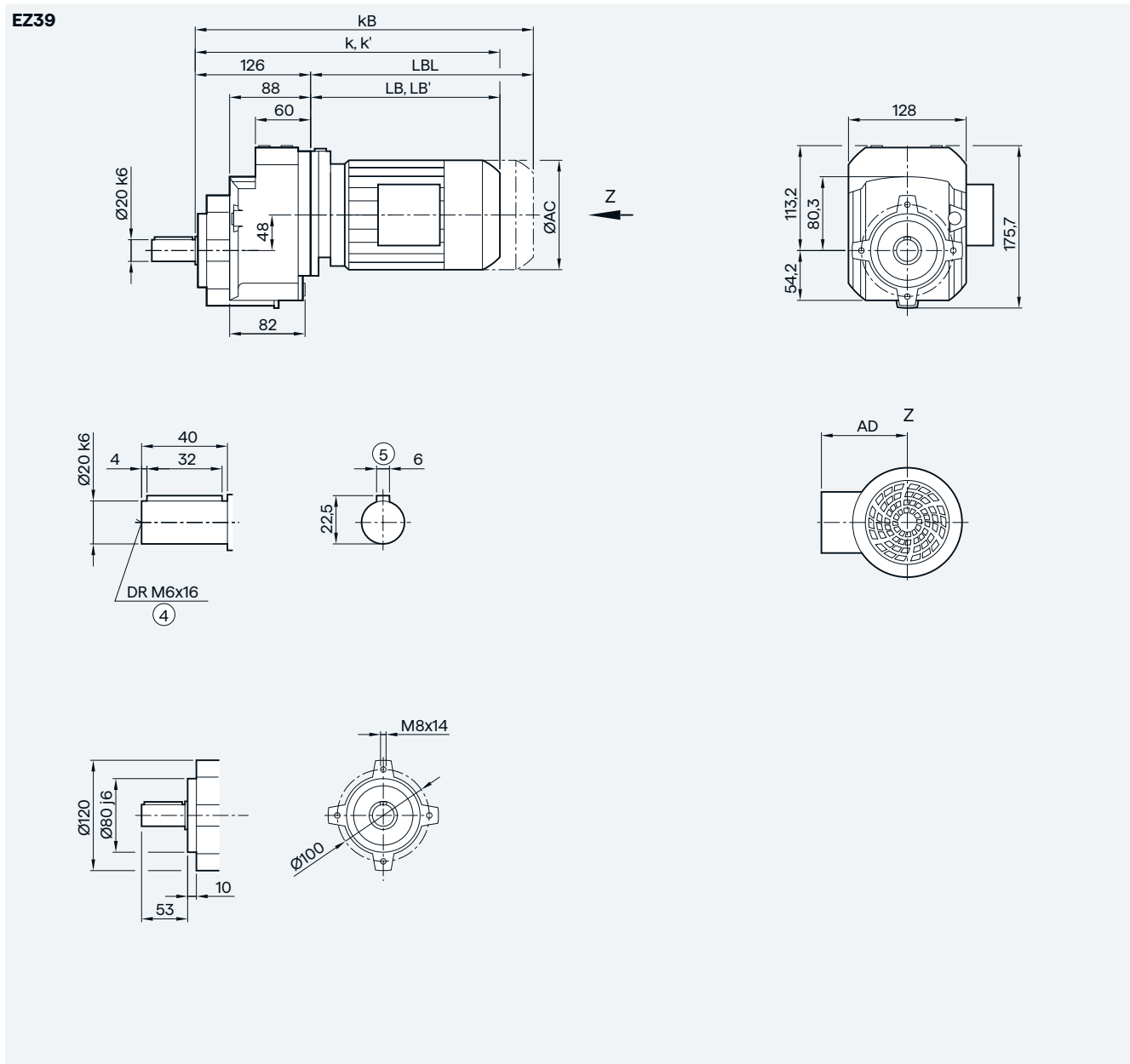
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

1-stage

Gearbox EZ39 in a housing flange design



Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5
k	320.0	346.0	352.0	371.0	411.0	416.0	451.0	477.5	517.5	534.0	569.0	544.0	569.0
k' ²⁾	—	—	—	—	—	—	—	—	—	527.5	562.5	533.0	558.0
kB	364.5	390.5	407.0	426.0	466.0	476.0	511.0	547.5	587.5	612.5	647.5	617.0	642.0
LB	194.0	220.0	226.0	245.0	285.0	290.0	325.0	351.5	391.5	408.0	443.0	418.0	443.0
LB' ²⁾	—	—	—	—	—	—	—	—	—	401.5	436.5	407.0	432.0
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5	491.0	516.0

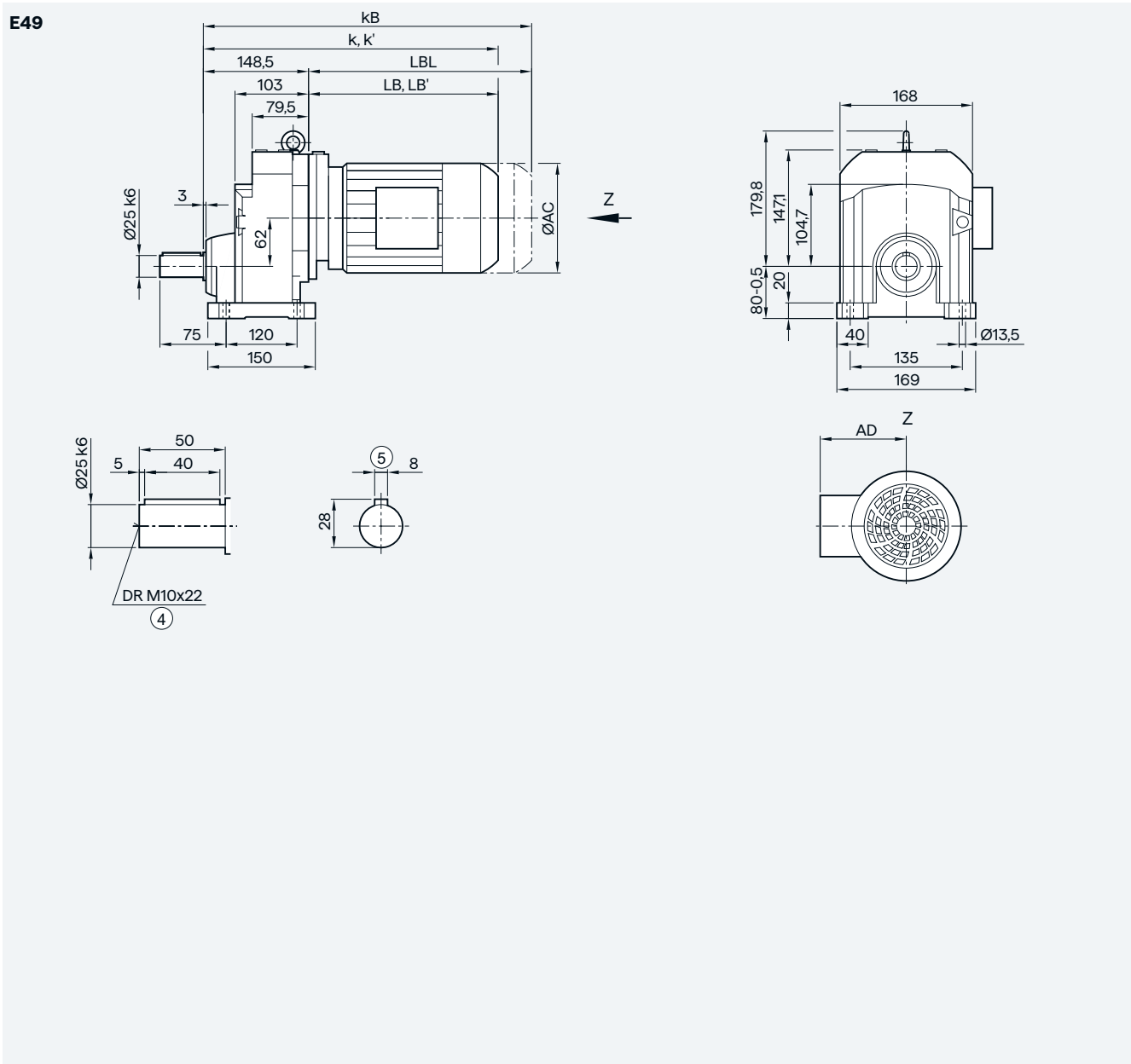
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox E49 in a foot-mounted design



3

Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	333.0	359.0	365.0	384.0	424.0	429.0	464.0	490.5	530.5	547.0	582.0	557.0	591.5	610.0	660.0
k' ²⁾	—	—	—	—	—	—	—	—	—	540.5	575.5	546.0	580.5	600.5	650.5
KB	377.5	403.5	420.0	439.0	479.0	489.0	524.0	560.5	600.5	625.5	660.5	630.0	664.5	714.5	764.5
LB	184.5	210.5	216.5	235.5	275.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LB' ²⁾	—	—	—	—	—	—	—	—	—	392.0	427.0	397.5	432.0	452.0	502.0
LBL	229.0	255.0	271.5	290.5	330.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

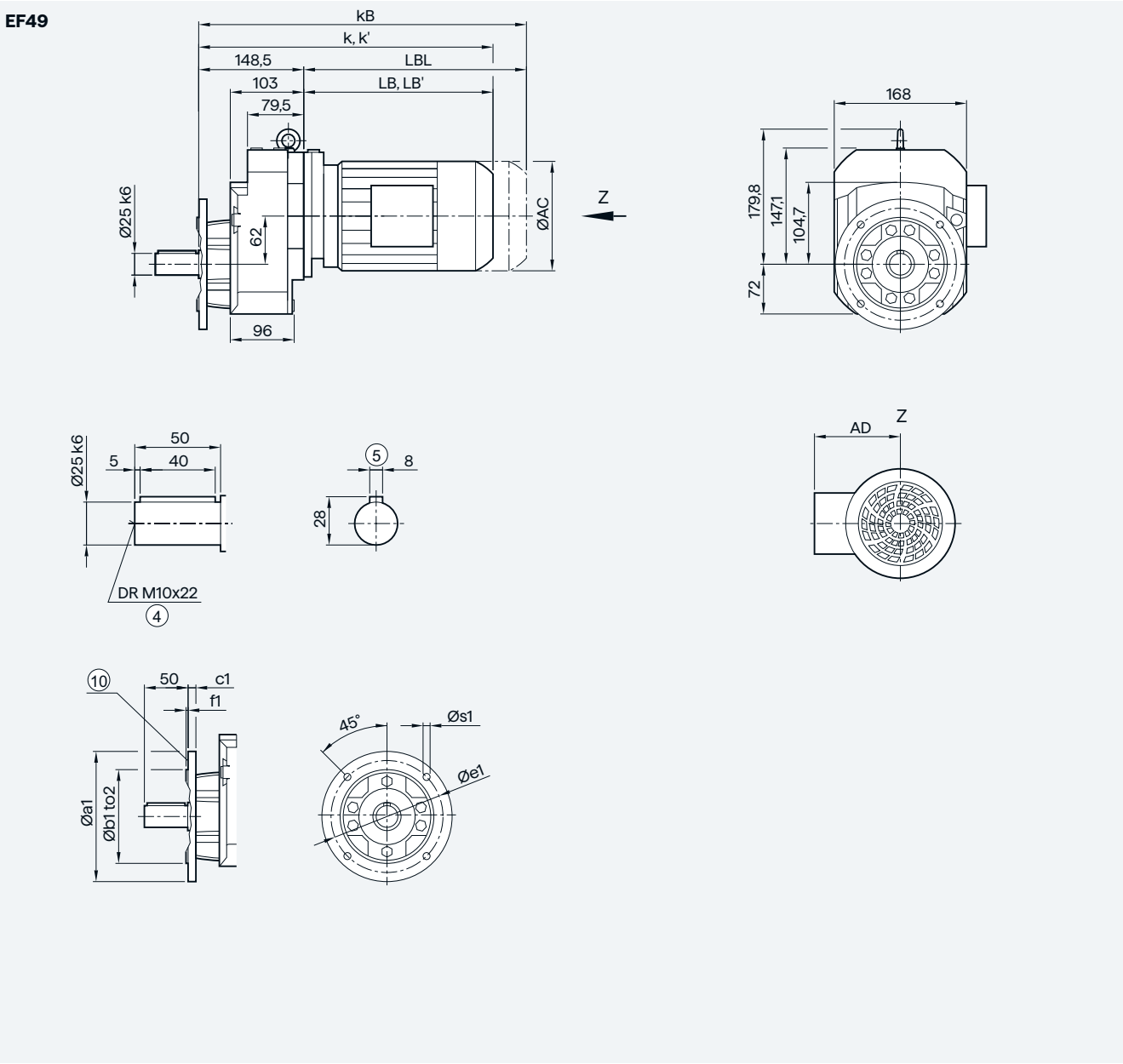
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

1-stage

Gearbox EF49 in a flange-mounted design



Flange	a1	b1	to2	c1	e1	f1	s1
	160	110	j6	10	130	3.5	9.0
	200	130	j6	12	165	3.5	11.0
	250	180	j6	15	215	4.0	13.5

Motor	LE63	LE63Z	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD ¹⁾	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	333.0	359.0	365.0	384.0	424.0	429.0	464.0	490.5	530.5	547.0	582.0	557.0	591.5	610.0	660.0
k' ²⁾	—	—	—	—	—	—	—	—	—	540.5	575.5	546.0	580.5	600.5	650.5
kB	377.5	403.5	420.0	439.0	479.0	489.0	524.0	560.5	600.5	625.5	660.5	630.0	664.5	714.5	764.5
LB	184.5	210.5	216.5	235.5	275.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LB' ²⁾	—	—	—	—	—	—	—	—	—	392.0	427.0	397.5	432.0	452.0	502.0
LBL	229.0	255.0	271.5	290.5	330.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

④ DIN 332

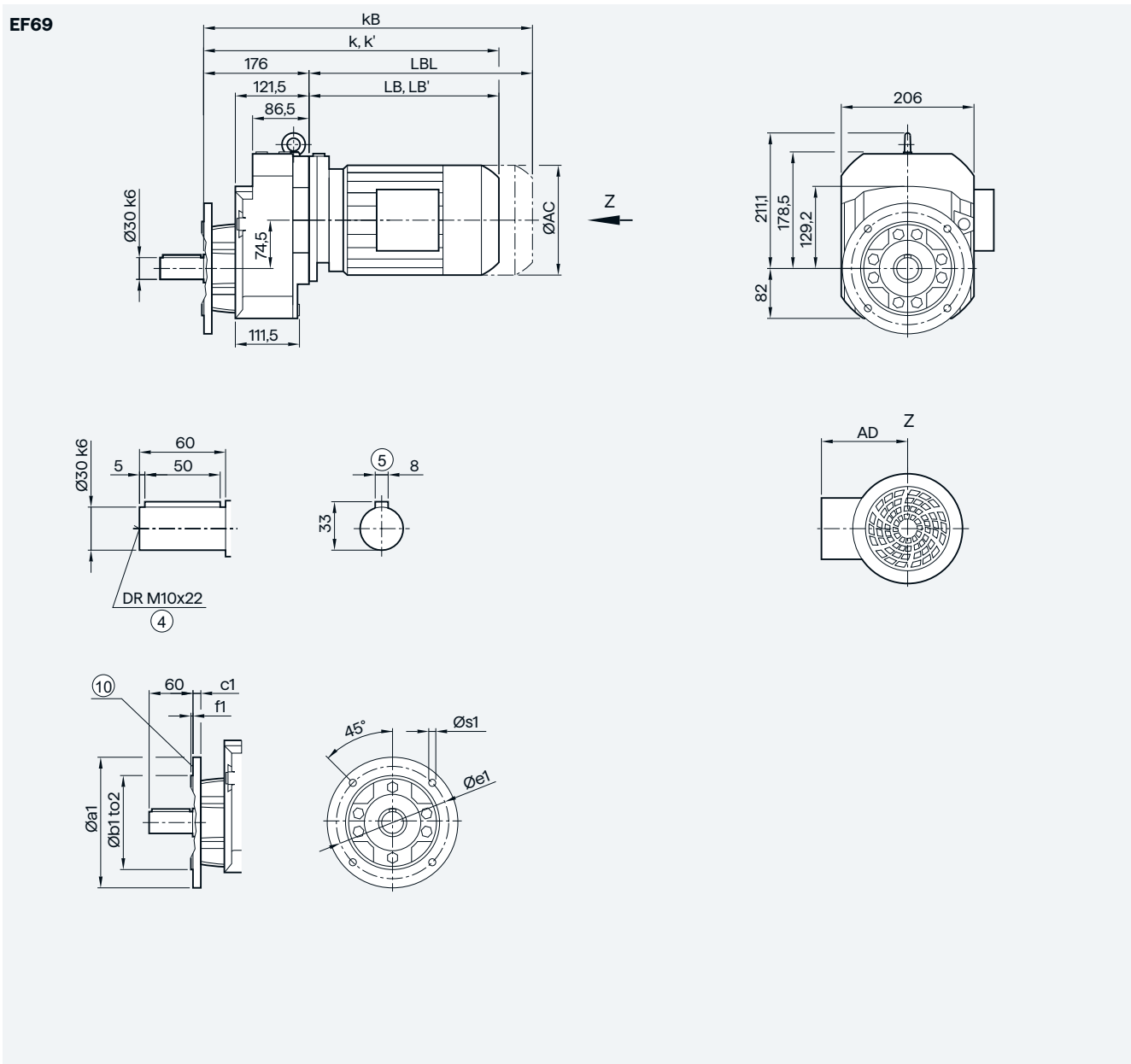
⑤ Feather key/keyway DIN 6885-1

Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox EF69 in a flange-mounted design



Flange	a1	b1	to2	c1	e1	f1	s1								
	200	130	j6	12	165	3.5	11.0								
	250	180	j6	15	215	4.0	13.5								
Motor	LE71/ FZ71	LE71Z/ FZ71Z	LE71Y	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z
AC	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD ¹⁾	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	390.5	409.5	449.5	450.5	485.5	512.0	552.0	568.5	603.5	578.5	603.5	631.5	681.5	713.5	773.5
k' ²⁾	—	—	—	—	—	—	—	562.0	597.0	567.5	592.5	622.0	672.0	698.5	758.5
KB	445.5	464.5	504.5	510.5	545.5	582.0	622.0	647.0	682.0	651.5	676.5	736.0	786.0	829.5	889.5
LB	214.5	233.5	273.5	274.5	309.5	336.0	376.0	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LB' ²⁾	—	—	—	—	—	—	—	386.0	421.0	391.5	416.5	446.0	496.0	522.5	582.5
LBL	269.5	288.5	328.5	334.5	369.5	406.0	446.0	471.0	506.0	475.5	500.5	560.0	610.0	653.5	713.5

④ DIN 332

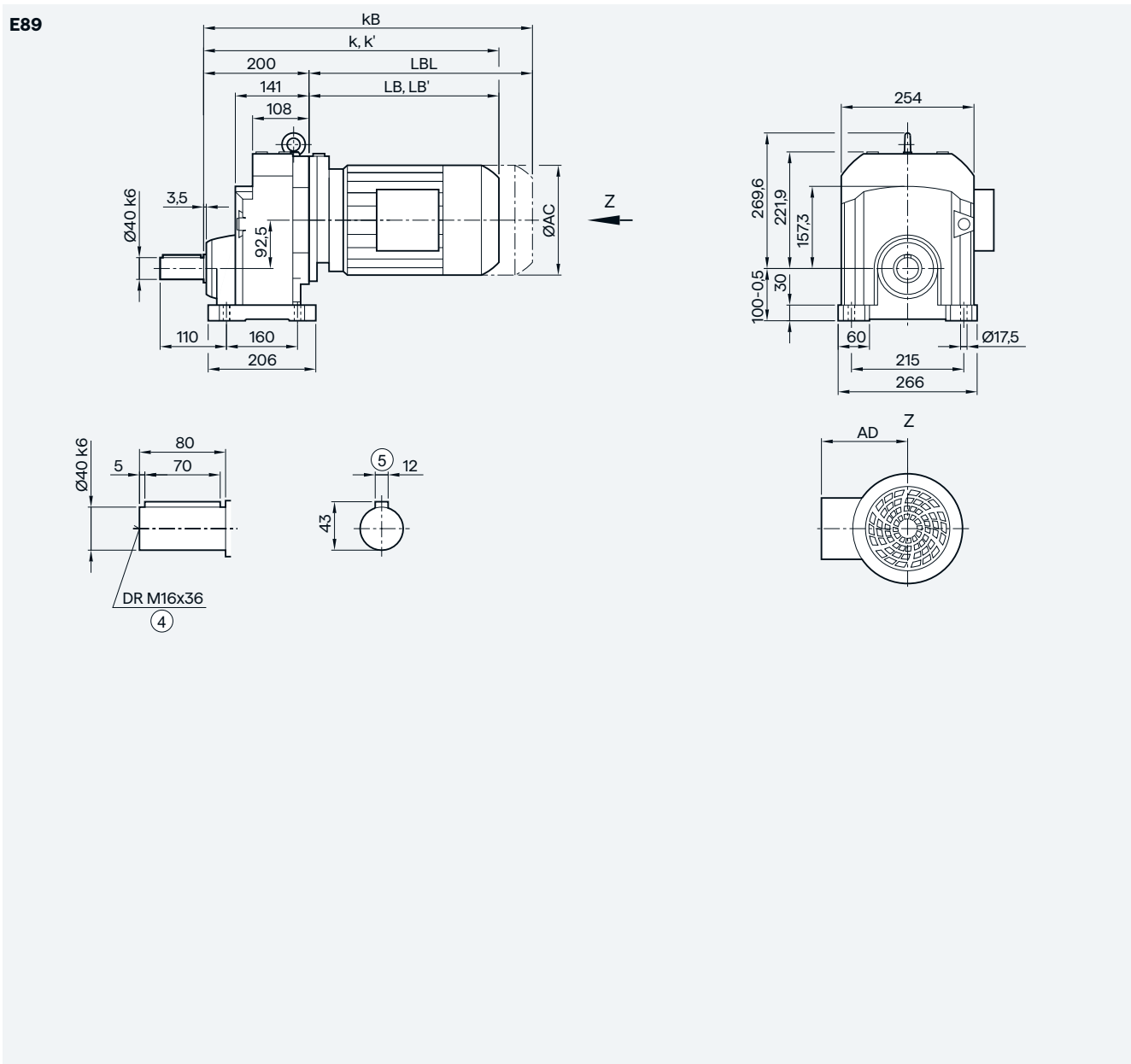
⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

1) AD depends on the motor options, for other dimensions, see page 9/46.

2) k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox E89 in a foot-mounted design



Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.5	496.5	523.0	563.0	575.5	610.5	585.5	610.5	638.5	688.5	720.5	780.5	793.5	823.5
k' ²⁾	—	—	—	—	569.0	604.0	574.5	599.5	629.0	679.0	705.5	765.5	—	—
kB	521.5	556.5	593.0	633.0	654.0	689.0	658.5	683.5	743.0	793.0	836.5	896.5	922.5	952.5
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

④ DIN 332

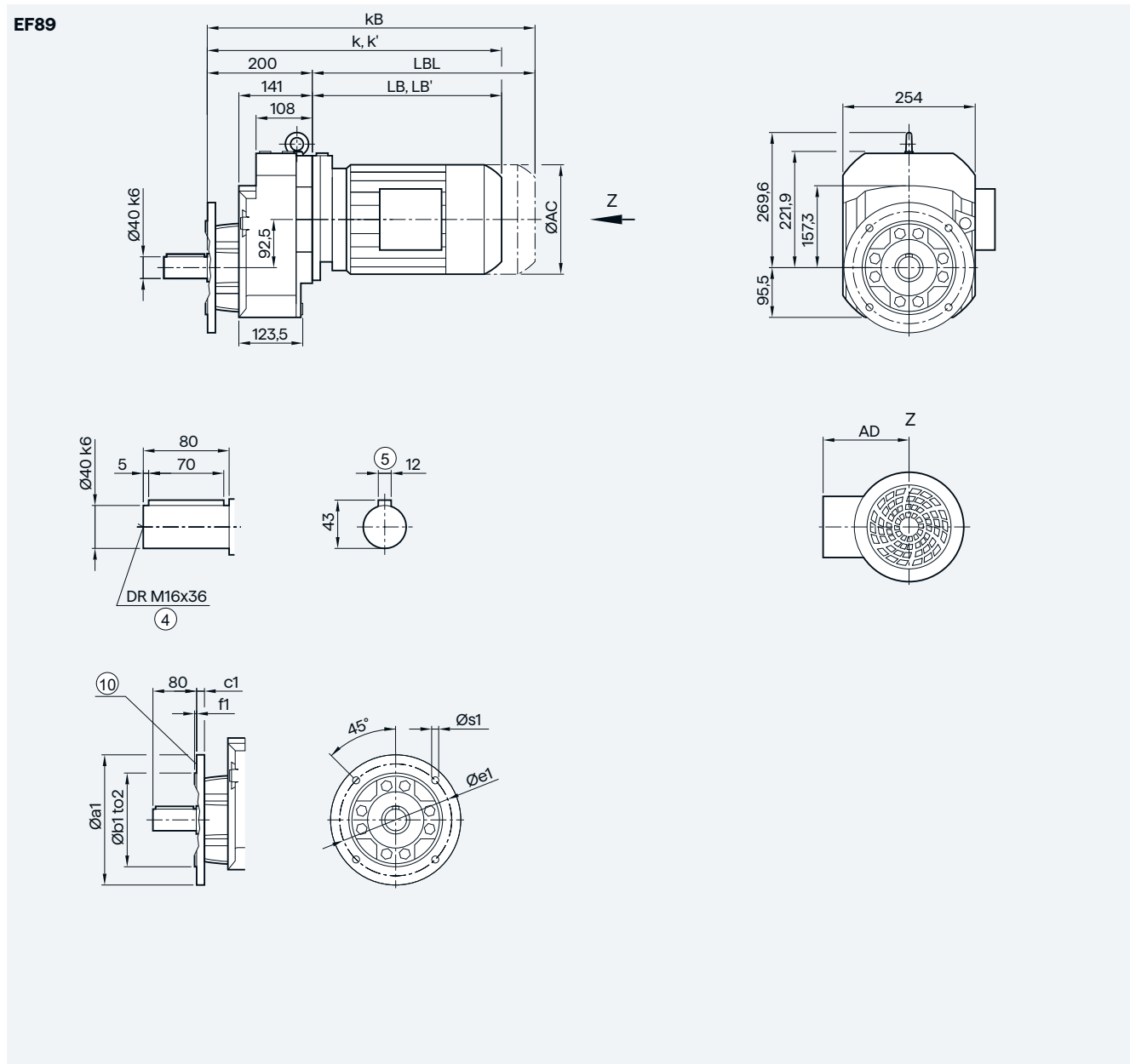
⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

1-stage

Gearbox EF89 in a flange-mounted design



Flange	a1	b1	to2	c1	e1	f1	s1							
	250	180	j6	15	215	4.0	13.5							
	300	230	j6	16	265	4.0	13.5							
	350	250	j6	16	300	5.0	17.5							
Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LE180	LE180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.5	496.5	523.0	563.0	575.5	610.5	585.5	610.5	638.5	688.5	720.5	780.5	793.5	823.5
k' ²⁾	—	—	—	—	569.0	604.0	574.5	599.5	629.0	679.0	705.5	765.5	—	—
kB	521.5	556.5	593.0	633.0	654.0	689.0	658.5	683.5	743.0	793.0	836.5	896.5	922.5	952.5
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

④ DIN 332

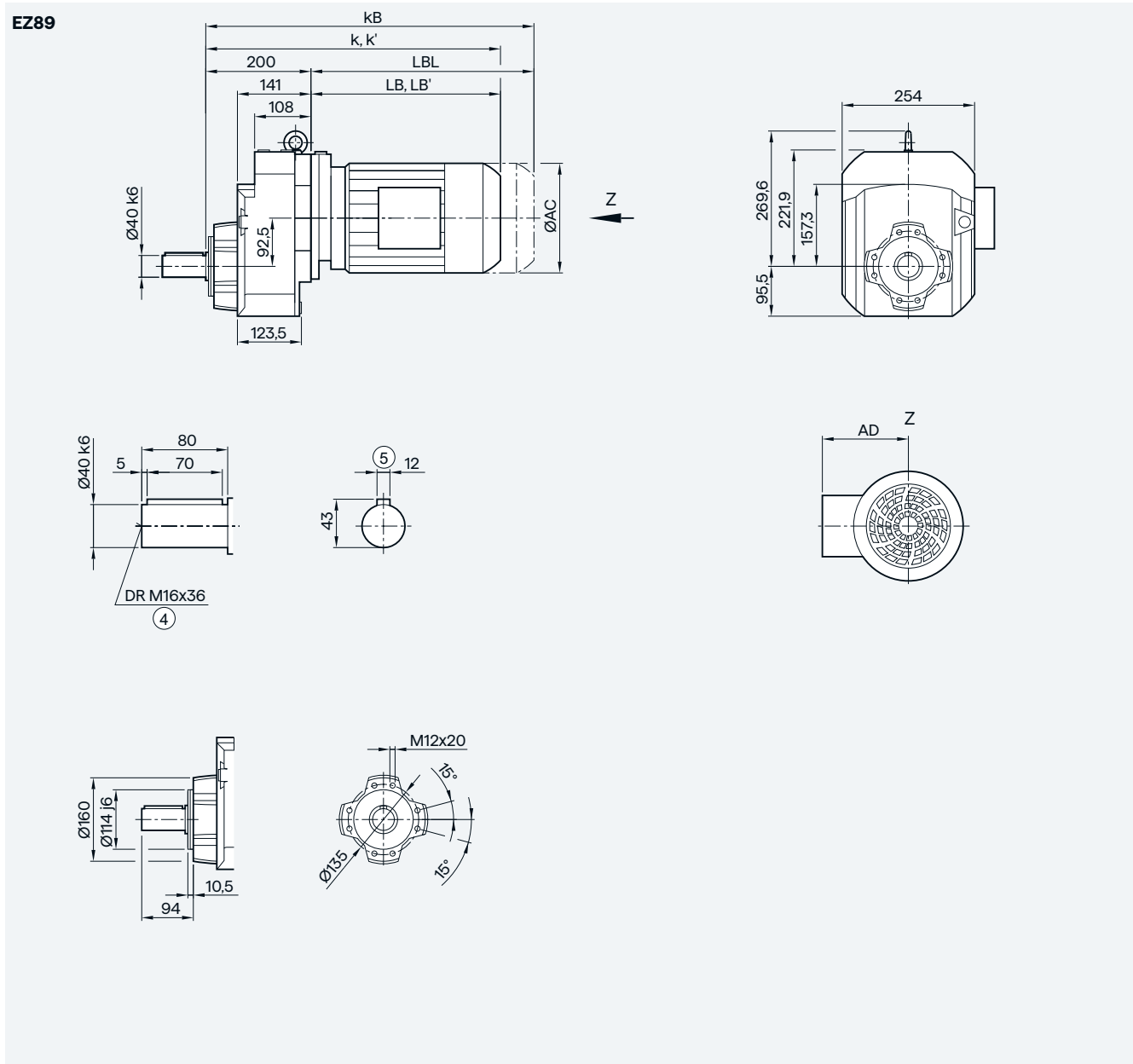
⑤ Feather key/keyway DIN 6885-1

Ⓢ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox EZ89 in a housing flange design



Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.5	496.5	523.0	563.0	575.5	610.5	585.5	610.5	638.5	688.5	720.5	780.5	793.5	823.5
k' ²⁾	—	—	—	—	569.0	604.0	574.5	599.5	629.0	679.0	705.5	765.5	—	—
kB	521.5	556.5	593.0	633.0	654.0	689.0	658.5	683.5	743.0	793.0	836.5	896.5	922.5	952.5
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

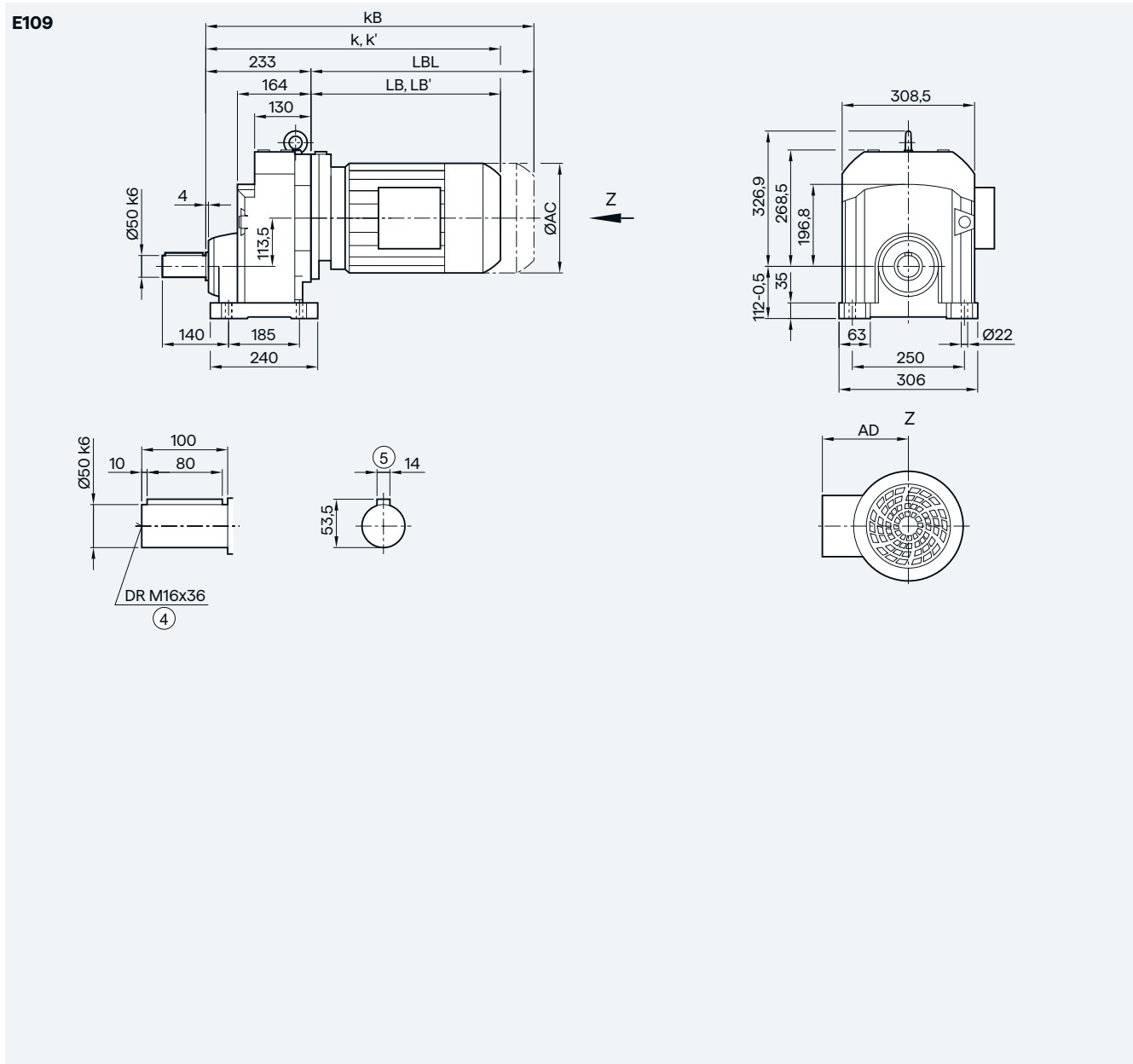
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

1-stage

Gearbox E109 in a foot-mounted design



Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0
k	549.0	589.0	599.5	634.5	609.5	634.5	662.5	712.5	744.5	804.5	817.5	847.5	885.5	910.5	931.0	991.0
k' ²⁾	—	—	593.0	628.0	598.5	623.5	653.0	703.0	729.5	789.5	—	—	—	—	—	—
kB	619.0	659.0	678.0	713.0	682.5	707.5	767.0	817.0	860.5	920.5	946.5	976.5	1032.5	1057.5	1159.0	1219.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LB' ²⁾	—	—	360.0	395.0	365.5	365.5	420.0	470.0	496.5	556.5	—	—	—	—	—	—
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

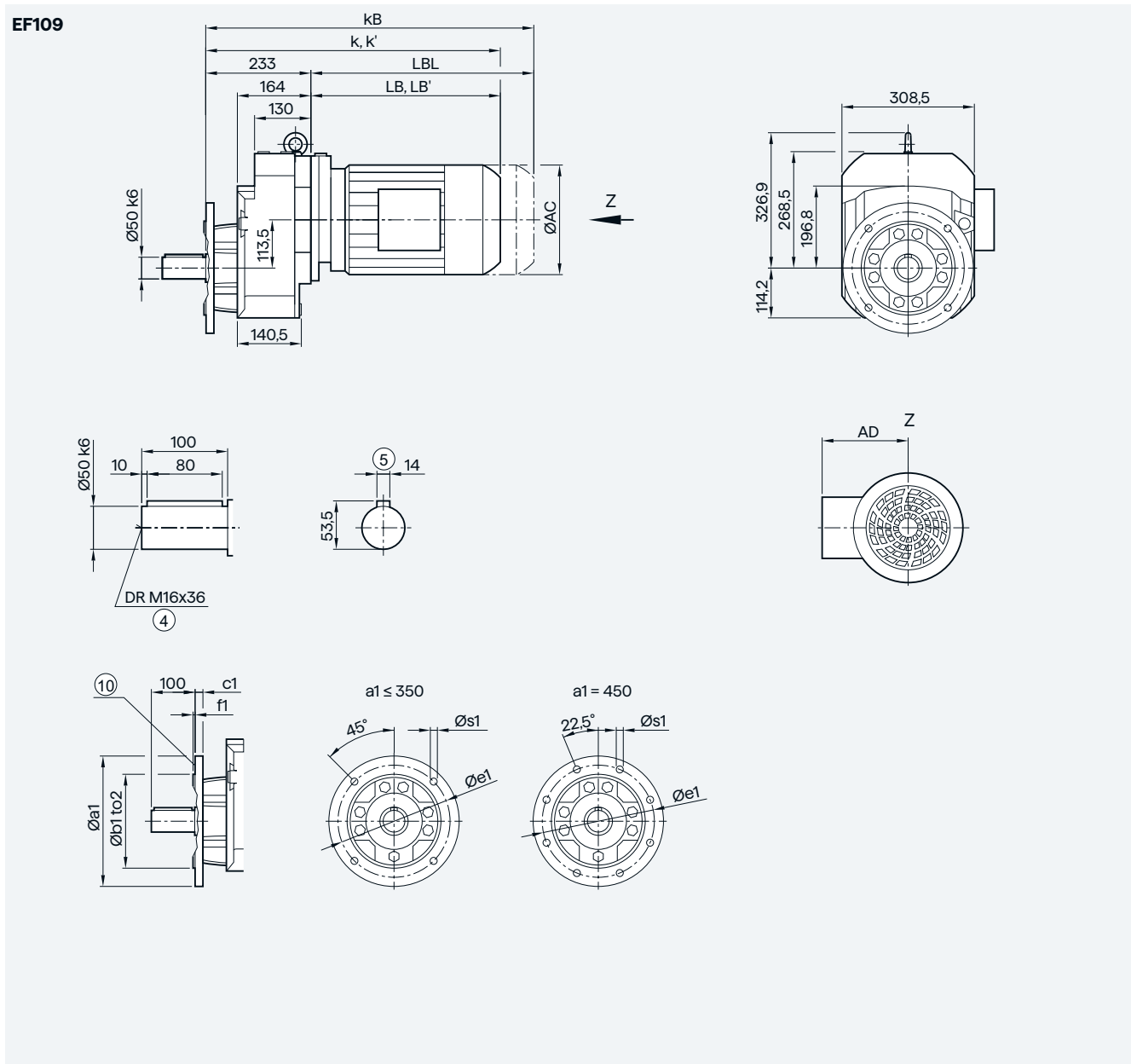
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox EF109 in a flange-mounted design



Flange	a1	b1	to2	c1	e1	f1	s1
	300	230	j6	16	265	4.0	13.5
	350	250	j6	18	300	5.0	17.5
	450	350	h6	18	400	5.0	17.5

Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0
k	549.0	589.0	599.5	634.5	609.5	634.5	662.5	712.5	744.5	804.5	817.5	847.5	885.5	910.5	931.0	991.0
k' ²⁾	—	—	593.0	628.0	598.5	623.5	653.0	703.0	729.5	789.5	—	—	—	—	—	—
kB	619.0	659.0	678.0	713.0	682.5	707.5	767.0	817.0	860.5	920.5	946.5	976.5	1032.5	1057.5	1159.0	1219.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LB' ²⁾	—	—	360.0	395.0	365.5	365.5	420.0	470.0	496.5	556.5	—	—	—	—	—	—
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

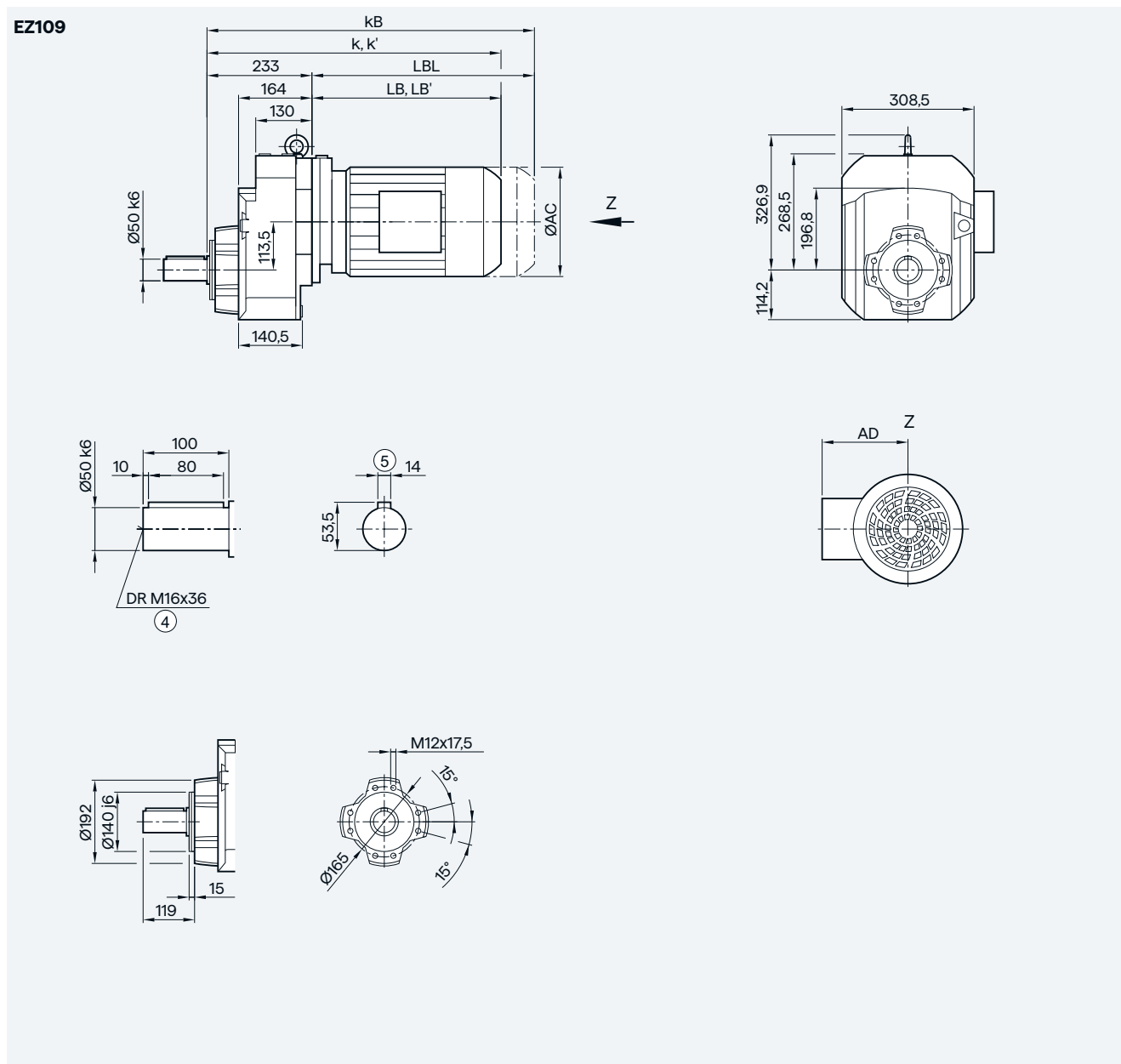
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

1-stage

Gearbox EZ109 in a housing flange design



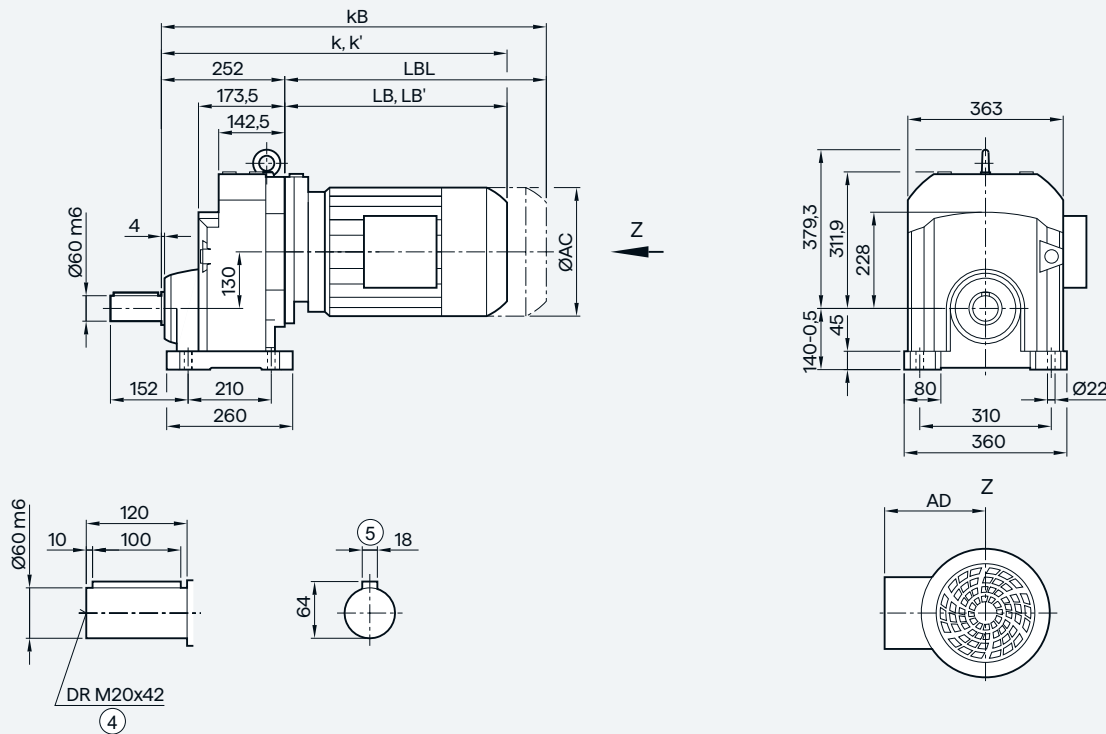
Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LE180	LES180Z	LES200	LES200Z	LES225	LES225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0
k	549.0	589.0	599.5	634.5	609.5	634.5	662.5	712.5	744.5	804.5	817.5	847.5	885.5	910.5	931.0	991.0
k' ²⁾	—	—	593.0	628.0	598.5	623.5	653.0	703.0	729.5	789.5	—	—	—	—	—	—
kB	619.0	659.0	678.0	713.0	682.5	707.5	767.0	817.0	860.5	920.5	946.5	976.5	1032.5	1057.5	1159.0	1219.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LB' ²⁾	—	—	360.0	395.0	365.5	365.5	420.0	470.0	496.5	556.5	—	—	—	—	—	—
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox E129 in a foot-mounted design**E129**

Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.0
k	561.0	601.0	609.5	644.5	619.5	644.5	670.5	720.5	752.5	812.5	825.5	855.5	893.5	918.5	945.0	1005.0	1050.5
k' ²⁾	—	—	603.0	638.0	608.5	633.5	661.0	711.0	737.5	797.5	—	—	—	—	—	—	—
KB	631.0	671.0	688.0	723.0	692.5	717.5	775.0	825.0	868.5	928.5	954.5	984.5	1040.5	1065.5	1173.0	1233.0	1275.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	693.0	753.0	798.5
LB' ²⁾	—	—	351.0	386.0	356.5	381.5	409.0	459.0	485.5	545.5	—	—	—	—	—	—	—
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	921.0	981.0	1023.5

④ DIN 332

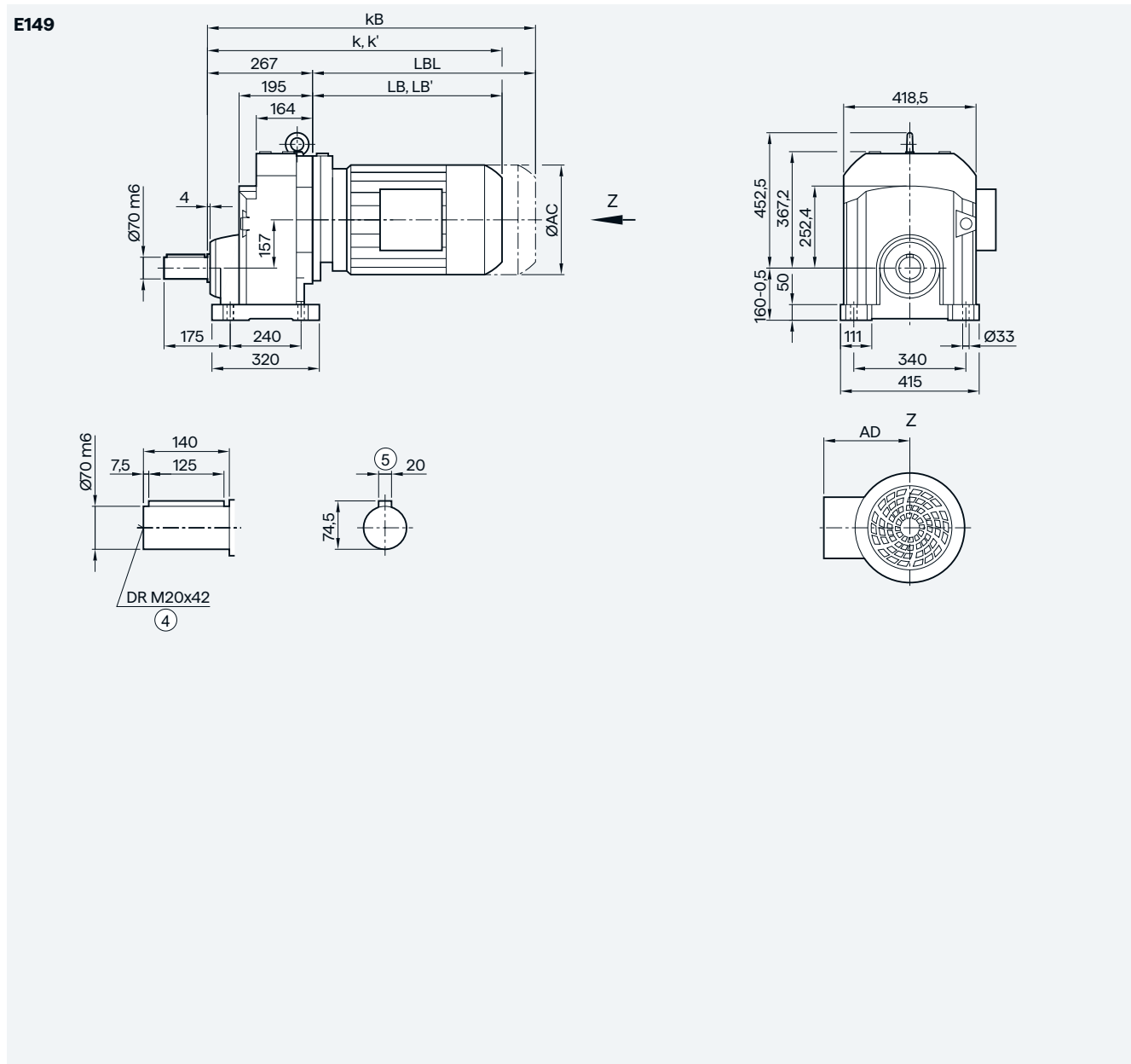
⑤ Feather key/keyway DIN 6885-1

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

1-stage

Gearbox E149 in a foot-mounted design



Motor	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.0
k	623.0	658.0	633.0	658.0	679.0	729.0	761.0	821.0	834.0	864.0	902.0	927.0	947.5	1007.5	1059.0
k' ²⁾	616.5	651.5	622.0	647.0	669.5	719.5	746.0	806.0	—	—	—	—	—	—	—
kB	701.5	736.5	706.0	731.0	783.5	833.5	877.0	937.0	963.0	993.0	1049.0	1074.0	1175.5	1235.5	1284.0
LB	356.0	391.0	366.0	391.0	412.0	462.0	494.0	554.0	567.0	597.0	635.0	660.0	680.5	740.5	792.0
LB' ²⁾	349.5	384.5	355.0	380.0	402.5	452.5	479.0	539.0	—	—	—	—	—	—	—
LBL	434.5	469.5	439.0	464.0	516.5	566.5	610.0	670.0	696.0	726.0	782.0	807.0	908.5	968.5	1017.0

④ DIN 332

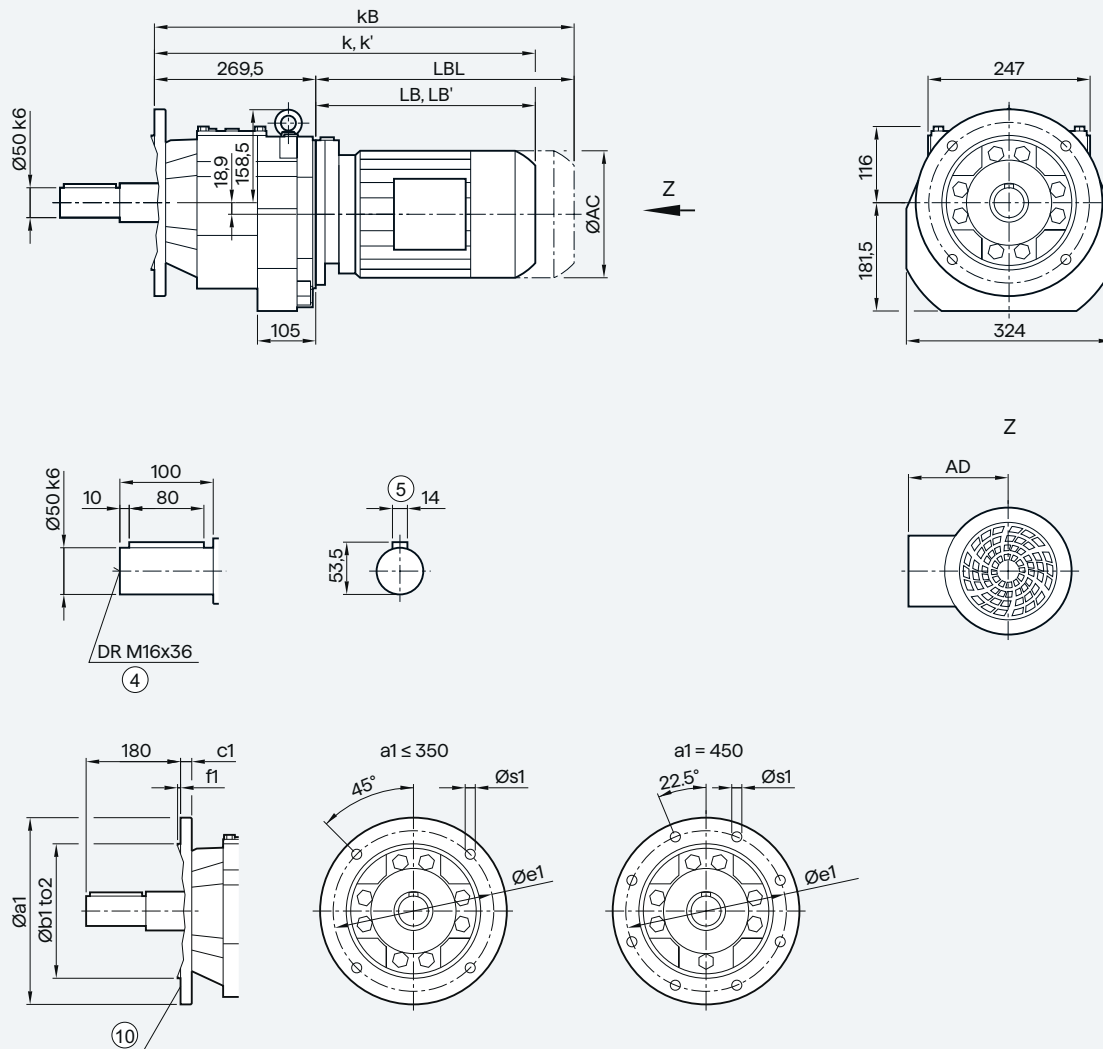
⑤ Feather key/keyway DIN 6885-1

1) AD depends on the motor options, for other dimensions, see page 9/46.

2) k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

Cooling tower geared motors

Gearbox ZKF89 in a flange-mounted design**ZKF89**

Flange	a1	b1	to2	c1	e1	f1	s1							
	300	230	j6	16	265	4.0	13.5							
	350	250	j6	18	300	5.0	17.5							
	450	350	h6	18	400	5.0	17.5							
Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	531.0	566.0	592.5	632.5	645.0	680.0	655.0	680.0	708.0	758.0	790.0	850.0	863.0	893.0
k' ²⁾	—	—	—	—	638.5	673.5	644.0	669.0	698.5	748.5	775.0	835.0	—	—
kB	591.0	626.0	662.5	702.5	723.5	758.5	728.0	753.0	812.5	862.5	906.0	966.0	992.0	1022.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

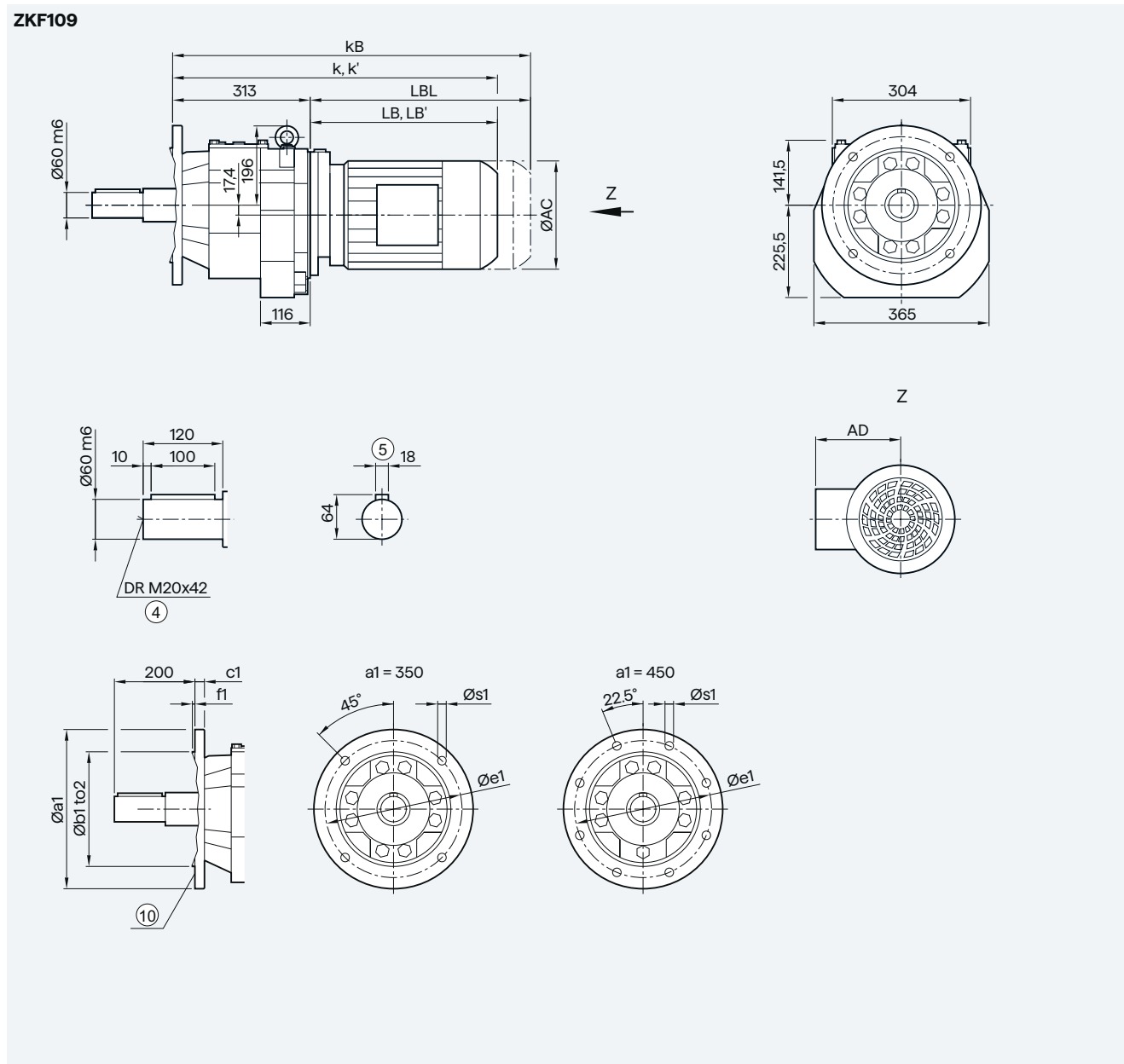
Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

Cooling tower geared motors

Gearbox ZKF109 in a flange-mounted design



Flange	a1	b1	to2	c1	e1	f1	s1									
	350	250	h6	18	300	5	17.5									
	450	350	h6	22	400	5	17.5									
Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0
k	629.0	669.0	679.5	714.5	689.5	714.5	742.5	792.5	824.5	884.5	897.5	927.5	965.5	990.5	1011.0	1071.0
k' ²⁾	—	—	673.0	708.0	678.5	703.5	733.0	783.0	809.5	869.5	—	—	—	—	—	—
kB	699.0	739.0	758.0	793.0	762.5	787.5	847.0	897.0	940.5	1000.5	1026.5	1056.5	1112.5	1137.5	1239.0	1299.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LB' ²⁾	—	—	360.0	395.0	365.5	390.5	420.0	470.0	496.5	556.5	—	—	—	—	—	—
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

Ⓣ For inner contour, see page 3/189

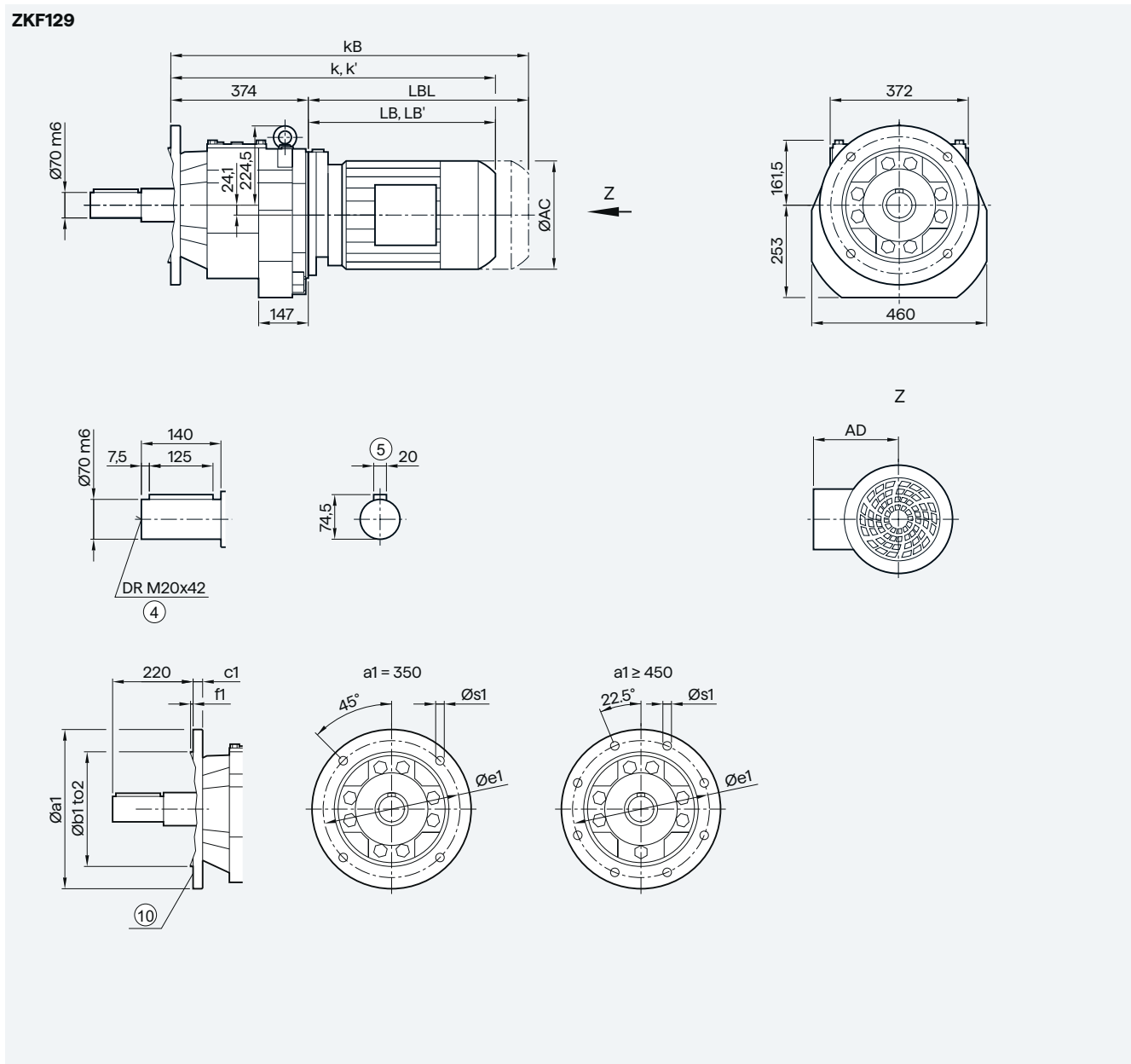
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

Cooling tower geared motors

Gearbox ZKF129 in a flange-mounted design



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LE180	LE180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	683.0	723.0	731.5	766.5	741.5	766.5	792.5	842.5	874.5	934.5	947.5	977.5	1015.5	1040.5	1067.0	1127.0	1172.5
k' ²⁾	—	—	725.0	760.0	730.5	755.5	783.0	833.0	859.5	919.5	—	—	—	—	—	—	—
kB	753.0	793.0	810.0	845.0	814.5	839.5	897.0	947.0	990.5	1050.5	1076.5	1106.5	1162.5	1187.5	1295.0	1355.0	1397.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	693.0	753.0	798.5
LB' ²⁾	—	—	351.0	386.0	356.5	381.5	409.0	459.0	485.5	545.5	—	—	—	—	—	—	—
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	921.0	981.0	1023.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

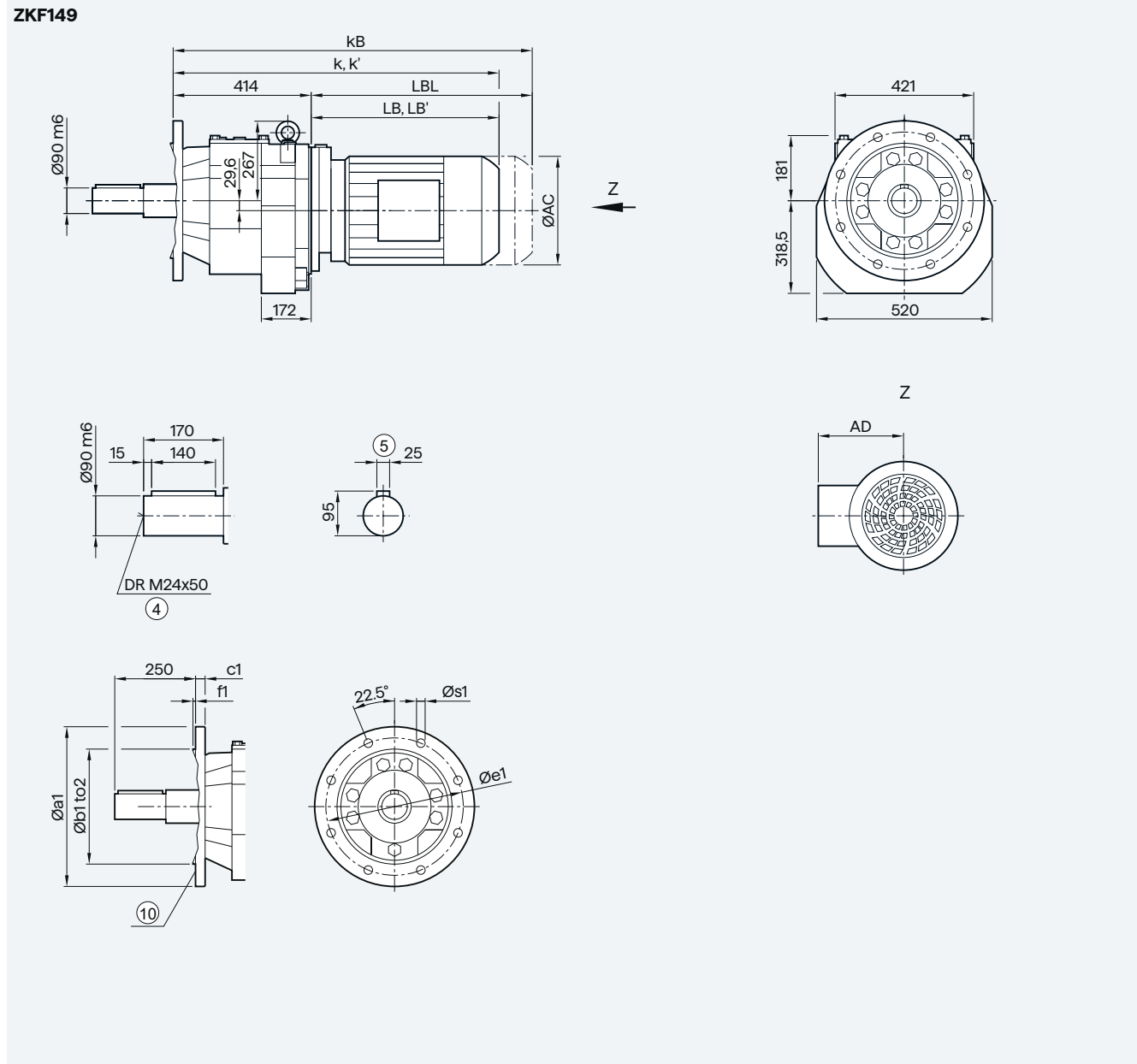
¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

Cooling tower geared motors

Gearbox ZKF149 in a flange-mounted design



Flange	a1	b1	to2	c1	e1	f1	s1								
	450	350	h6	22	400	5	17.5								
	550	450	h6	25	500	5	17.5								
Motor	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	770.0	805.0	780.0	805.0	826.0	876.0	908.0	968.0	981.0	1011.0	1049.0	1074.0	1094.5	1154.5	1206.0
k' ²⁾	763.5	798.5	769.0	794.0	816.5	866.5	893.0	953.0	—	—	—	—	—	—	—
kB	848.5	883.5	853.0	878.0	930.5	980.5	1024.0	1084.0	1110.0	1140.0	1196.0	1221.0	1322.5	1382.5	1431.0
LB	356.0	391.0	366.0	391.0	412.0	462.0	494.0	554.0	567.0	597.0	635.0	660.0	680.5	740.5	792.0
LB' ²⁾	349.5	384.5	355.0	380.0	402.5	452.5	479.0	539.0	—	—	—	—	—	—	—
LBL	434.5	469.5	439.0	464.0	516.5	566.5	610.0	670.0	696.0	726.0	782.0	807.0	908.5	968.5	1017.0

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

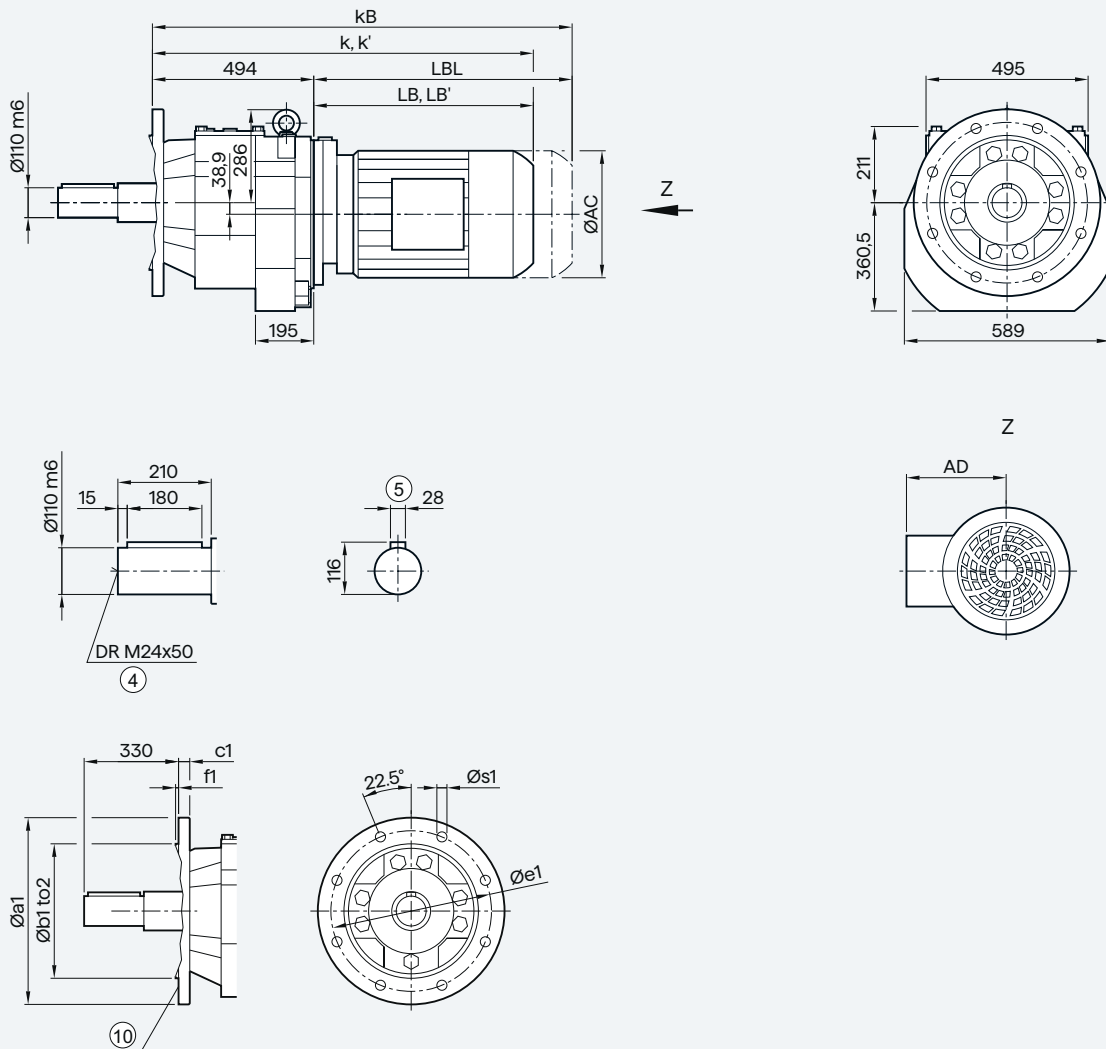
Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Gearbox ZKF169 in a flange-mounted design

ZKF169



Flange	a1	b1	to2	c1	e1	f1	s1
	450	350	h6	22	400	5	17.5
	550	450	h6	25	500	5	17.5
	660	550	h6	25	600	6	22.0

Motor	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	847.5	872.5	893.0	943.0	975.0	1035.0	1047.5	1077.5	1115.5	1140.5	1160.0	1220.0	1267.5
k' ²⁾	836.5	861.5	883.5	933.5	960.0	1020.0	—	—	—	—	—	—	—
kB	920.5	945.5	997.5	1047.5	1091.0	1151.0	1176.5	1206.5	1262.5	1287.5	1388.0	1448.0	1492.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LB' ²⁾	342.5	367.5	389.5	439.5	466.0	526.0	—	—	—	—	—	—	—
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

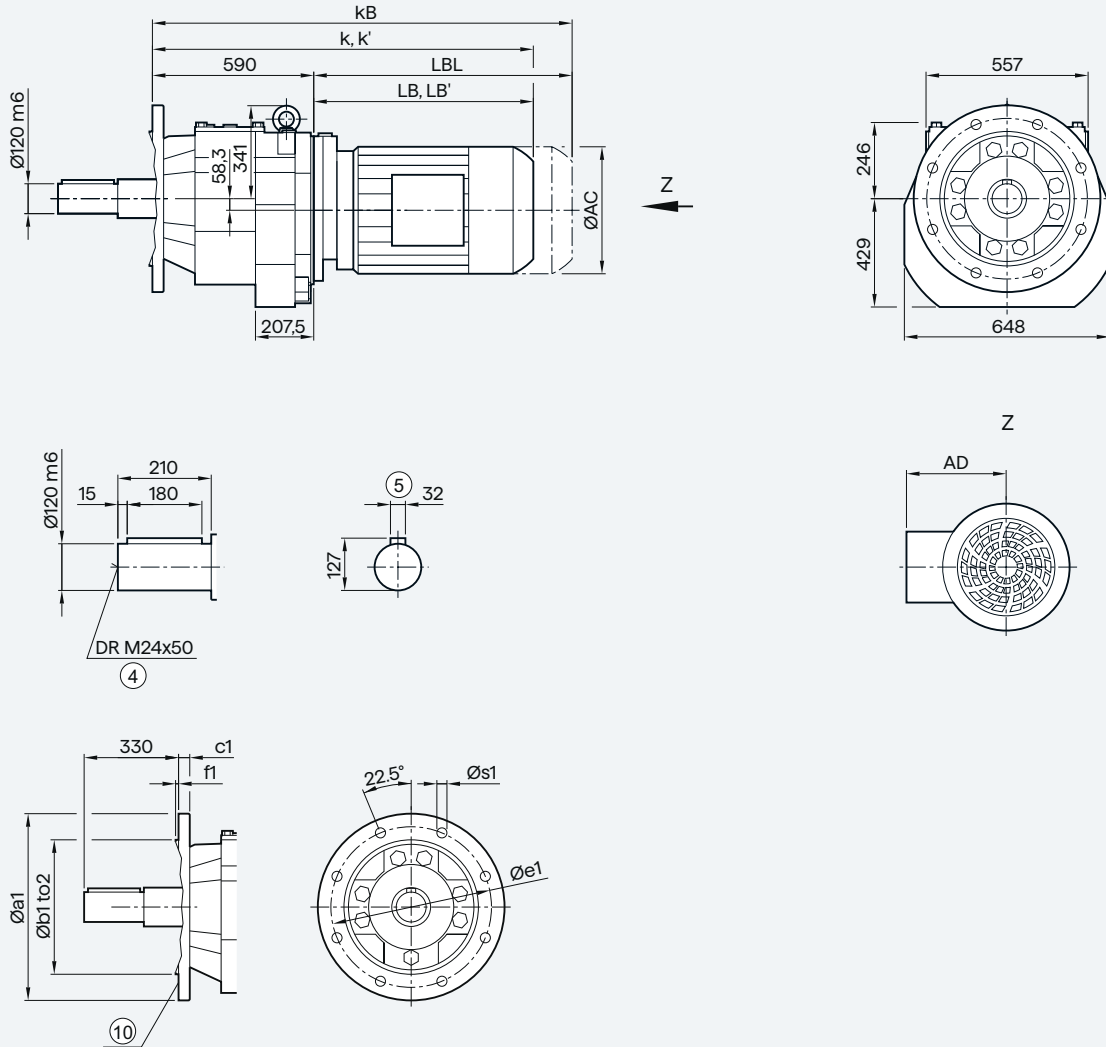
²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

Cooling tower geared motors

Gearbox ZKF189 in a flange-mounted design

ZKF189



Flange	a1	b1	to2	c1	e1	f1	s1						
	550	450	h6	25	500	5	17.5						
	660	550	h6	28	600	6	22.0						
Motor	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LES180	LES180Z	LES200	LES200Z	LES225	LES225Y	LES250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD ¹⁾	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	943.5	968.5	989.0	1039.0	1071.0	1131.0	1143.5	1173.5	1211.5	1236.5	1256.0	1316.0	1363.5
k' ²⁾	932.5	957.5	979.5	1029.5	1056.0	1116.0	—	—	—	—	—	—	—
kB	1016.5	1041.5	1093.5	1143.5	1187.0	1247.0	1272.5	1302.5	1358.5	1383.5	1484.0	1544.0	1588.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LB' ²⁾	342.5	367.5	389.5	439.5	466.0	526.0	—	—	—	—	—	—	—
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

④ DIN 332

⑤ Feather key/keyway DIN 6885-1

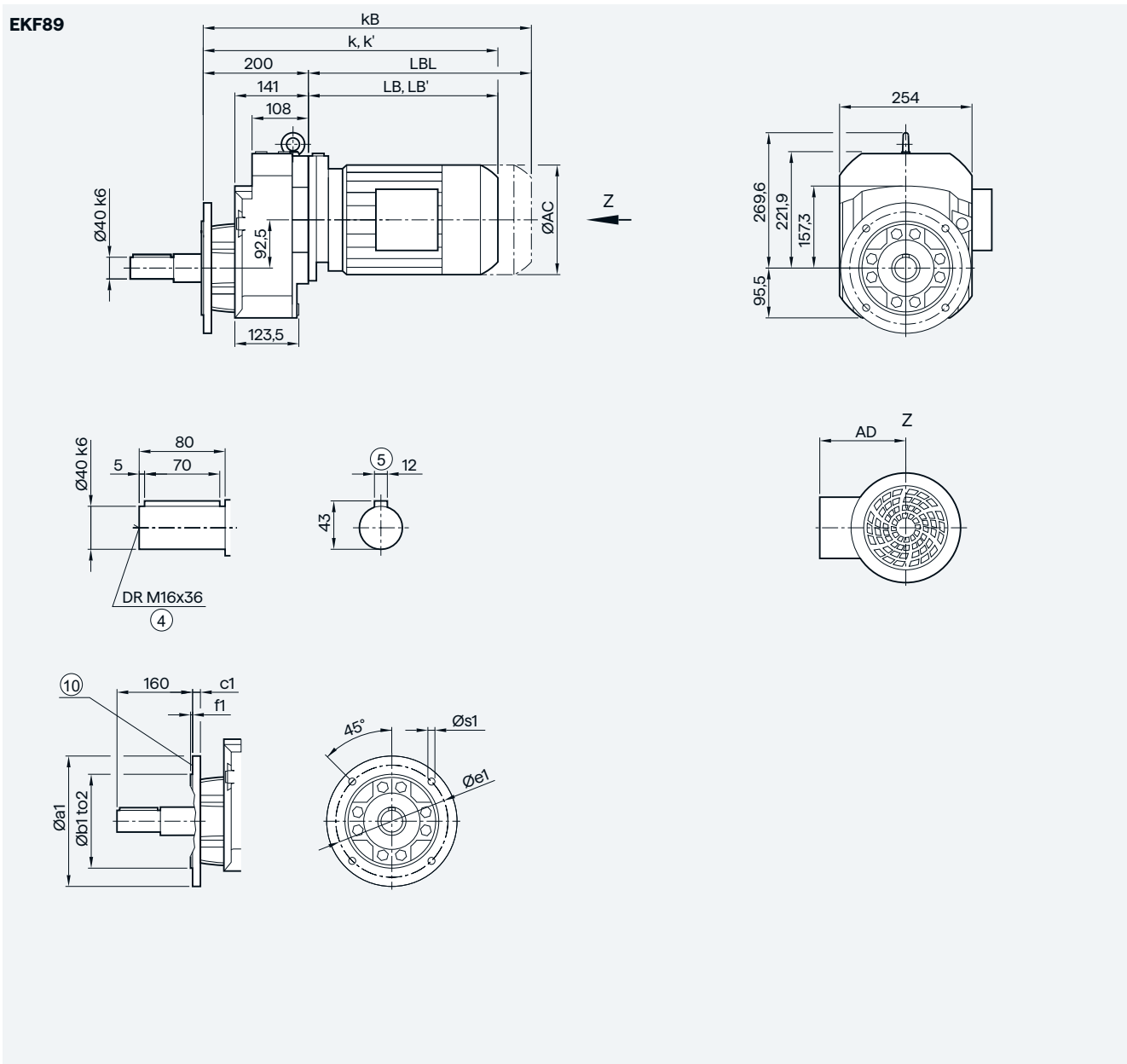
Ⓣ For inner contour, see page 3/189

¹⁾ AD depends on the motor options, for other dimensions, see page 9/46.

²⁾ k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

Cooling tower geared motors

Gearbox EKF89 in a flange-mounted design

Flange	a1	b1	to2	c1	e1	f1	s1							
	250	180	j6	15	215	4.0	13.5							
	300	230	j6	16	265	4.0	13.5							
	350	250	j6	16	300	5.0	17.5							
Motor	LE80	LE80Z	LE90/ FZ90	LE90Z/ FZ90Z	LE100	LE100Z	LE112	LE112Z	LE132	LE132Z	LE160	LE160Z	LE180	LE180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD ¹⁾	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.5	496.5	523.0	563.0	575.5	610.5	585.5	610.5	638.5	688.5	720.5	780.5	793.5	823.5
k' ²⁾	—	—	—	—	569.0	604.0	574.5	599.5	629.0	679.0	705.5	765.5	—	—
kB	521.5	556.5	593.0	633.0	654.0	689.0	658.5	683.5	743.0	793.0	836.5	896.5	922.5	952.5
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LB' ²⁾	—	—	—	—	369.0	404.0	374.5	399.5	429.0	479.0	505.5	565.5	—	—
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

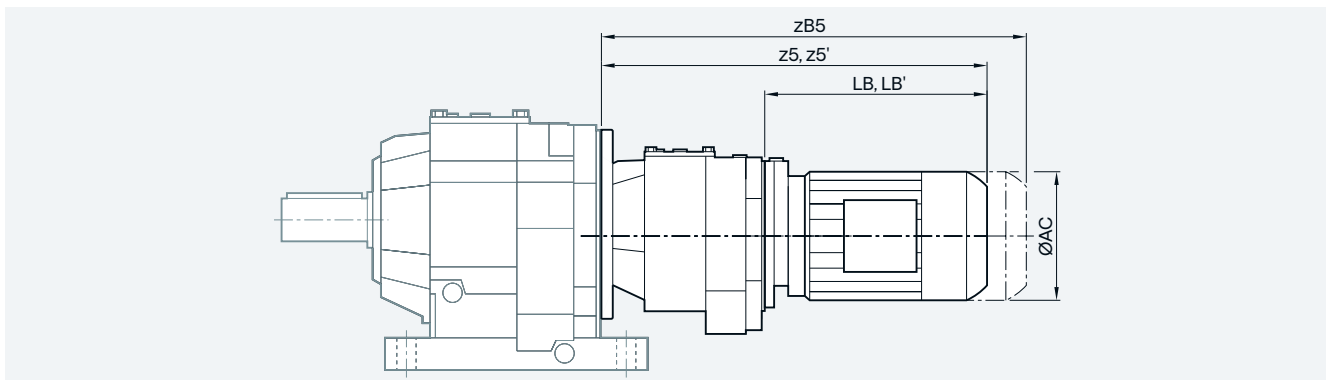
④ DIN 332

⑤ Feather key/keyway DIN 6885-1

⑩ For inner contour, see page 3/189

1) AD depends on the motor options, for other dimensions, see page 9/46.

2) k' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

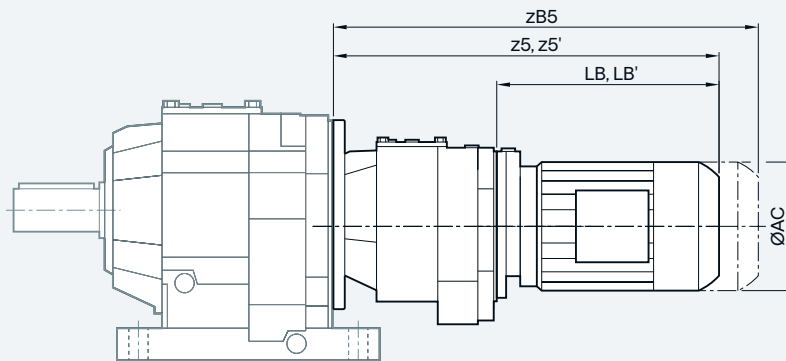
Helical tandem geared motors

Gearbox	Motor	AC	z5	z5' ¹⁾	zB5	LB	LB' ¹⁾	Gearbox	Motor	AC	z5	z5' ¹⁾	zB5	LB	LB' ¹⁾
Z./D.29-Z/D19	LE63	117.8	331.0	—	375.5	160.5	—	D.109-Z/D39	LE63	117.8	347.5	—	392.0	194.0	—
	LE63Z	117.8	357.0	—	401.5	186.5	—		LE63Z	117.8	373.5	—	418.0	220.0	—
Z./D.39-Z/D19	LE63	117.8	331.0	—	375.5	160.5	—	LE/FZ71	138.8	379.5	—	434.5	226.0	—	
	LE63Z	117.8	357.0	—	401.5	186.5	—	LE/FZ71Z	138.8	398.5	—	453.5	245.0	—	
	LE/FZ71	138.8	363.0	—	418.0	184.5	—	LE71Y	138.8	438.5	—	493.5	285.0	—	
	LE/FZ71Z	138.8	382.0	—	437.0	203.5	—	LE80	156.3	443.5	—	503.5	290.0	—	
	LE71Y	138.8	424.0	—	477.0	243.5	—	LE80Z	156.3	478.5	—	538.5	325.0	—	
Z./D.49-Z/D19	LE63	117.8	322.0	—	366.5	160.5	—	LE/FZ90	173.8	505.0	—	575.0	351.5	—	
	LE63Z	117.8	348.0	—	392.5	186.5	—	LE/FZ90Z	173.8	545.0	—	615.0	391.5	—	
	LE/FZ71	138.8	354.0	—	409.0	184.5	—	LE100	198.0	561.5	555.0	640.0	408.0	401.5	
	LE/FZ71Z	138.8	373.0	—	428.0	203.5	—	LE100Z	198.0	596.5	590.0	675.0	443.0	436.5	
	LE71Y	138.8	413.0	—	468.0	243.5	—	D.129-Z/D49	LE63	117.8	376.5	—	421.0	184.5	—
Z./D.59-Z/D19	LE63	117.8	322.0	—	366.5	160.5	—	LE63Z	117.8	402.5	—	447.0	210.5	—	
	LE63Z	117.8	348.0	—	392.5	186.5	—	LE/FZ71	138.8	408.5	—	463.5	216.5	—	
	LE/FZ71	138.8	354.0	—	409.0	184.5	—	LE/FZ71Z	138.8	427.5	—	482.5	235.5	—	
	LE/FZ71Z	138.8	373.0	—	428.0	203.5	—	LE71Y	138.8	467.5	—	522.5	275.5	—	
	LE71Y	138.8	413.0	—	468.0	243.5	—	LE80	156.3	472.5	—	532.5	280.5	—	
	LE80	156.3	410.0	—	470.0	240.0	—	LE80Z	156.3	507.5	—	567.5	315.5	—	
	LE80Z	156.3	445.0	—	505.0	275.0	—	LE/FZ90	173.8	534.0	—	604.0	342.0	—	
Z./D.69-Z/D19	LE63	117.8	322.0	—	366.5	160.5	—	LE/FZ90Z	173.8	574.0	—	644.0	382.0	—	
	LE63Z	117.8	348.0	—	392.5	186.5	—	LE100	198.0	590.5	584.0	669.0	398.5	392.0	
	LE/FZ71	138.8	354.0	—	409.0	184.5	—	LE100Z	198.0	625.5	619.0	704.0	433.5	427.0	
	LE/FZ71Z	138.8	373.0	—	428.0	203.5	—	LE112	222.0	600.5	589.5	673.5	408.5	397.5	
	LE71Y	138.8	413.0	—	468.0	243.5	—	LE112Z	222.0	635.0	624.0	708.0	443.0	432.0	
	LE80	156.3	410.0	—	470.0	240.0	—	D.149-Z/D49	LE63	117.8	366.0	—	410.5	184.5	—
	LE80Z	156.3	445.0	—	505.0	275.0	—	LE63Z	117.8	392.0	—	436.5	210.5	—	
Z./D.79-Z/D39	LE63	117.8	373.5	—	418.0	194.0	—	LE/FZ71	138.8	398.0	—	453.0	216.5	—	
	LE63Z	117.8	399.5	—	444.0	220.0	—	LE/FZ71Z	138.8	417.0	—	472.0	235.5	—	
	LE/FZ71	138.8	405.5	—	460.5	226.0	—	LE71Y	138.8	457.0	—	512.0	275.5	—	
	LE/FZ71Z	138.8	424.5	—	479.5	245.0	—	LE80	156.3	462.0	—	522.0	280.5	—	
	LE71Y	138.8	464.5	—	519.5	285.0	—	LE80Z	156.3	497.0	—	557.0	315.5	—	
	LE80	156.3	469.5	—	529.5	290.0	—	LE/FZ90	173.8	523.5	—	593.5	342.0	—	
	LE80Z	156.3	504.5	—	564.5	325.0	—	LE/FZ90Z	173.8	563.5	—	633.5	382.0	—	
Z./D.89-Z/D39	LE63	117.8	356.5	—	401.0	194.0	—	LE100	198.0	580.0	573.5	658.5	398.5	392.0	
	LE63Z	117.8	382.5	—	427.0	220.0	—	LE100Z	198.0	615.0	608.5	693.5	433.5	427.0	
	LE/FZ71	138.8	388.5	—	443.5	226.0	—	LE112	222.0	590.0	579.0	663.0	408.5	397.5	
	LE/FZ71Z	138.8	407.5	—	462.5	245.0	—								
	LE71Y	138.8	447.5	—	502.5	285.0	—								
	LE80	156.3	452.5	—	512.5	290.0	—								
	LE80Z	156.3	487.5	—	547.5	325.0	—								
	LE/FZ90	173.8	514.0	—	584.0	351.5	—								
	LE/FZ90Z	173.8	554.0	—	624.0	391.5	—								

¹⁾ z5' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Helical geared motors

Helical tandem geared motors

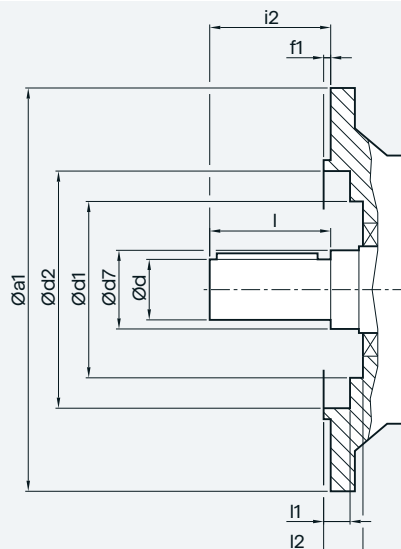


Gearbox	Motor	AC	z5	z5' ¹⁾	zB5	LB	LB' ¹⁾
D.169-Z/D69	LE63	117.8	391.5	—	436.0	184.5	—
	LE63Z	117.8	417.5	—	462.0	210.5	—
	LE71	138.8	423.5	—	478.5	216.5	—
	LE/FZ71	138.8	442.5	—	497.5	235.5	—
	LE/FZ71Z	138.8	482.5	—	539.5	275.5	—
	LE71Y	156.3	487.5	—	547.5	280.5	—
	LE80	156.3	522.5	—	582.5	315.5	—
	LE80Z	173.8	549.0	—	619.0	342.0	—
	LE/FZ90	173.8	589.0	—	659.0	382.0	—
	LE/FZ90Z	198.0	605.5	599.0	684.0	398.5	392.0
	LE100Z	198.0	640.5	634.0	719.0	433.5	427.0
	LE112	222.0	615.5	604.5	688.5	408.5	397.5
	LE112Z	222.0	650.0	639.0	723.0	443.0	432.0
	LE132	264.0	668.5	659.0	773.0	461.5	452.0
LE132Z	264.0	718.5	709.0	823.0	511.5	502.0	
D.189-Z/D69	LE63	117.8	391.5	—	436.0	184.5	—
	LE63Z	117.8	417.5	—	462.0	210.5	—
	LE/FZ71	138.8	423.5	—	478.5	216.5	—
	LE/FZ71Z	138.8	442.5	—	497.5	235.5	—
	LE71Y	138.8	482.5	—	537.5	275.5	—
	LE80	156.3	487.5	—	547.5	280.5	—
	LE80Z	156.3	522.5	—	582.5	315.5	—
	LE/FZ90	173.8	549.0	—	619.0	342.0	—
	LE/FZ90Z	173.8	589.0	—	659.0	382.0	—
	LE100	198.0	605.5	599.0	684.0	398.5	392.0
	LE100Z	198.0	640.5	634.0	719.0	433.5	427.0
	LE112	222.0	615.5	604.5	688.5	408.5	397.5
	LE112Z	222.0	650.0	639.0	723.0	443.0	432.0
	LE132	264.0	668.5	659.0	773.0	461.5	452.0
LE132Z	264.0	718.5	709.0	823.0	511.5	502.0	

¹⁾ z5' and LB' dimensions apply to IE3 motors without mounted components in sizes 100 to 160. For detailed information, see page 9/2.

Inner contour of the flange-mounted design

Notes regarding the design of the customer's interface.

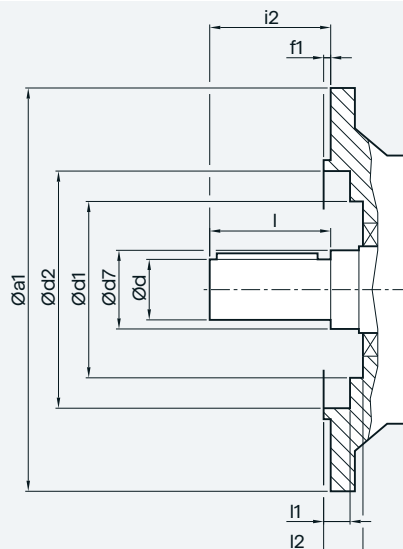


Gearbox	a1	d	d7	d1 ZF/DF	d1 ZB/DB	d2	f1	i2	l	i1 ZF/DF	i1 ZB/DB	i2		
Helical gearbox ZF/DF or ZB/DB														
ZF/DF19	120	16	25	48.0	-	72.0	3.0	28	28	1.0	-	6		
		16							40					
		20							40					
140	16	25	48.0	-	87.0	3.0	28	28	1.0	-	6			
								16				40		
								20				40		
160	16	25	48.0	-	102.0	3.5	28	28	1.0	-	6.5			
								16				40		
								20				40		
ZF/DF29, ZB/DB29	120	25	30	56.0	56.0	72.0	3.0	50	50	2.0	2.0	8		
ZF/DF29	140	25	30	56.0	-	87.0	3.5	50	50	2.0	-	7		
													160	102.0
ZF/DF39, ZB/DB39	120	25	35	69.0	66.0	72.0	3.0	50	50	4.0	4.0	9		
		30							60					
ZF/DF39	160	25	35	66.5	-	102.0	3.5	50	50	1.5	-	6.5		
		30							60					
		200							25				35	66.5
30	60													
ZF/DF49, ZB/DB49	140	30	35	79.0	79.0	84.5	3.0	60	60	4.0	4.0	9.5		
ZF/DF49	160	30	35	79.0	-	94.5	3.5	60	60	5.5	-	11		
									200				30	121.0
ZF/DF59, ZB/DB59	160	30	40	88.0	88.0	94.5	3.5	60	60	4.5	4.5	11		
		35	40						70				70	
		40	45						80				80	
ZF/DF59	200	30	40	88.0	-	115.0	3.5	60	60	4.5	-	9		
		35	40						70				70	
		40	45						80				80	
250	30	40	88.0	-	168.0	4.0	60	60	4.0	-	10.5			
								35				40	70	70
								40				45	80	80
ZF/DF69, ZB/DB69	200	35	47	105.0	105.0	115.0	3.5	70	70	4.5	4.5	11		
ZF/DF69	250	35	47	105.0	-	168.0	4.0	70	70	4.0	-	10.5		
ZF/DF79, ZB/DB79	250	35	52	113.0	114.5	168.0	4.0	70	70	0.5	2.5	7.5		
		40							80					
		50							100					
ZF/DF79	300	35	52	113.0	-	217.0	4.0	70	70	0.5	-	7.5		
		40							80					
		50							100					
350	35	52	113.0	-	238.0	5.0	70	70	0.5	-	8.5			
								40				80		
								50				100		

Helical geared motors

Inner contour of the flange-mounted design

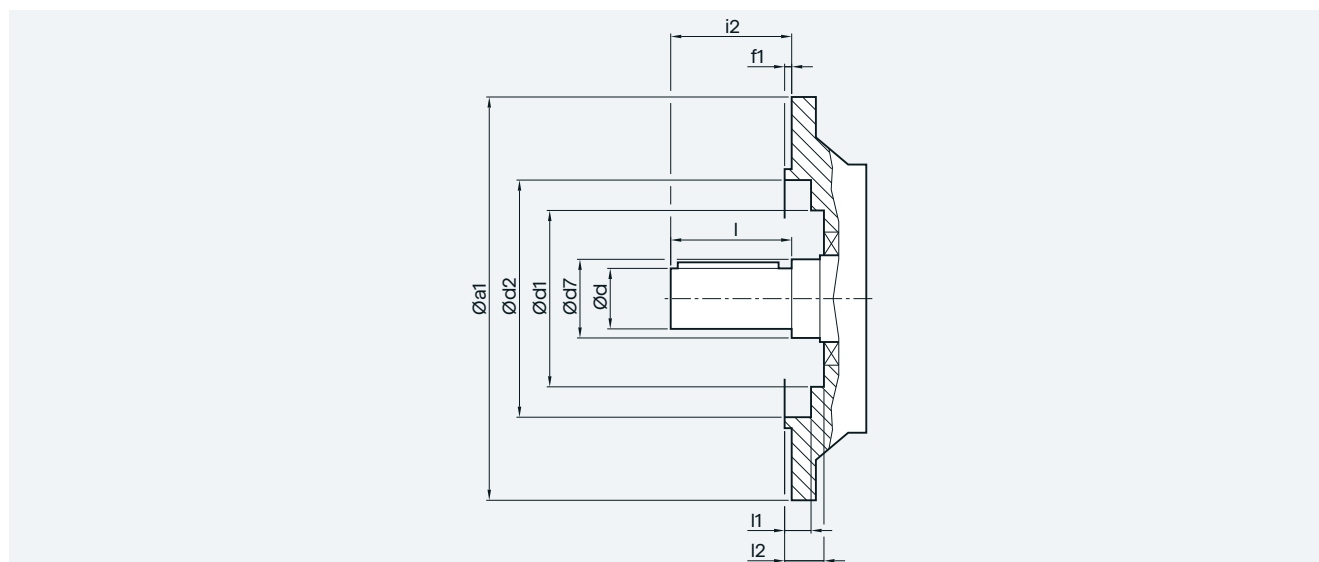
Notes regarding the design of the customer's interface.



Gearbox	a1	d	d7	d1 ZF/DF	d1 ZB/DB	d2	f1	i2	l	l1 ZF/DF	l1 ZB/DB	l2
Helical gearbox ZF/DF or ZB/DB												
ZF/DF89, ZB/DB89	300	50	62	143.0	143.0	218.0	4.0	100	100	1.5	1.5	8
		60						120	120			
ZF/DF89	350	50	62	143.0	-	238.0	5.0	100	100	2.5	-	9
		60						120	120			
	450	50	62	143.0	-	334.0	5.0	100	100	0.5	-	9
		60						120	120			
ZF/DF109	350	60	65	157.0	-	236.0	5.0	120	120	2.0	-	9
	450			168.0		335.0		120	120	0		
ZF/DF129	350	70	75	180.0	-	236.0	5.0	140	140	7.5	-	9
	450					330.0		140	140			
	550					428.0		140	140	5.0	-	9
ZF/DF149	450	90	100	225.0	-	330.0	5.0	170	170	2.5	-	10
	550					430.0		170	170			
ZF/DF169	450	100	120	235.0	-	330.0	5.0	210	210	0.5	-	10
		110						210	210			
	550	100	120	235.0	-	430.0	5.0	210	210	0.5	-	10
		110						210	210			
	660	100	120	235.0	-	530.0	6.0	210	210	0	-	11
		110						210	210			
ZF/DF189	550	120	140	274.0	-	430.0	5.0	210	210	0	-	10
	660					530.0	6.0	210	210	1.0	-	11
Helical gearbox ZF/DF with VLplus reinforced bearing system (G30)												
ZF/DF89	300	60	70	143	-	218.0	4.0	120	120	1.5	-	8.0
	350					238.0	5.0			2.5		9.0
	450					334.0				0.5		
ZF/DF109	350	70	75	157	-	236.0	5.0	140	140	2.0	-	9.0
	450			168		335.0				0		
ZF/DF129	350	90	95	180	-	236.0	5.0	170	170	7.5	-	10.0
	450					330.0				7.5		
	550					428.0				5.0		
ZF/DF149	550	100	120	225	-	430.0	5.0	210	210	5.5	-	11.0
ZF/DF169	450	120	140	235	-	330.0	5.0	210	210	0.5	-	10.0
	550					430.0						
	660					530.0	6.0			0		11.0
Helical gearbox EF												
EF39	120	20	35	-	-	72.0	3.0	40	40	6.0	-	-
	140					80.0						
	160			87		100.0	3.5	40	40	5.5		6.5
	200					121.0						
EF49	160	25	40	88	-	94.5	3.5	50	50	4.5	-	11.0
	200					115.0						9.0
	250					168.0	4.0	50	50	4.0		10.5

Inner contour of the flange-mounted design

Notes regarding the design of the customer's interface.



Gearbox	a1	d	d7	d1	d2	f1	i2	l	i1	i2
Helical gearbox EF										
EF69	200	30	40	105	115.0	3.5	60	60	4.5	11.0
	250				168.0	4.0			4.0	10.5
EF89	250	40	45	113	168.0	4.0	80	80	0.5	7.5
	300				217.0					
	350				238.0	5.0				
EF109	300	50	55	143	218.0	4.0	100	100	1.5	8.0
	350				238.0	5.0			2.5	9.0
	450				334.0	0.5			9.0	
EF129	350	60	65	157	236.0	5.0	120	120	2.0	9.0
	450			168	335.0	0				
EF149	350	70	75	180	236.0	5.0	140	140	7.5	9.0
	450			180	330.0					
	550			180	428.0	5.0				
Cooling tower gearbox ZKF										
ZKF89	300	50	62	143	218.0	4.0	180	100	1.5	8.0
	350				238.0	5.0			2.5	9.0
	450				334.0	0.5				
ZKF109	350	60	65	157	236.0	5.0	200	120	2.0	9.0
	450			168	335.0	0				
ZKF129	350	70	75	180	236.0	5.0	220	140	7.5	9.0
	450			330.0						
	550			428.0	5.0					
ZKF149	450	90	100	225	330.0	5.0	250	170	2.5	10.0
	550			430.0						
ZKF169	450	110	120	235	330.0	5.0	330	210	0.5	10.0
	550			430.0						
	660			530.0	6.0	0			11.0	
ZKF189	550	120	140	274	430.0	5.0	330	210	0	10.0
	660			530.0	6.0	1.0			11.0	
Cooling tower gearbox EKF										
EKF89	250	40	45	113	168	4.0	160	80	0.5	7.5
	300				217					
	350				238	5.0				
EKF109	300	50	55	143	218	4.0	180	100	1.5	8.0
	350				238	5.0			2.5	9.0
	450				334	0.5				
EKF129	350	60	65	157	236	5.0	200	120	2.0	9.0
	450			168	335	0				
EKF149	350	70	75	180	236	5.0	220	140	7.5	9.0
	450			330						
	550			428	5.0					