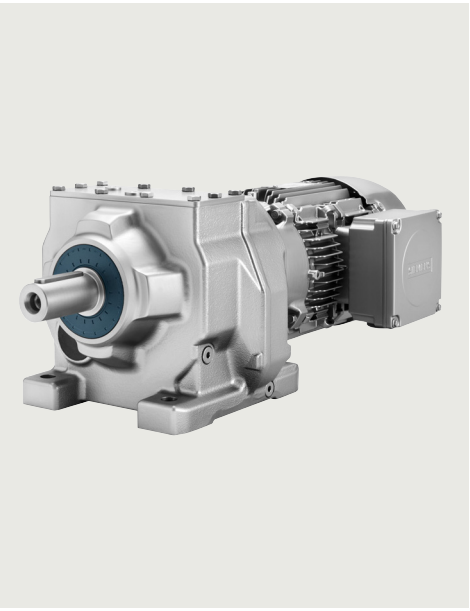


Orientation

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

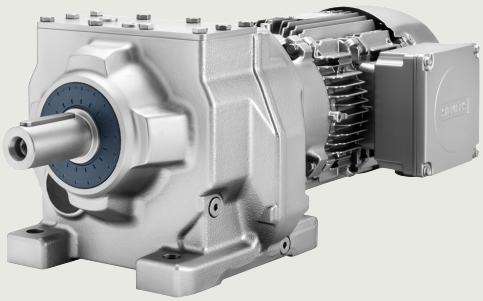


Fig. 3/1 Helical geared motor Z/D

Designs	Mounting	Frame sizes	Maximum output torque T_{2N} Nm	Transmission ratio i –	Maximum motor power [1] P_1 kW	Supported motors
• 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	Solid shaft design with and without feather key	Z19 … Z189 D19 … D189	100 … 19000 100 … 19000	3.4 … 62.48 36 … 328	55	• Converter World Motor • Induction motors • Synchronous reluctance motors • VSD10 line motors • Explosion-protected motors
• Cooling tower design		ZK89 … ZK189	1060 … 19000	3.85 … 62.48		
• Tandem geared motors		D29-Z19 … D189-D69	140 … 19000	325 …27816	7.5	

Helical geared motors 1-stage for high output speeds

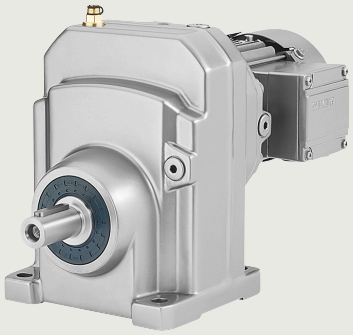


Fig. 3/2 Helical geared motor E

Designs	Mounting	Frame sizes	Maximum output torque T_{2N} Nm	Transmission ratio i –	Maximum motor power [1] P_1 kW	Supported motors
• Foot-mounted design • Flange-mounted design • Design with integrated housing flange	Solid shaft design with and without feather key	E39 … E149	30 … 1490	1.29 … 9.79	55	• Converter World Motor • Induction motors • Synchronous reluctance motors
• Cooling tower design		EK89 … EK149	280 … 1490	1.3 … 9.79		• VSD10 line motors • Explosion-protected motors

[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**	–

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

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	**Z.29-LE63MCA4**							
	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**	–
	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**	–

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
0.12	**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**	–
	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**	–

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

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
0.12	**Z.19-LE63ZMH4P**							
	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**	–
	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**	–

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	**D.39-LE63ZMK4P**							
	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**	–
	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**	–

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

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.19-LE63ZMK4P**							
	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**	–
	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**

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	**D.69-LE71YMS6P**							
	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**	–

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

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**							
	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**	–
	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**	–

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.19-LE71ZMK4P**							
	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**
	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-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-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**	–

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

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	**D.69-LE71YMS4P**							
	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**	–
	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-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-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-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-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-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-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**	–

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**							
	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**	–
	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-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-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**	–
	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**	–

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

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.19-LE71YMS4P**							
	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-LE71YMS4P							
	142	25	9.70	4000	3.5	19	**2KJ3002- ■ CE23- ■ ■ S1 -Z**	–
	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-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**	–

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	**D.79-LE80MH4P**							
	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-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**	–
	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-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-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-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-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-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**	–
	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**	–

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

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-LE80MH4P**							
	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-LE80MH4P							
	34	154	42.17	3340	0.91	16	**2KJ3202- ■ DC23- ■ ■ A1 -Z**	–
	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**	–
	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-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**

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**							
	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**
	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-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-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-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**	–
	D.79-LE80ZMQ4P							
	7	1020	207.10	11200	0.82	44	**2KJ3207- ■ DF23- ■ ■ 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

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-LE80ZMQ4P**							
	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-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-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-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-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-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-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-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**	–

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.39-LE80ZMQ4P**							
	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**	–
	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-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-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**	–

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

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-LE80ZMQ4P**							
	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-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-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-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**	–

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	**E.39-LE80ZMQ4P**							
	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**	–
	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-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-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-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**	–

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

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.69-LE90SM4P**							
	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-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-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**	–
	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-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**	–
	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**	–

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**							
	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-LE80ZMJ2P							
	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-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**	–
	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**
	Z.29-LE80ZMJ2P							
	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-LE80ZMJ2P							
	152	69	18.92	1570	1.5	13	**2KJ3101- ■ DM23- ■ ■ R1 -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

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.19-LE80ZMJ2P**							
	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-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**	–
	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**	–
	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**	–

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.39-LE90SM4P**							
	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-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**
	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-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-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-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**	–
	22	660	66.67	13600	1.3	49	**2KJ3207- ■ EM23- ■ ■ C1 -Z**	–
	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**	–

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

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.79-LE90ZLR4P**							
	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-LE90ZLR4P							
	20	725	73.22	10700	0.83	37	**2KJ3206- ■ EM23- ■ ■ D1 -Z**	–
	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-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-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**	–

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	**Z.49-LE90ZLR4P**							
	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**
	177	81	16.42	3970	4	27	**2KJ3104- ■ EK23- ■ ■ N1 -Z**	**P00**
	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-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- ■ ■ N1 -Z**	–
	129	111	11.16	2040	1.3	20	**2KJ3102- ■ EM23- ■ ■ M1 -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**	–

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

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-LE90ZLR4P**							
	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-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-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-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**	–

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.49-LE90ZLR4P**							
	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-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-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-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**	–
	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-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**	–

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

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.89-LE100ZLSA4P**							
	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-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-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-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**	–
	D.69-LE100ZLSA4P							
	32	660	46.01	10800	0.91	55	**2KJ3206- ■ FN23- ■ ■ A1 -Z**	–
	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-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**	–
	112	188	13.09	5310	2.4	50	**2KJ3105- ■ FN23- ■ ■ 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
2.2	**Z.59-LE100ZLSA4P**							
	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-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-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**	–

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

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-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-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**	–
	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-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**	–

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	**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**	–
	568	37	2.58	6100	5.3	51	**2KJ3003- ■ FN23- ■ ■ E1 -Z**	–
	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-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**
	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**	–

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

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-LE100ZLSB4P**							
	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-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-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-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**	–
	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-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-LE100ZLSB4P							
	30	960	49.02	10700	0.87	65	**2KJ3207- ■ FP23- ■ ■ A1 -Z**	–
	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**	–

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	**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-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**	–
	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**	–

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

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.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-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-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-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-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-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**	–

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	**E.69-LE100ZLSB4P**							
	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-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-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**	–
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-LE112ZMKB4P							
	6.2	6170	236.03	26300	0.81	194	**2KJ3211- ■ GJ23- ■ ■ 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

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.129-LE112ZMKB4P**							
	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-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-LE112ZMKB4P							
	29	1330	51.17	20200	2.3	128	**2KJ3110- ■ GJ23- ■ ■ X1 -Z**	–
	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-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-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**	–

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.79-LE112ZMKB4P**							
	269	142	5.43	9020	4.8	65	**2KJ3107- ■ GJ23- ■ ■ C1 -Z**	–
	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-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**	–
	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**	–
	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**	–

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

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.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-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-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-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**	–
	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-LE112ZMKB4P							
	498	77	2.93	905	0.85	40	**2KJ3001- ■ GJ23- ■ ■ G1 -Z**	–
	973	39	1.50	1580	1.6	40	**2KJ3001- ■ GJ23- ■ ■ 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

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.39-LE112ZMKB4P**							
	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**	–
	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**	–

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

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.109-LE132ZST4P**							
	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**	–

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	**Z.59-LE132ZST4P**							
	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**	–
	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**	–

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

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
	E.89-LE132ZST4P							
	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**	–
	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**	–

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	**D.149-LE132ZMS4P**							
	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	224	**2KJ3211- ■ HL23- ■ ■ F1 -Z**	–
	14	4980	102.05	27000	1	224	**2KJ3211- ■ HL23- ■ ■ E1 -Z**	–
	16	4390	89.91	27400	1.1	224	**2KJ3211- ■ HL23- ■ ■ D1 -Z**	–
	19	3850	78.78	27700	1.3	224	**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**	–
	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**	–

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

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.79-LE132ZMS4P**							
	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**	–
	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**	–

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	**E.129-LE132ZMS4P**							
	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**	–
	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**	–

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

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.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**	–
	34	2590	43.64	20200	1.2	175	**2KJ3110- ■ JQ23- ■ ■ W1 -Z**	–
	36	2430	41.07	20200	1.3	175	**2KJ3110- ■ JQ23- ■ ■ 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
kW	rpm	Nm	–	N	–	kg	(Article No. supplement, see below)	No. of poles
9.2	**Z.109-LE160MPA4P**							
	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**	–

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

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.149-LE160MPA4P**							
	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**	–
	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**	–

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	**E.69-LE160MPA4P**							
	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**	–
	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**	–

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

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.109-LE160MPB4P**							
	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**	–
	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**	–

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.149-LE160MPB4P**							
	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**	–
	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**	–

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

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.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**	–
	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**	–
	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**	–

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	**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**	–
	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**	–
	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**	–
	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**	–
	316	450	4.67	15700	3.3	215	**2KJ3007- ■ JU23- ■ ■ 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

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**							
	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**	–

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	**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**	–
	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**	–

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

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.109-LES180MQ4P**							
	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**	–
	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**	–

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	**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**	–
	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**	–

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

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.129-LES180ZLN4P**							
	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**	–
	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**	–
	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**	–

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.129-LES180ZLN4P**							
	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**	–
	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**	–
	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**	–
	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**	–
	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**	–
	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**	–
	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**	–
	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**	–

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

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**							
	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**	–

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**							
	484	590	3.04	7660	0.92	312	**2KJ3005- ■ LN33- ■ ■ G1 -Z**	–
	542	525	2.71	7980	1	312	**2KJ3005- ■ LN33- ■ ■ F1 -Z**	–
	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**	–

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

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.129-LES225SD4P**							
	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**	–
	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**	–

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	**D.169-LES225YMF4P**							
	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**	–
	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**	–

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

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	**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**	–
	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**	–

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
55	**Z.149-LES250MD4P**							
	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

Transmission ratios and torques

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

Transmission ratios and torques

Selection and ordering data

i –	n_2 rpm	T_{2N} Nm	F_{R2} N	φ [1] ‘	J_G 10^{-4} kgm²	R_{ex} –	Motor frame size 63	71	80	90	100	112	132	160	180	200	225	250	Article No. (Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

[1] Only in conjunction with reduced-backlash version

Transmission ratios and torques

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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		
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	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

Transmission ratios and torques

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

Selection and ordering data

i –	n_2 rpm	T_{2N} Nm	F_{R2} N	φ [1] ‘	J_G 10^{-4} kgm²	R_{ex} –	Motor frame size 63	71	80	90	100	112	132	160	180	200	225	250	Article No. (Article No. supplement, see below)
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

Transmission ratios and torques

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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

Transmission ratios and torques for high speeds

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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
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	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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**

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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	180	200	225	250	(Article No. supplement, see below)
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**

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	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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**

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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Transmission ratios and torques for very low speeds

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Transmission ratios and torques for very low speeds

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Transmission ratios and torques for very low speeds

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Transmission ratios and torques for very low speeds

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
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

Transmission ratios and torques for very low speeds

Selection and ordering data

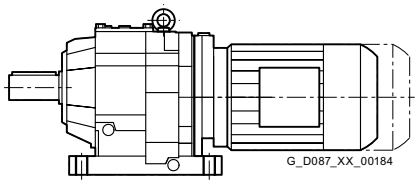
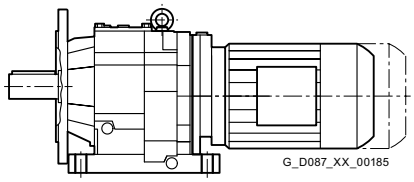
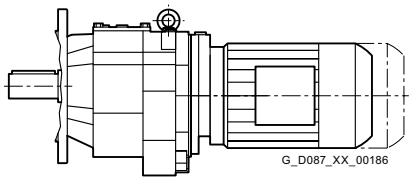
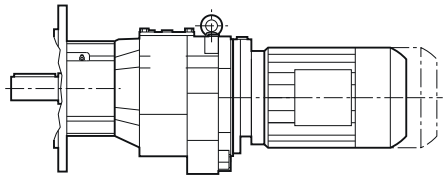
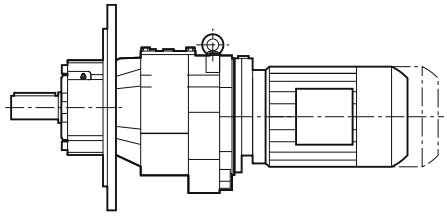
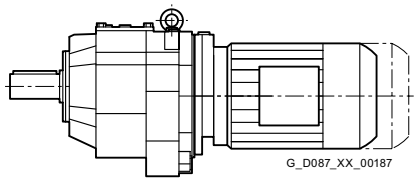
i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
–	rpm	Nm	N	‘	10^{-4} kgm²	–	63	71	80	90	100	112	132	160	(Article No. supplement, see below)
D.189-Z69															
5807	0.25	19000	107000	–	0.24	56760132/9775	✓	✓	✓	✓					**2KJ3244 - ■■■■■ - ■■ A2**
5279	0.27	19000	107000	–	0.29	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

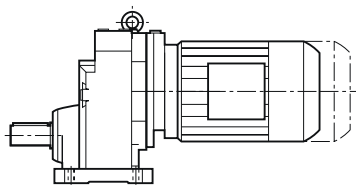
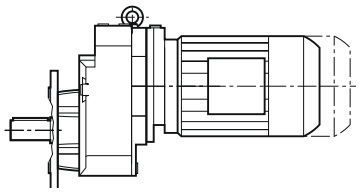
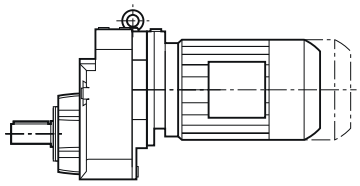
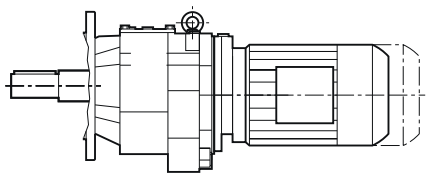
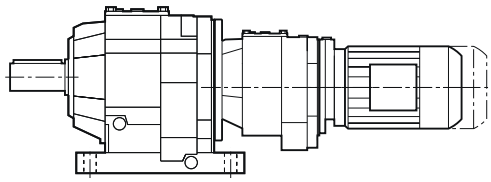
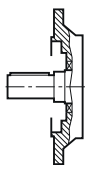
Overview

Notes on the dimensional drawings are provided in chapter Introduction on page 1/24.

Design	Frame size	Dimensional drawing, see page
Helical geared motor Z and D		
Foot-mounted design		
 G_D087_XX_00184	Z/D19	3/99
	Z/D29	3/102
	Z/D39	3/106
	Z/D49	3/110
	Z/D59	3/113
	Z/D69	3/116
	Z/D79	3/119
	Z/D89	3/122
	Z/D109	3/127
	Z/D129	3/132
	Z/D149	3/137
	Z/D169	3/141
	Z/D189	3/145
Foot/flange-mounted design		
 G_D087_XX_00185	ZB/DB29	3/103
	ZB/DB39	3/107
	ZB/DB49	3/110
	ZB/DB59	3/113
	ZB/DB69	3/116
	ZB/DB79	3/119
	ZB/DB89	3/122
Flange-mounted design		
 G_D087_XX_00186	ZF/DF19	3/100
	ZF/DF29	3/104
	ZF/DF39	3/108
	ZF/DF49	3/111
	ZF/DF59	3/114
	ZF/DF69	3/117
	ZF/DF79	3/120
	ZF/DF89	3/123
	ZF/DF109	3/128
	ZF/DF129	3/133
	ZF/DF149	3/138
	ZF/DF169	3/142
	ZF/DF189	3/146
Flange-mounted design with VLplus reinforced bearing system		
	ZF/DF89	3/124
	ZF/DF109	3/129
	ZF/DF129	3/134
	ZF/DF149	3/139
	ZF/DF169	3/143
Flange-mounted design with XLplus reinforced bearing system		
	ZF/DF89	3/125
	ZF/DF109	3/130
	ZF/DF129	3/135
	ZF/DF149	3/140
	ZF/DF169	3/144
Housing flange design		
 G_D087_XX_00187	ZZ/DZ19	3/101
	ZZ/DZ29	3/105
	ZZ/DZ39	3/109
	ZZ/DZ49	3/112
	ZZ/DZ59	3/115
	ZZ/DZ69	3/118
	ZZ/DZ79	3/121
	ZZ/DZ89	3/126
	ZZ/DZ109	3/131
	ZZ/DZ129	3/136

Dimensional drawings

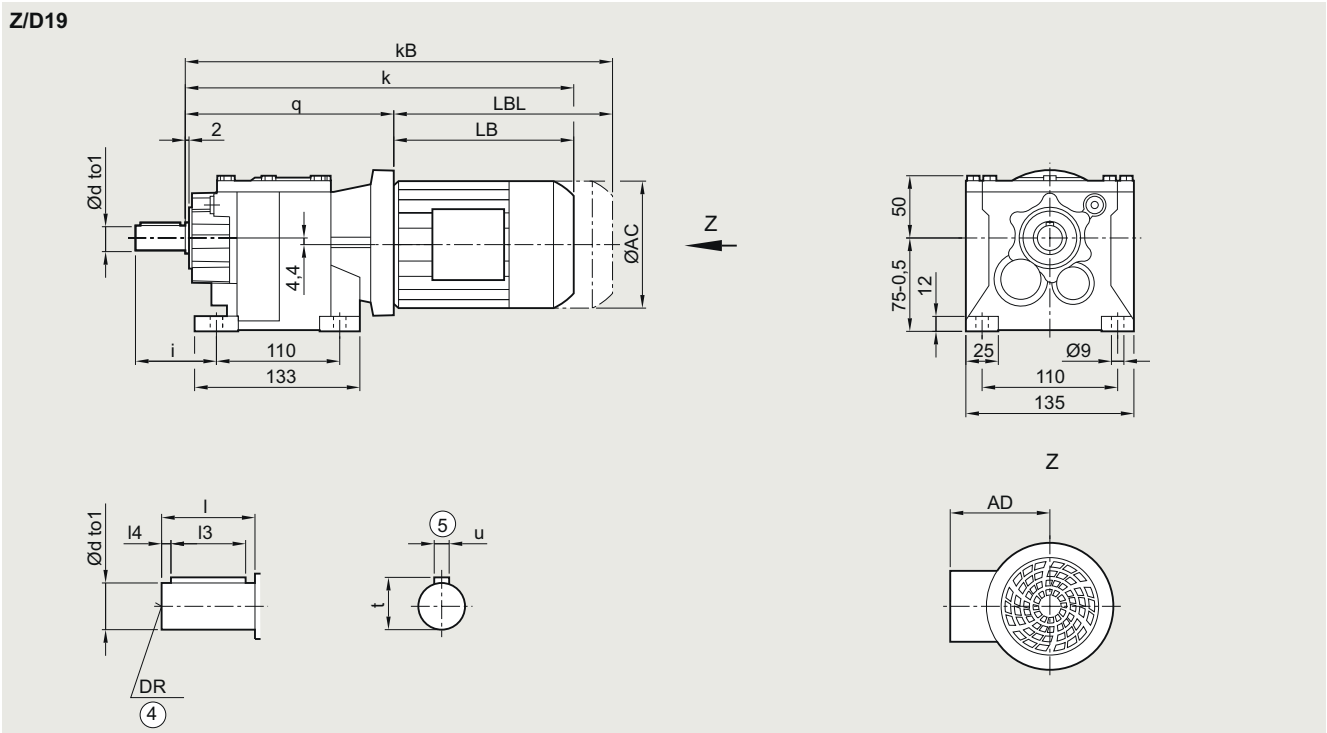
Overview

Design	Frame size	Dimensional drawing, see page
Helical geared motor E		
Foot-mounted design		
	E39	3/147
	E49	3/150
	E69	3/153
	E89	3/156
	E109	3/159
	E129	3/162
	E149	3/165
Flange-mounted design		
	EF39	3/148
	EF49	3/151
	EF69	3/154
	EF89	3/157
	EF109	3/160
	EF129	3/163
	EF149	3/166
Housing flange design		
	EZ39	3/149
	EZ49	3/152
	EZ69	3/155
	EZ89	3/158
	EZ109	3/161
	EZ129	3/164
	EZ149	3/167
Cooling tower geared motor		
	ZKF89	3/168
	ZKF109	3/169
	ZKF129	3/170
	ZKF149	3/171
	ZKF169	3/172
	ZKF189	3/173
	EKF89	3/174
	EKF109	3/175
	EKF129	3/176
	EKF149	3/177
Helical tandem geared motor		
	Z./D.29-Z/D19 ... D.189-Z/D69	3/178
Additional versions and options		
Inner contour of the flange-mounted design		
	ZF/DF19 ... ZF/DF189, ZB/DB29 ... ZB/DB89	3/180
	EF39 ... EF149	3/182
	ZKF89 ... ZKF189	3/183
	EKF89 ... EKF149	3/183

Gearbox Z/D19 in a foot-mounted design

DZ030

Z/D19



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	LE 63	63Z	71	71Z	71Y	80	80Z
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
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
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

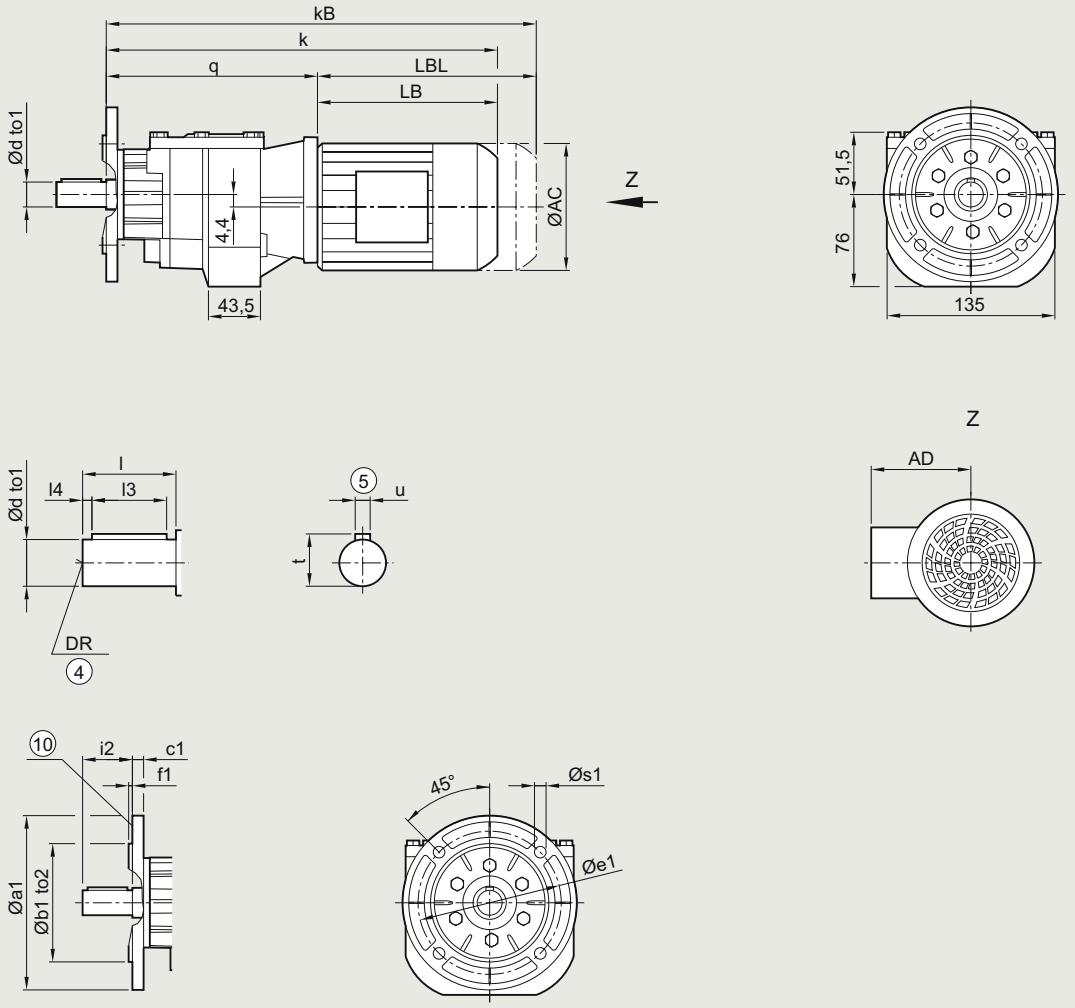
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox ZF/DF19 in a flange-mounted design

DZF030

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	28	M5
	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

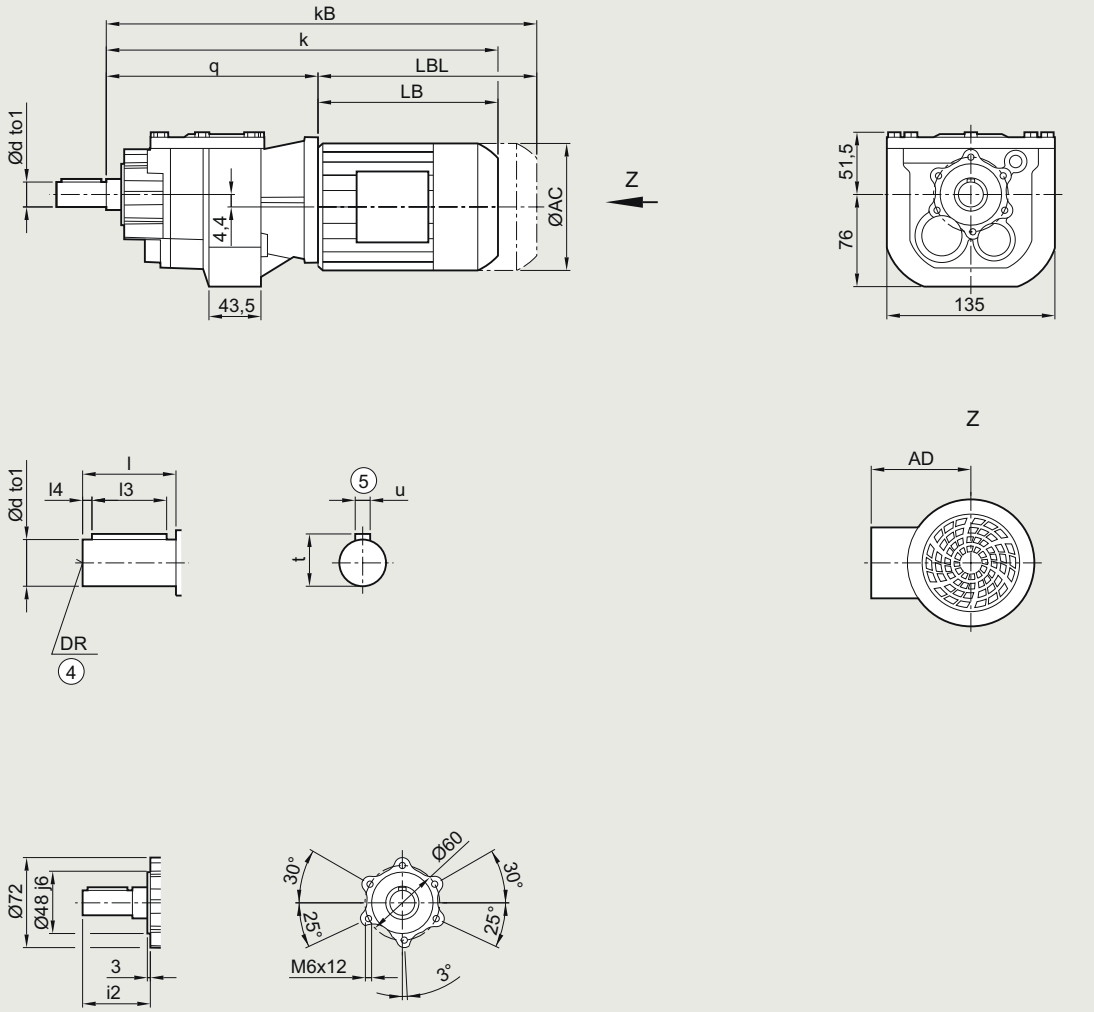
Motor	LE 63	63Z	71	71Z	71Y	80	80Z
q	168.5	168.5	176.5	176.5	176.5	177.0	177.0
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2
k	329.0	355.0	361.0	380.0	420.0	417.0	452.0
kB	373.5	399.5	416.0	435.0	475.0	477.0	512.0
LB	160.5	186.5	184.5	203.5	243.5	240.0	275.0
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.
⑩ For inner contour, see page 3/180

Gearbox ZZ/DZ19 in a housing flange design

DZZ030

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	LE 63	63Z	71	71Z	71Y	80	80Z
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
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
LBL	205.0	231.0	239.5	258.5	298.5	300.0	335.0

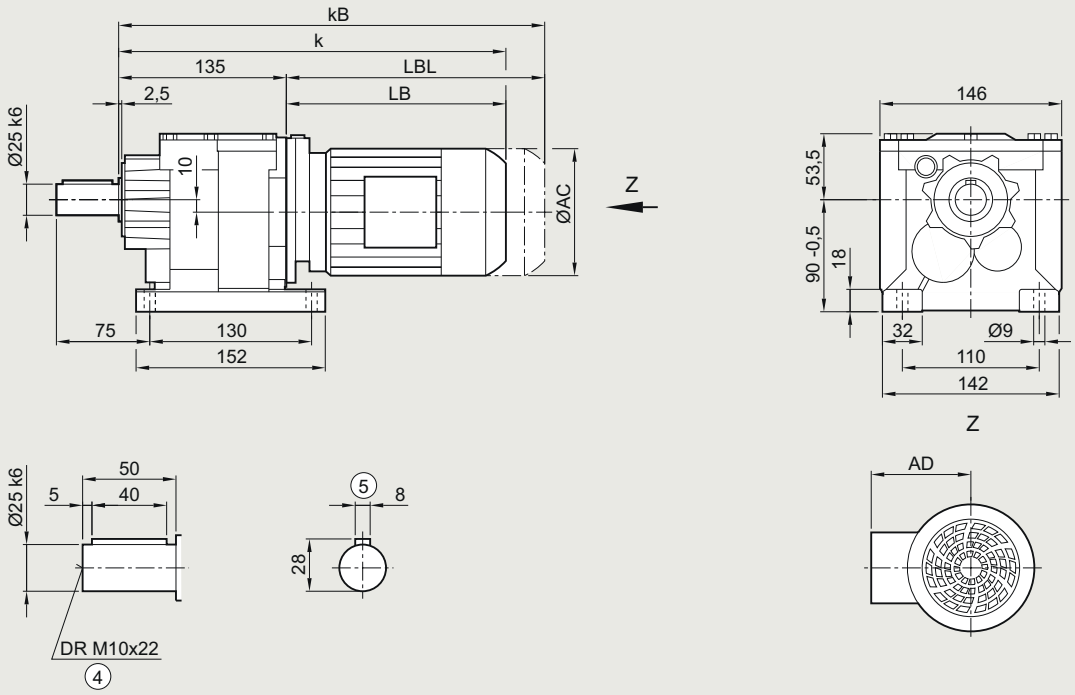
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox Z/D29 in a foot-mounted design

DZ030

Z/D29



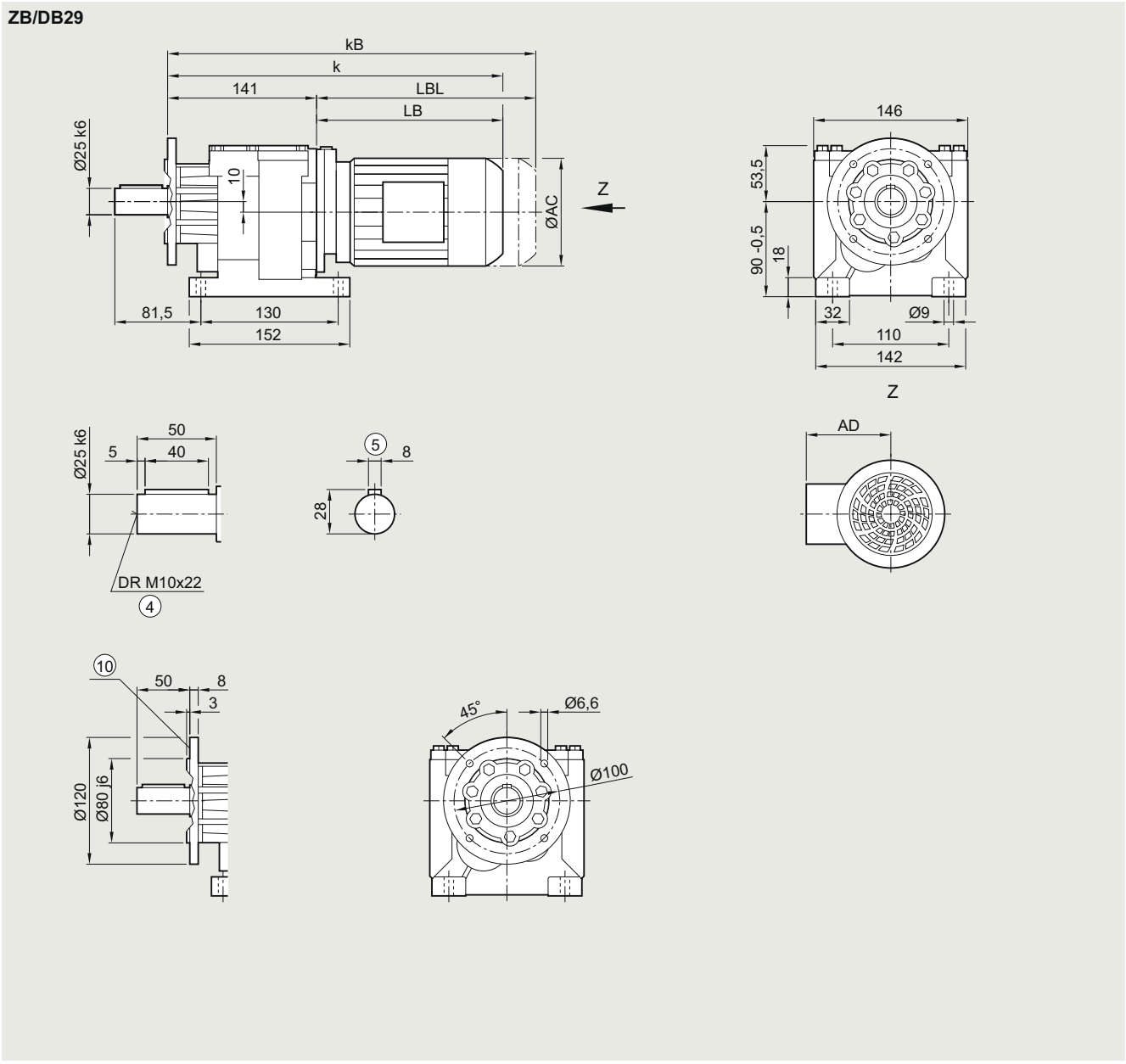
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	329.0	355.0	361.0	380.0	420.0	425.0	460.0	486.5	526.5	543.0	578.0
kB	373.5	399.5	416.0	435.0	475.0	485.0	520.0	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
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.

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

DZB030

ZB/DB29



Motor	LE										
	63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z
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
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
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

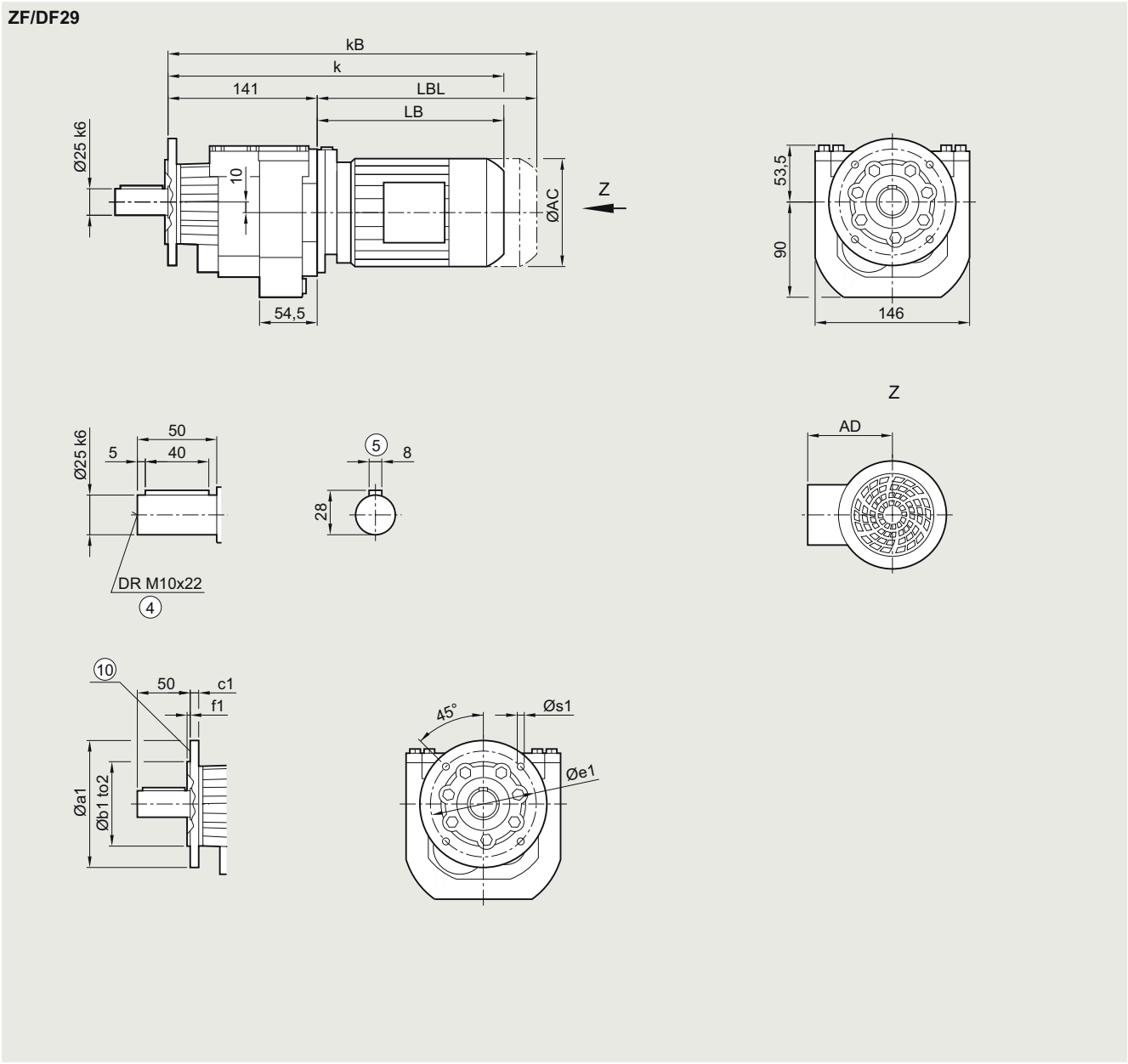
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZF/DF29 in a flange-mounted design

DZF030

ZF/DF29



Flange	a1	b1	to2	c1	e1	f1	s1
	120	80	j6	8	100	3.0	6.6
	140	95	j6	9	115	3.0	9.0
	160	110	j6	9	130	3.5	9.0

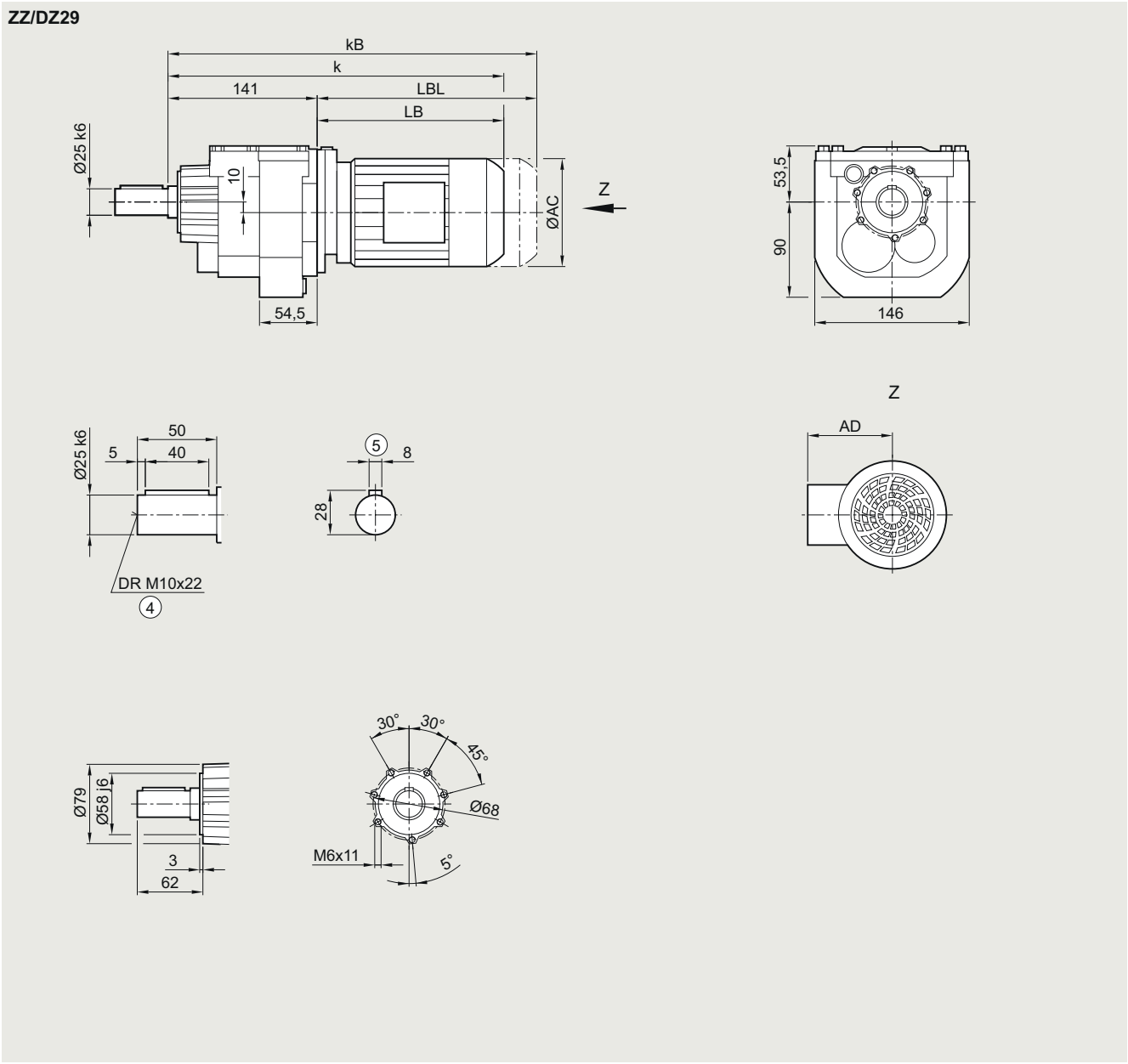
Motor	LE										
	63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	335.0	361.0	367.0	386.0	426.0	431.0	466.0	492.5	532.5	549.0	584.0
kB	379.5	405.5	422.0	441.0	481.0	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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox ZZ/DZ29 in a housing flange design

DZZ030

ZZ/DZ29



Motor	LE										
	63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z
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
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
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

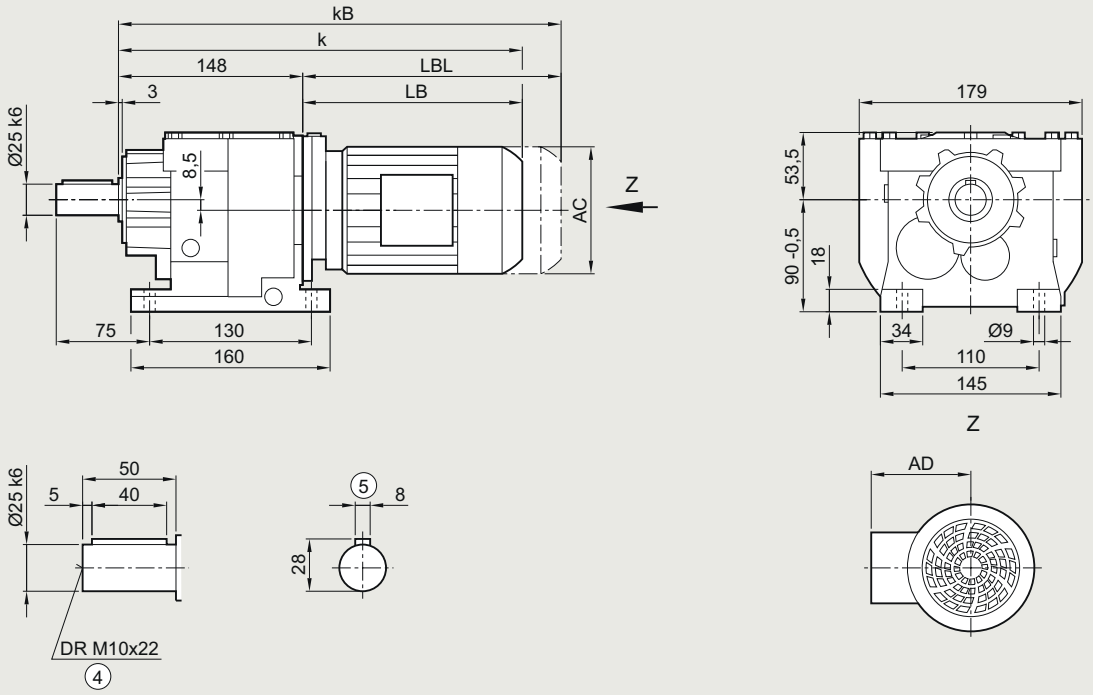
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox Z/D39 in a foot-mounted design

DZ030

Z/D39



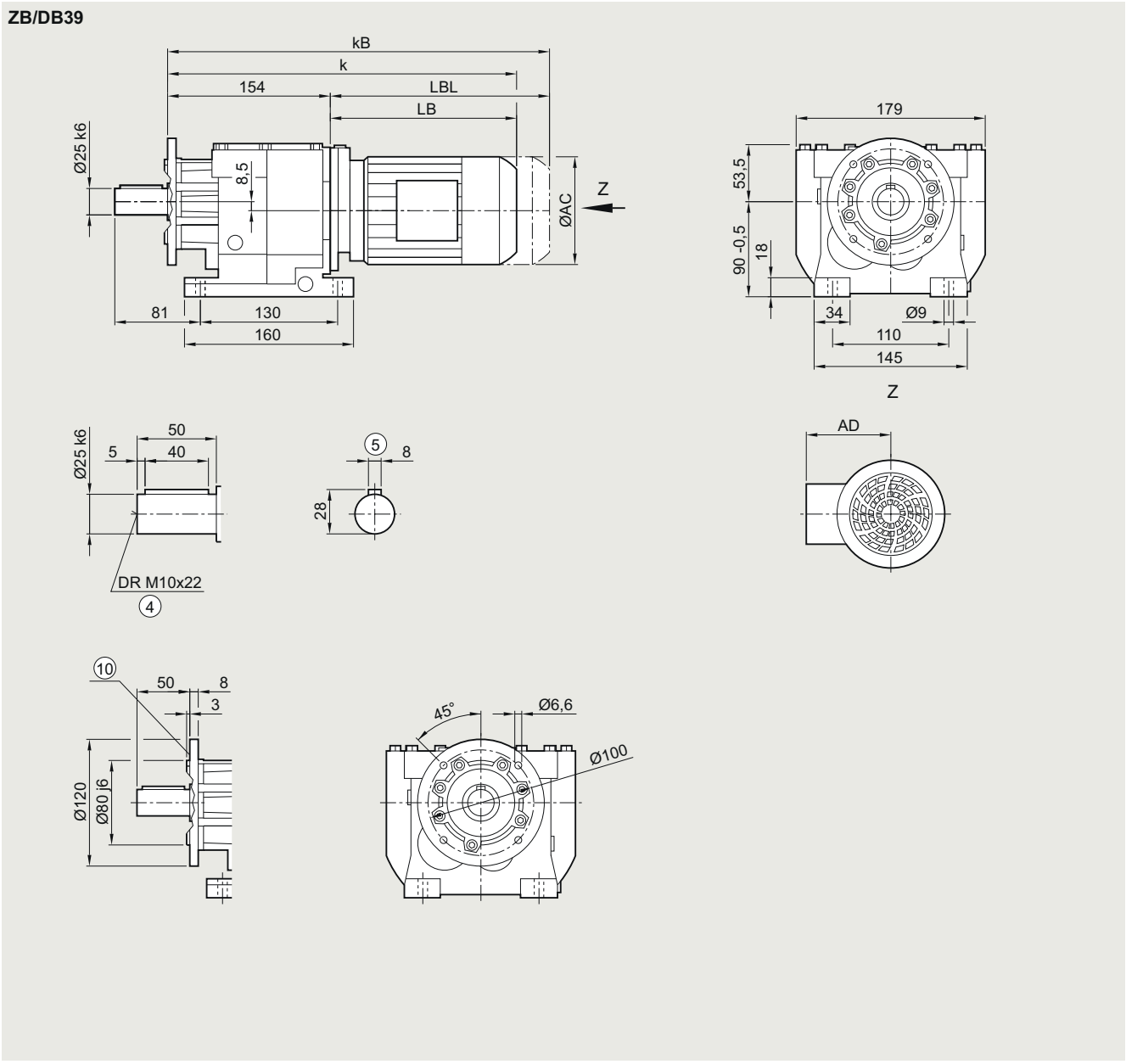
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	342.0	368.0	374.0	393.0	433.0	438.0	473.0	499.5	539.5	556.0	591.0
kB	386.5	412.5	429.0	448.0	488.0	498.0	533.0	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
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.

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

DZB030

ZB/DB39



Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z
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
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
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

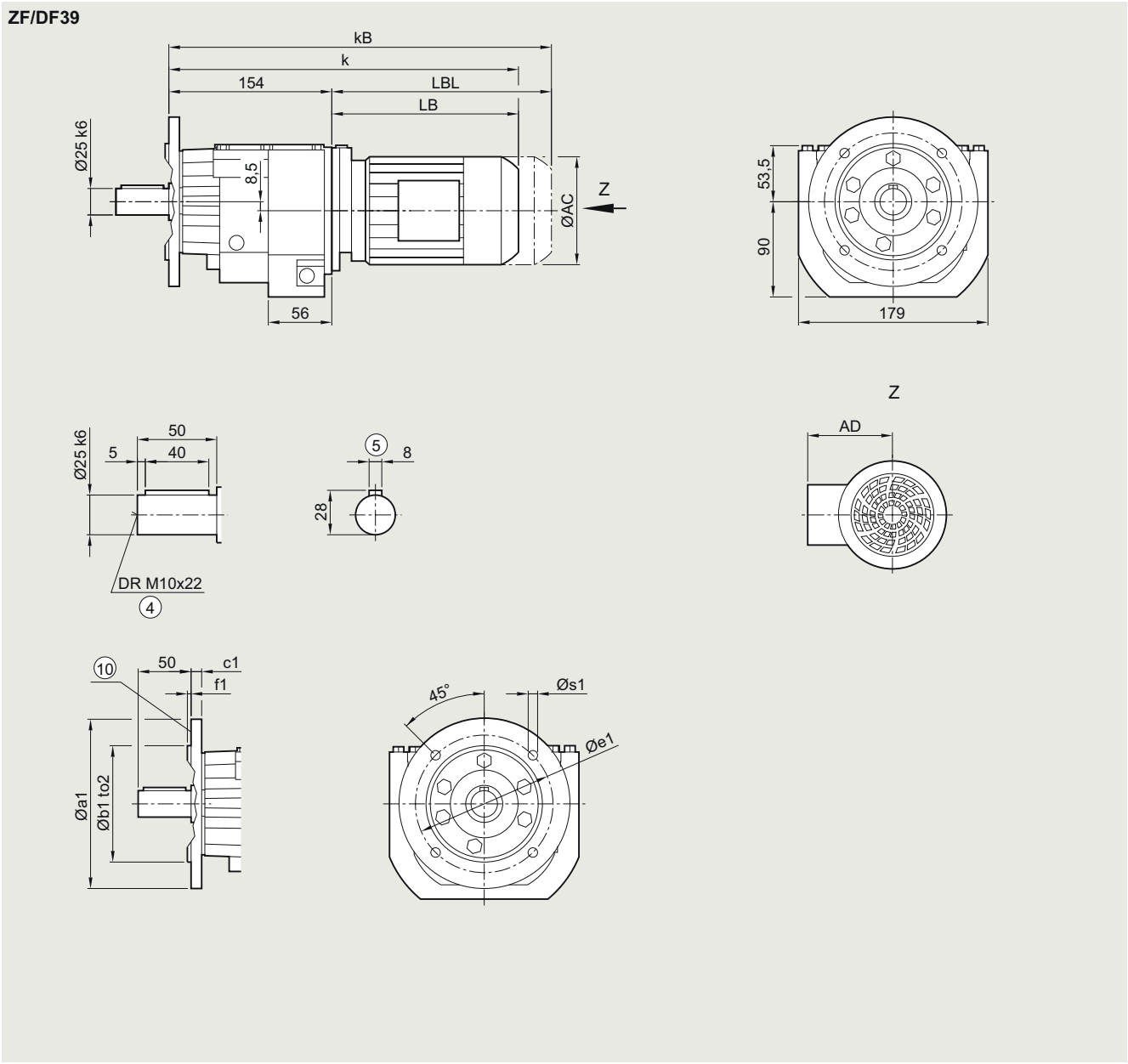
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZF/DF39 in a flange-mounted design

DZF030

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

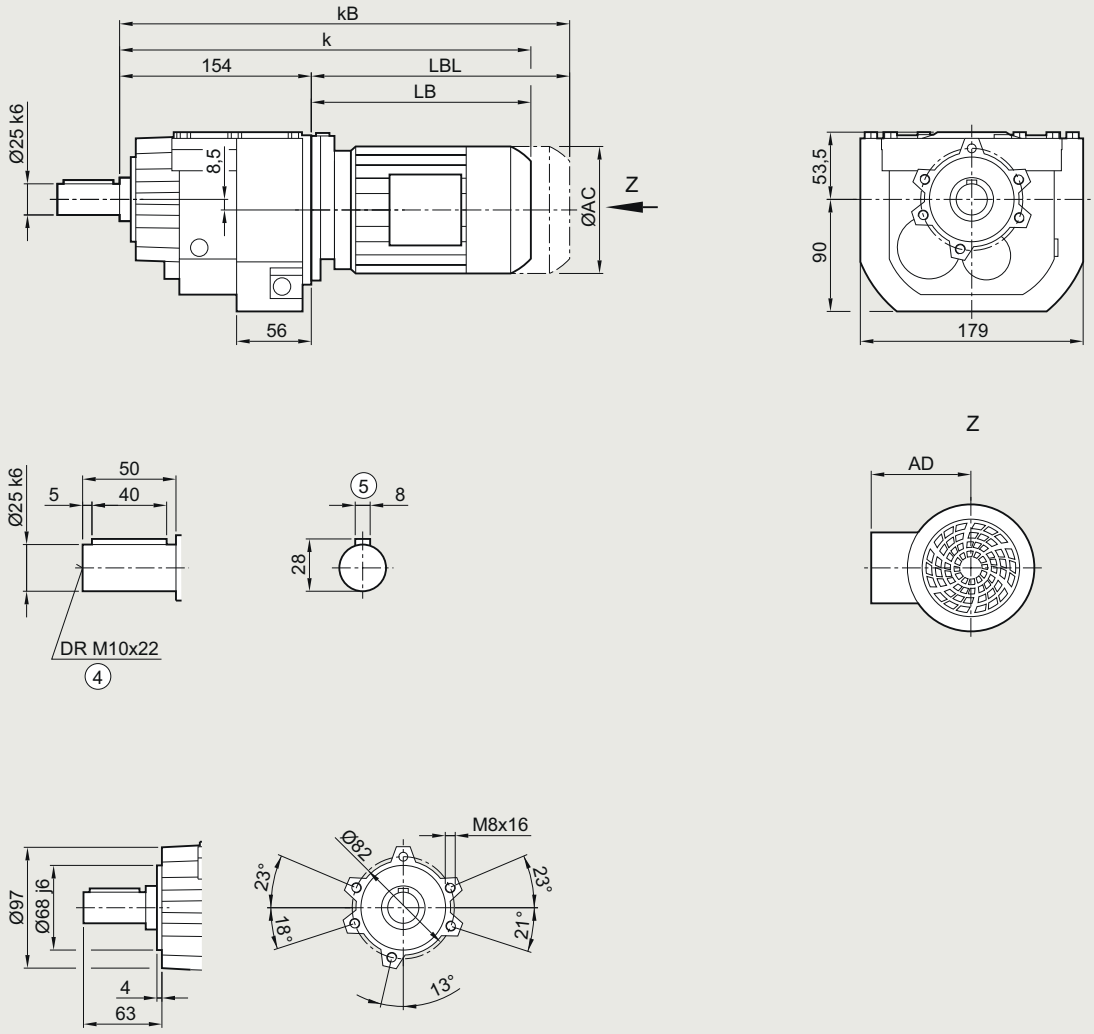
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	348.0	374.0	380.0	399.0	439.0	444.0	479.0	505.5	545.5	562.0	597.0
kB	392.5	418.5	435.0	454.0	494.0	504.0	539.0	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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox ZZ/DZ39 in a housing flange design

DZZ030

ZZ/DZ39



Motor	LE										
	63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z
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
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
LBL	238.5	264.5	281.0	300.0	340.0	350.0	385.0	421.5	461.5	486.5	521.5

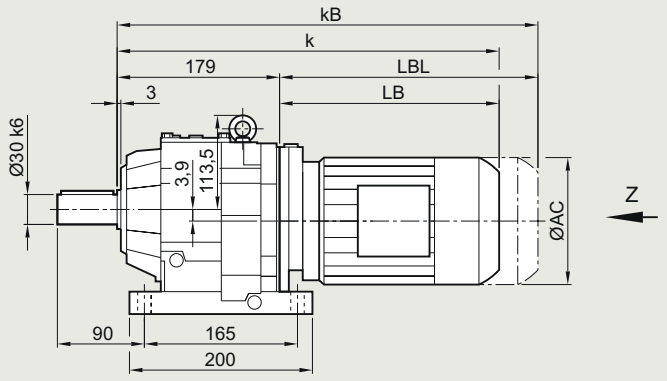
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) AD depends on the motor options, for other dimensions, see page 9/46.

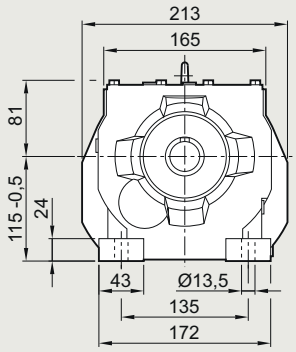
Dimensional drawings

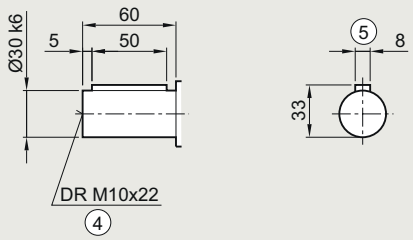
Gearbox Z/D49 in a foot-mounted design and ZB/DB49 in a foot/flange-mounted design

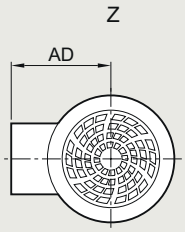
DZ030, DZB030

Z/D49

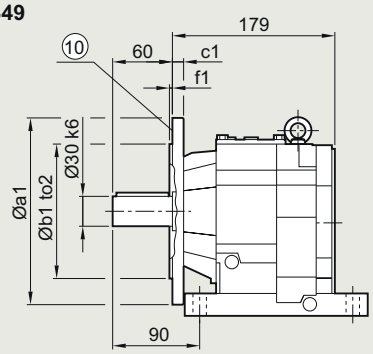


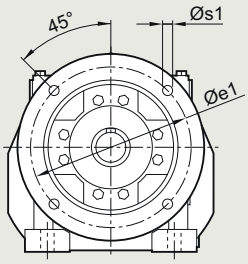






ZB/DB49





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

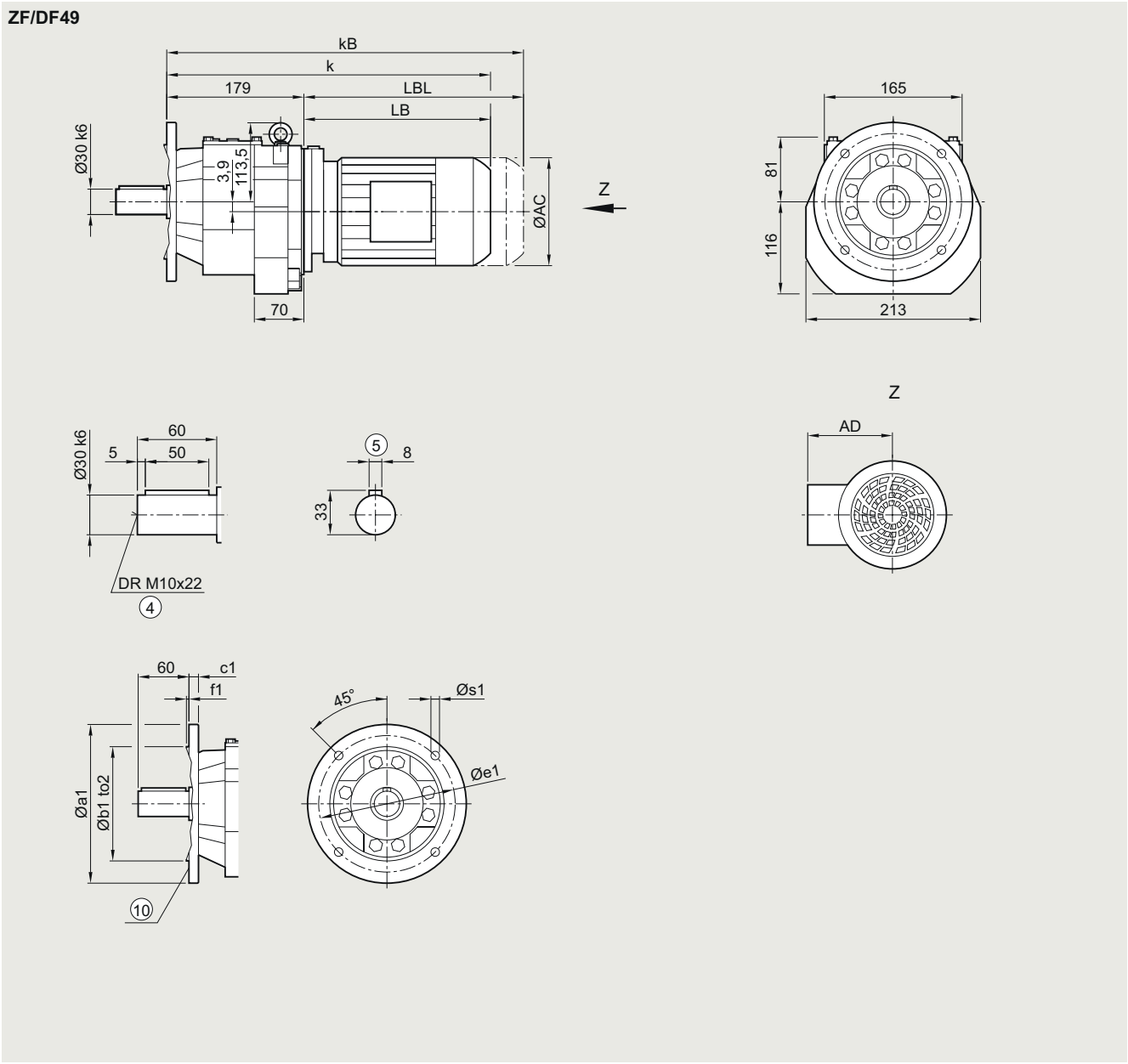
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	363.5	389.5	395.5	414.5	454.5	459.5	494.5	521.0	561.0	577.5	612.5	587.5	622.0	640.5	690.5
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
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.
⑩ For inner contour, see page 3/180

Gearbox ZF/DF49 in a flange-mounted design

DZF030

ZF/DF49



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	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
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
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
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

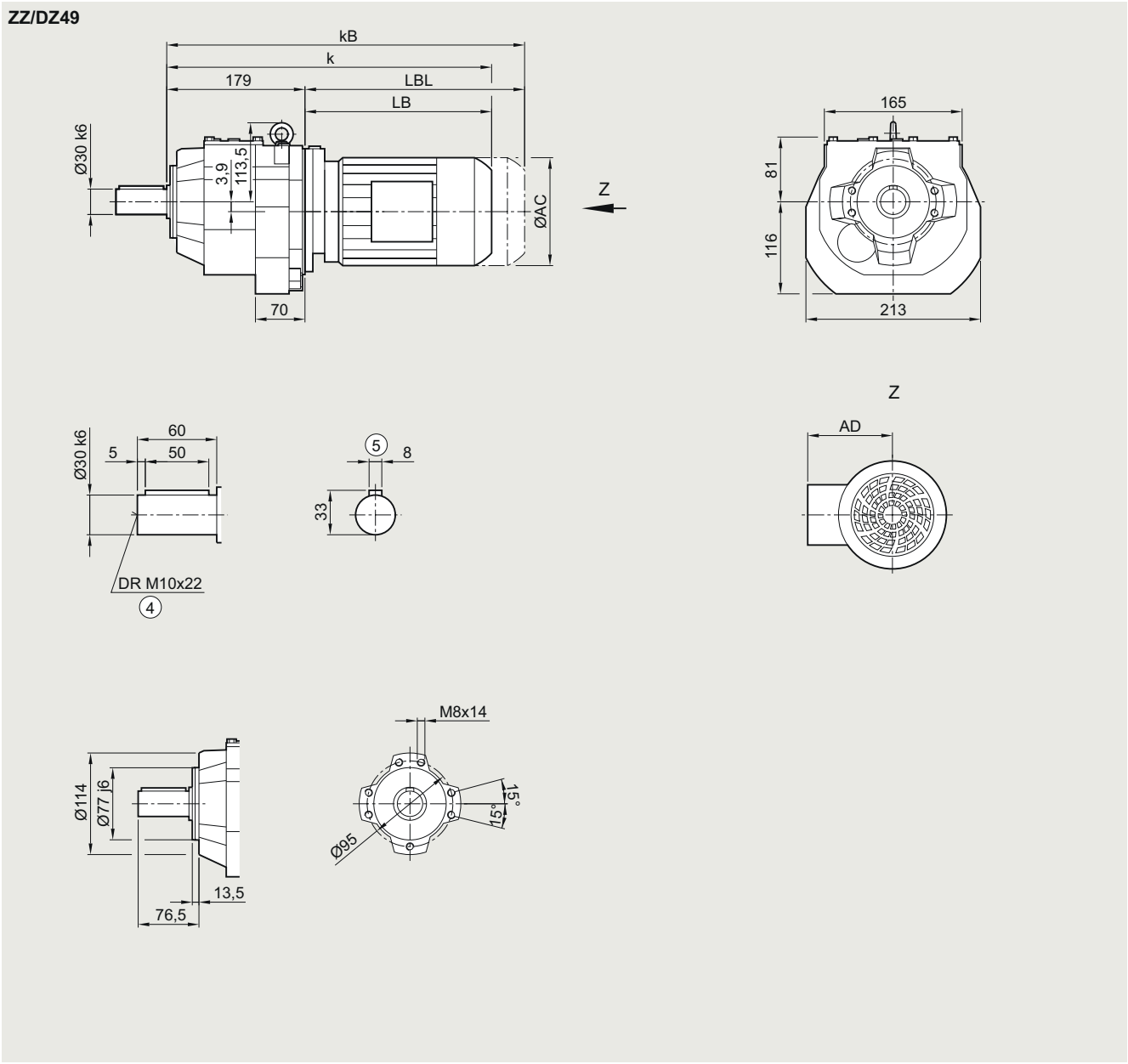
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZZ/DZ49 in a housing flange design

DZZ030

ZZ/DZ49



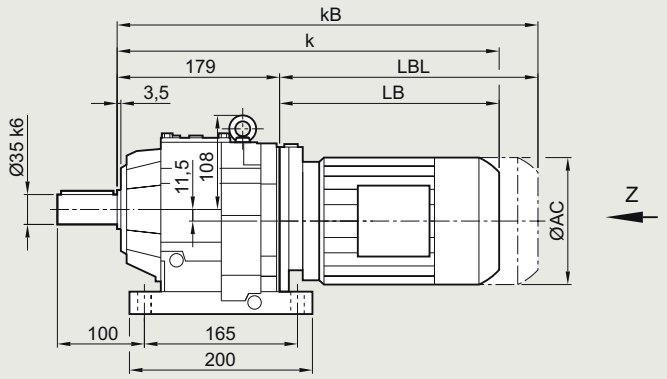
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	363.5	389.5	395.5	414.5	454.5	459.5	494.5	521.0	561.0	577.5	612.5	587.5	622.0	640.5	690.5
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
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

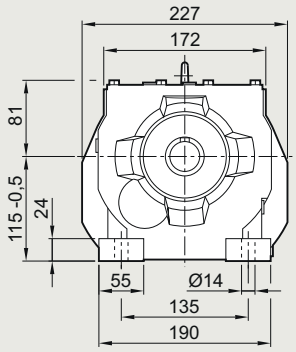
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) AD depends on the motor options, for other dimensions, see page 9/46.

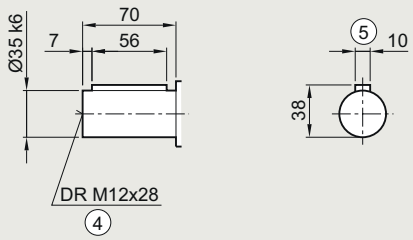
Gearbox Z/D59 in a foot-mounted design and ZB/DB59 in a foot/flange-mounted design

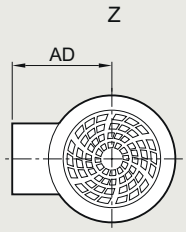
DZ030, DZB030

Z/D59

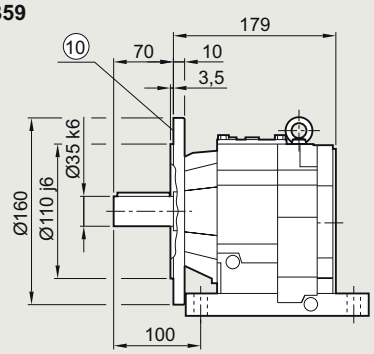


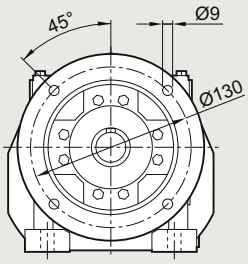






ZB/DB59





Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
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
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
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

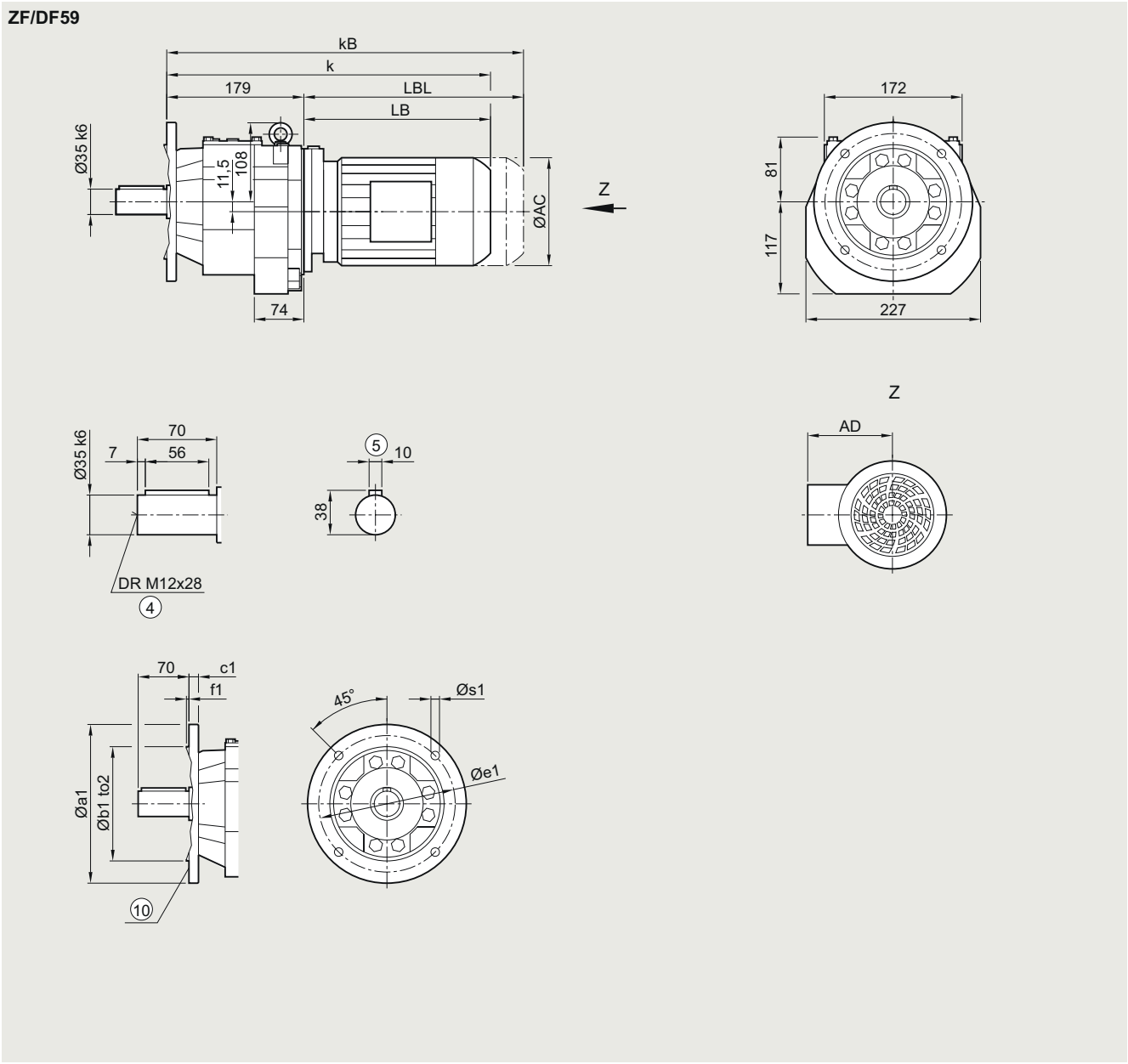
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZF/DF59 in a flange-mounted design

DZF030

ZF/DF59



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

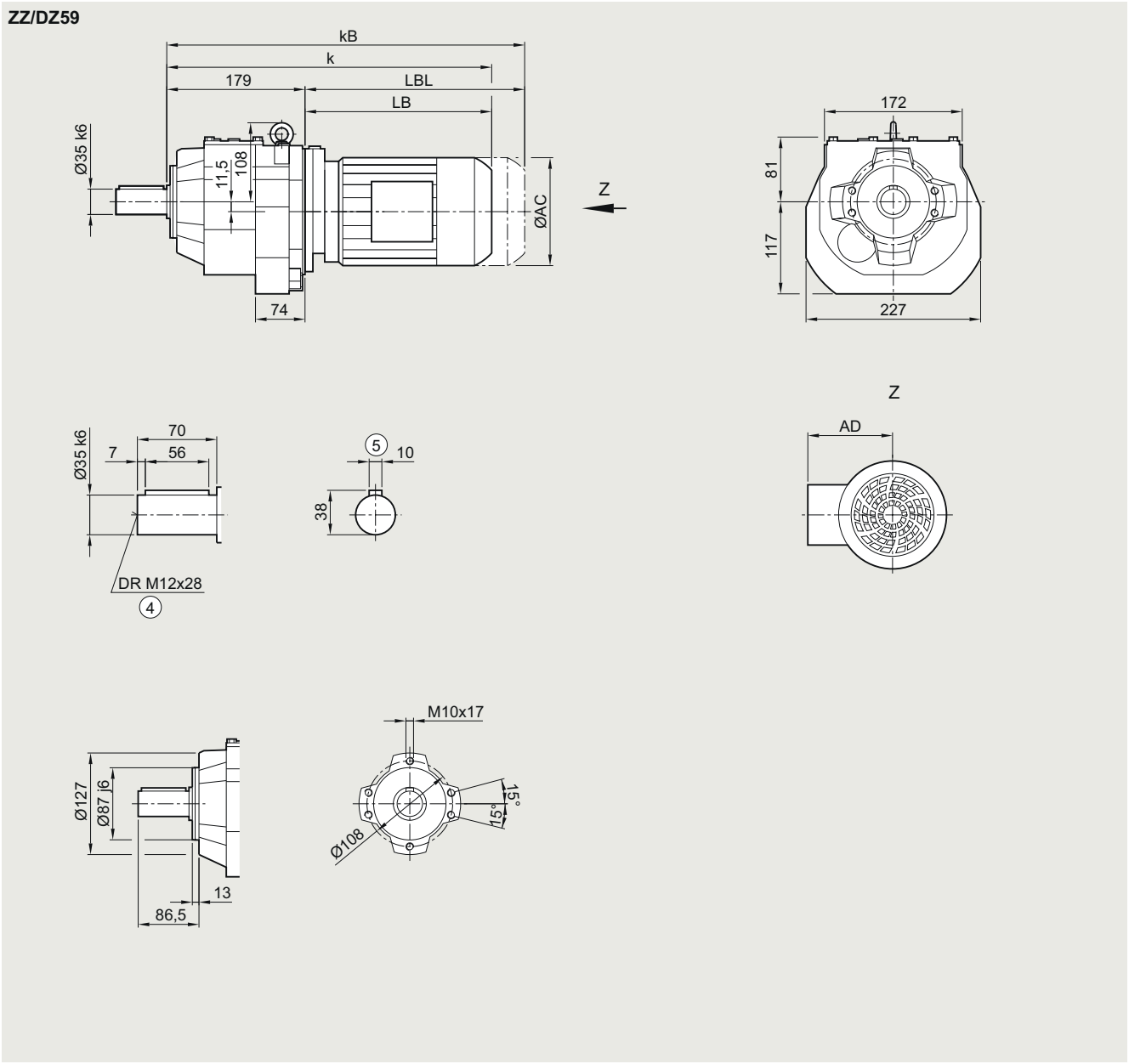
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	363.5	389.5	395.5	414.5	454.5	459.5	494.5	521.0	561.0	577.5	612.5	587.5	622.0	640.5	690.5
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox ZZ/DZ59 in a housing flange design

DZZ030

ZZ/DZ59



Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
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
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
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

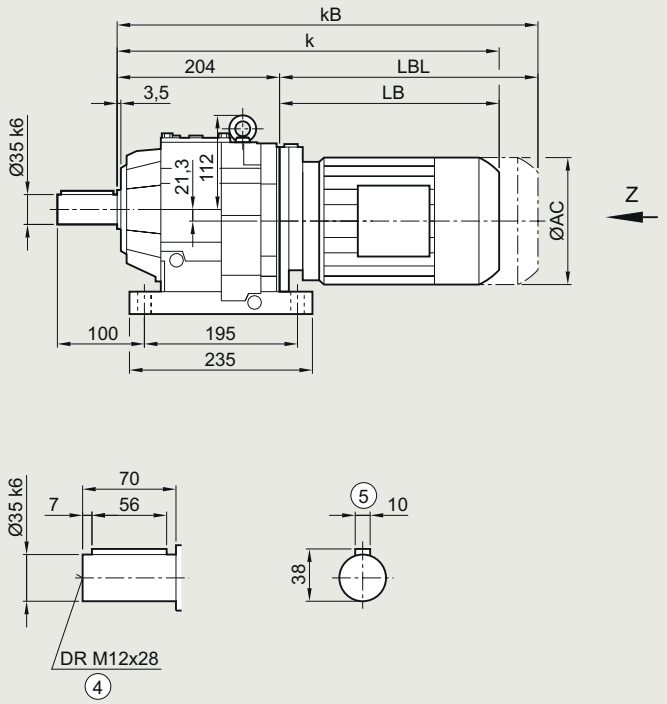
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

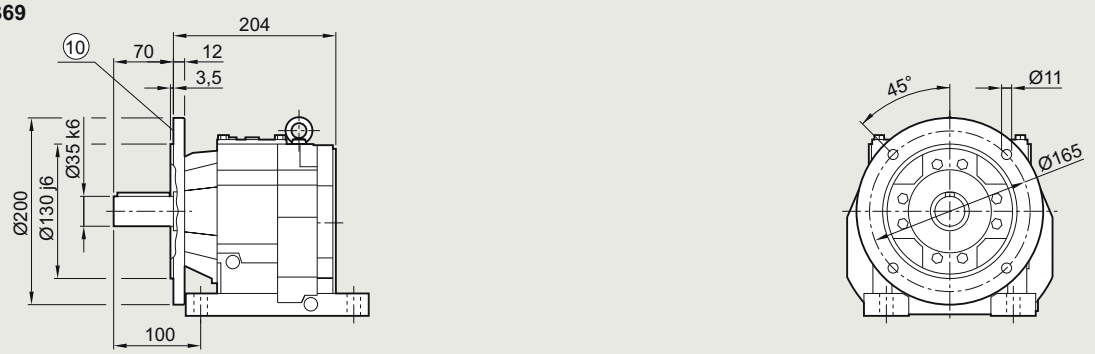
Gearbox Z/D69 in a foot-mounted design and ZB/DB69 in a foot/flange-mounted design

DZ030, DZB030

Z/D69



ZB/DB69



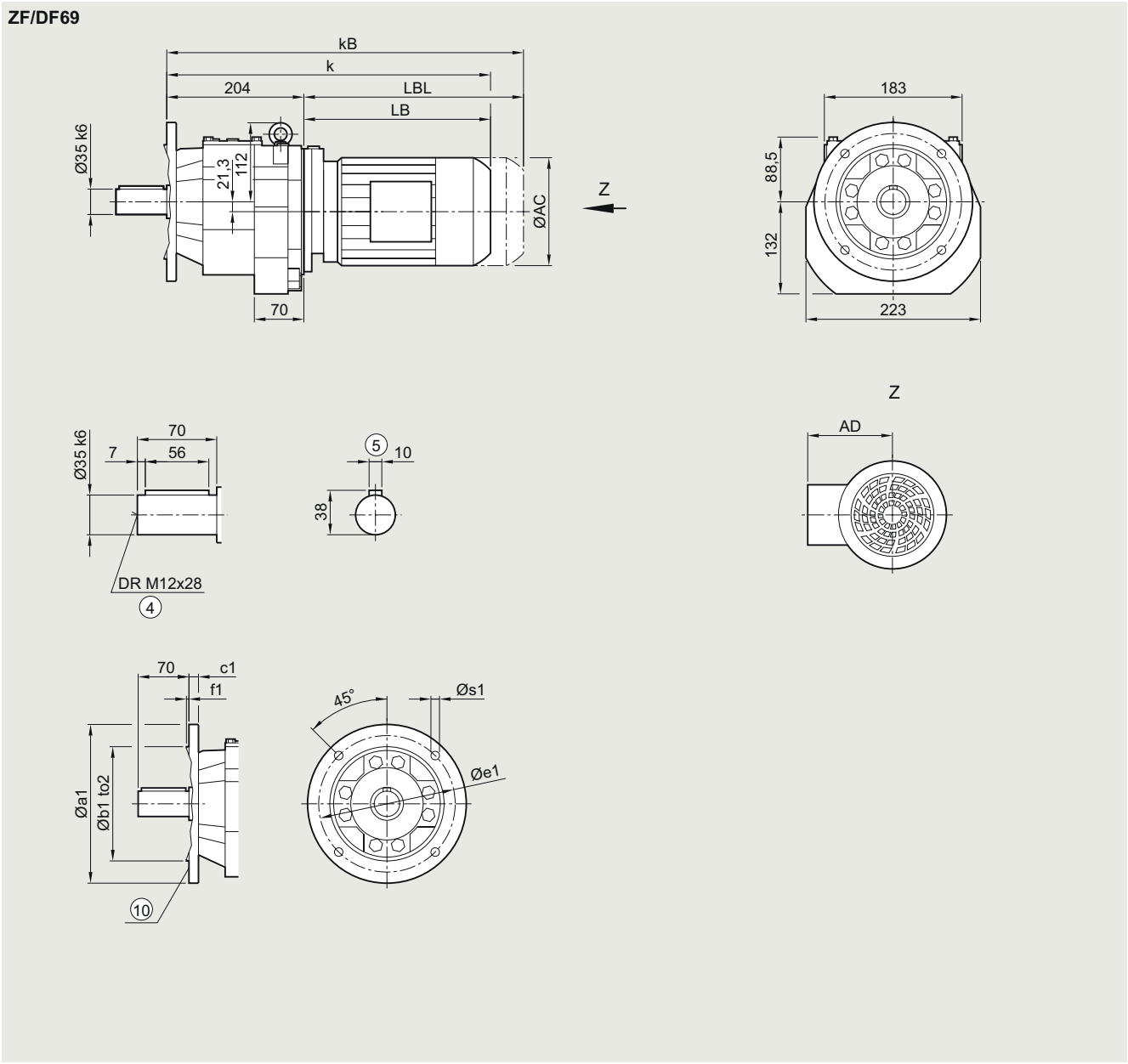
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	388.5	414.5	420.5	439.5	479.5	484.5	519.5	546.0	586.0	602.5	637.5	612.5	647.0	665.5	715.5
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox ZF/DF69 in a flange-mounted design

DZF030

ZF/DF69



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	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.

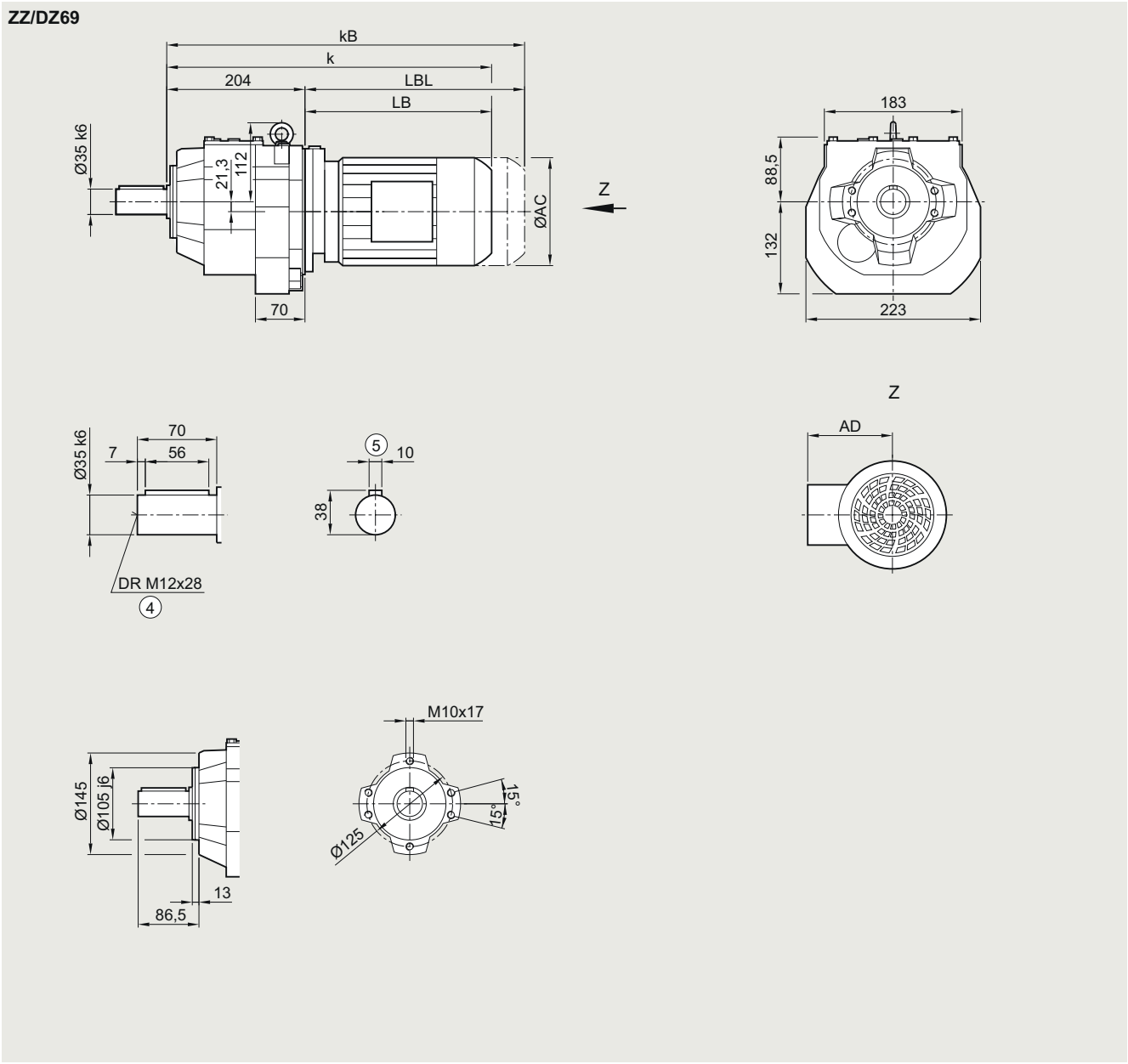
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZZ/DZ69 in a housing flange design

DZZ030

ZZ/DZ69



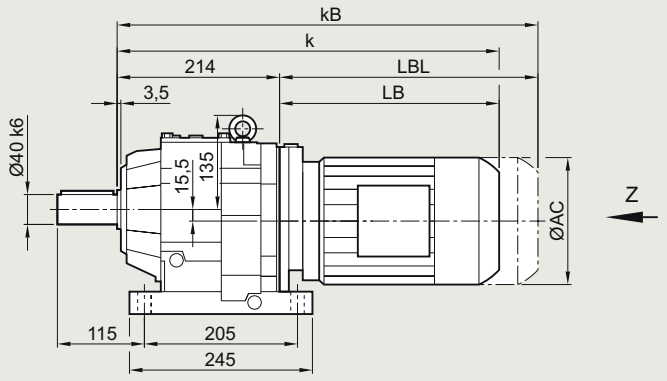
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	388.5	414.5	420.5	439.5	479.5	484.5	519.5	546.0	586.0	602.5	637.5	612.5	647.0	665.5	715.5
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
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

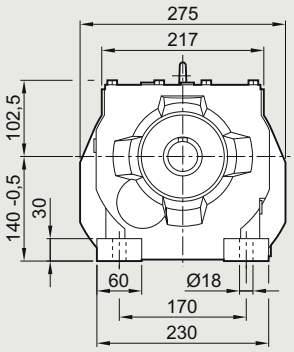
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) AD depends on the motor options, for other dimensions, see page 9/46.

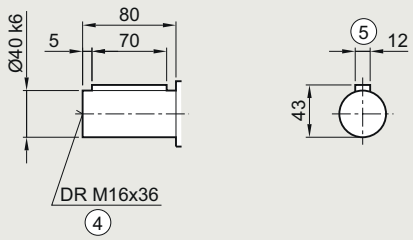
Gearbox Z/D79 in a foot-mounted design and ZB/DB79 in a foot/flange-mounted design

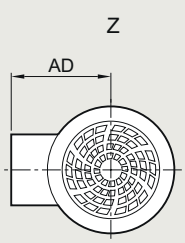
DZ030, DZB030

Z/D79

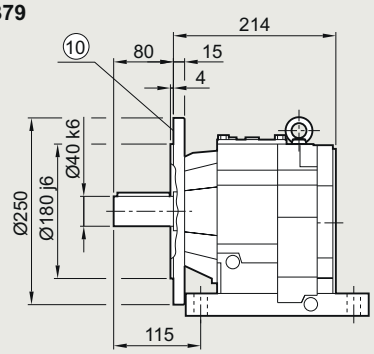


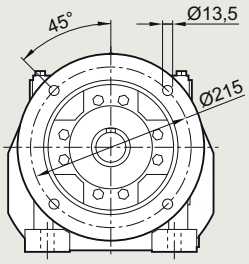






ZB/DB79





Motor	LE														
	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.

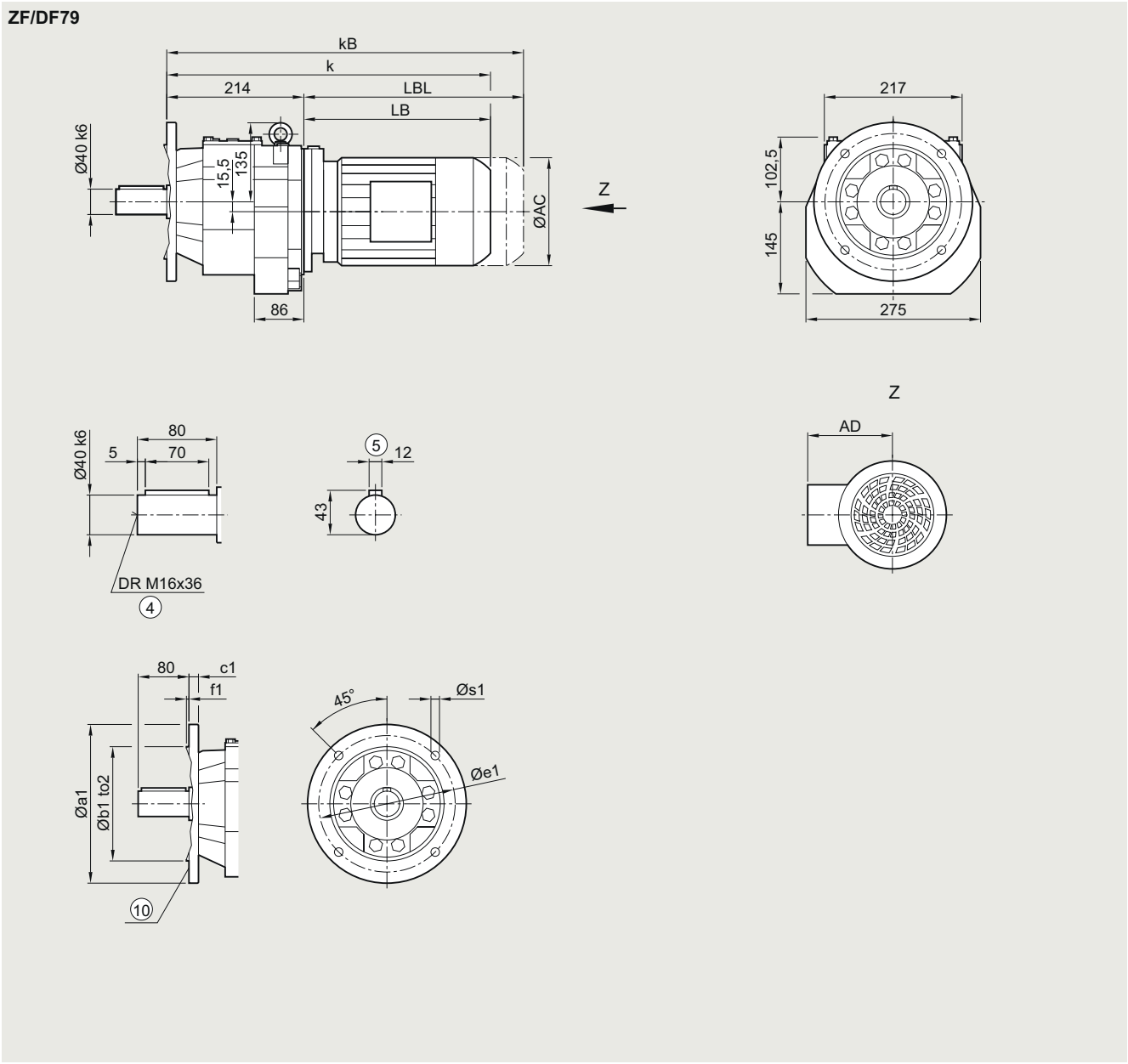
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZF/DF79 in a flange-mounted design

DZF030

ZF/DF79



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

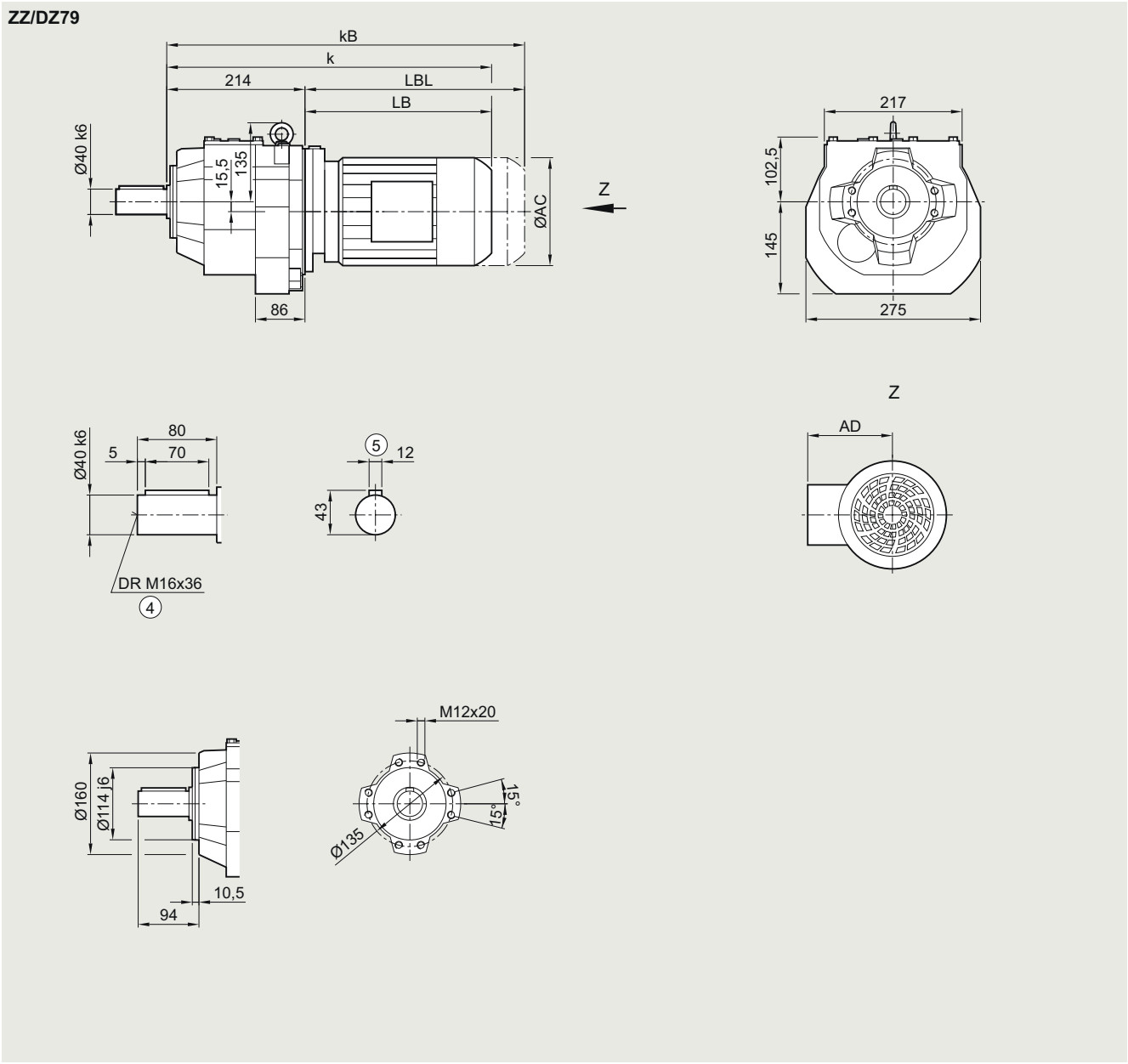
Motor	LE														
	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z
AC	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD[1)]	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	428.5	447.5	487.5	488.5	523.5	550.0	590.0	606.5	641.5	616.5	641.5	669.5	719.5	751.5	811.5
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox ZZ/DZ79 in a housing flange design

DZZ030

ZZ/DZ79



Motor	LE														
	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z
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
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
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

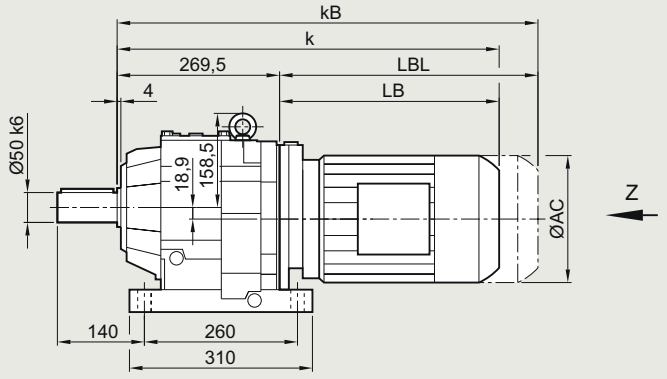
1) AD depends on the motor options, for other dimensions, see page 9/46.

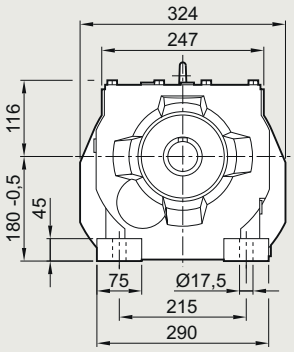
Dimensional drawings

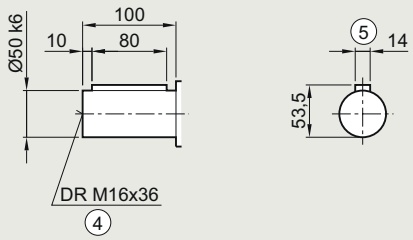
Gearbox Z/D89 in a foot-mounted design and ZB/DB89 in a foot/flange-mounted design

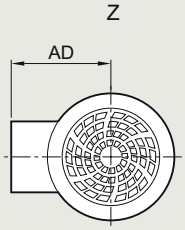
DZ030, DZB030

Z/D89

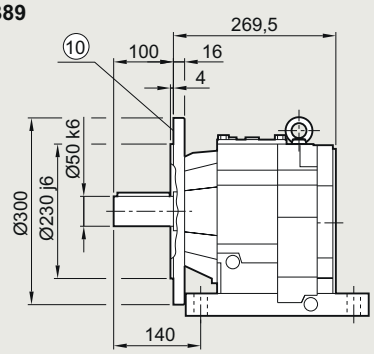


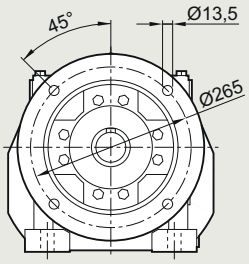






ZB/DB89





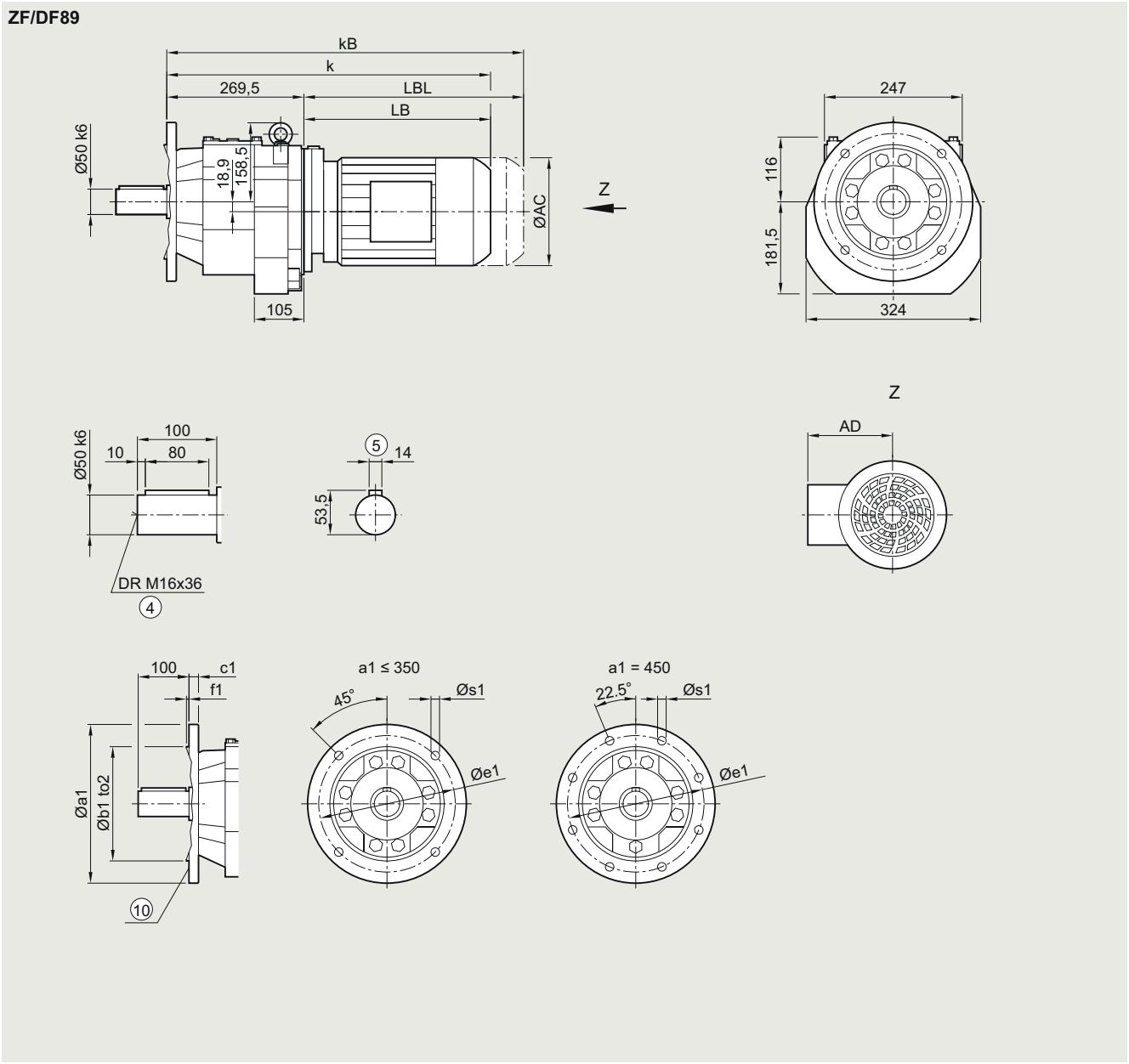
Motor	LE												LES	
	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1)]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	531.0	566.0	592.5	632.5	645.0	680.0	655.0	680.0	708.0	758.0	790.0	850.0	863.0	893.0
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
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.
⑩ For inner contour, see page 3/180

Gearbox ZF/DF89 in a flange-mounted design

DZF030

ZF/DF89



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	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z
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
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
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

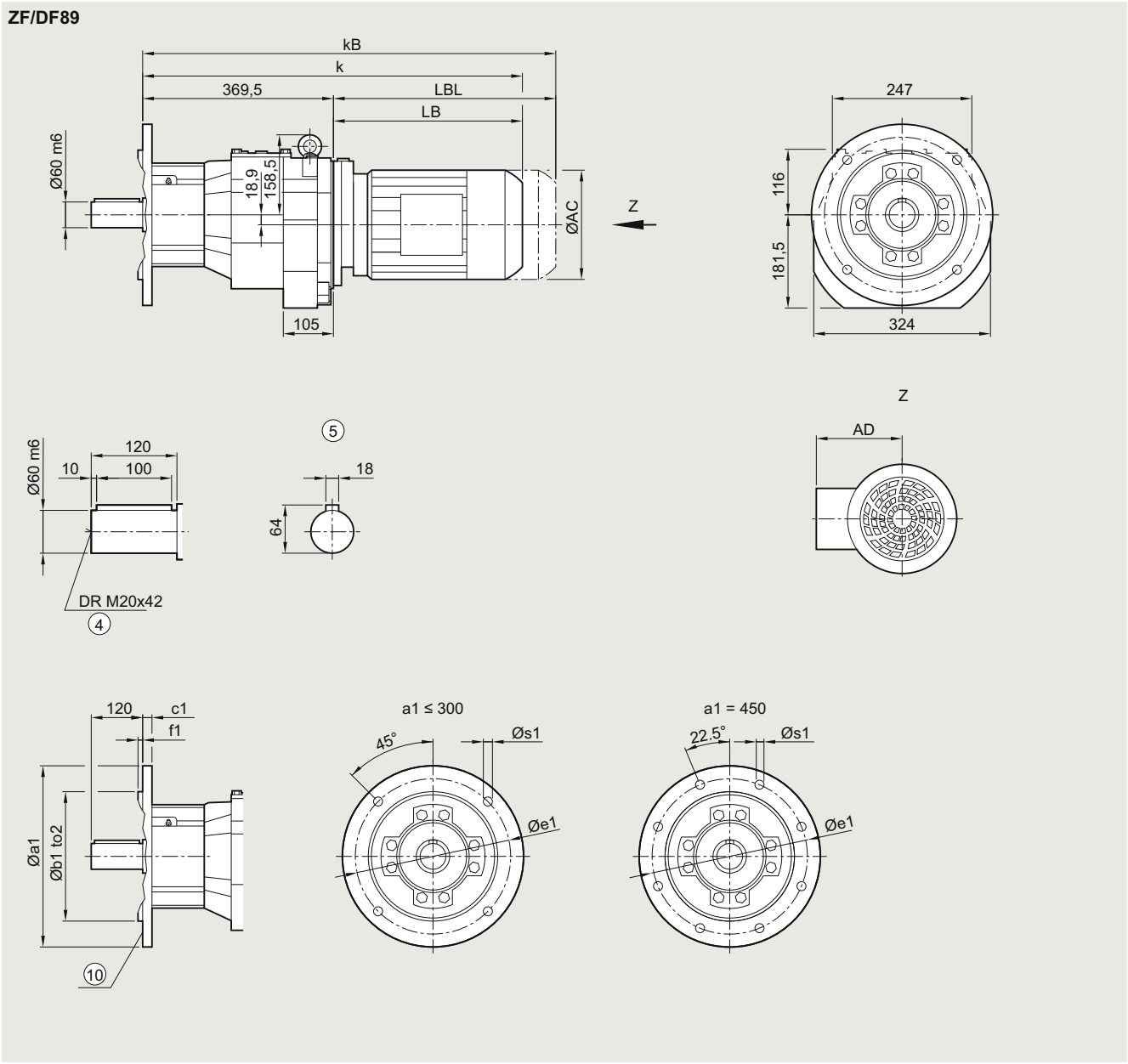
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

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

DZF040

ZF/DF89



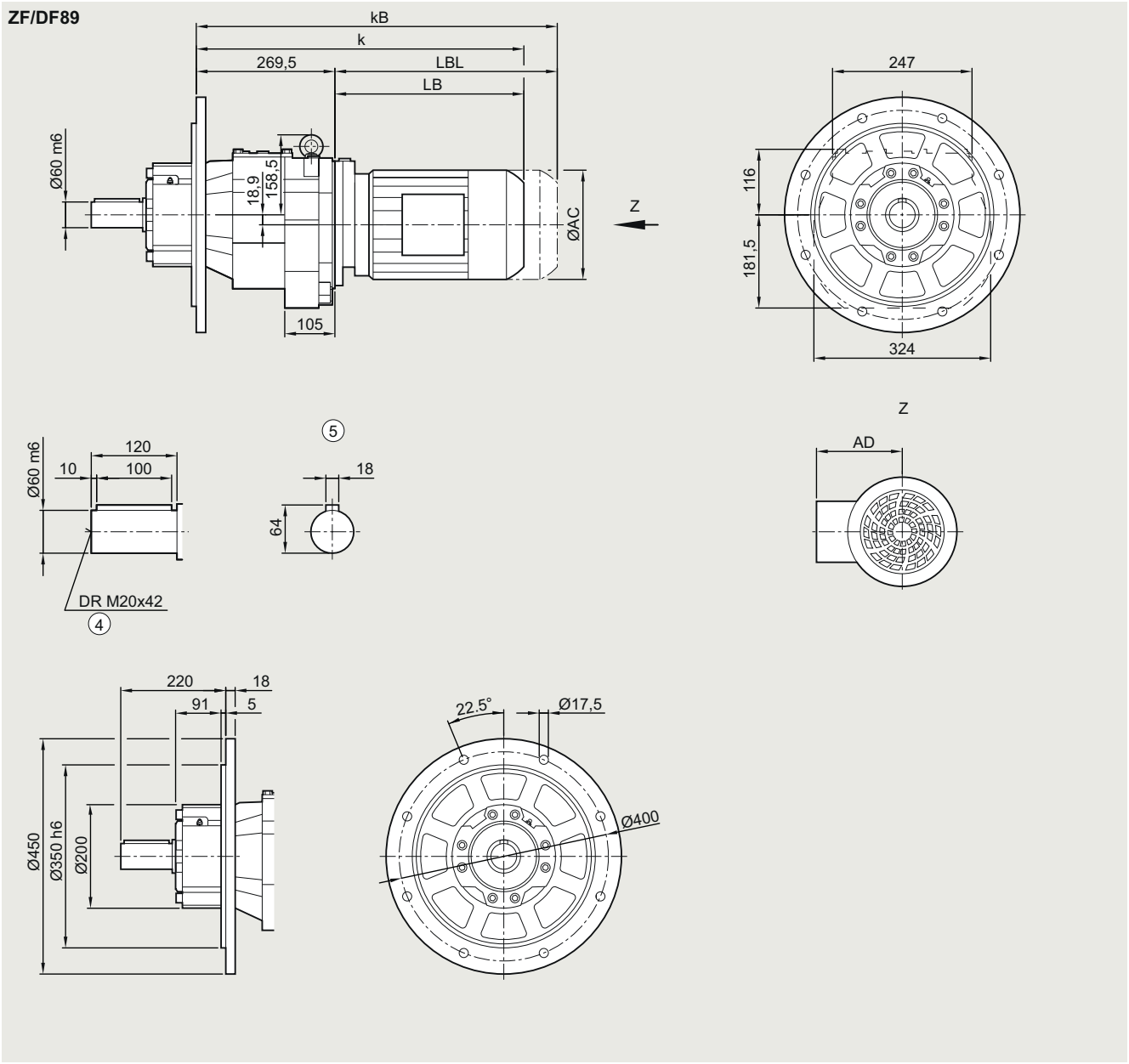
Flange	a1	b1	to2	c1	e1	f1	s1
	300	230	j6	16	265	4.0	13.5
	350	250	j6	18	300	5.0	17.5
	450	350	h6	18	400	5.0	17.5

Motor	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z
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
kB	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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

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

DZF040



Motor	LE												LES	
	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z
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
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
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

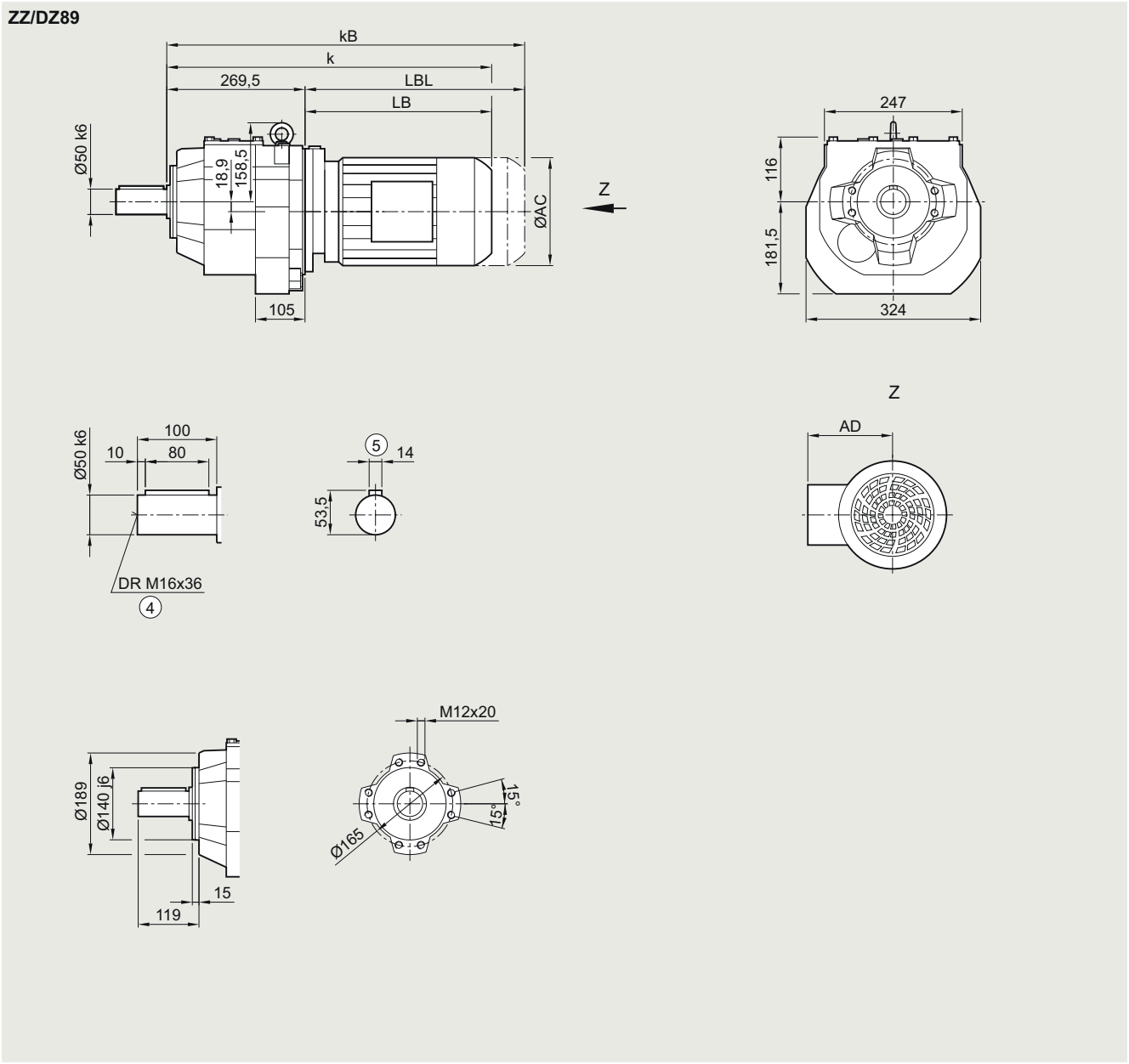
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox ZZ/DZ89 in a housing flange design

DZZ030

ZZ/DZ89



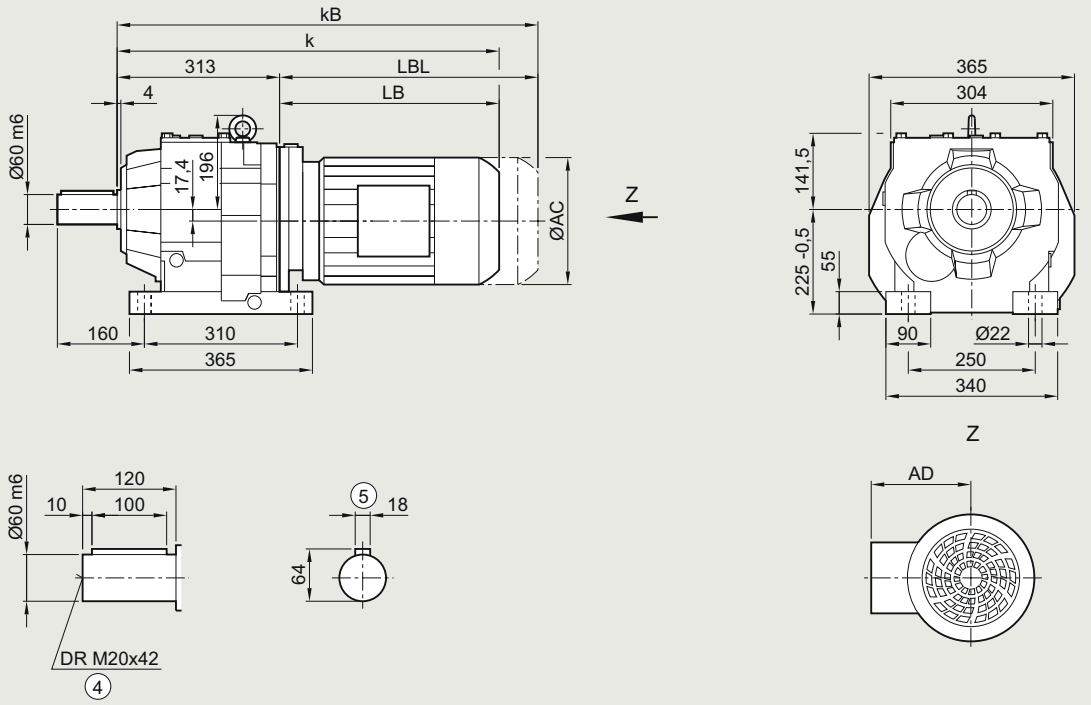
Motor	LE												LES	
	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1)]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	531.0	566.0	592.5	632.5	645.0	680.0	655.0	680.0	708.0	758.0	790.0	850.0	863.0	893.0
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
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.

Gearbox Z/D109 in a foot-mounted design

DZ030

Z/D109



Motor	LE										LES					
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
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
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
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

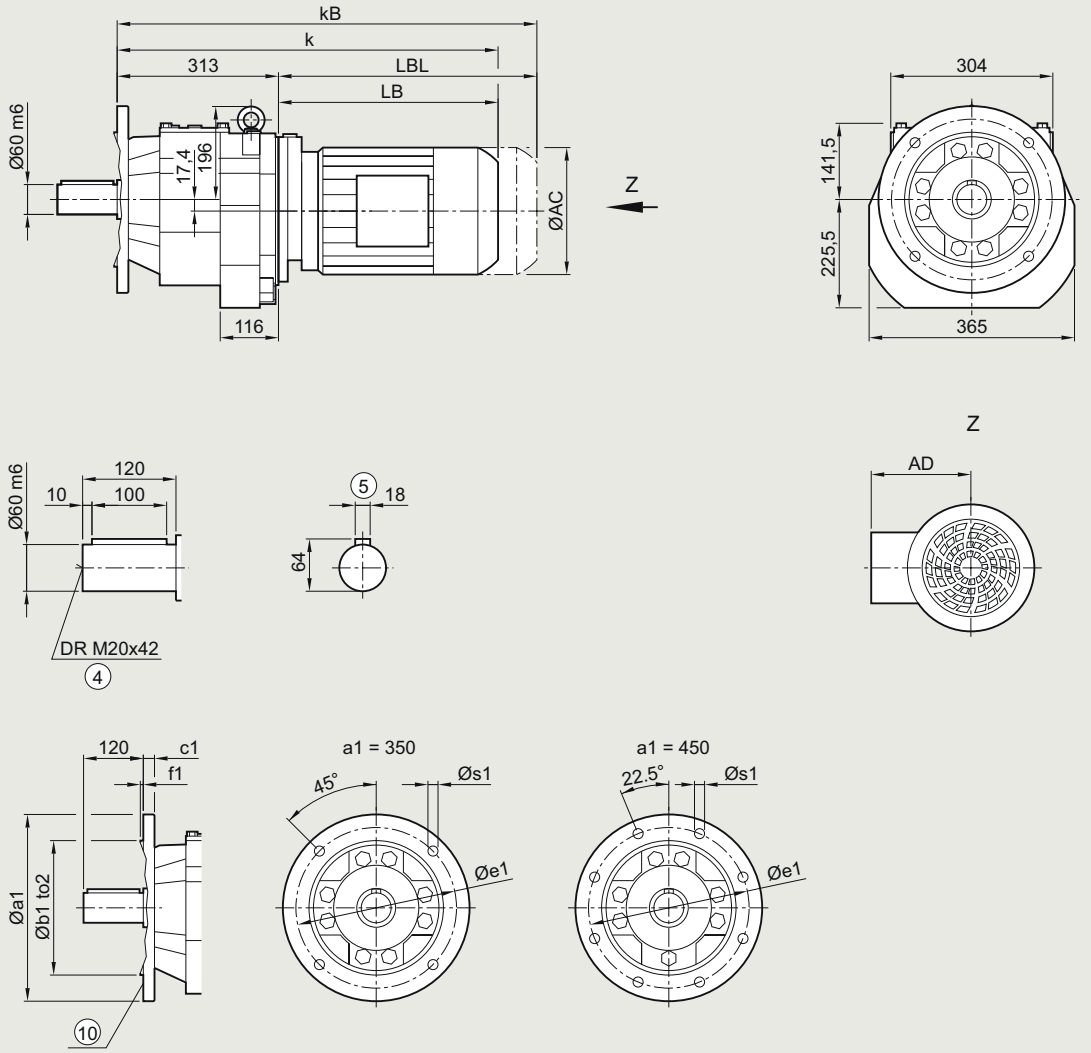
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox ZF/DF109 in a flange-mounted design

DZF030

ZF/DF109



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	18	300	5	17.5
	450	350	h6	22	400	5	17.5

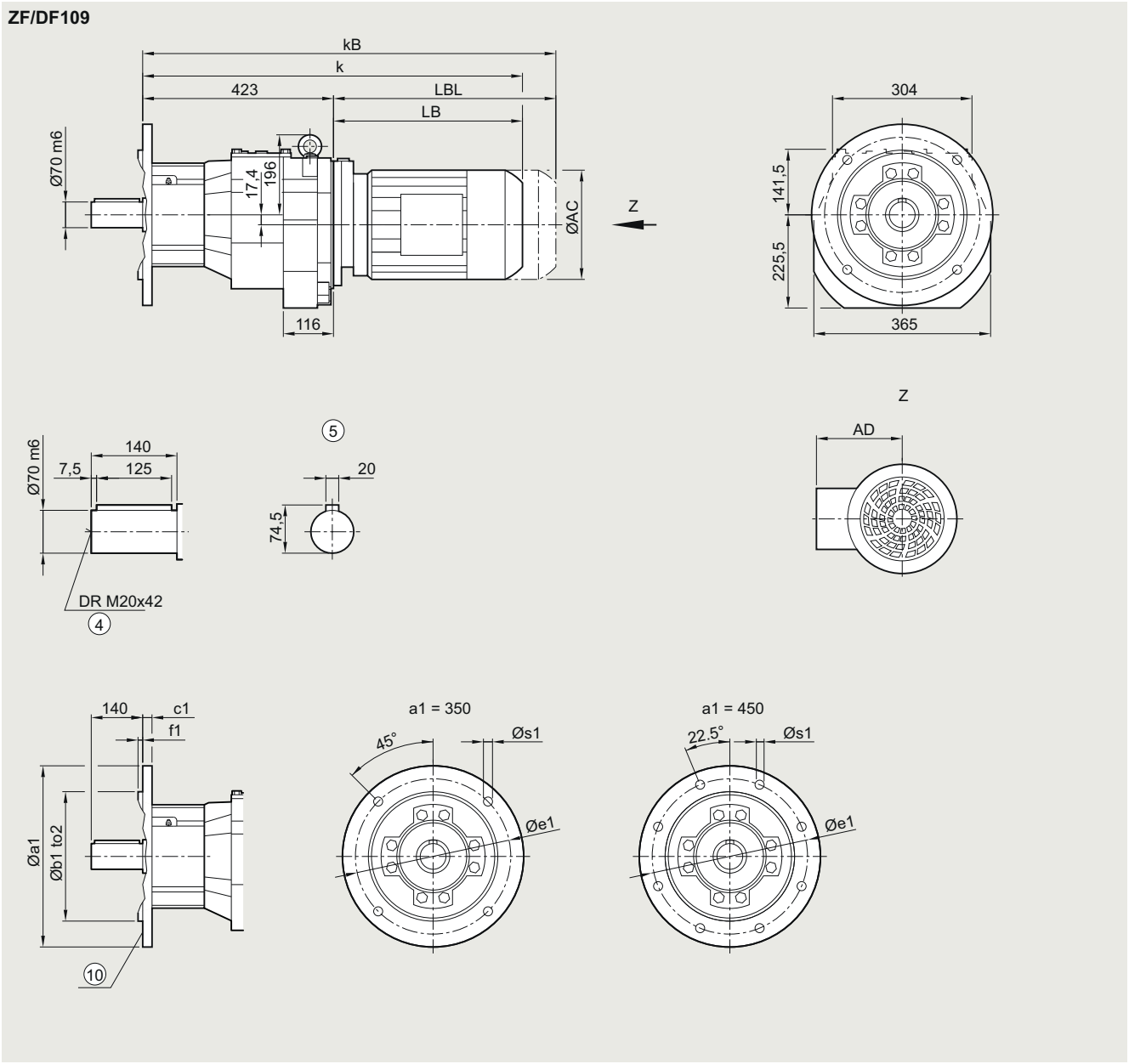
Motor	LE										LES					
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0
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
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
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.
⑩ For inner contour, see page 3/180

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

DZF040

ZF/DF109



Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	18	300	5	17.5
	450	350	h6	22	400	5	17.5

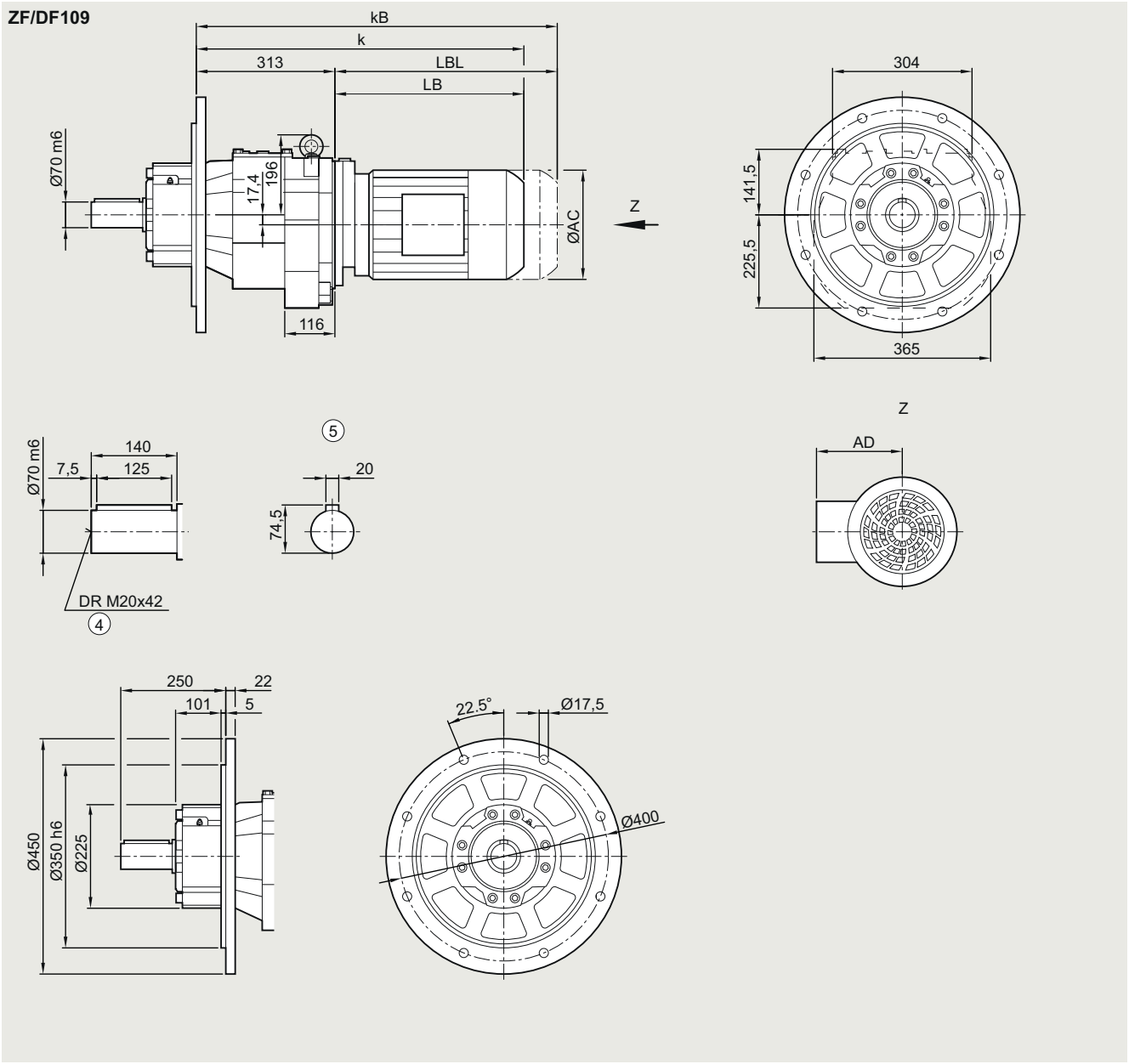
Motor	LE										LES					
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0
k	739.0	779.0	789.5	824.5	799.5	824.5	852.5	902.5	934.5	994.5	1007.5	1037.5	1075.5	1100.5	1121.0	1181.0
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

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

DZF040



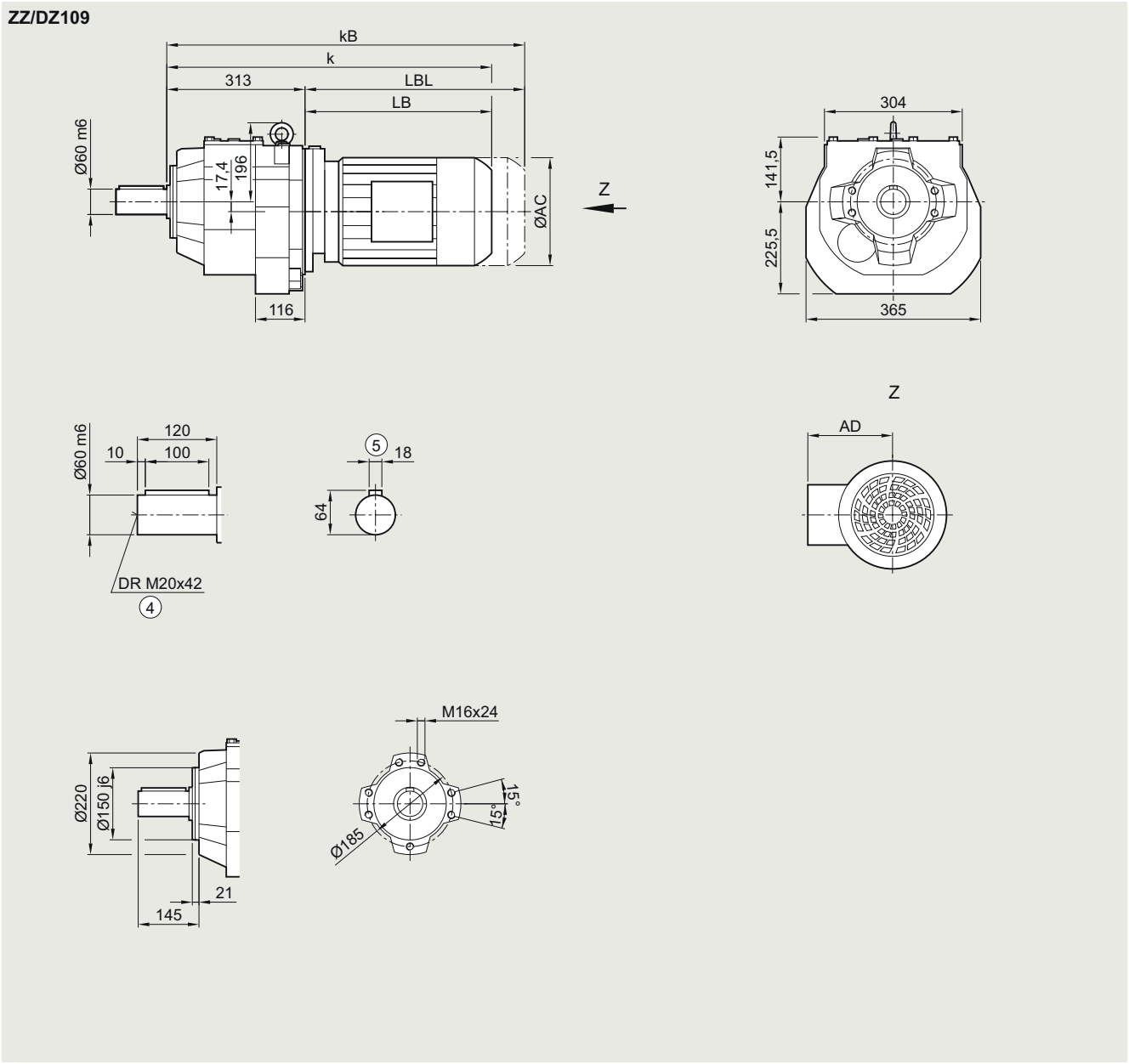
Motor	LE										LES					
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0
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
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
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.

Gearbox ZZ/DZ109 in a housing flange design

DZZ030

ZZ/DZ109



Motor	LE										LES					
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
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
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
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

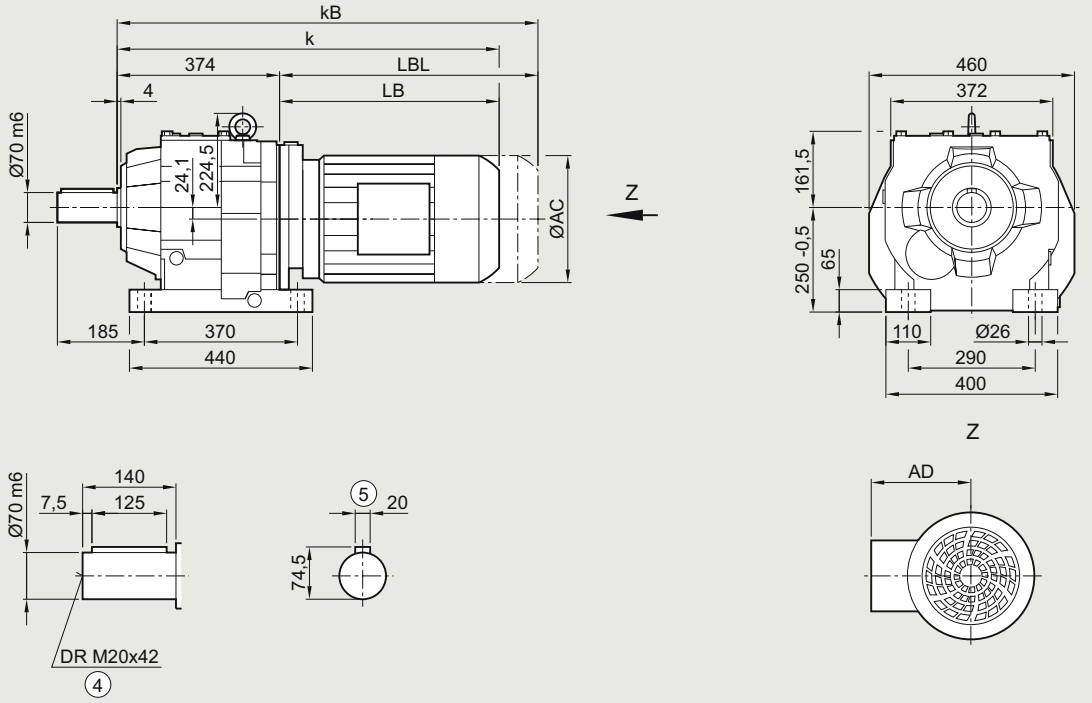
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox Z/D129 in a foot-mounted design

DZ030

Z/D129



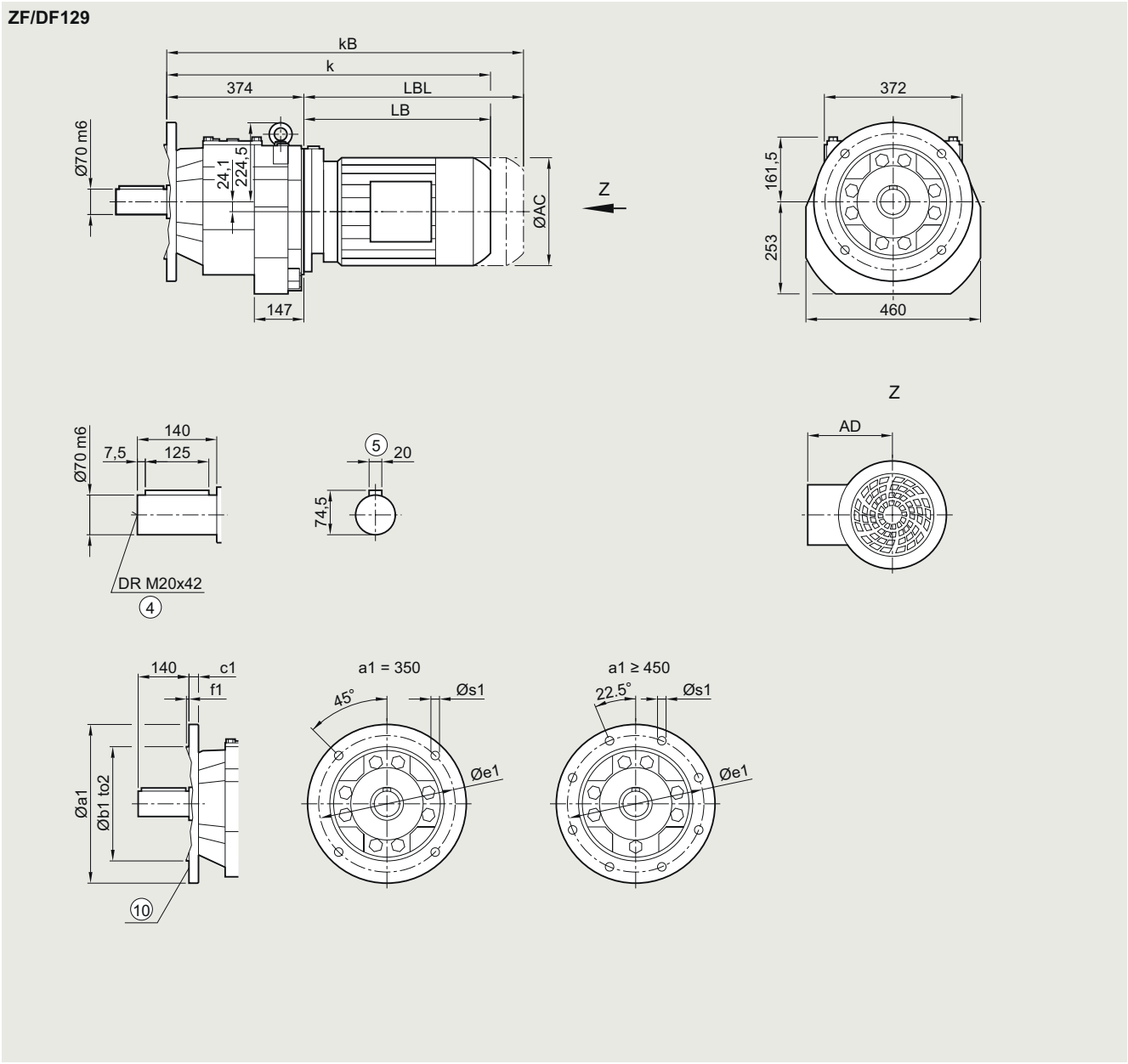
Motor	LE										LES						
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	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
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
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.

Gearbox ZF/DF129 in a flange-mounted design

DZF030

ZF/DF129



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	LE										LES						
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.

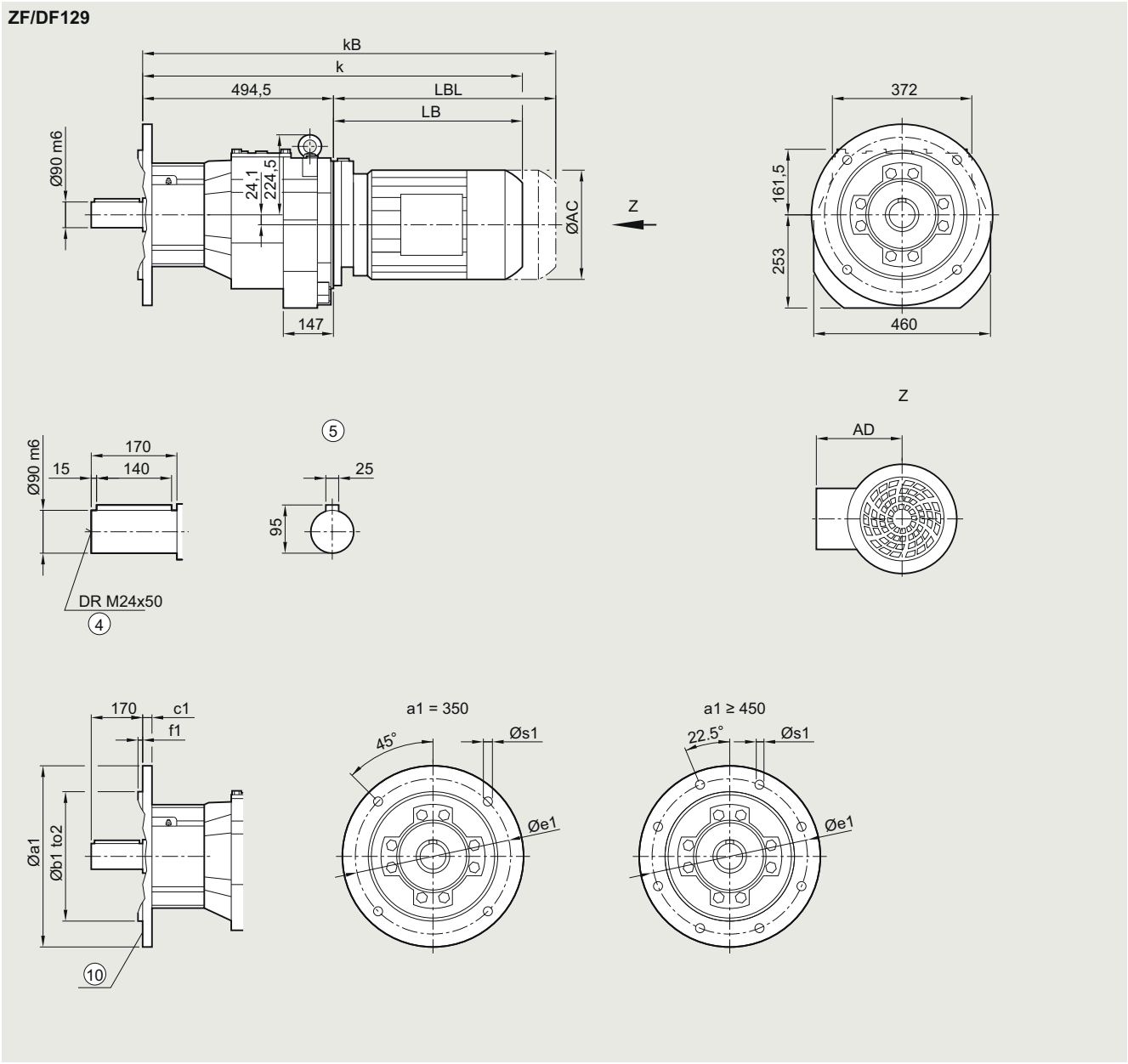
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

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

DZF040

ZF/DF129



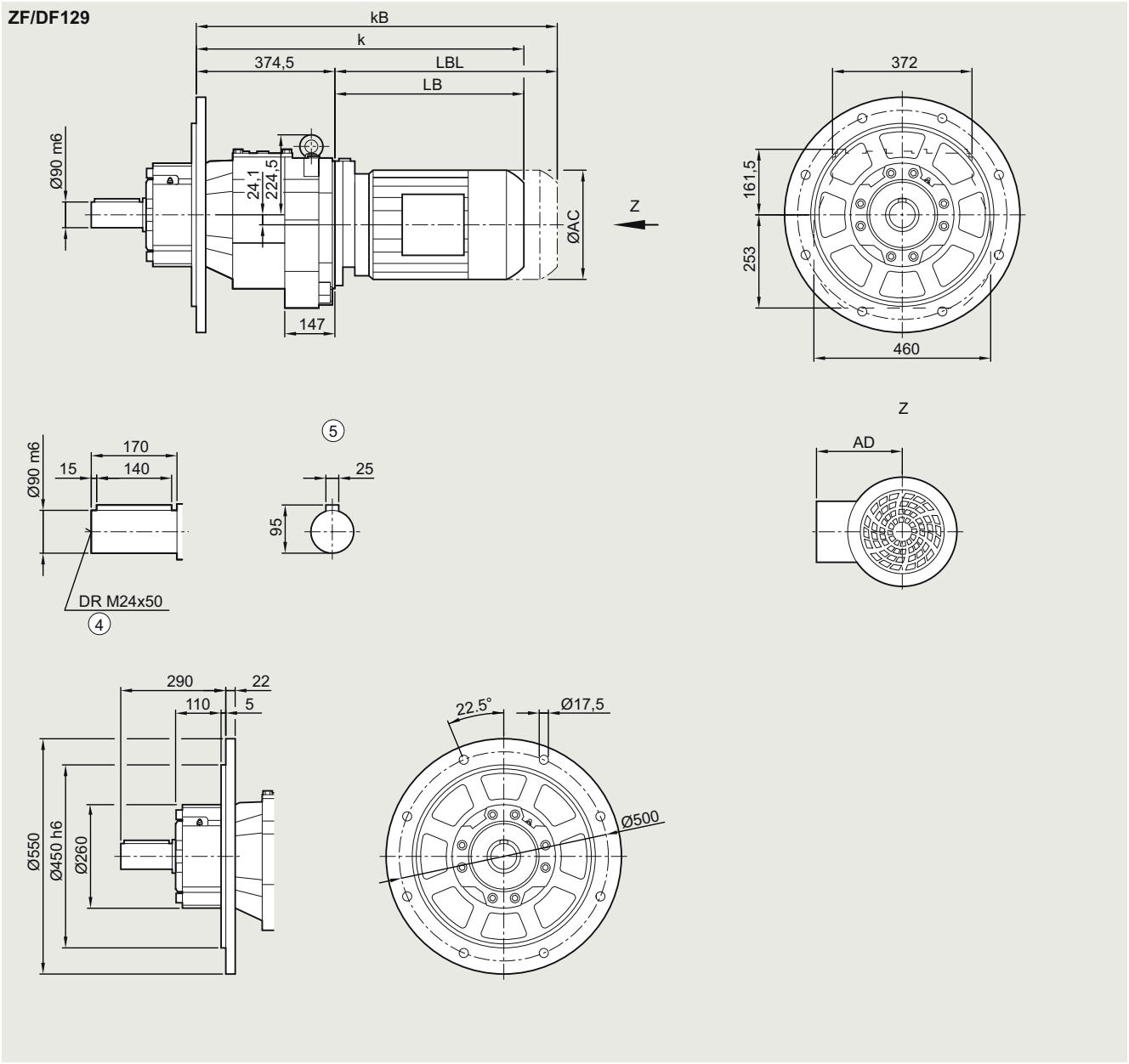
Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor	LE										LES						
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
kB	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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

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

DZF040



Motor	LE										LES						
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

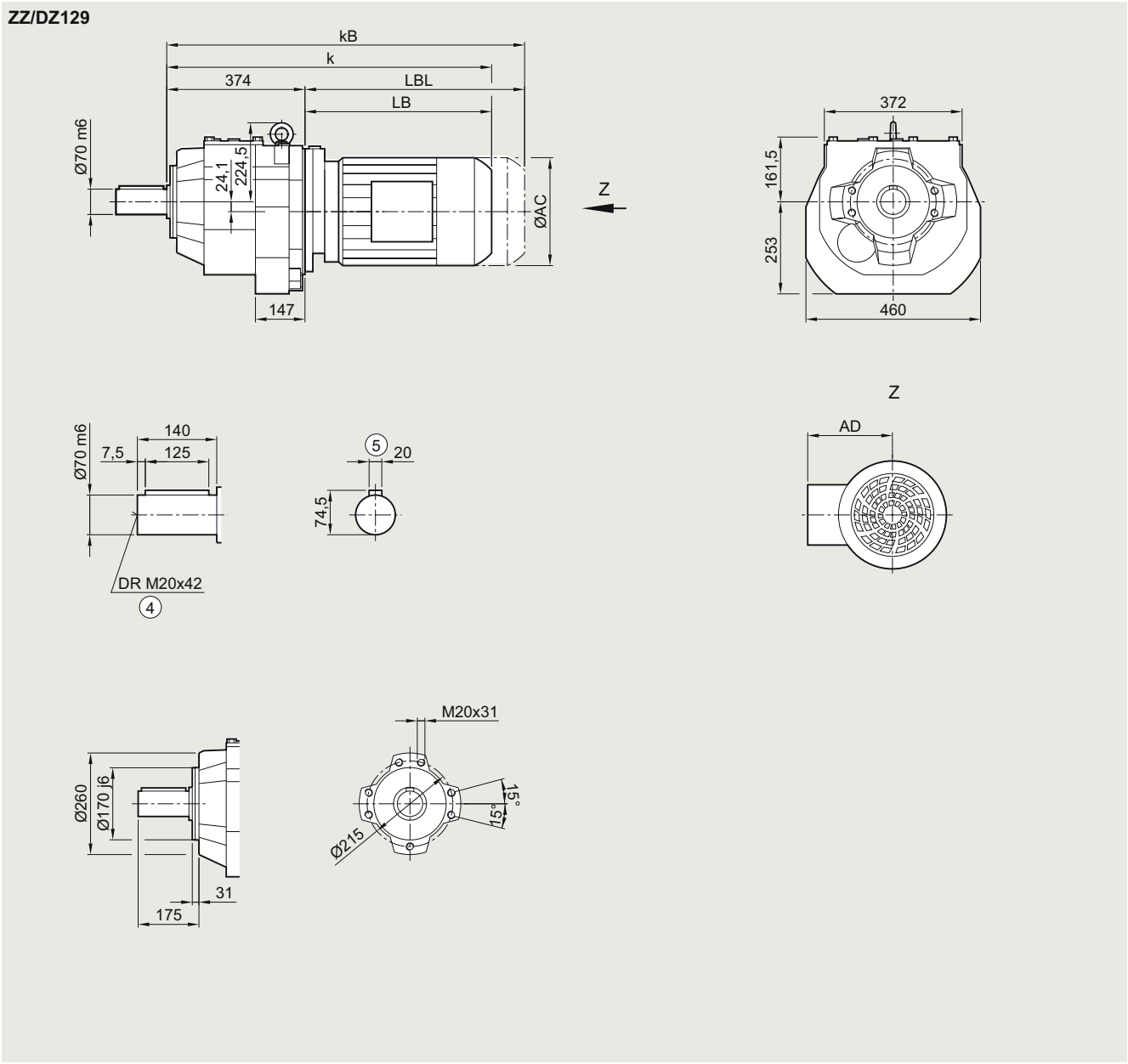
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox ZZ/DZ129 in a housing flange design

DZZ030

ZZ/DZ129



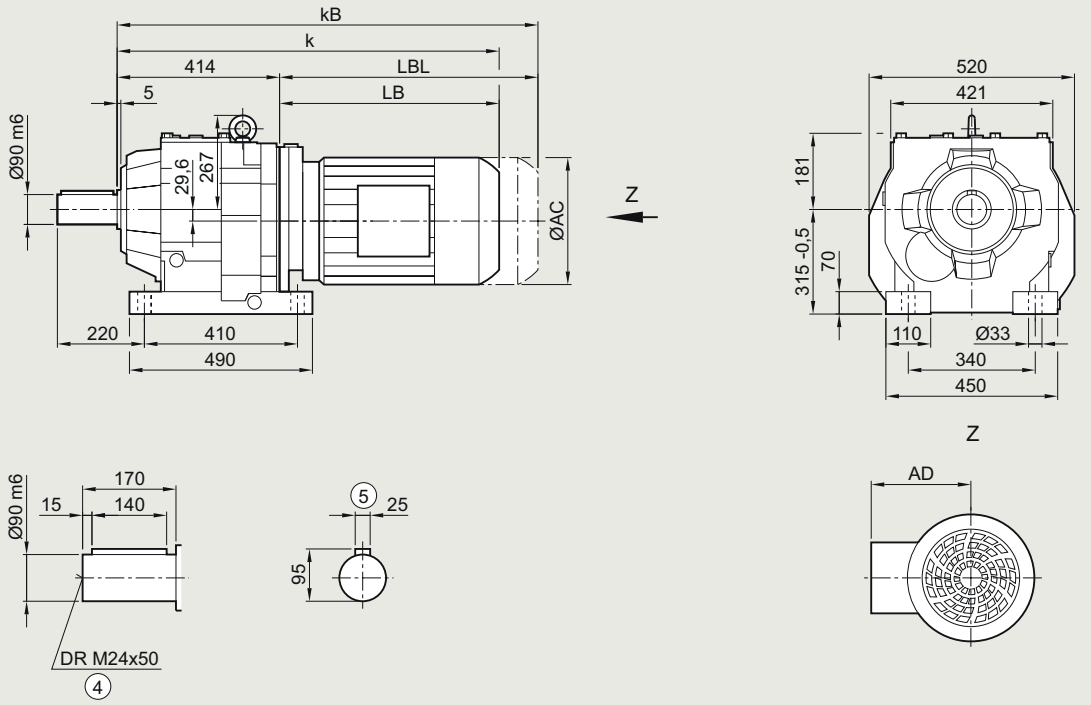
Motor	LE										LES						
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	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
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
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.

Gearbox Z/D149 in a foot-mounted design

DZ030

Z/D149



Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

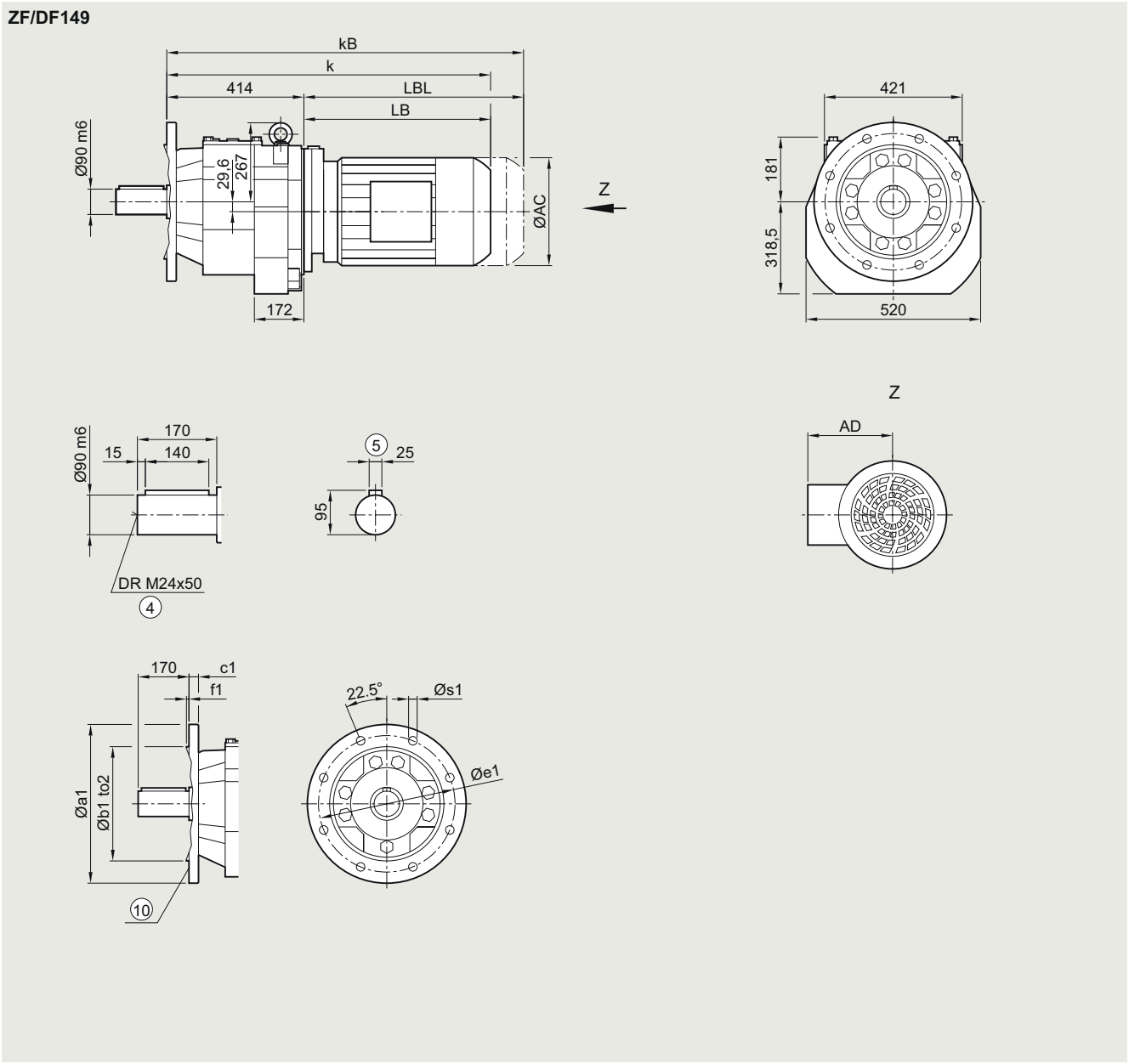
[1)] AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox ZF/DF149 in a flange-mounted design

DZF030

ZF/DF149



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

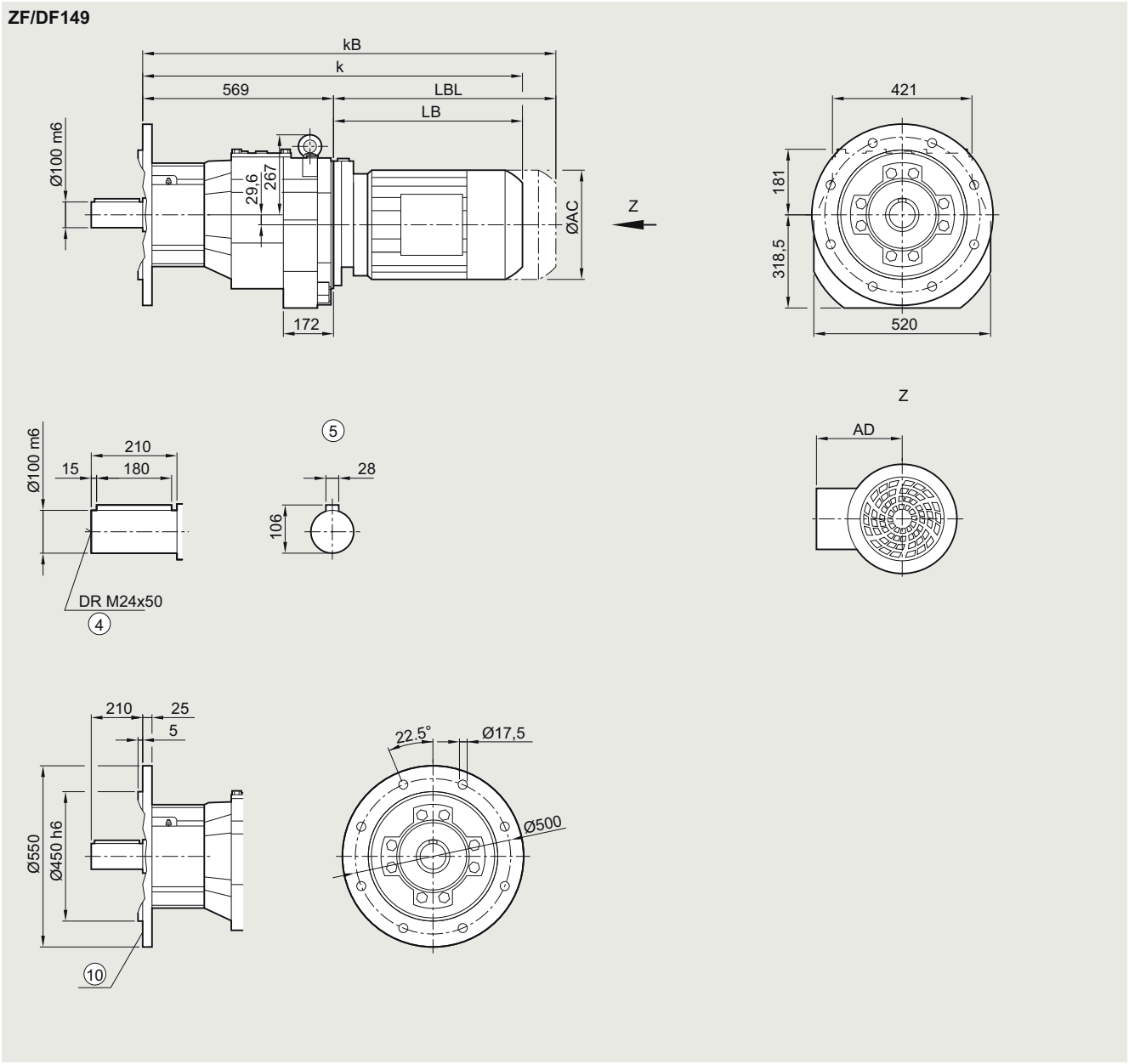
Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	770.0	805.0	780.0	805.0	826.0	876.0	908.0	968.0	981.0	1011.0	1049.0	1074.0	1094.5	1154.5	1206.0
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
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.
⑩ For inner contour, see page 3/180

Gearbox ZF/DF149 in a flange-mounted design with VLplus reinforced bearing system (G30)

DZF040

ZF/DF149



Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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	925.0	960.0	935.0	960.0	981.0	1031.0	1063.0	1123.0	1136.0	1166.0	1204.0	1229.0	1249.5	1309.5	1361.0
kB	1003.5	1038.5	1008.0	1033.0	1085.5	1135.5	1179.0	1239.0	1265.0	1295.0	1351.0	1376.0	1477.5	1537.5	1586.0
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
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

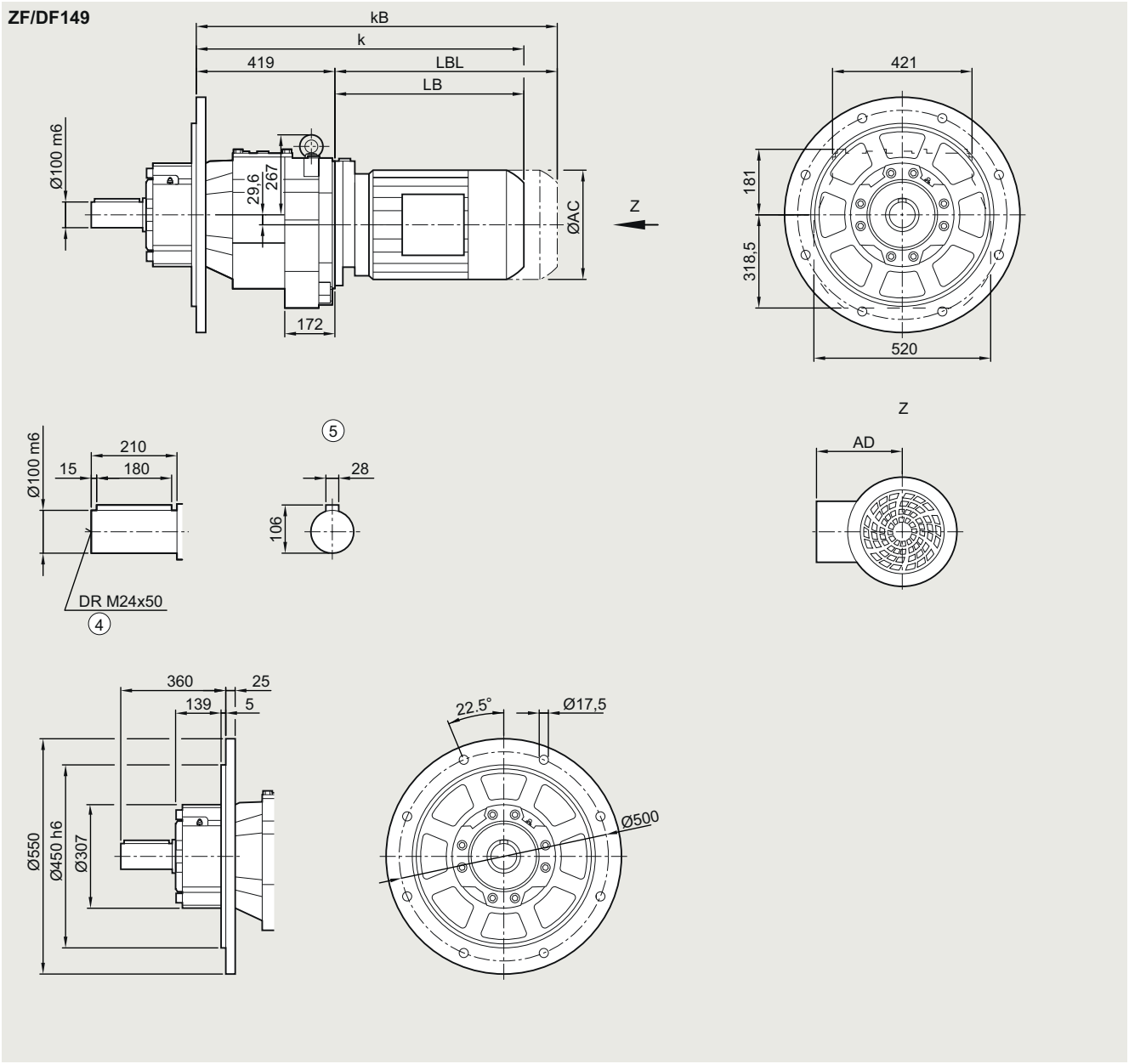
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.

⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZF/DF149 in a flange-mounted design with XLplus reinforced bearing system (G31)

DZF040



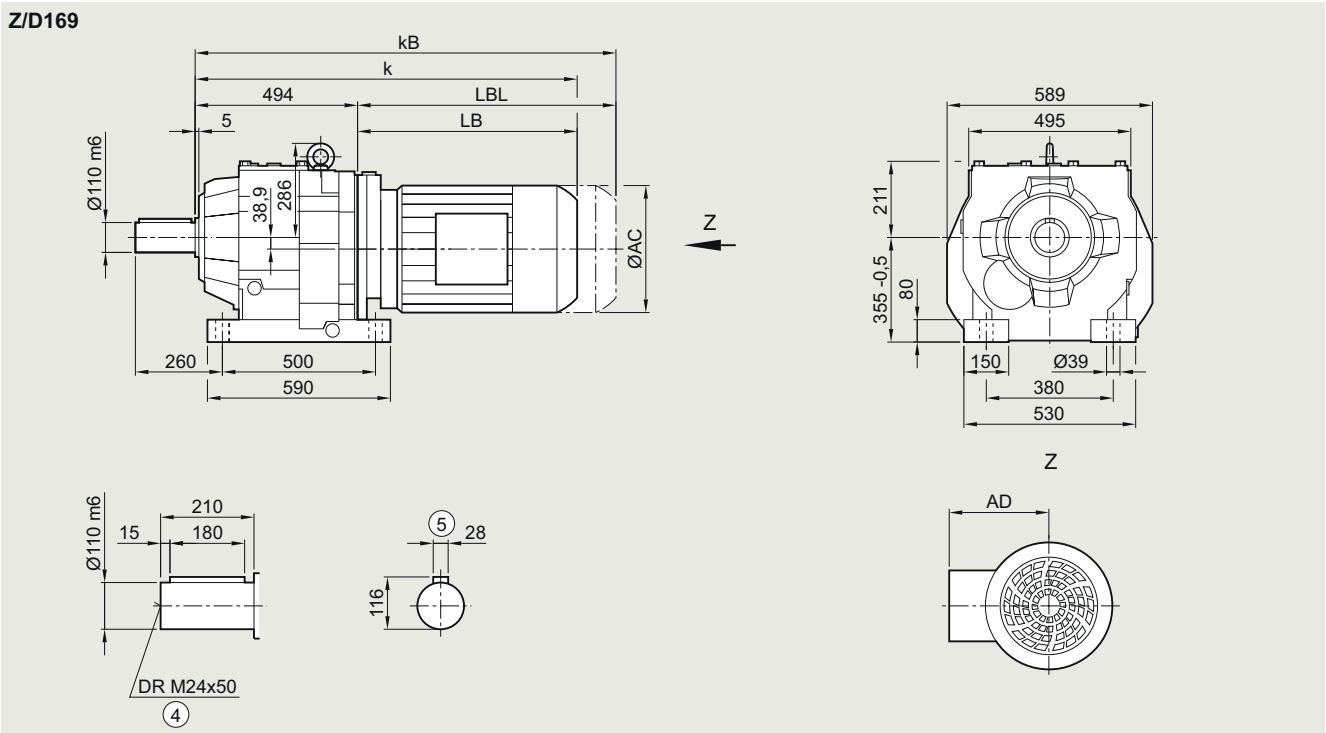
Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	775.0	810.0	785.0	810.0	831.0	881.0	913.0	973.0	986.0	1016.0	1054.0	1079.0	1099.5	1159.5	1211.0
kB	853.5	888.5	858.0	883.0	935.5	985.5	1029.0	1089.0	1115.0	1145.0	1201.0	1226.0	1327.5	1387.5	1436.0
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
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.

Gearbox Z/D169 in a foot-mounted design

DZ030

Z/D169



Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

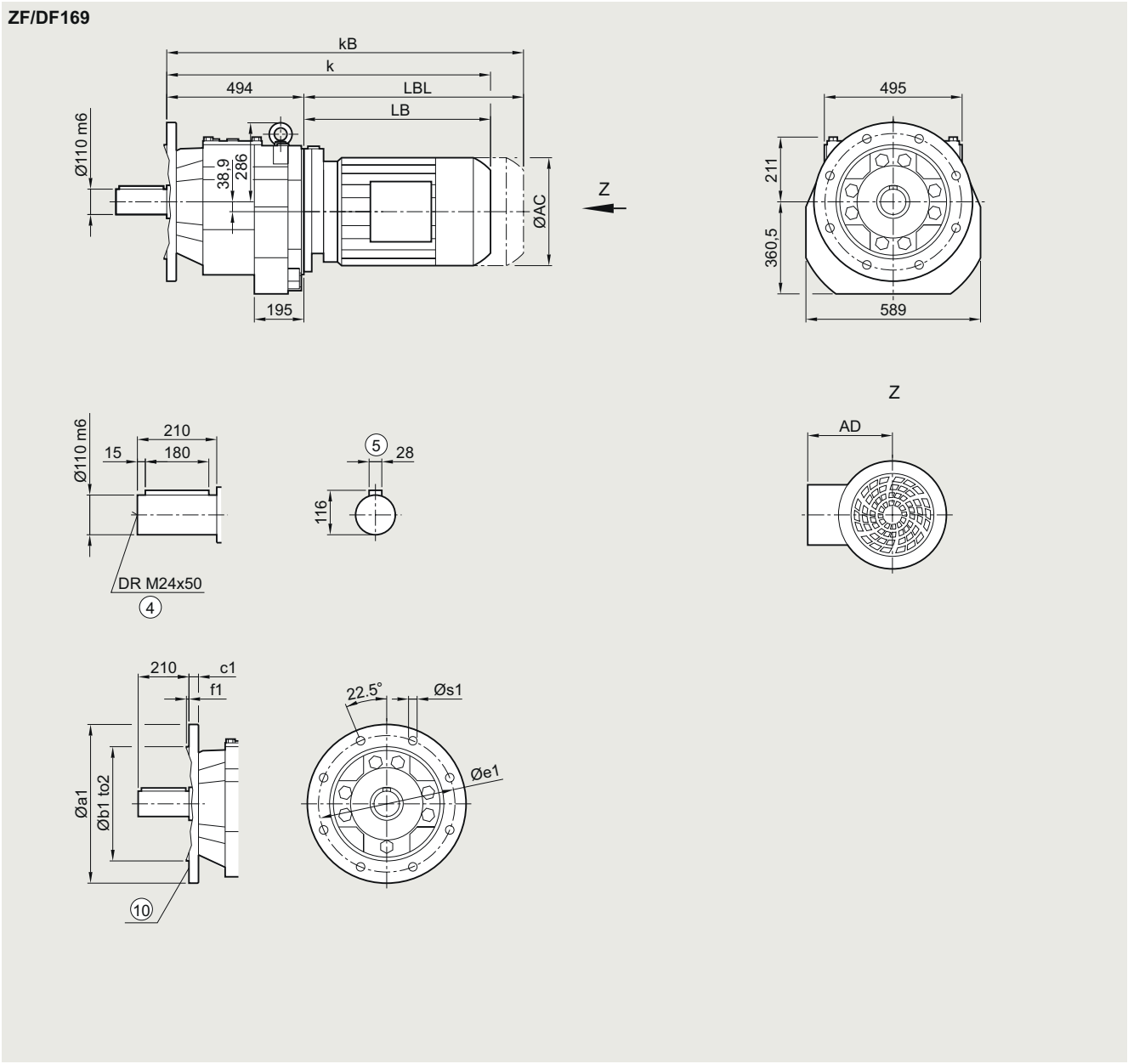
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox ZF/DF169 in a flange-mounted design

DZF030

ZF/DF169



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

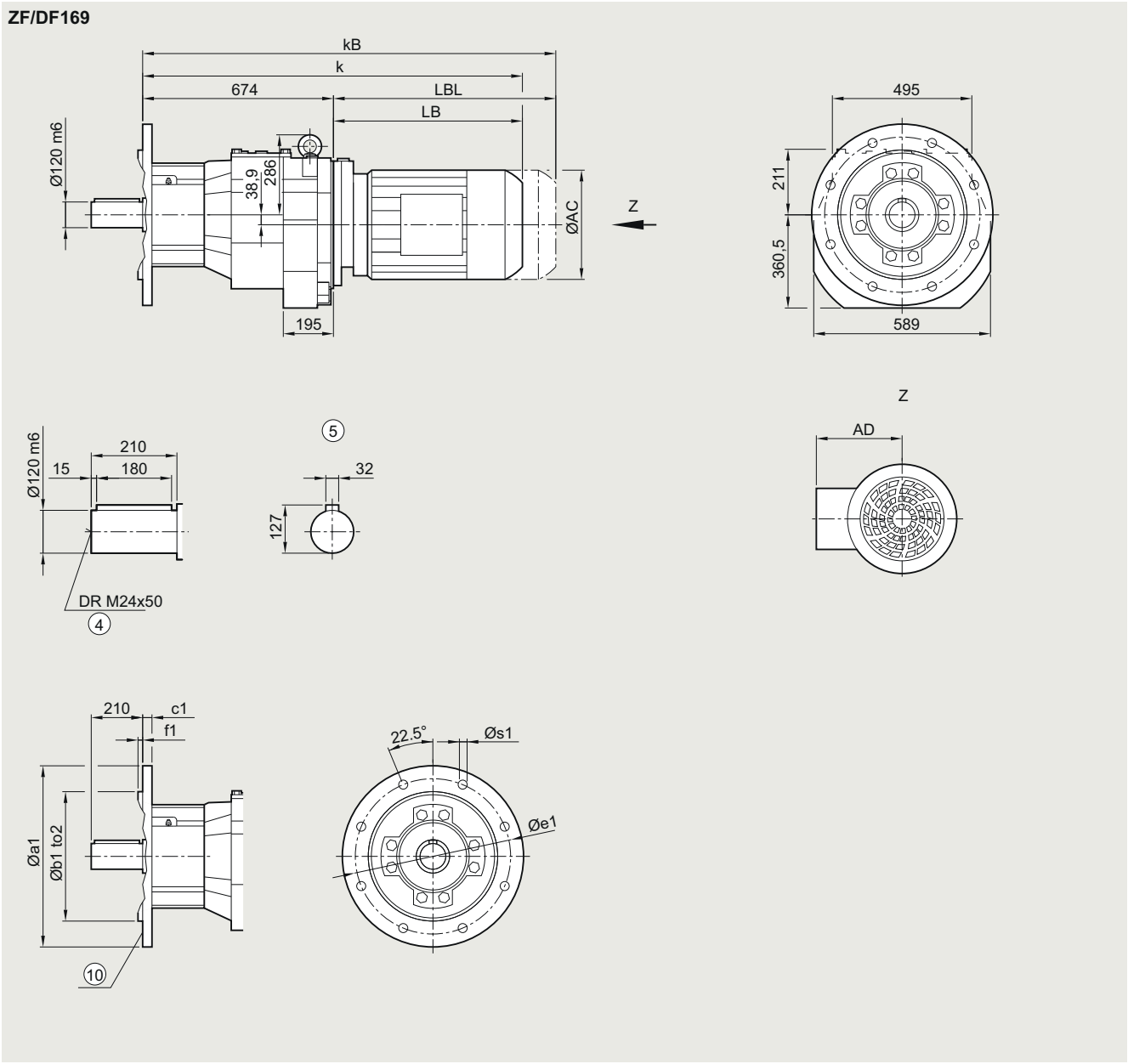
Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	847.5	872.5	893.0	943.0	975.0	1035.0	1047.5	1077.5	1115.5	1140.5	1160.0	1220.0	1267.5
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

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

DZF040

ZF/DF169



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

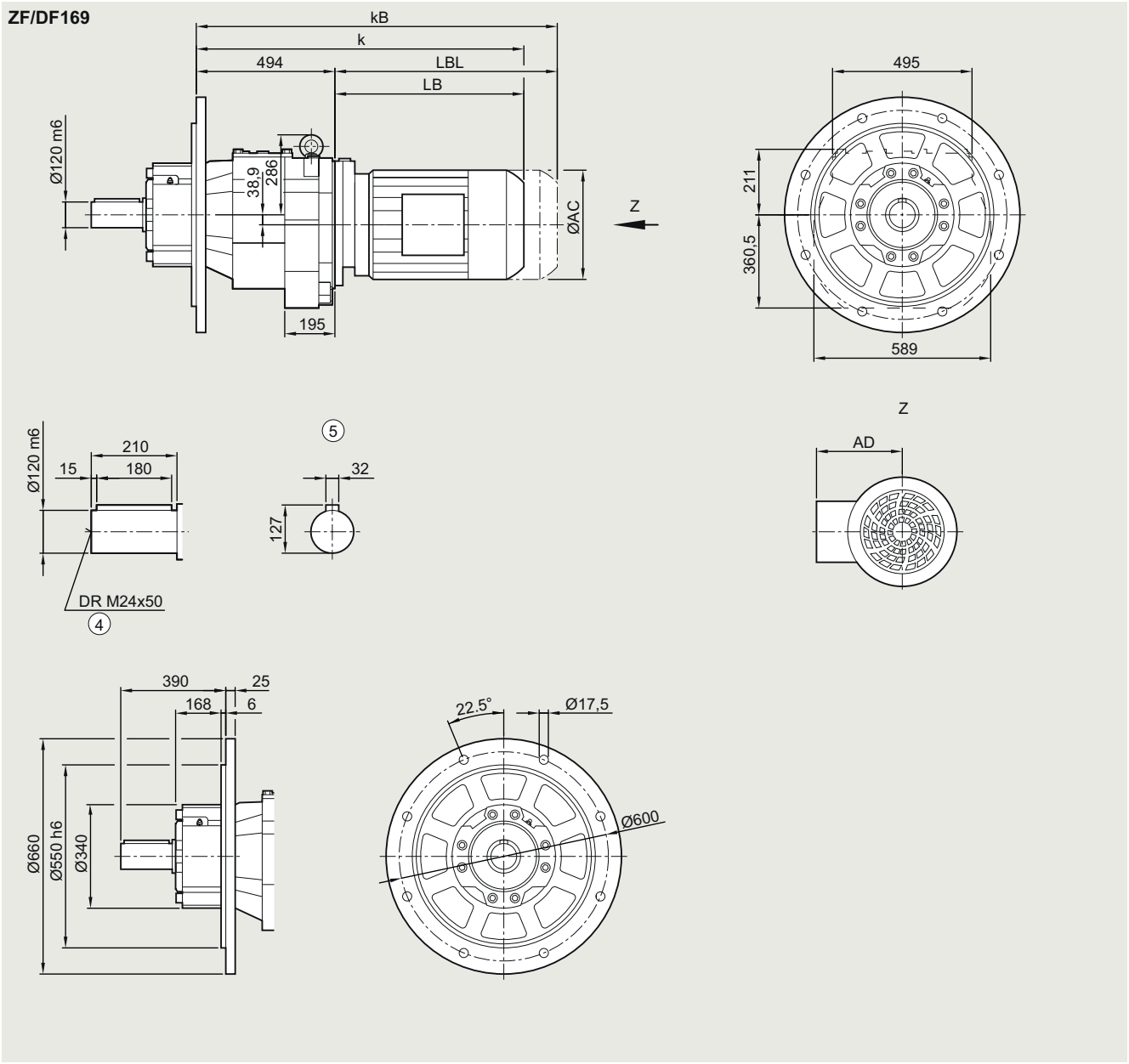
Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	1027.5	1052.5	1073.0	1123.0	1155.0	1215.0	1227.5	1257.5	1295.5	1320.5	1340.0	1400.0	1447.5
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

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

DZF040



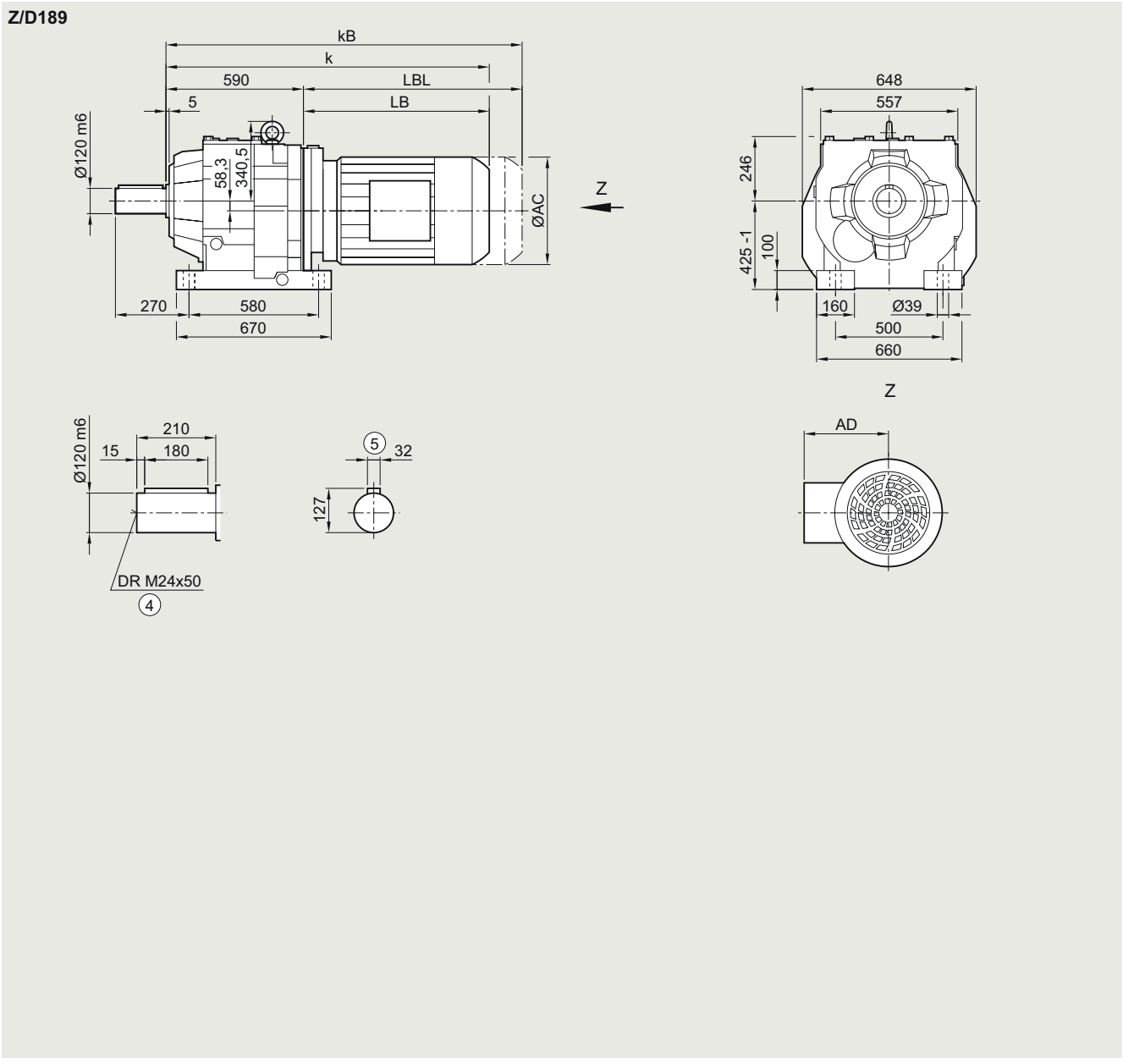
Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	847.5	872.5	893.0	943.0	975.0	1035.0	1047.5	1077.5	1115.5	1140.5	1160.0	1220.0	1267.5
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
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.

Gearbox Z/D189 in a foot-mounted design

DZ030

Z/D189



Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

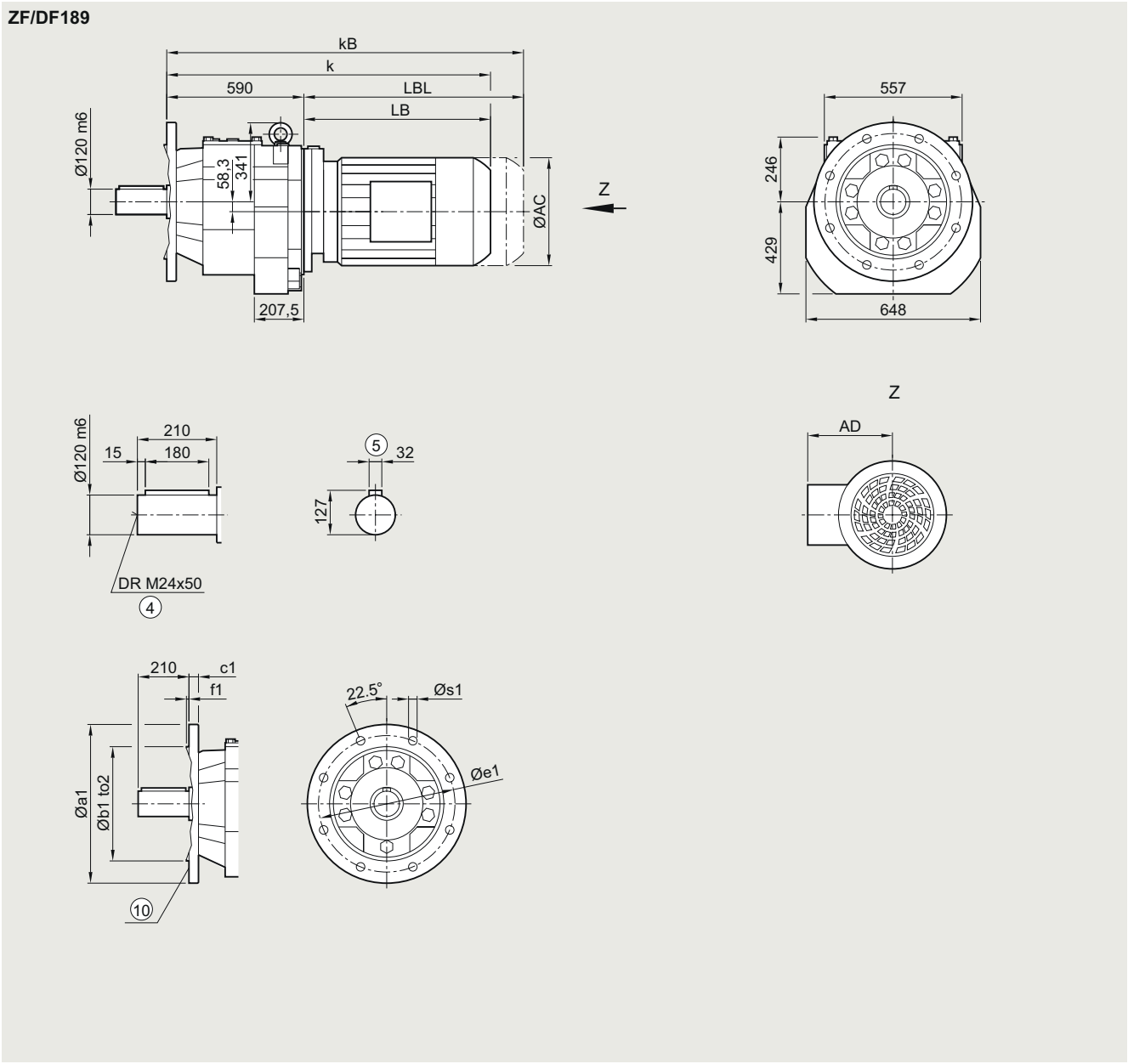
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
[1)] AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox ZF/DF189 in a flange-mounted design

DZF030

ZF/DF189



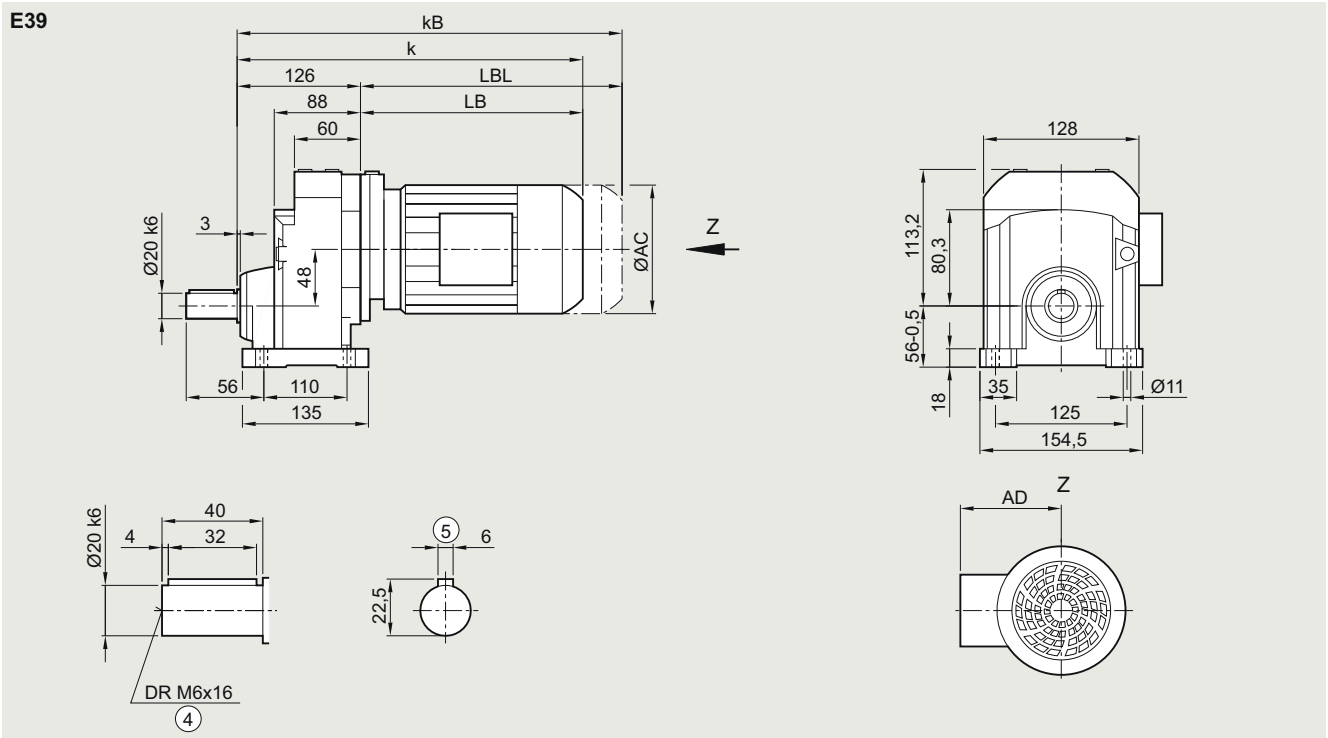
Flange	a1	b1	to2	c1	e1	f1	s1
	550	450	h6	25	500	5	17.5
	660	550	h6	28	600	6	22.0

Motor	LE 112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox E39 in a foot-mounted design

E030



Motor	LE												
	63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z
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
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
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

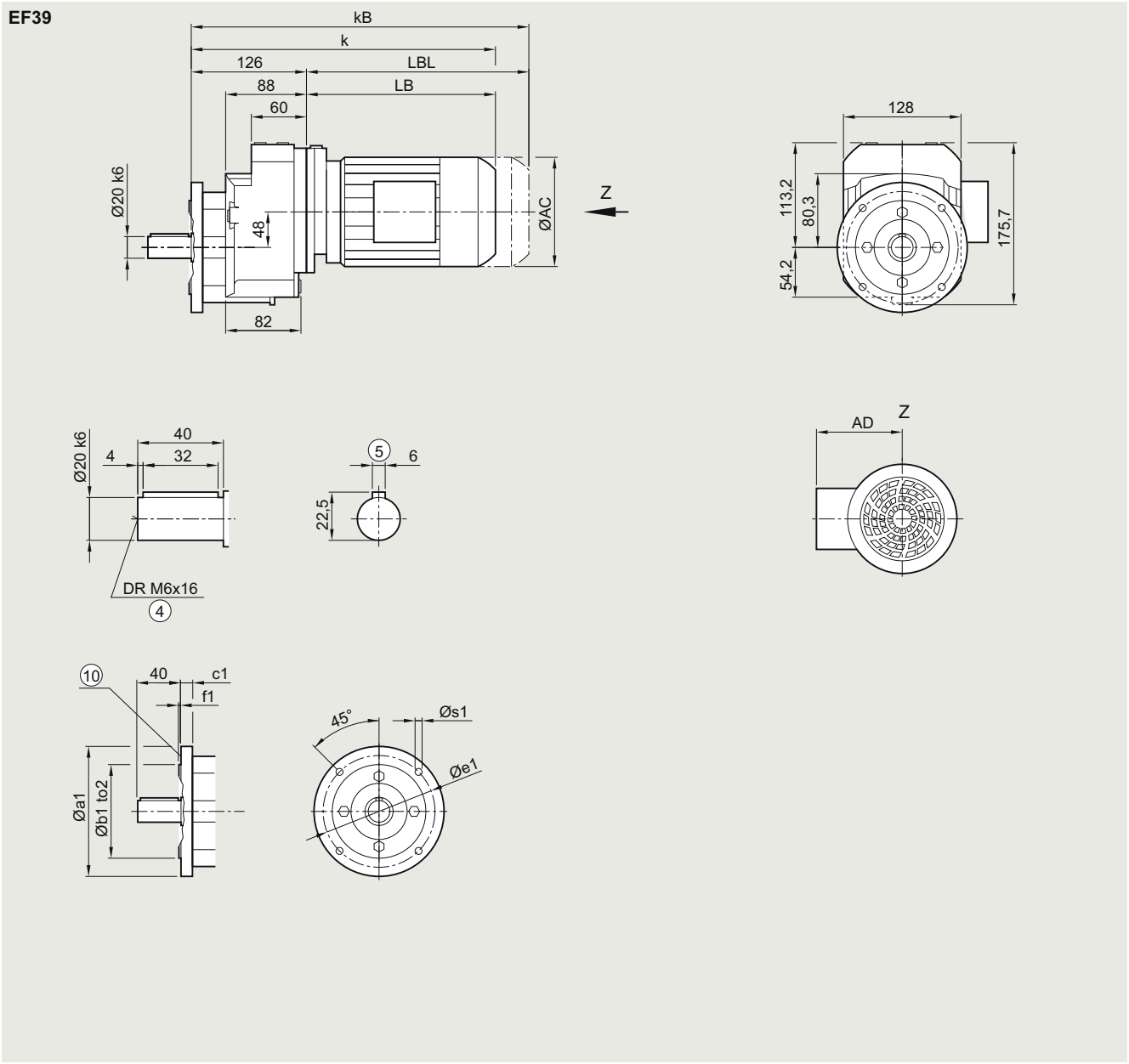
⑤ Feather key/keyway DIN 6885-1

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

Dimensional drawings

Gearbox EF39 in a flange-mounted design

EF030



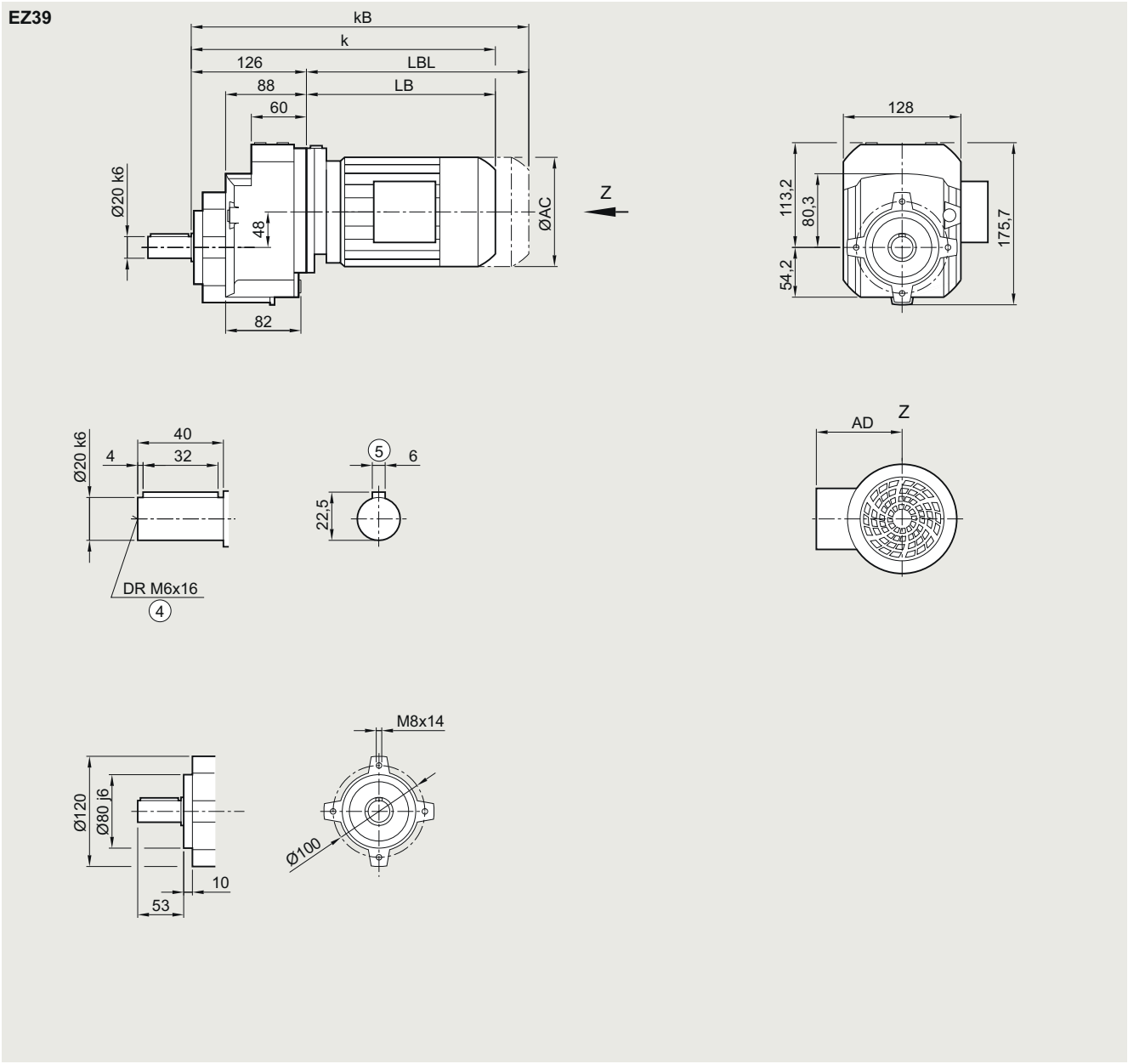
Flange	a1	b1	to2	c1	e1	f1	s1
	120	80	j6	8	100	3.0	6.8
	140	95	j6	7	115	3.0	9.0
	160	110	j6	10	130	3.5	9.0
	200	130	j6	12	165	3.5	11.0

Motor	LE												
	63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox EZ39 in a housing flange design

EZ030



Motor	LE												
	63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z
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
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
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

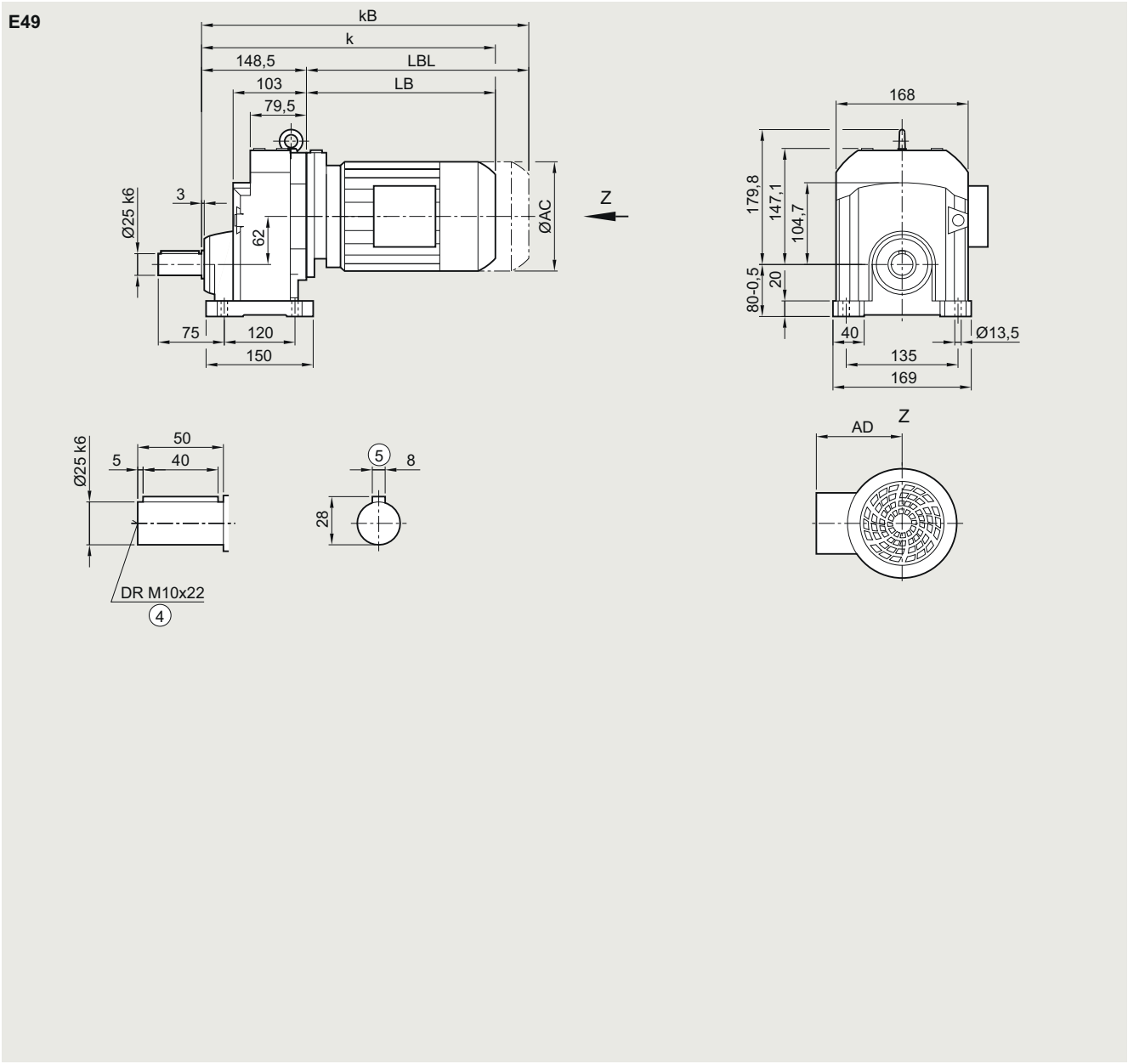
⑤ Feather key/keyway DIN 6885-1

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

Dimensional drawings

Gearbox E49 in a foot-mounted design

E030

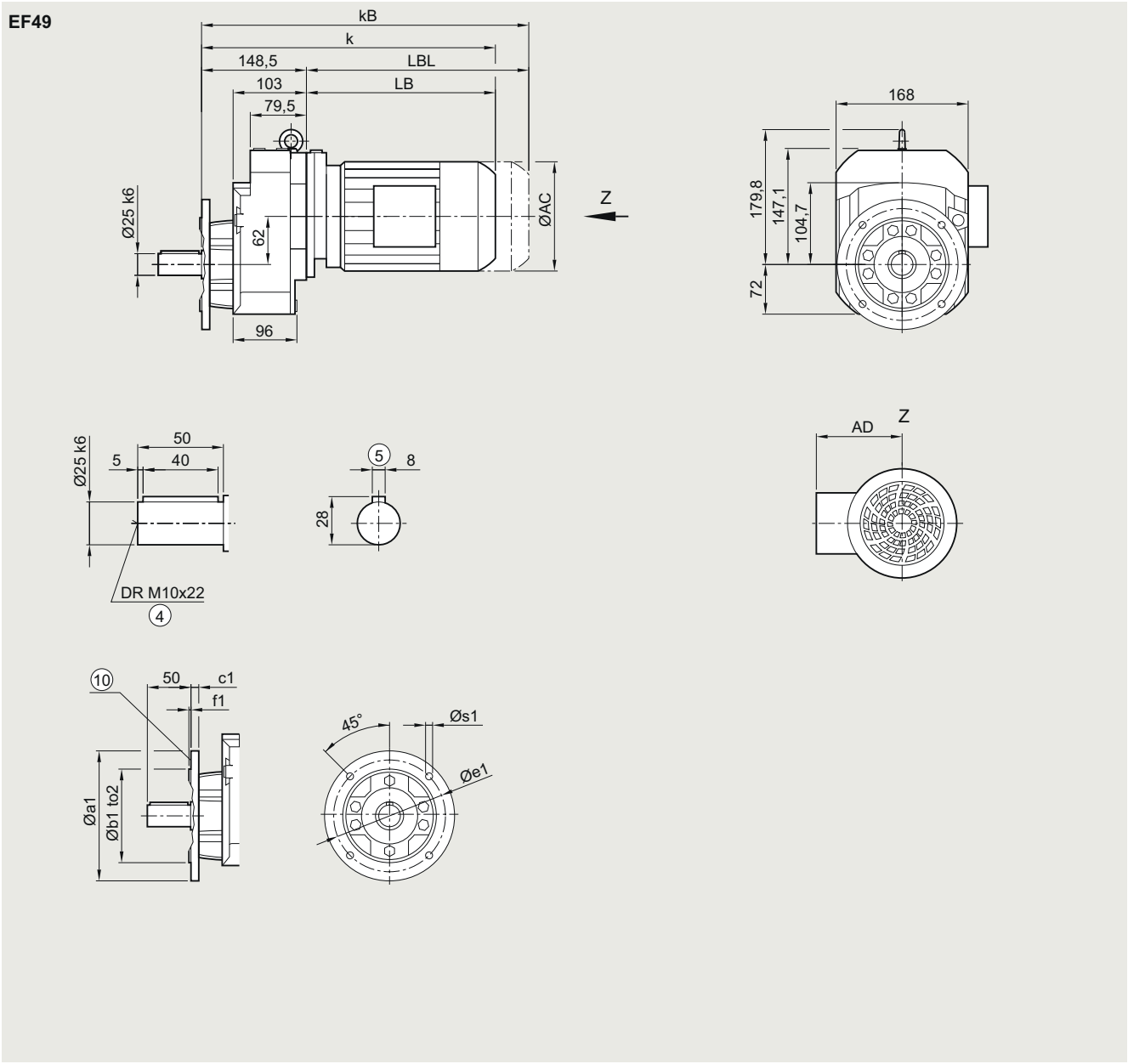


Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	333.0	359.0	365.0	384.0	424.0	429.0	464.0	490.5	530.5	547.0	582.0	557.0	591.5	610.0	660.0
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
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.

Gearbox EF49 in a flange-mounted design

EF030



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

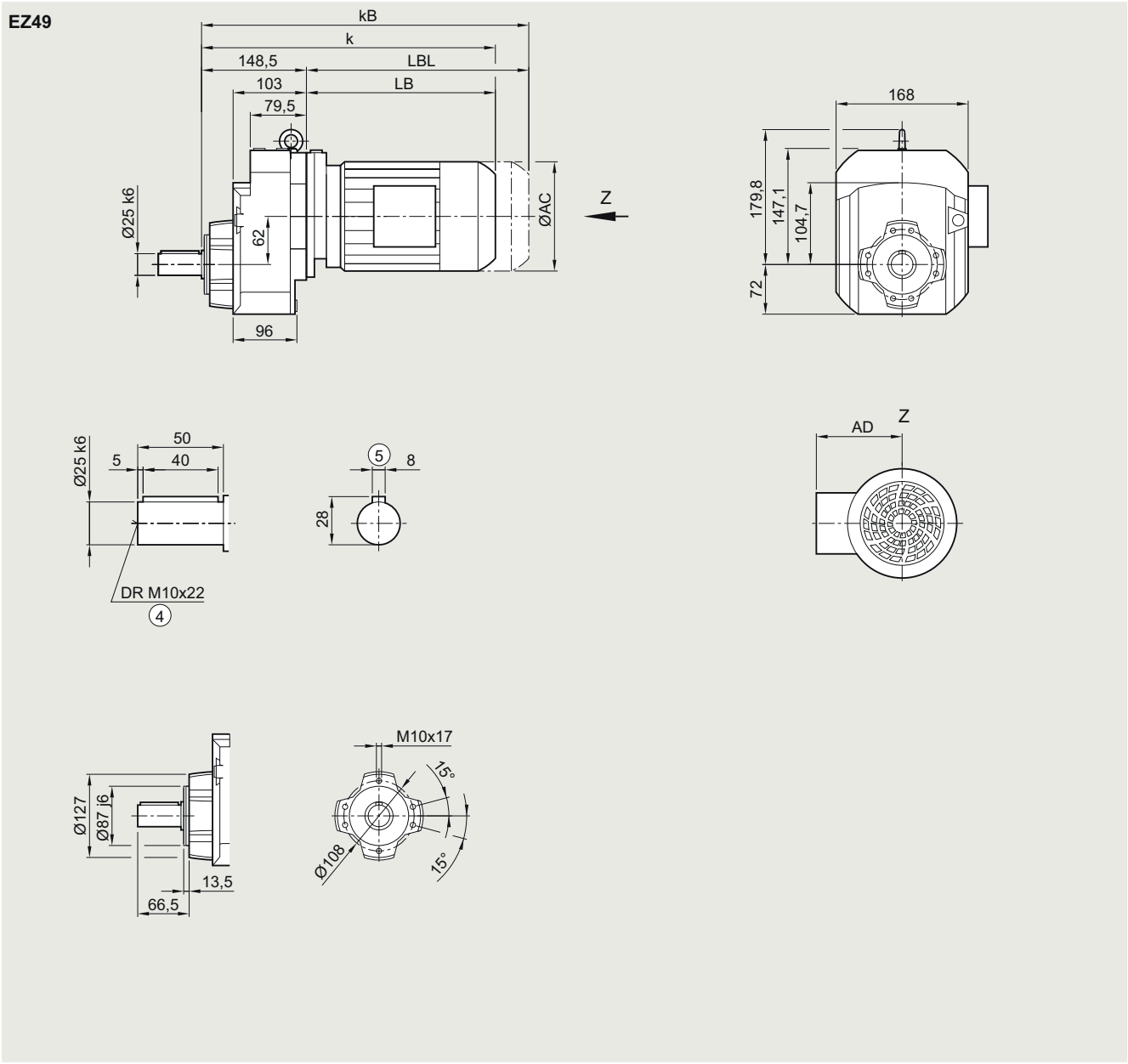
Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	333.0	359.0	365.0	384.0	424.0	429.0	464.0	490.5	530.5	547.0	582.0	557.0	591.5	610.0	660.0
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox EZ49 in a housing flange design

EZ030

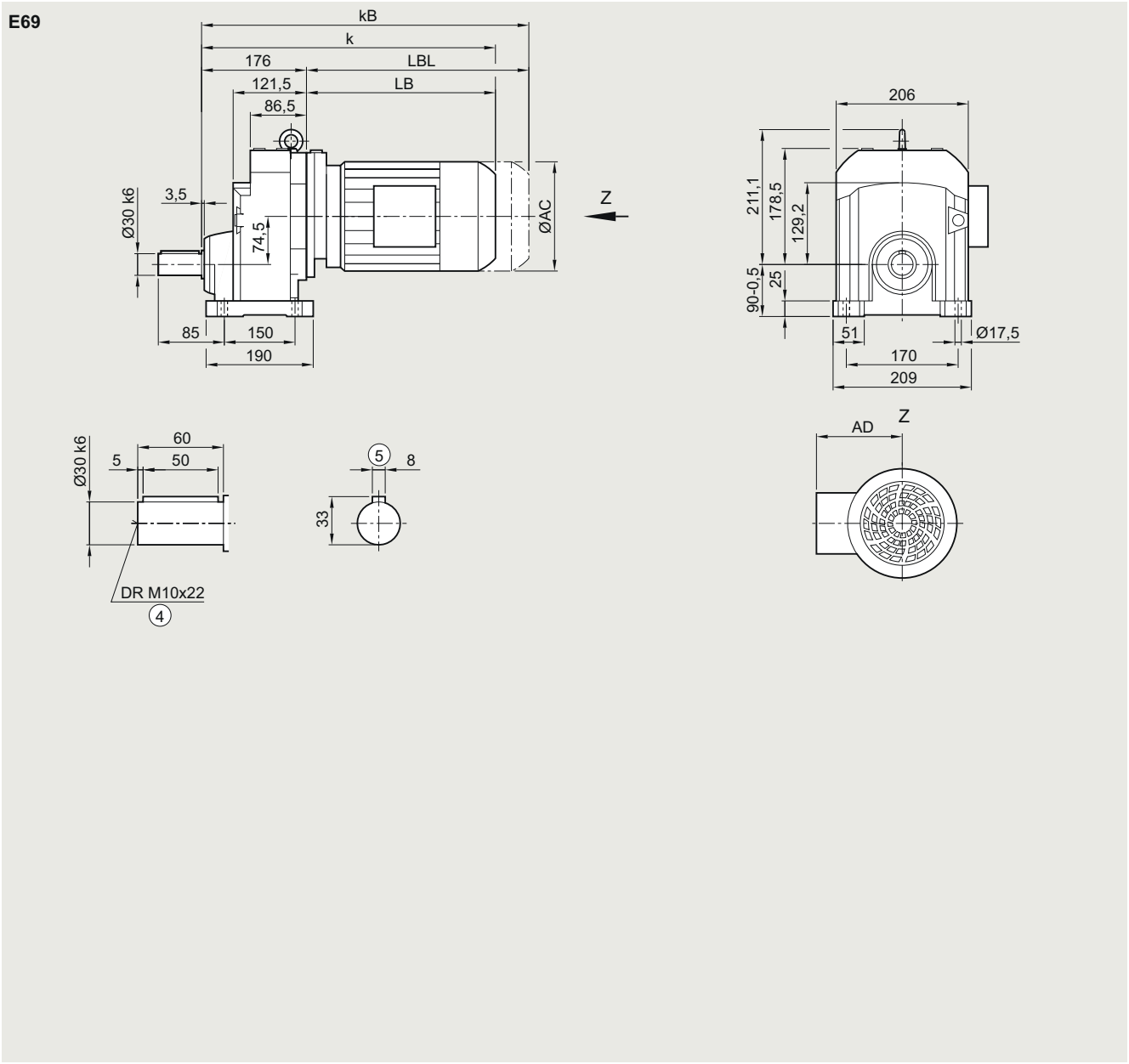


Motor	LE 63	63Z	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z
AC	117.8	117.8	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	124.0	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	333.0	359.0	365.0	384.0	424.0	429.0	464.0	490.5	530.5	547.0	582.0	557.0	591.5	610.0	660.0
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
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.

Gearbox E69 in a foot-mounted design

E030



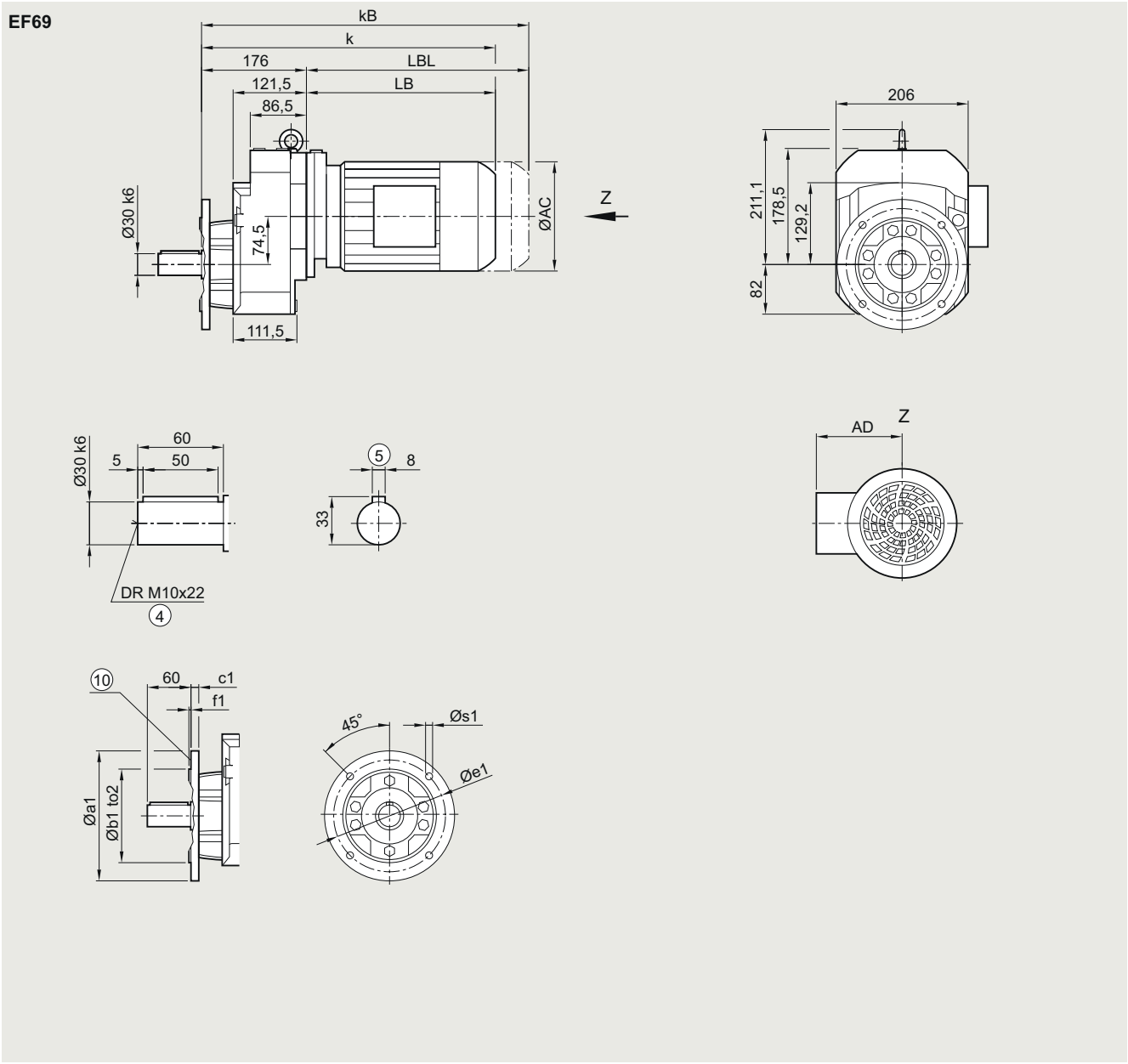
Motor	LE 71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z
AC	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198	198	222	222	264	264	318	318
AD[1)]	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207	207	241	241
k	390.5	409.5	449.5	450.5	485.5	512	552	568.5	603.5	578.5	603.5	631.5	681.5	713.5	773.5
kB	445.5	464.5	504.5	510.5	545.5	582	622	647	682	651.5	676.5	736	786	829.5	889.5
LB	214.5	233.5	273.5	274.5	309.5	336	376	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LBL	269.5	288.5	328.5	334.5	369.5	406	446	471	506	475.5	500.5	560	610	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.

Dimensional drawings

Gearbox EF69 in a flange-mounted design

EF030



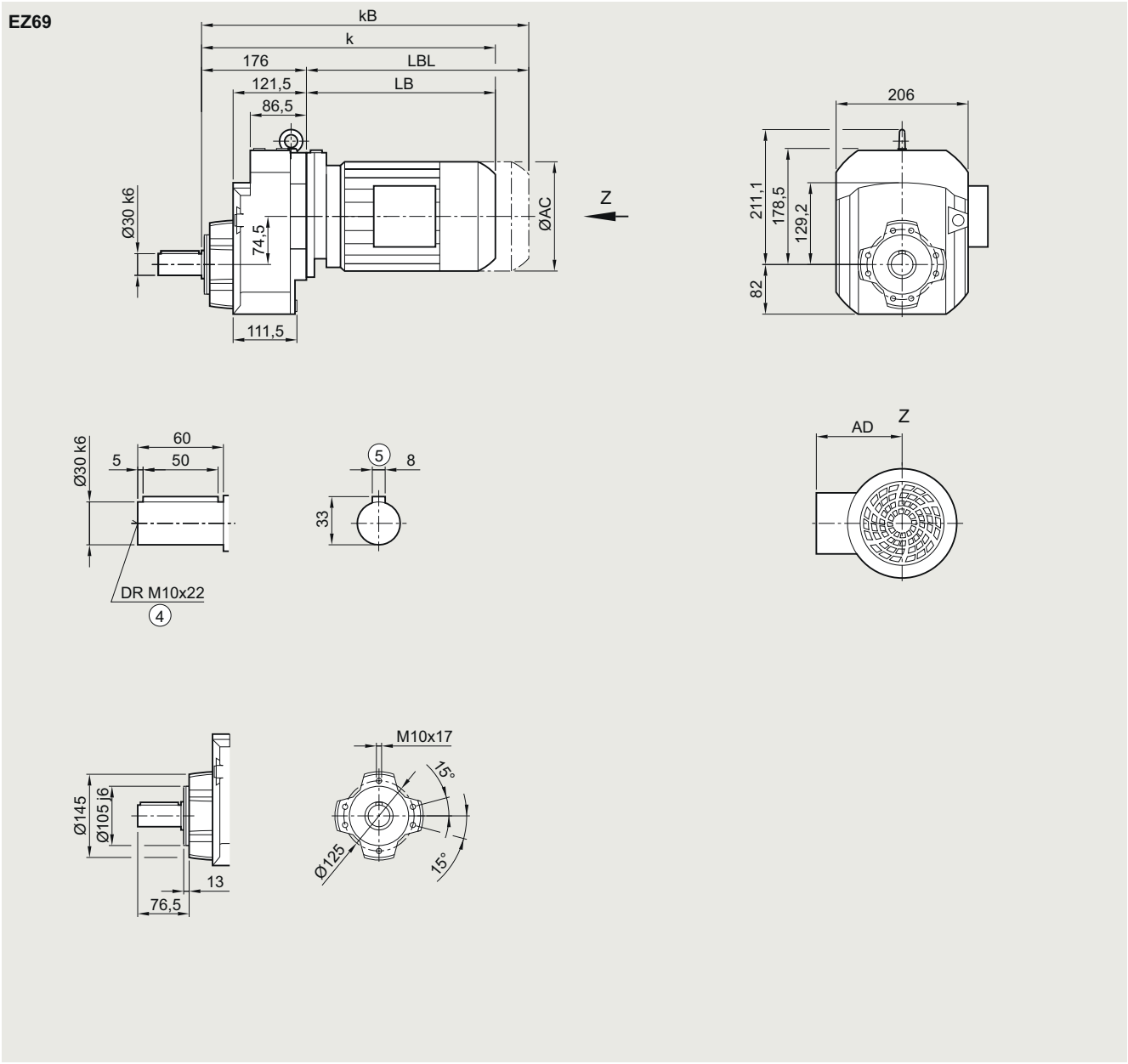
Flange	a1	b1	to2	c1	e1	f1	s1
	200	130	j6	12	165	3.5	11.0
	250	180	j6	15	215	4.0	13.5

Motor	LE 71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z
AC	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198	198	222	222	264	264	318	318
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	207	241	241
k	390.5	409.5	449.5	450.5	485.5	512	552	568.5	603.5	578.5	603.5	631.5	681.5	713.5	773.5
kB	445.5	464.5	504.5	510.5	545.5	582	622	647	682	651.5	676.5	736	786	829.5	889.5
LB	214.5	233.5	273.5	274.5	309.5	336	376	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LBL	269.5	288.5	328.5	334.5	369.5	406	446	471	506	475.5	500.5	560	610	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.
⑩ For inner contour, see page 3/180

Gearbox EZ69 in a housing flange design

EZ030



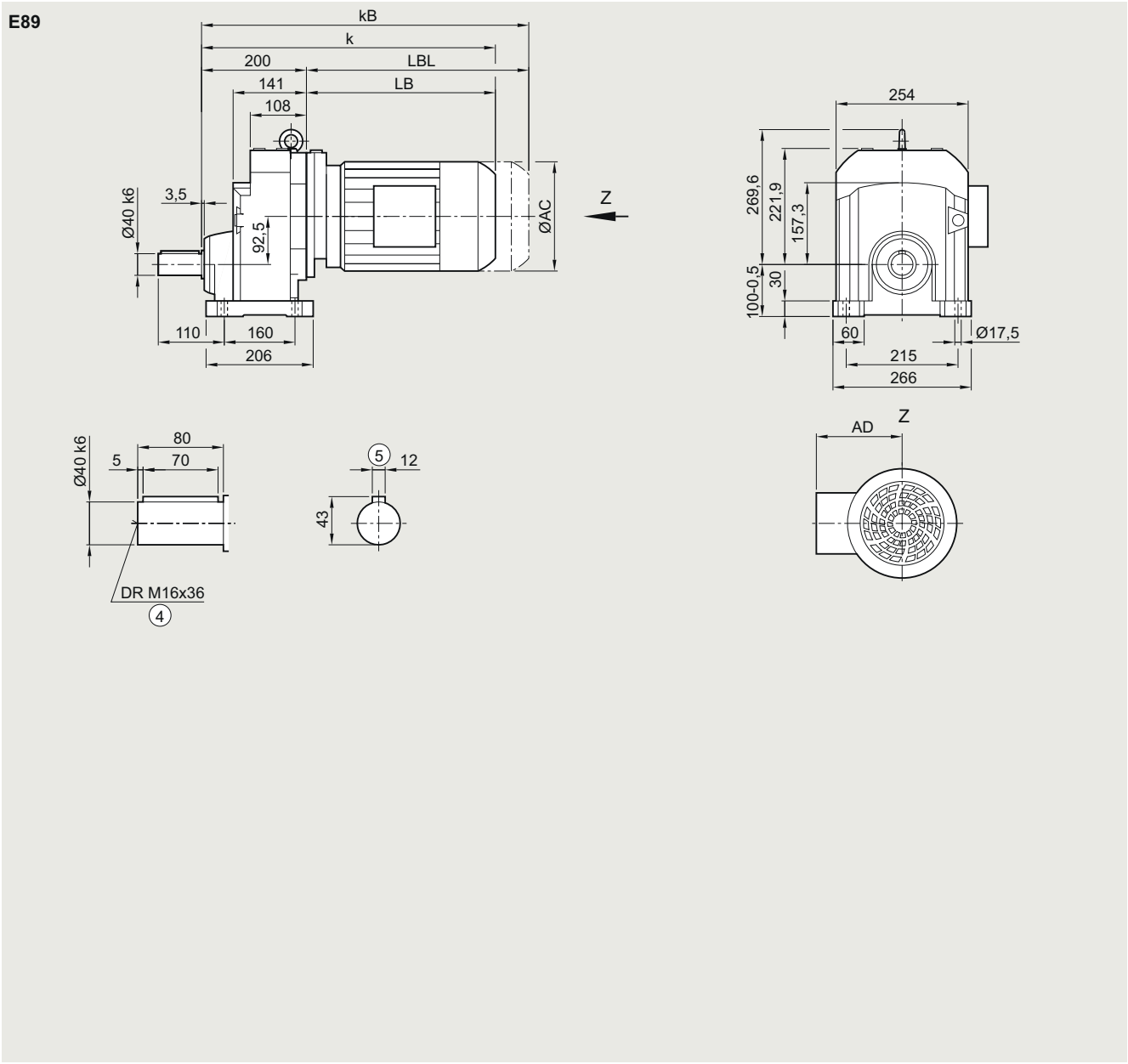
Motor	LE														
	71	71Z	71Y	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z
AC	138.8	138.8	138.8	156.3	156.3	173.8	173.8	198	198	222	222	264	264	318	318
AD[1)]	134.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207	207	241	241
k	390.5	409.5	449.5	450.5	485.5	512	552	568.5	603.5	578.5	603.5	631.5	681.5	713.5	773.5
kB	445.5	464.5	504.5	510.5	545.5	582	622	647	682	651.5	676.5	736	786	829.5	889.5
LB	214.5	233.5	273.5	274.5	309.5	336	376	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LBL	269.5	288.5	328.5	334.5	369.5	406	446	471	506	475.5	500.5	560	610	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.

Dimensional drawings

Gearbox E89 in a foot-mounted design

E030

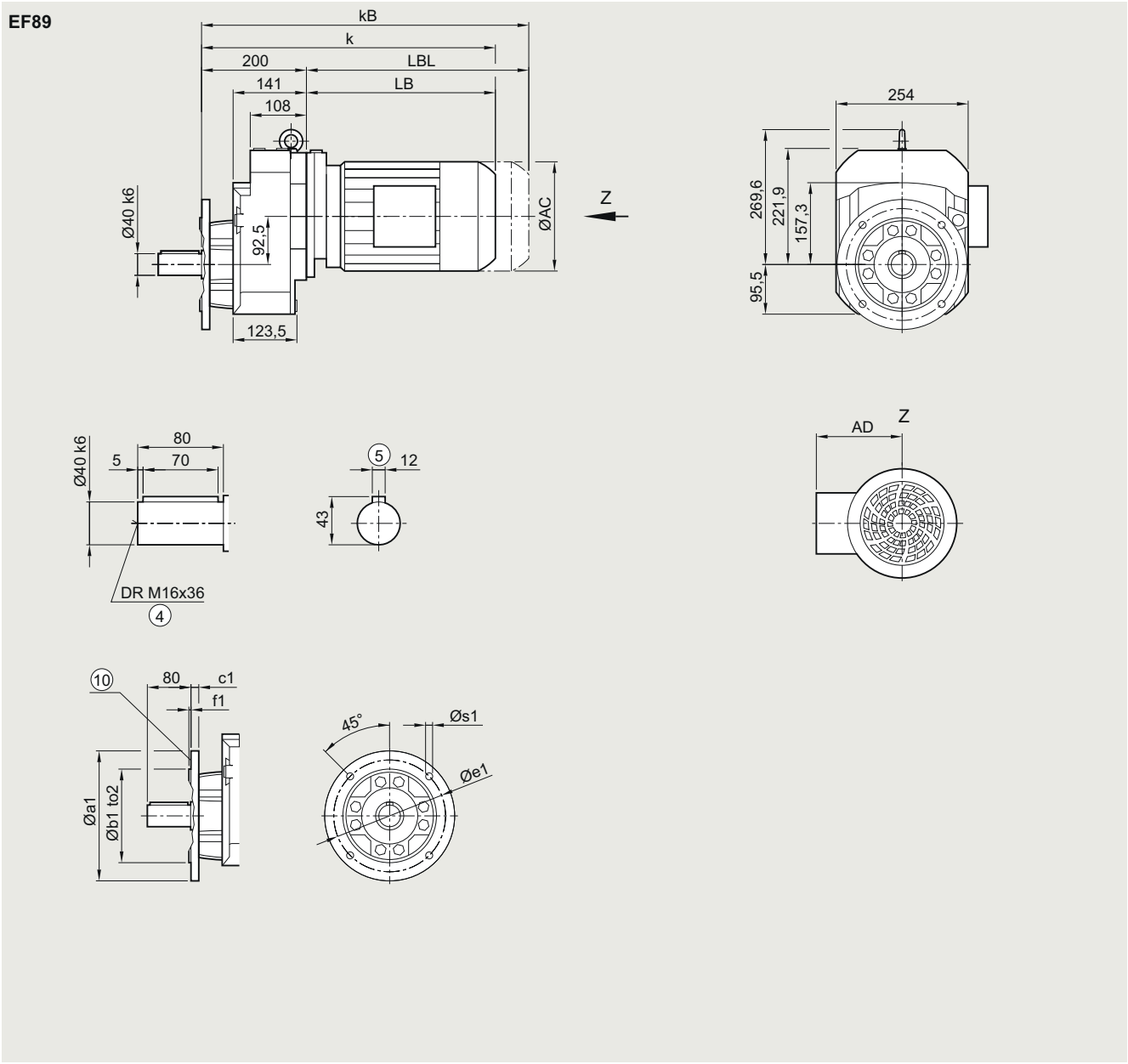


Motor	LE												LES	
	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1)]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.5	496.5	523.0	563.0	575.5	610.5	585.5	610.5	638.5	688.5	720.5	780.5	793.5	823.5
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
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.

Gearbox EF89 in a flange-mounted design

EF030



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

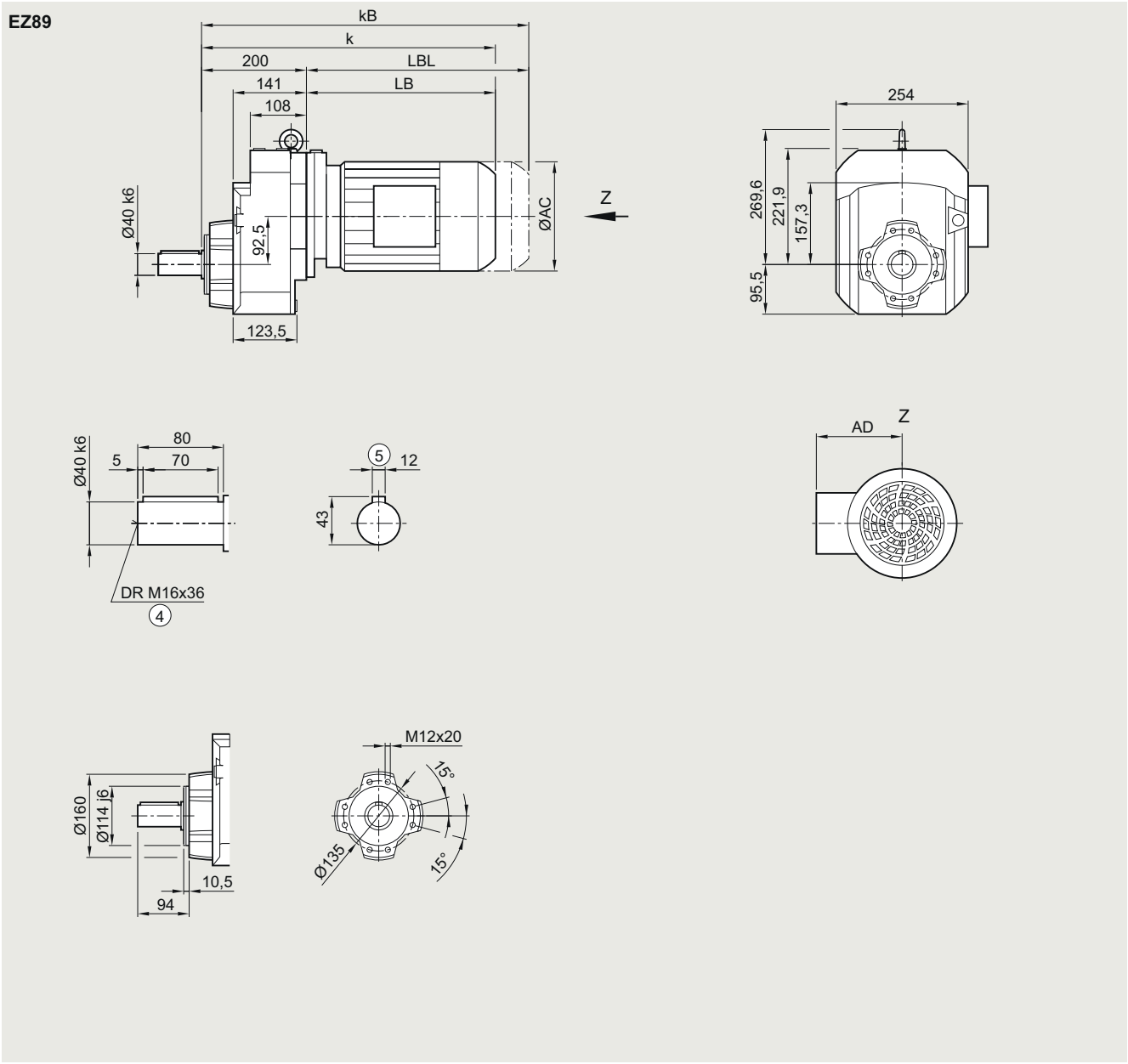
Motor	LE												LES	
	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1)]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.5	496.5	523.0	563.0	575.5	610.5	585.5	610.5	638.5	688.5	720.5	780.5	793.5	823.5
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox EZ89 in a housing flange design

EZ030

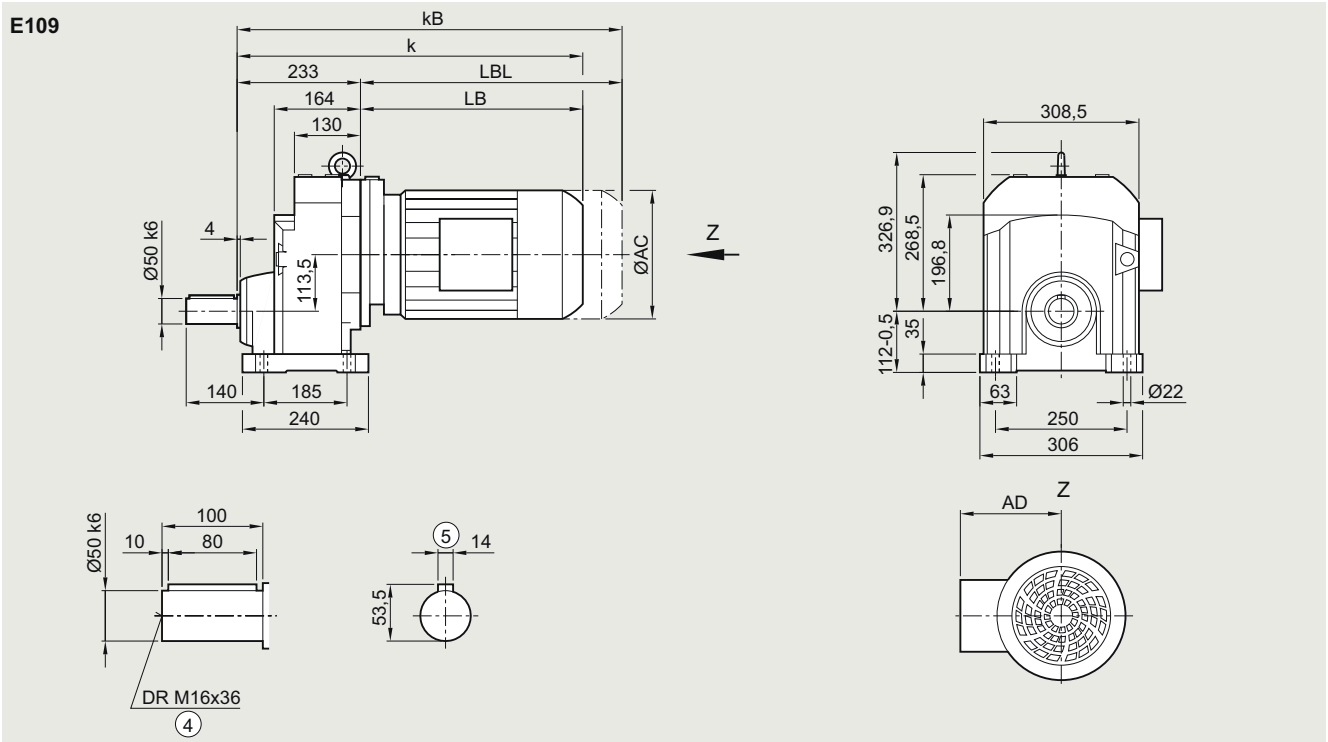


Motor	LE												LES	
	80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1)]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.5	496.5	523.0	563.0	575.5	610.5	585.5	610.5	638.5	688.5	720.5	780.5	793.5	823.5
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
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.

Gearbox E109 in a foot-mounted design

E030



Motor	LE										LES					
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
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
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
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

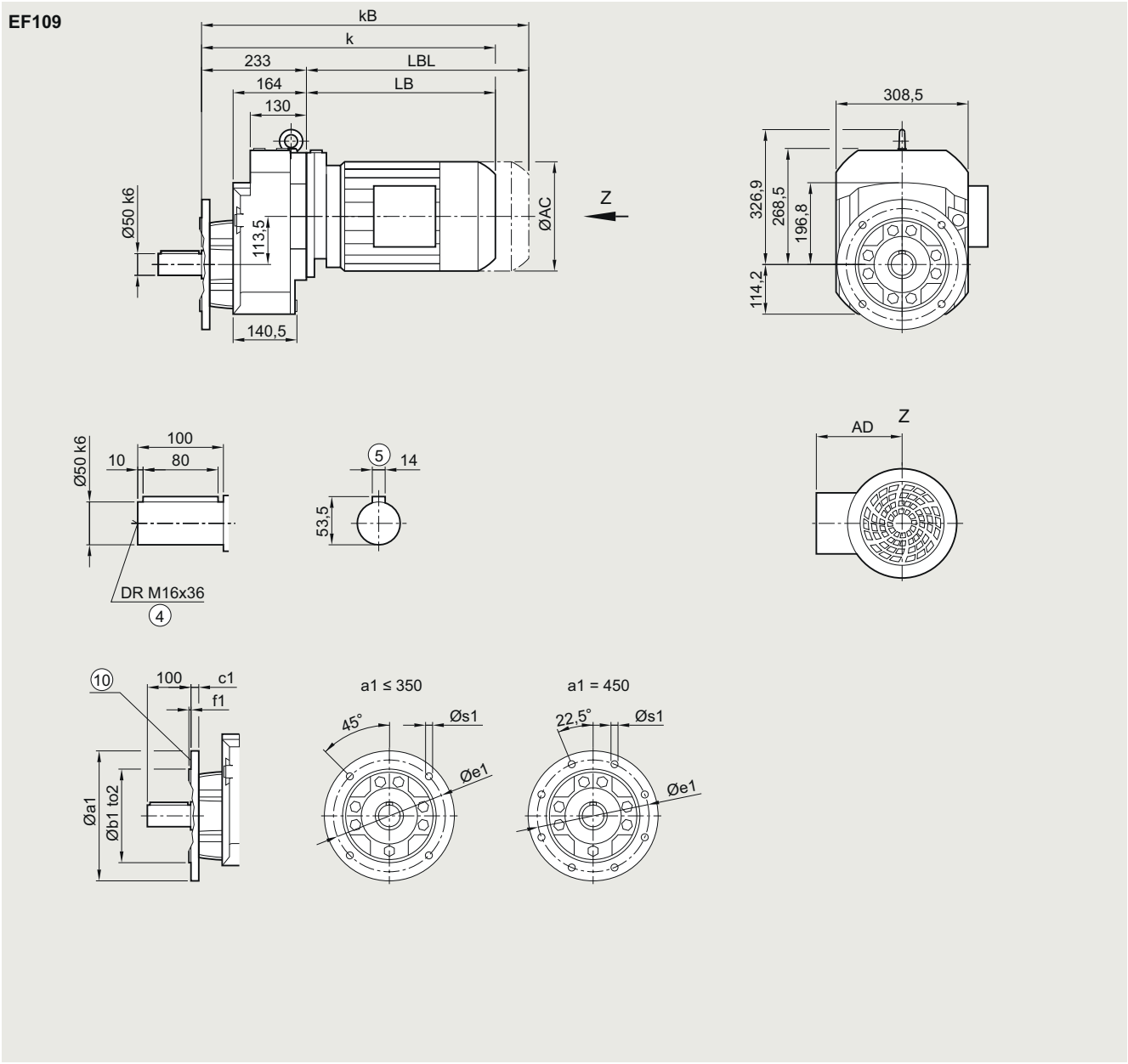
⑤ Feather key/keyway DIN 6885-1

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

Dimensional drawings

Gearbox EF109 in a flange-mounted design

EF030



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

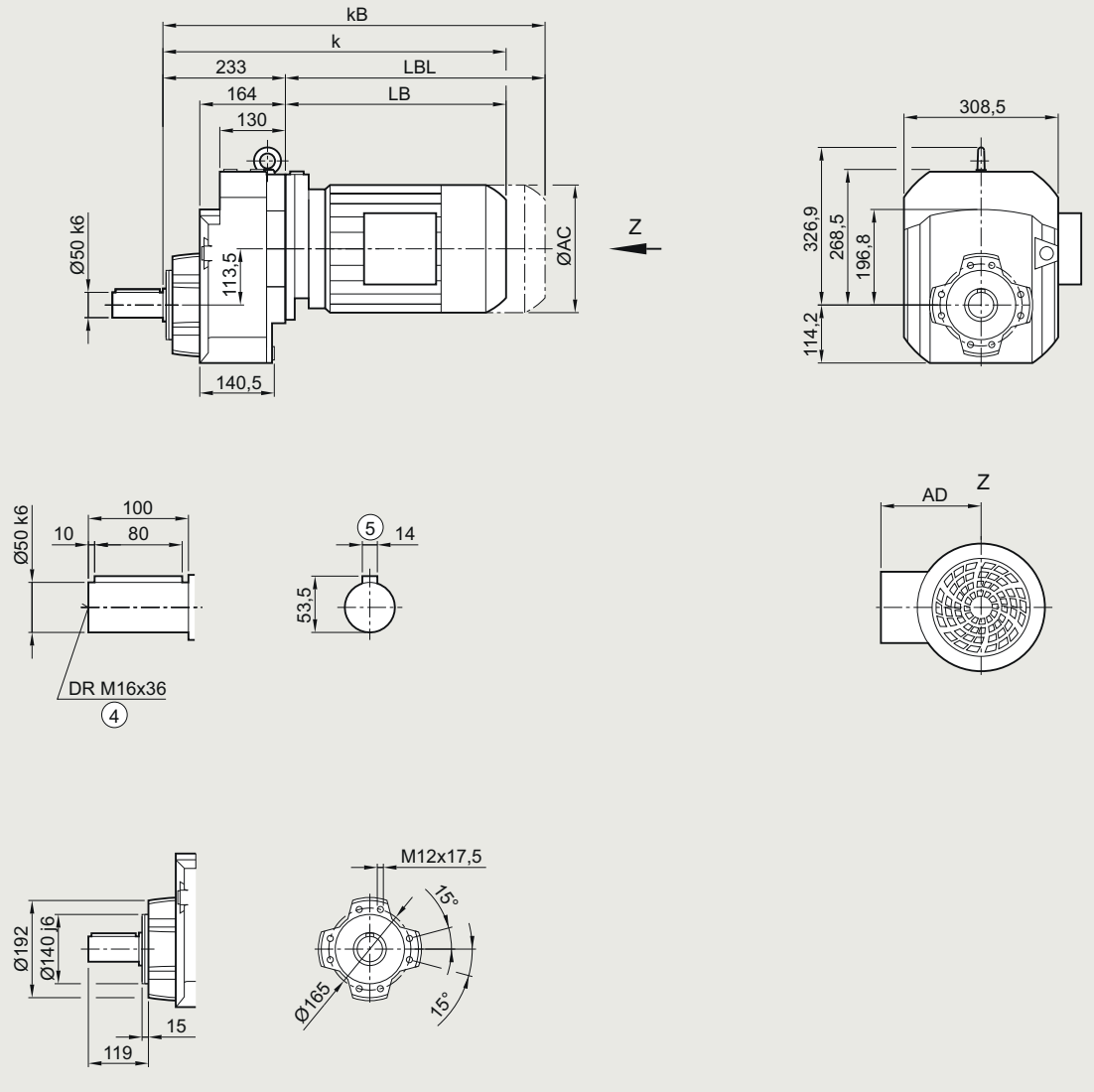
Motor	LE										LES					
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0
k	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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox EZ109 in a housing flange design

EZ030

EZ109



Motor	LE										LES					
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
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
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
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

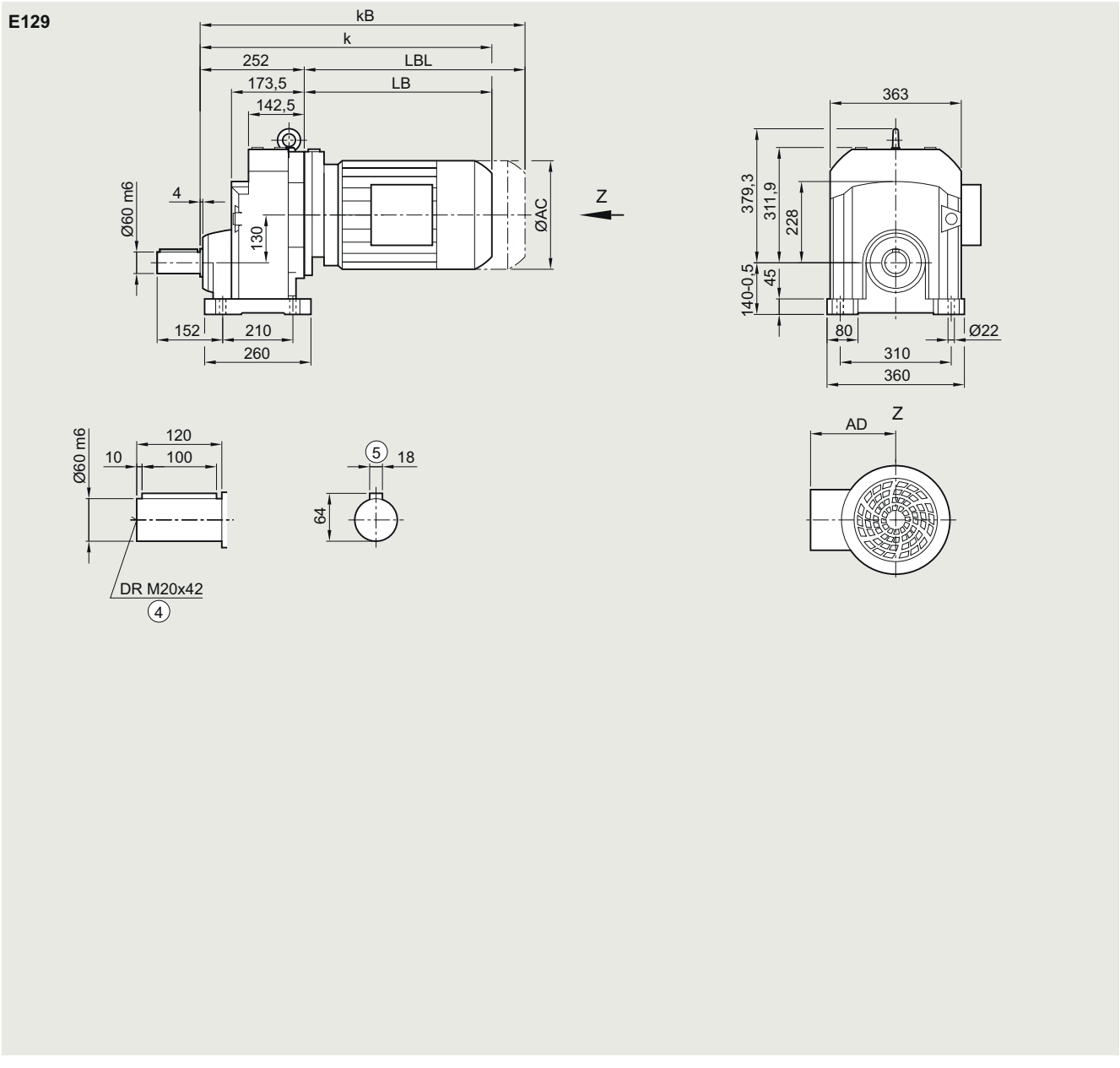
⑤ Feather key/keyway DIN 6885-1

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

Dimensional drawings

Gearbox E129 in a foot-mounted design

E030

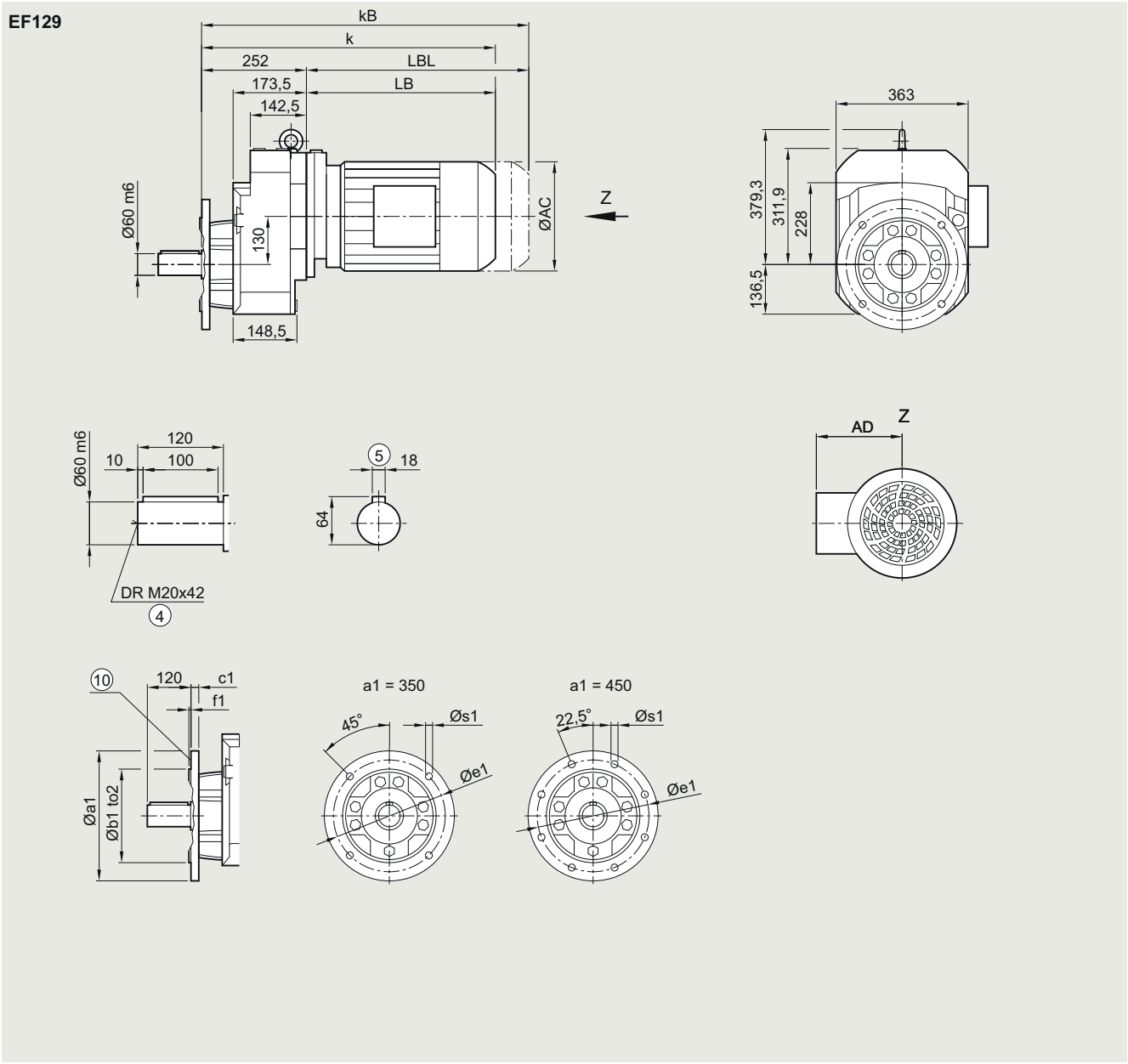


Motor	LE										LES						
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	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
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
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.

Gearbox EF129 in a flange-mounted design

EF030



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	LE										LES						
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

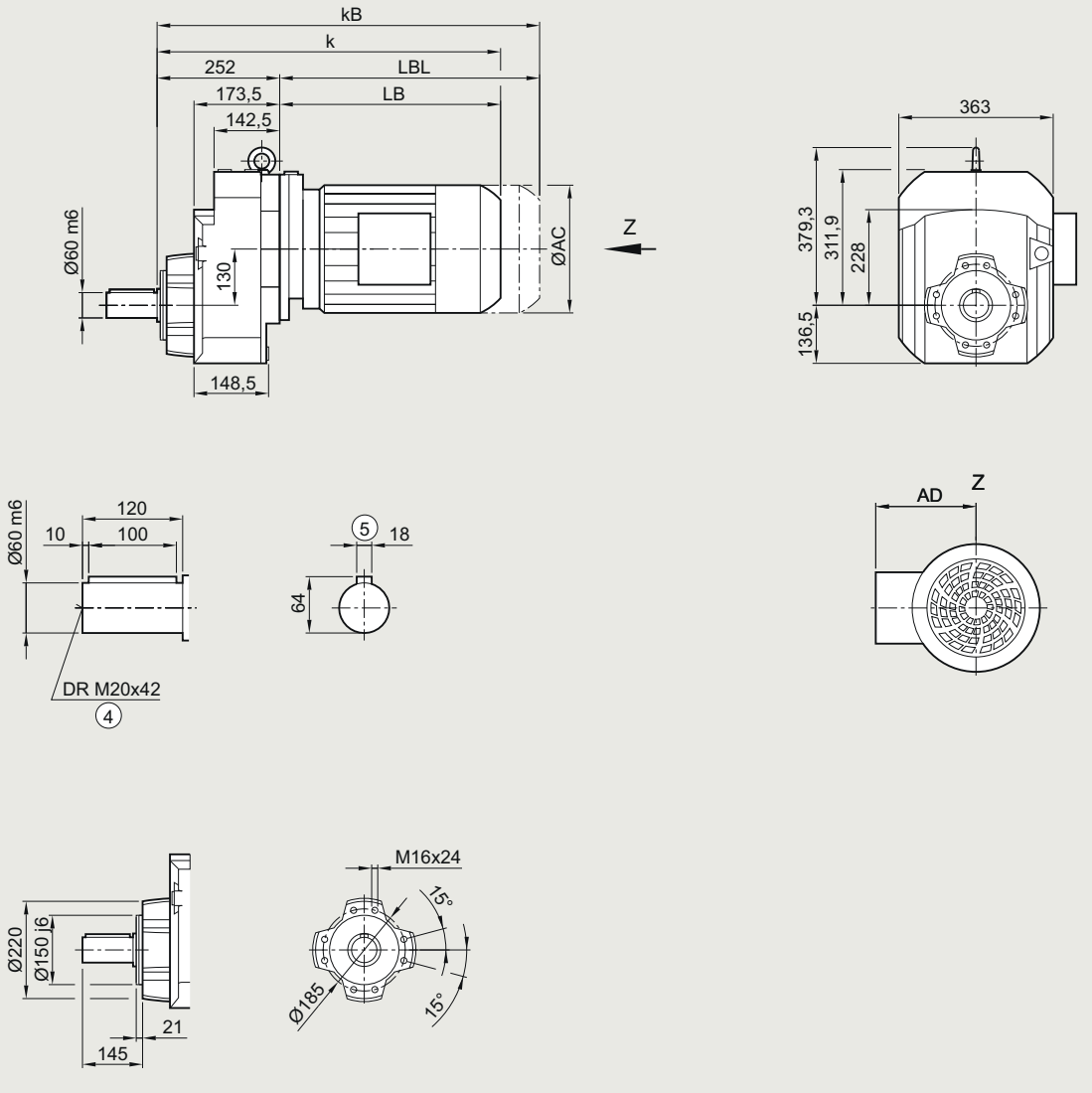
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox EZ129 in a housing flange design

EZ030

EZ129

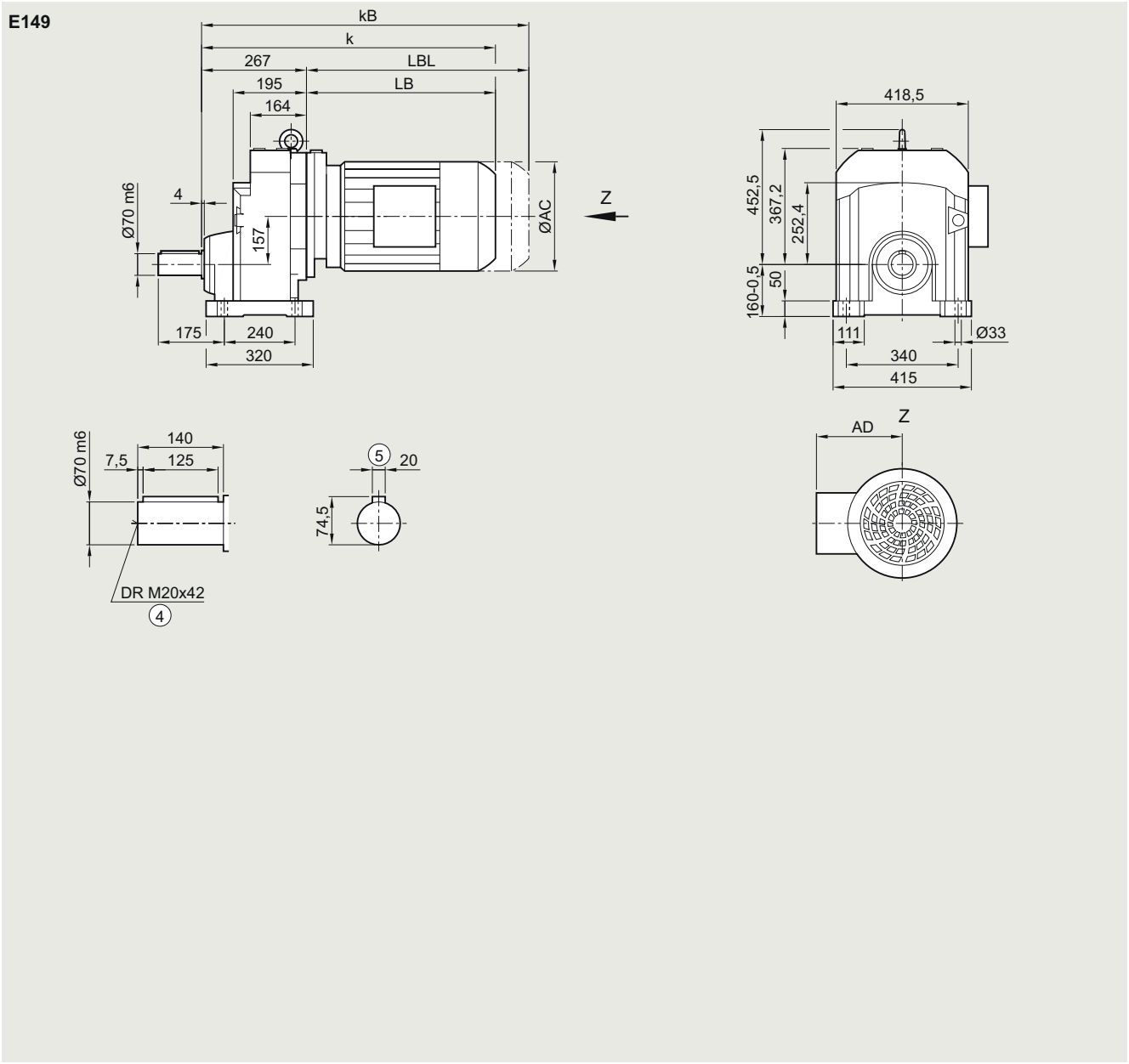


Motor	LE										LES						
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	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
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
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.

Gearbox E149 in a foot-mounted design

E030



Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

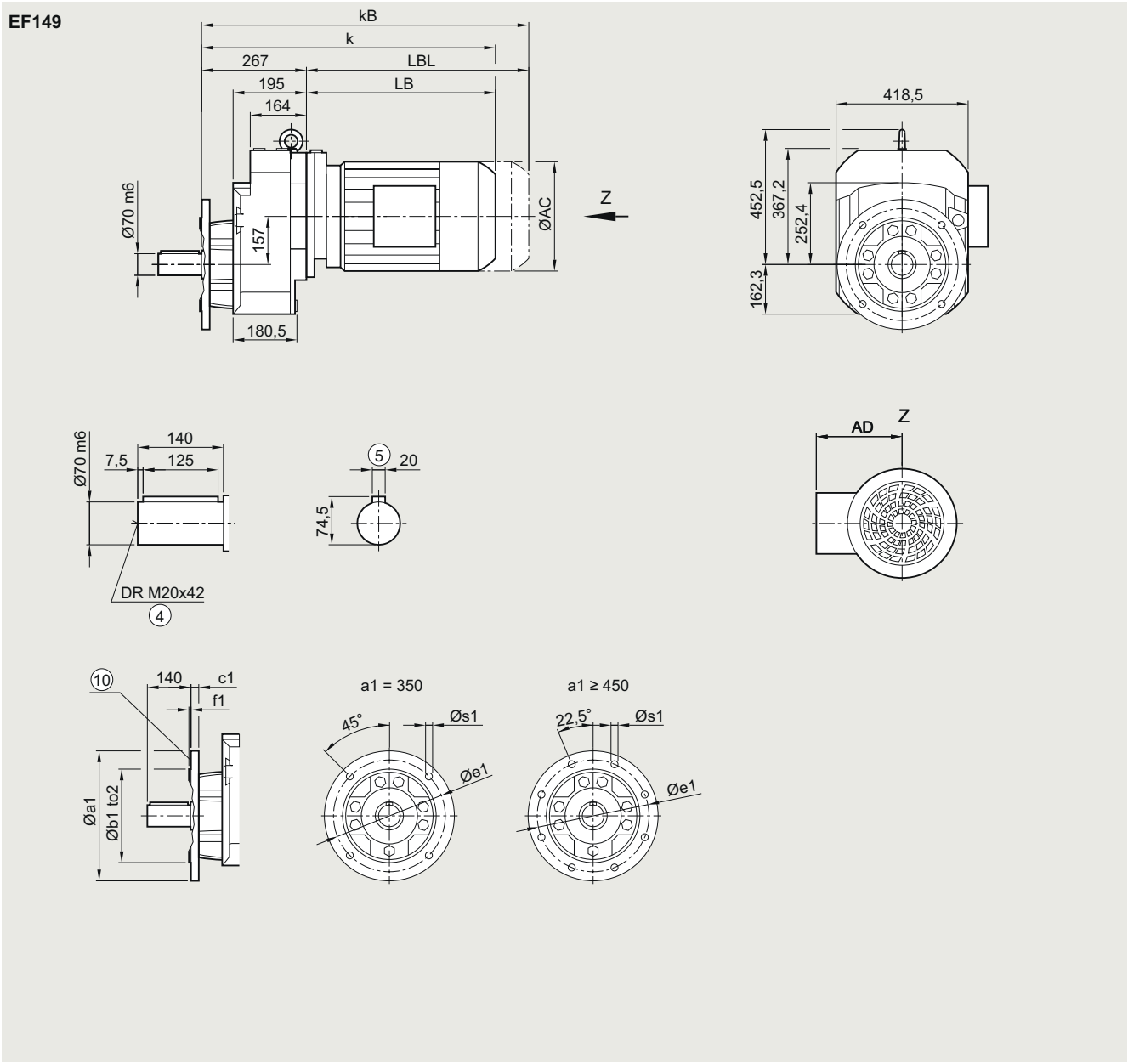
⑤ Feather key/keyway DIN 6885-1

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

Dimensional drawings

Gearbox EF149 in a flange-mounted design

EF030



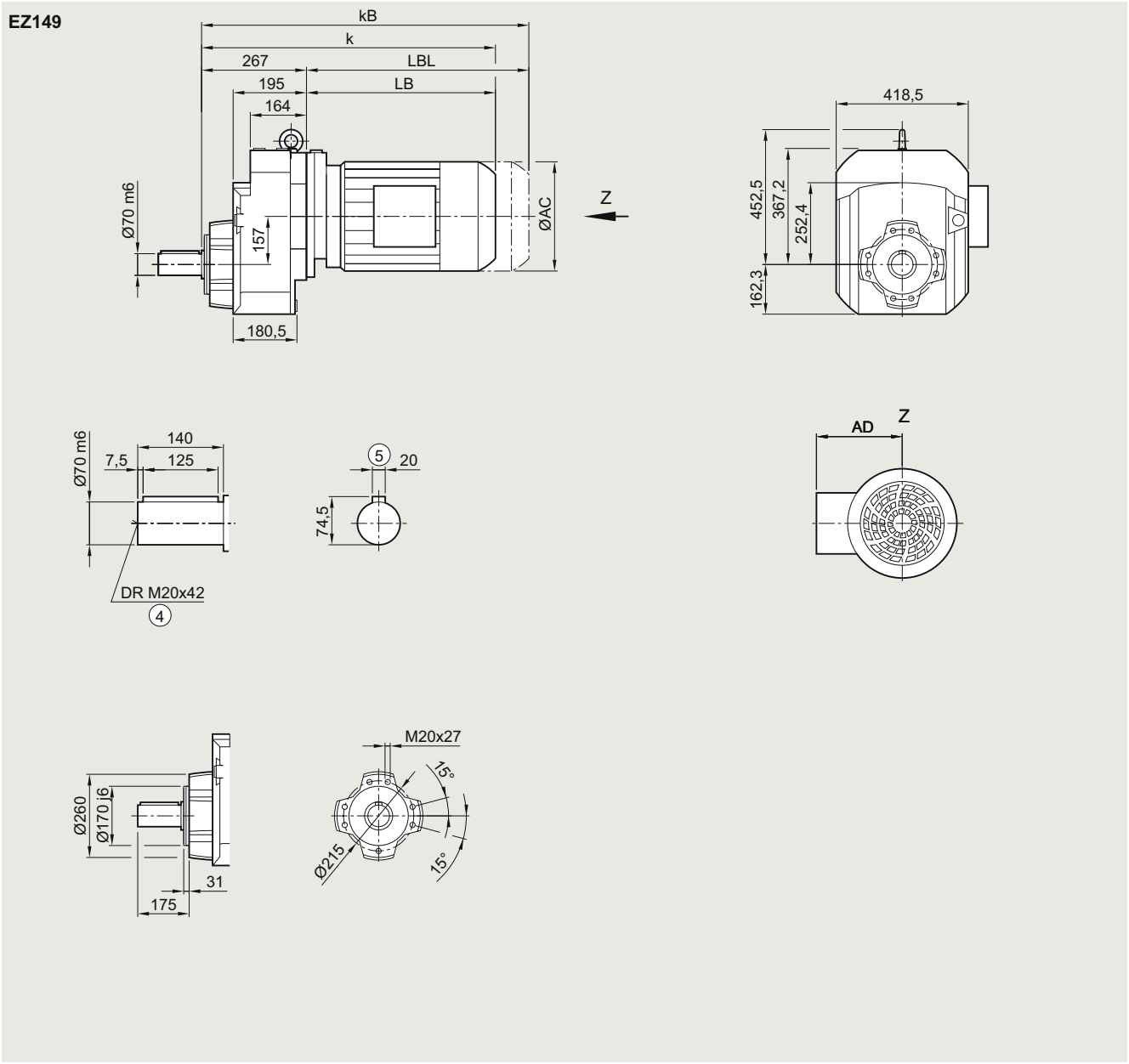
Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox EZ149 in a housing flange design

EZ030



Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

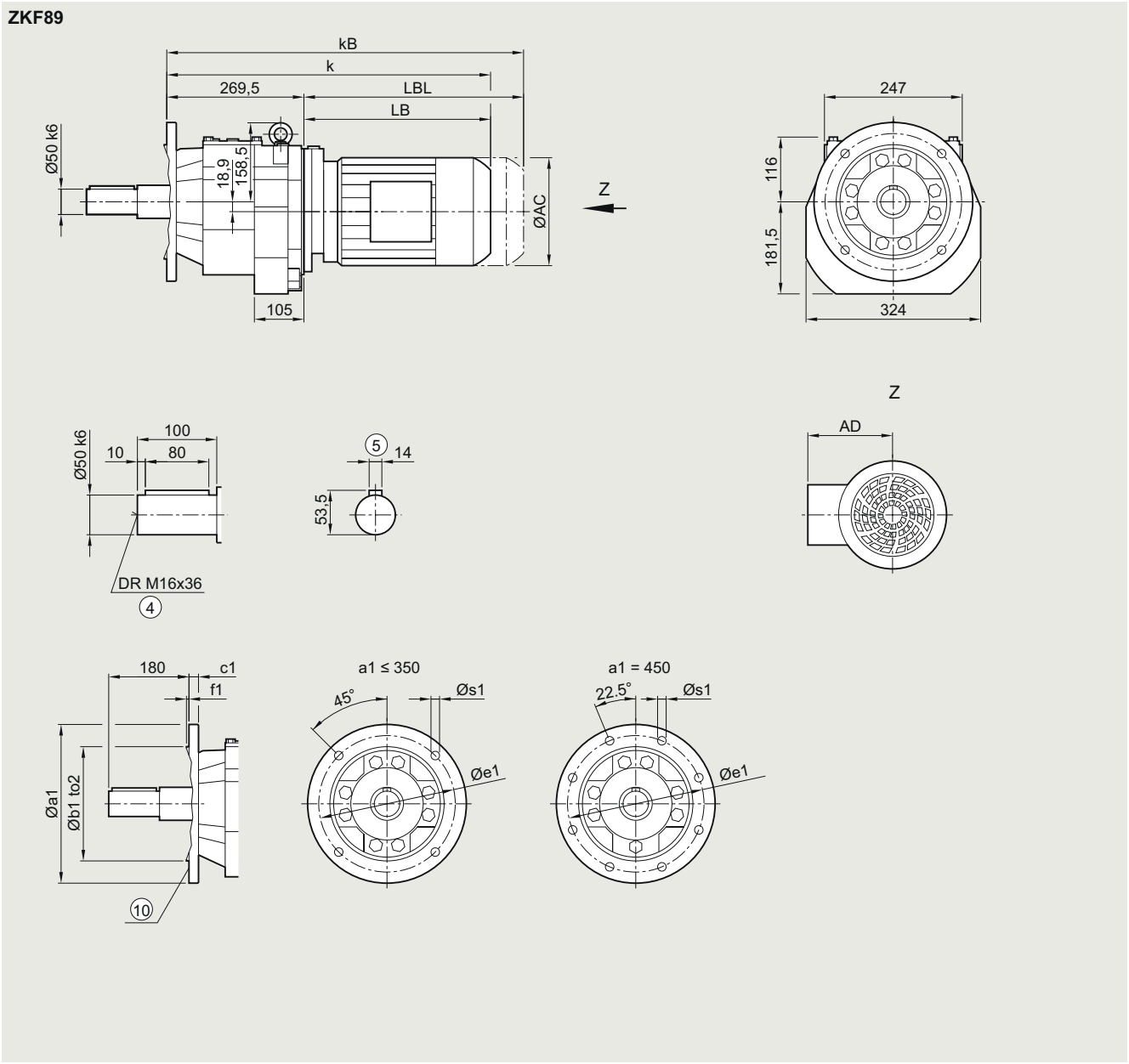
1) AD depends on the motor options, for other dimensions, see page 9/46.

Dimensional drawings

Gearbox ZKF89 in a flange-mounted design

ZKF030

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

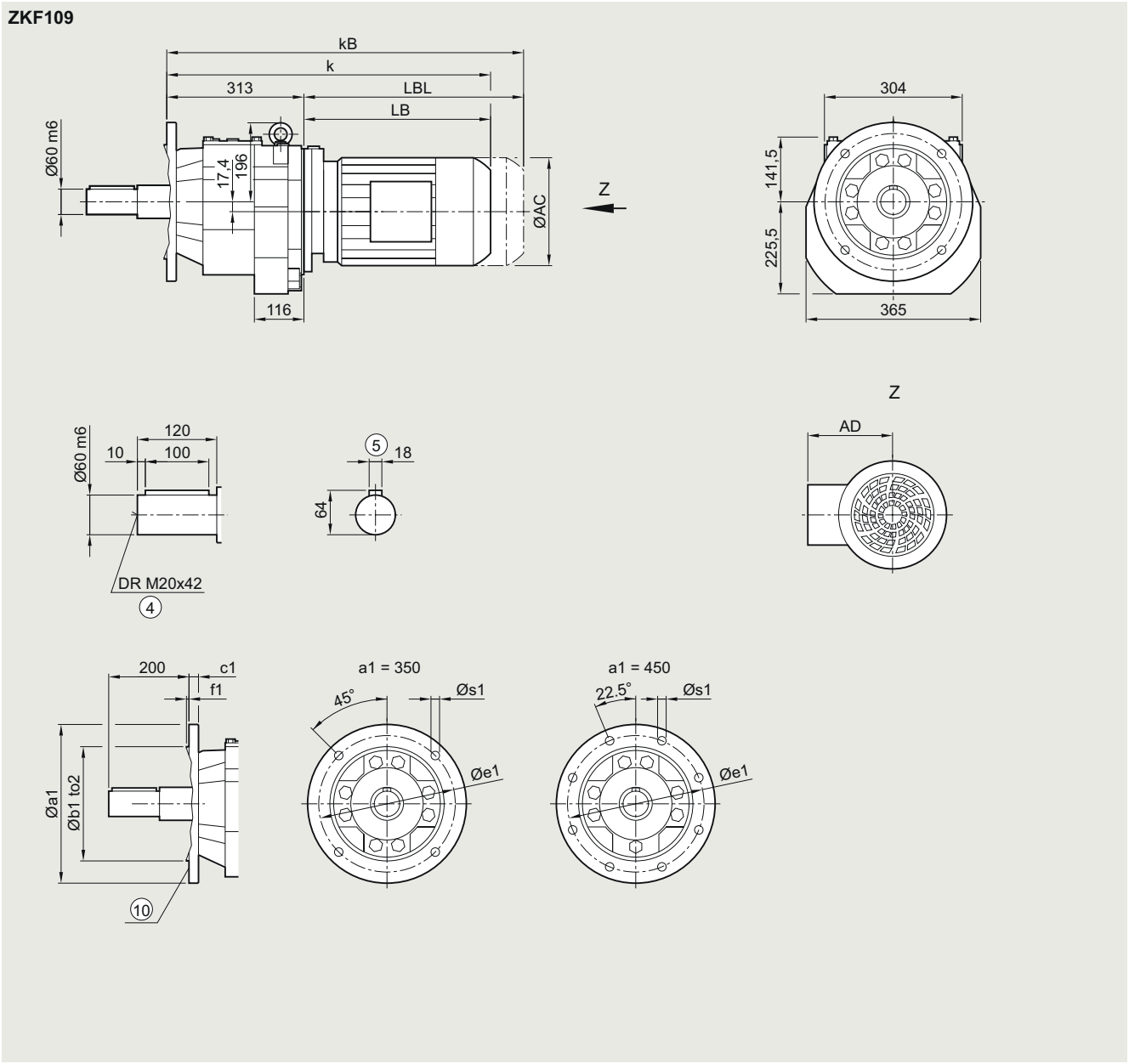
Motor	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1)]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	531.0	566.0	592.5	632.5	645.0	680.0	655.0	680.0	708.0	758.0	790.0	850.0	863.0	893.0
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox ZKF109 in a flange-mounted design

ZKF030

ZKF109



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	LE										LES					
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
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
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
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

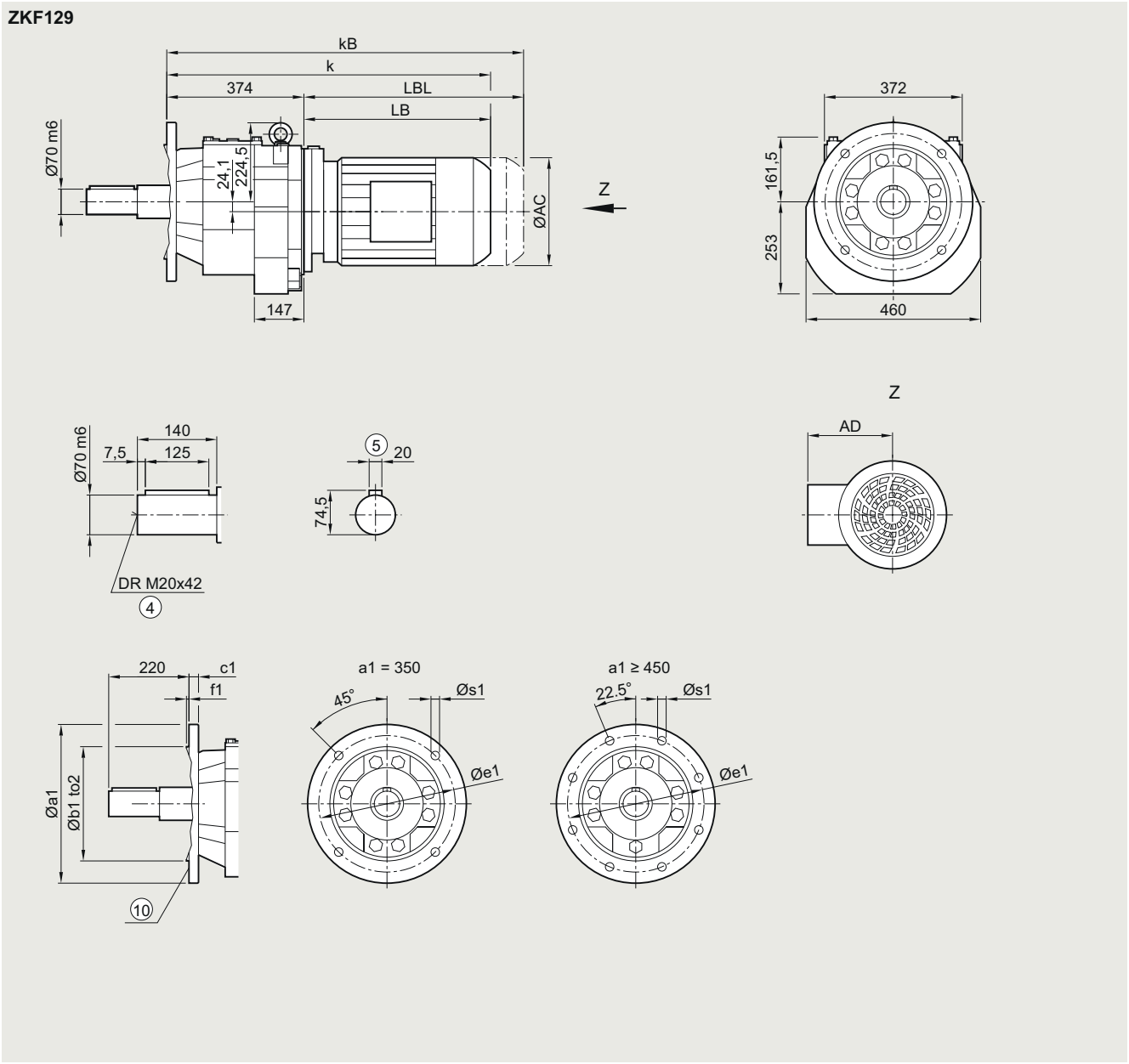
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZKF129 in a flange-mounted design

ZKF030

ZKF129



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

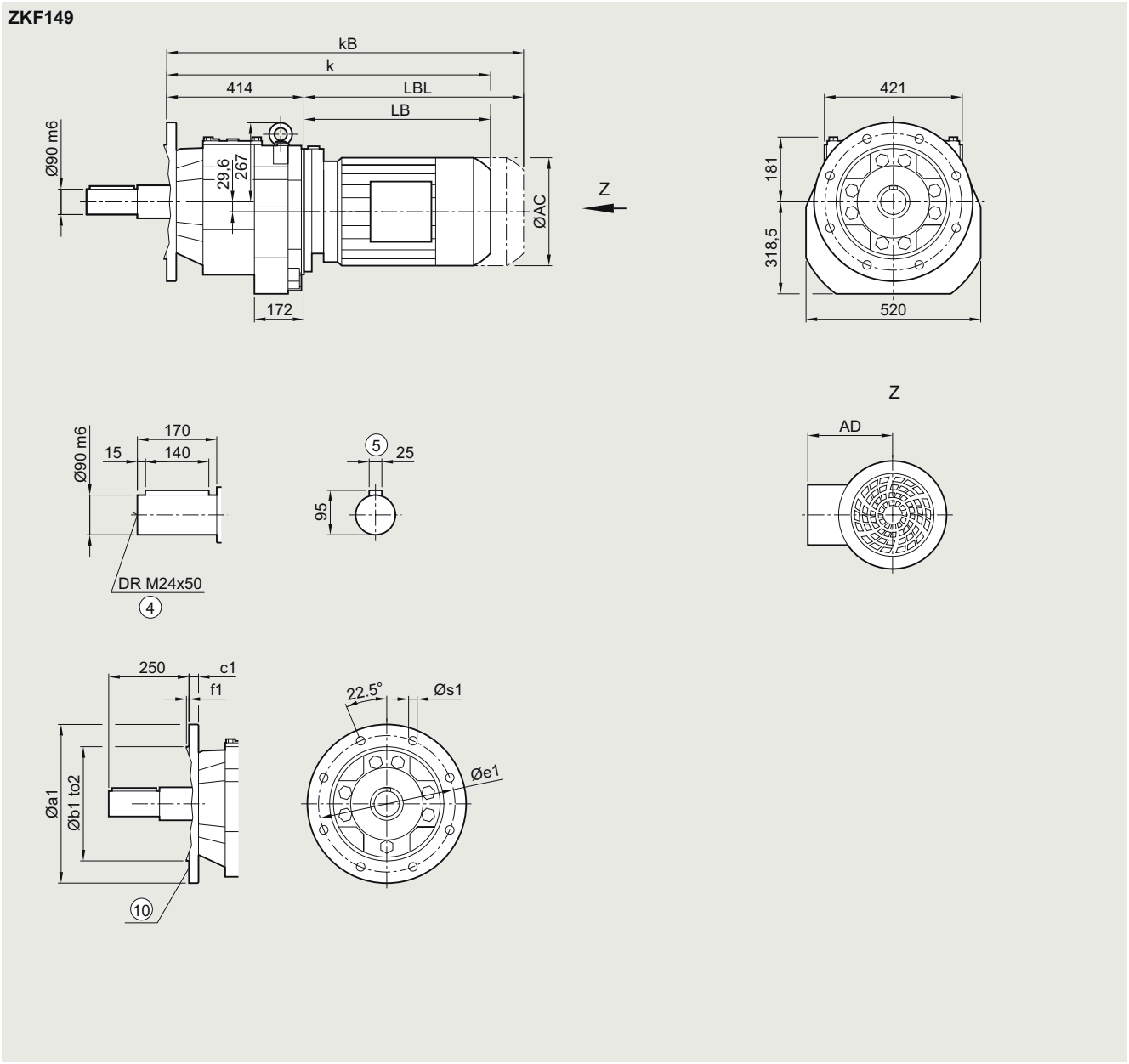
Motor	LE										LES						
	90S	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox ZKF149 in a flange-mounted design

ZKF030

ZKF149



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	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

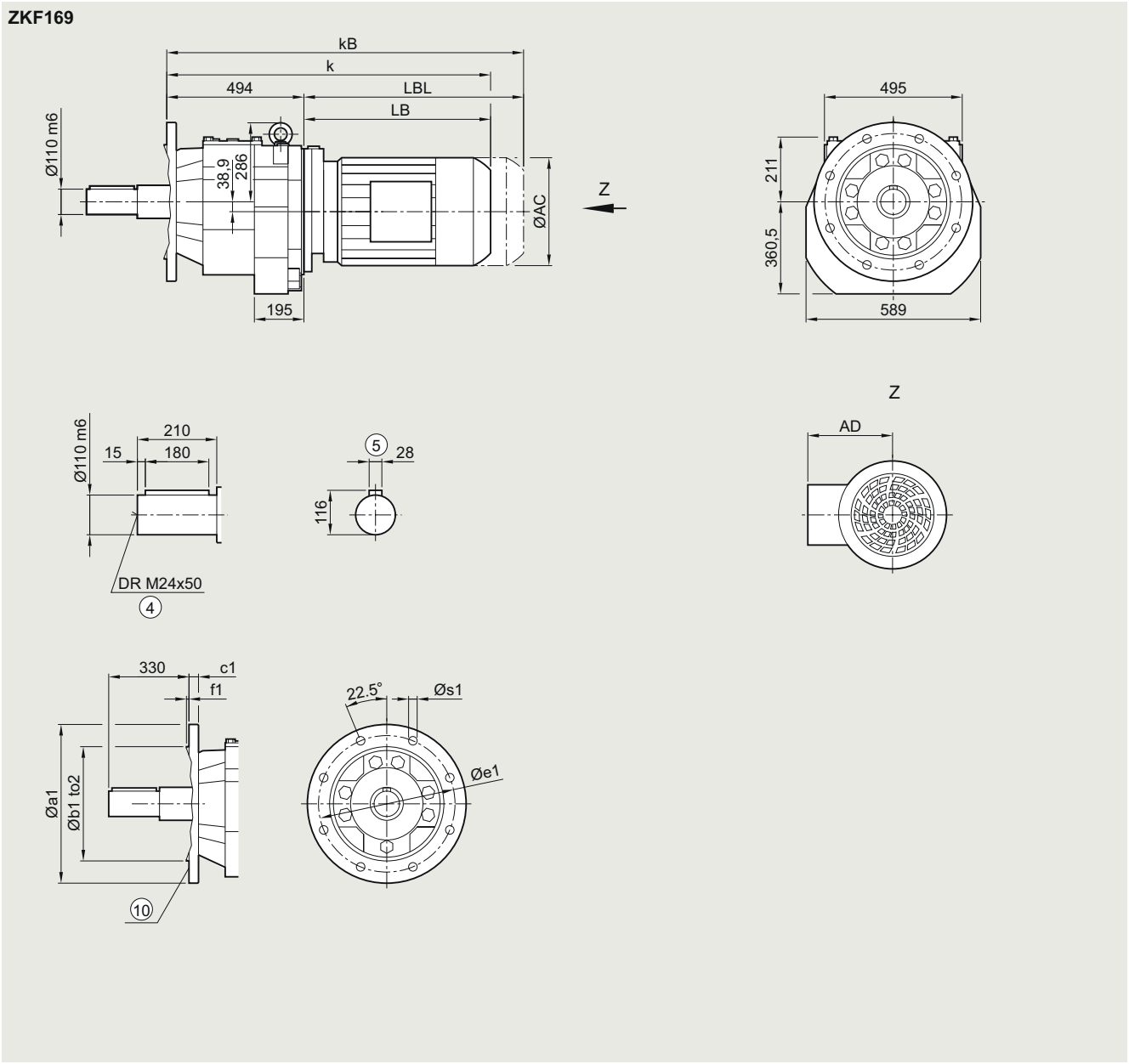
④ DIN 332
⑤ Feather key/keyway DIN 6885-1
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox ZKF169 in a flange-mounted design

ZKF030

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

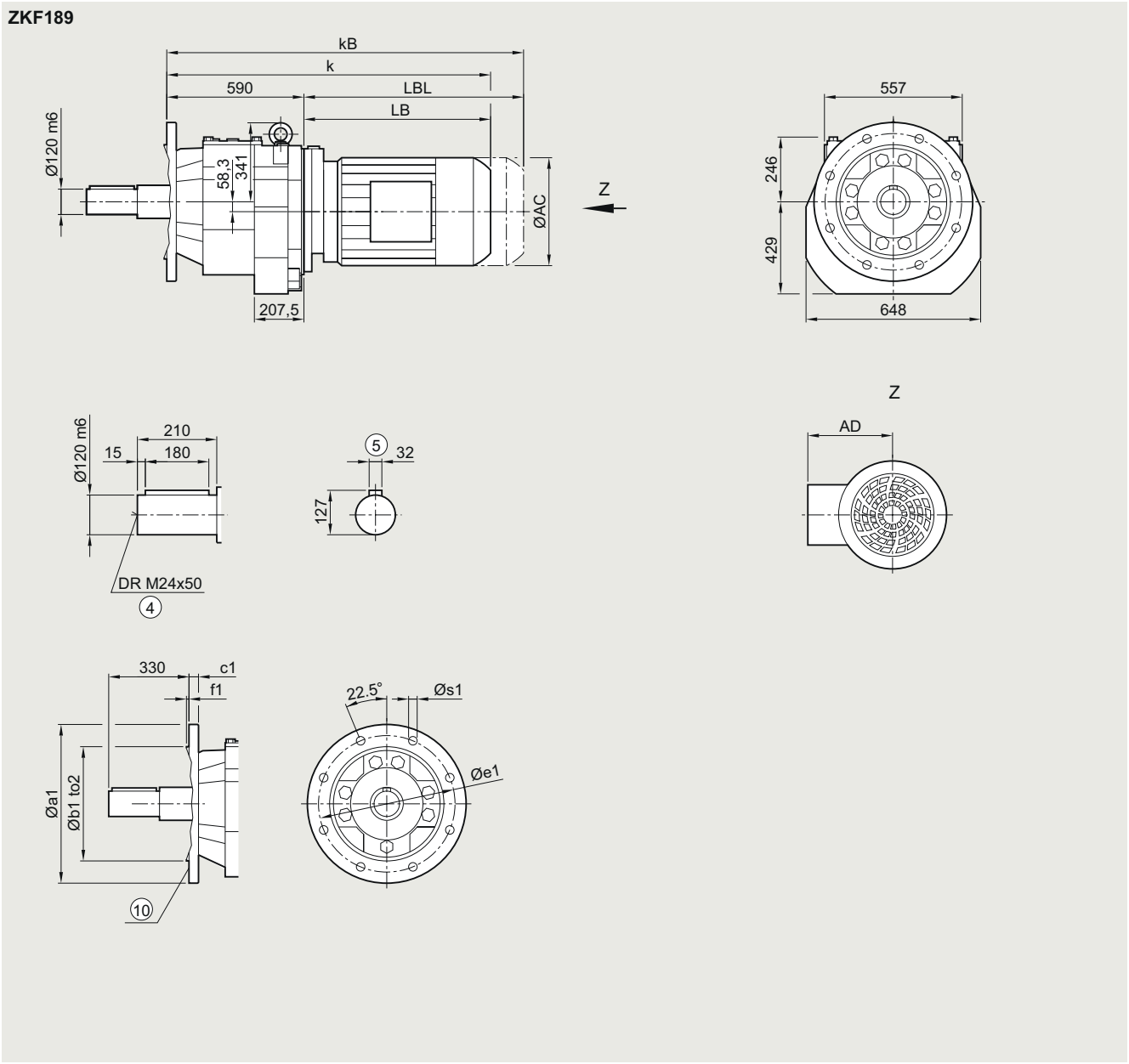
Motor	LE 112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	337.0	337.0	407.5
k	847.5	872.5	893.0	943.0	975.0	1035.0	1047.5	1077.5	1115.5	1140.5	1160.0	1220.0	1267.5
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox ZKF189 in a flange-mounted design

ZKF030

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	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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

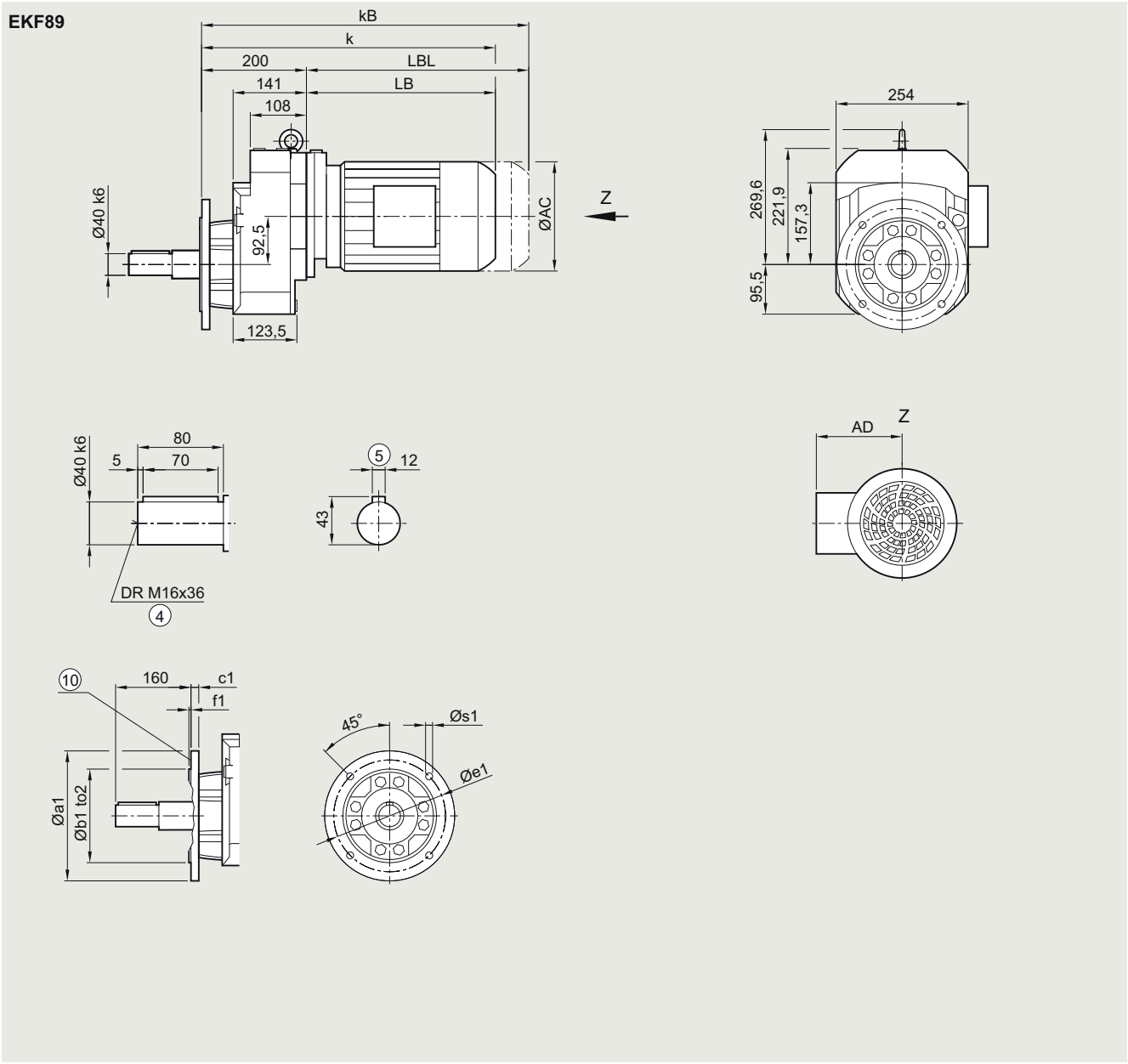
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.

⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox EKF89 in a flange-mounted design

EKF030



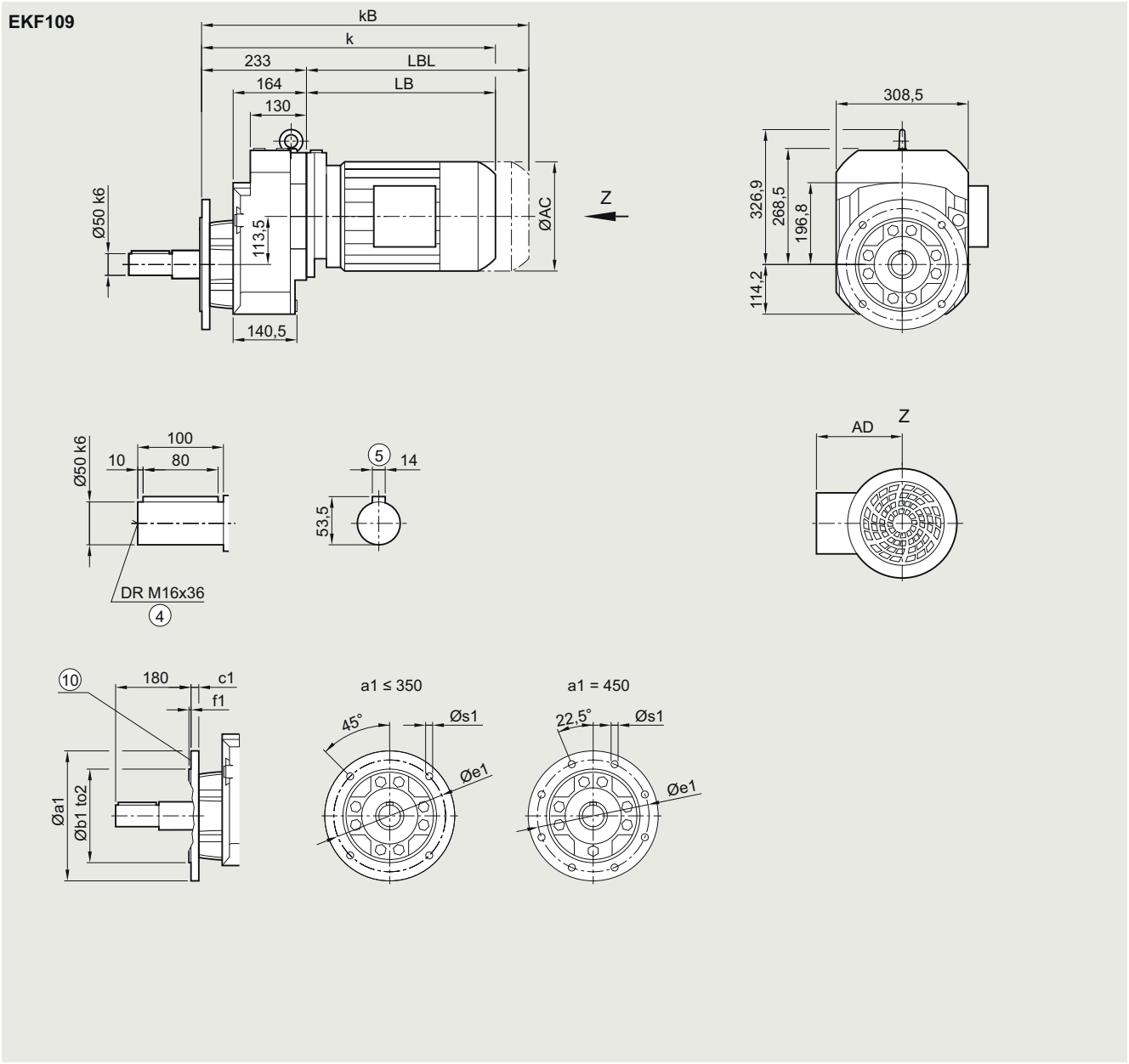
Flange	a1	b1	to2	c1	e1	f1	s1
	250	180	j6	15	215	4.0	13.5
	300	230	j6	16	265	4.0	13.5
	350	250	j6	16	300	5.0	17.5

Motor	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox EKF109 in a flange-mounted design

EKF030



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	LE										LES					
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y
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
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
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

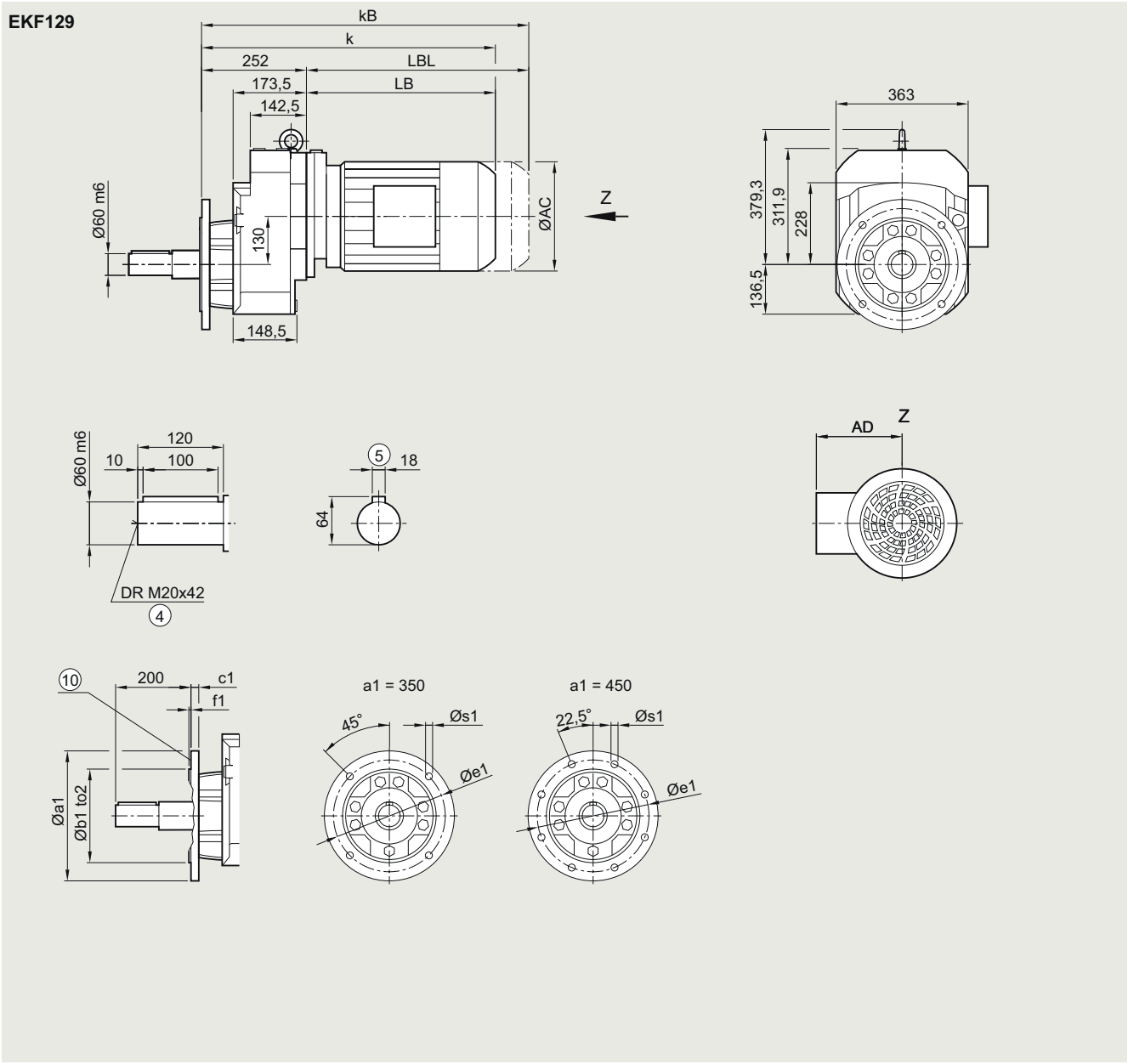
④ DIN 332
1) AD depends on the motor options, for other dimensions, see page 9/46.

⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

Gearbox EKF129 in a flange-mounted design

EKF030



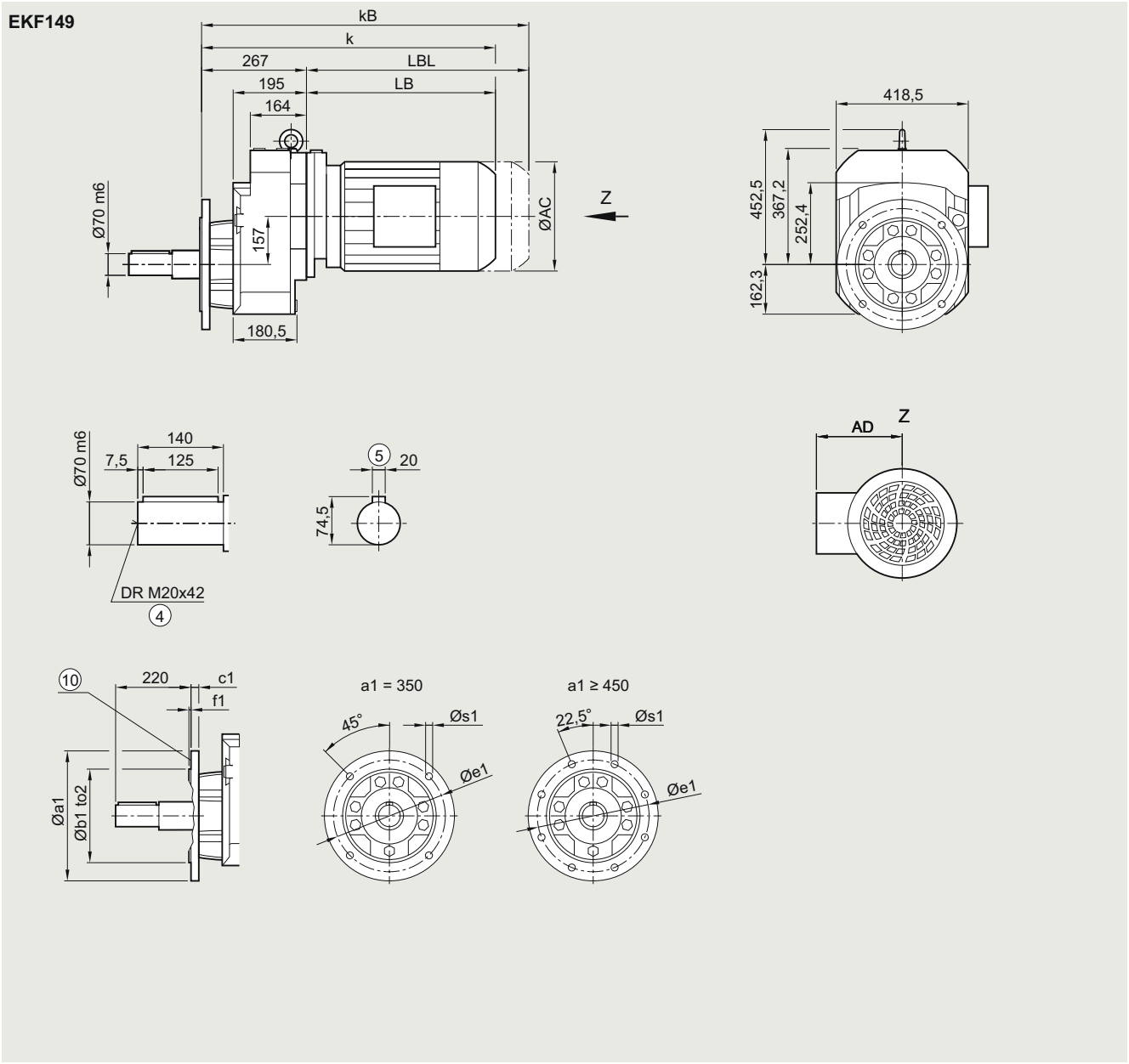
Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	18	300	5	17.5
	450	350	h6	22	400	5	17.5

Motor	LE										LES						
	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Gearbox EKF149 in a flange-mounted design

EKF030



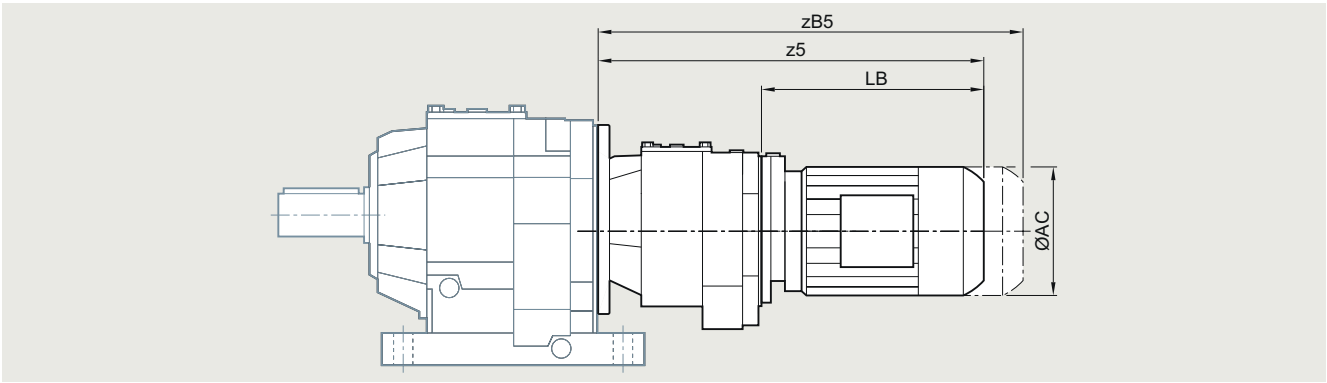
Flange	a1	b1	to2	c1	e1	f1	s1
	350	250	h6	20	300	5	17.5
	450	350	h6	22	400	5	17.5
	550	450	h6	22	500	5	17.5

Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
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
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
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
1) AD depends on the motor options, for other dimensions, see page 9/46.
⑤ Feather key/keyway DIN 6885-1
⑩ For inner contour, see page 3/180

Dimensional drawings

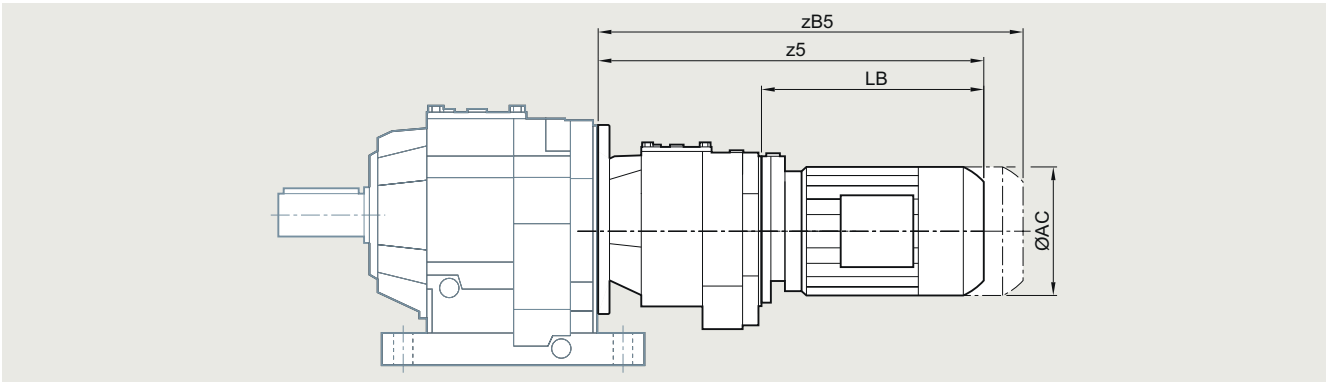
Helical tandem geared motors



Gearbox	Motor	AC	z5	zB5	LB
Z./D.29-Z/D19	LE63	117.8	331.0	375.5	160.5
	LE63Z	117.8	357.0	401.5	186.5
Z./D.39-Z/D19	LE63	117.8	331.0	375.5	160.5
	LE63Z	117.8	357.0	401.5	186.5
	LE71	138.8	363.0	418.0	184.5
	LE71Z	138.8	382.0	437.0	203.5
	LE71Y	138.8	424.0	477.0	243.5
Z./D.49-Z/D19	LE63	117.8	322.0	366.5	160.5
	LE63Z	117.8	348.0	392.5	186.5
	LE71	138.8	354.0	409.0	184.5
	LE71Z	138.8	373.0	428.0	203.5
	LE71Y	138.8	413.0	468.0	243.5
Z./D.59-Z/D19	LE63	117.8	322.0	366.5	160.5
	LE63Z	117.8	348.0	392.5	186.5
	LE71	138.8	354.0	409.0	184.5
	LE71Z	138.8	373.0	428.0	203.5
	LE71Y	138.8	413.0	468.0	243.5
	LE80	156.3	410.0	470.0	240.0
	LE80Z	156.3	445.0	505.0	275.0
Z./D.69-Z/D19	LE63	117.8	322.0	366.5	160.5
	LE63Z	117.8	348.0	392.5	186.5
	LE71	138.8	354.0	409.0	184.5
	LE71Z	138.8	373.0	428.0	203.5
	LE71Y	138.8	413.0	468.0	243.5
	LE80	156.3	410.0	470.0	240.0
	LE80Z	156.3	445.0	505.0	275.0
Z./D.79-Z/D39	LE63	117.8	373.5	418.0	194.0
	LE63Z	117.8	399.5	444.0	220.0
	LE71	138.8	405.5	460.5	226.0
	LE71Z	138.8	424.5	479.5	245.0
	LE71Y	138.8	464.5	519.5	285.0
	LE80	156.3	469.5	529.5	290.0
	LE80Z	156.3	504.5	564.5	325.0
Z./D.89-Z/D39	LE63	117.8	356.5	401.0	194.0
	LE63Z	117.8	382.5	427.0	220.0
	LE71	138.8	388.5	443.5	226.0
	LE71Z	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
	LE90	173.8	514.0	584.0	351.5
	LE90Z	173.8	554.0	624.0	391.5

Gearbox	Motor	AC	z5	zB5	LB
D.109-Z/D39	LE63	117.8	347.5	392.0	194.0
	LE63Z	117.8	373.5	418.0	220.0
	LE71	138.8	379.5	434.5	226.0
	LE71Z	138.8	398.5	453.5	245.0
	LE71Y	138.8	438.5	493.5	285.0
	LE80	156.3	443.5	503.5	290.0
	LE80Z	156.3	478.5	538.5	325.0
	LE90	173.8	505.0	575.0	351.5
	LE90Z	173.8	545.0	615.0	391.5
	LE100	198.0	561.5	640.0	408.0
	LE100Z	198.0	596.5	675.0	443.0
D.129-Z/D49	LE63	117.8	376.5	421.0	184.5
	LE63Z	117.8	402.5	447.0	210.5
	LE71	138.8	408.5	463.5	216.5
	LE71Z	138.8	427.5	482.5	235.5
	LE71Y	138.8	467.5	522.5	275.5
	LE80	156.3	472.5	532.5	280.5
	LE80Z	156.3	507.5	567.5	315.5
	LE90	173.8	534.0	604.0	342.0
	LE90Z	173.8	574.0	644.0	382.0
	LE100	198.0	590.5	669.0	398.5
	LE100Z	198.0	625.5	704.0	433.5
	LE112	222.0	600.5	673.5	408.5
	LE112Z	222.0	635.0	708.0	443.0
D.149-Z/D49	LE63	117.8	366.0	410.5	184.5
	LE63Z	117.8	392.0	436.5	210.5
	LE71	138.8	398.0	453.0	216.5
	LE71Z	138.8	417.0	472.0	235.5
	LE71Y	138.8	457.0	512.0	275.5
	LE80	156.3	462.0	522.0	280.5
	LE80Z	156.3	497.0	557.0	315.5
	LE90	173.8	523.5	593.5	342.0
	LE90Z	173.8	563.5	633.5	382.0
	LE100	198.0	580.0	658.5	398.5
	LE100Z	198.0	615.0	693.5	433.5
	LE112	222.0	590.0	663.0	408.5

Helical tandem geared motors

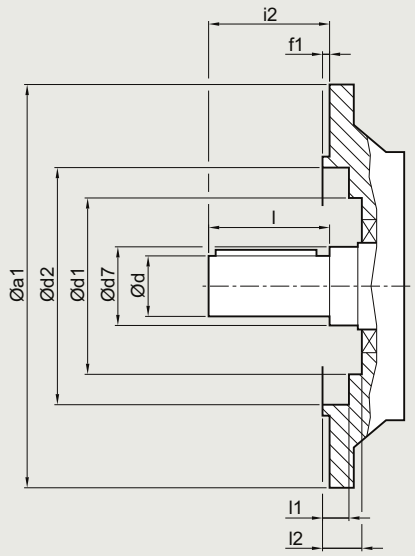


Gearbox	Motor	AC	z5	zB5	LB
D.169-Z/D69	LE63	117.8	391.5	436.0	184.5
	LE63Z	117.8	417.5	462.0	210.5
	LE71	138.8	423.5	478.5	216.5
	LE71Z	138.8	442.5	497.5	235.5
	LE71Y	138.8	482.5	539.5	275.5
	LE80	156.3	487.5	547.5	280.5
	LE80Z	156.3	522.5	582.5	315.5
	LE90	173.8	549.0	619.0	342.0
	LE90Z	173.8	589.0	659.0	382.0
	LE100	198.0	605.5	684.0	398.5
	LE100Z	198.0	640.5	719.0	433.5
	LE112	222.0	615.5	688.5	408.5
	LE112Z	222.0	650.0	723.0	443.0
	LE132	264.0	668.5	773.0	461.5
	LE132Z	264.0	718.5	823.0	511.5
D.189-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
	LE71Z	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
	LE90	173.8	549.0	619.0	342.0
	LE90Z	173.8	589.0	659.0	382.0
	LE100	198.0	605.5	684.0	398.5
	LE100Z	198.0	640.5	719.0	433.5
	LE112	222.0	615.5	688.5	408.5
	LE112Z	222.0	650.0	723.0	443.0
	LE132	264.0	668.5	773.0	461.5
	LE132Z	264.0	718.5	823.0	511.5

Dimensional drawings

Inner contour of the flange-mounted design

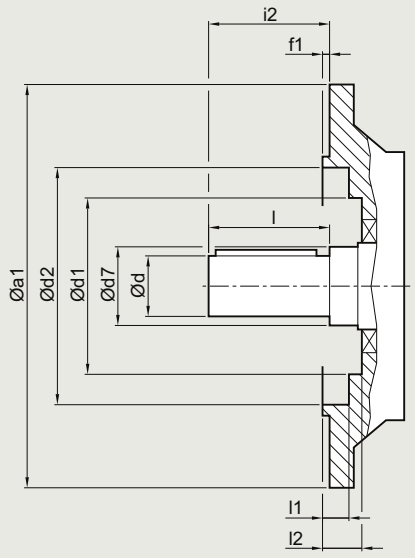
Notes regarding the design of the customer's interface.



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/DF19	120	16	25	48.0	–	72.0	3.0	28	28	1.0	–	6
		16						40	40			
		20						40	40			
	140	16	25	48.0	–	87.0	3.0	28	28	1.0	–	6
		16						40	40			
		20						40	40			
	160	16	25	48.0	–	102.0	3.5	28	28	1.0	–	6.5
		16						40	40			
		20						40	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		50	50			7.5
ZF/DF39, ZB/DB39	120	25	35	69.0	66.0	72.0	3.0	50	50	4.0	4.0	9
		30						60	60			
ZF/DF39	160	25	35	66.5	–	102.0	3.5	50	50	1.5	–	6.5
		30						60	60			
	200	25	35	66.5	–	120.0	3.5	50	50	1.5	–	6.5
		30						60	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		60	60	4.5		10
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

Inner contour of the flange-mounted design

Notes regarding the design of the customer's interface.

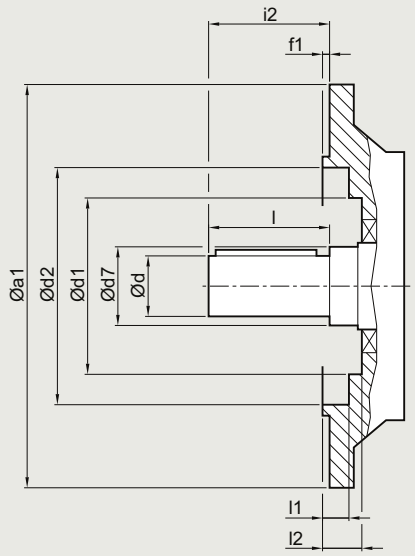


Gearbox	a1	d	d7	d1 ZF/DF	d1 ZB/DB	d2	f1	i2	l	l1 ZF/DF	l1 ZB/DB	l2
Helical gearbox ZF/DF or ZB/DB												
ZF/DF79, ZB/DB79	250	35	52	113.0	114.5	168.0	4.0	70	70	0.5	2.5	7.5
		40						80	80			
		50						100	100			
ZF/DF79	300	35	52	113.0	–	217.0	4.0	70	70	0.5	–	7.5
		40						80	80			
		50						100	100			
	350	35	52	113.0	–	238.0	5.0	70	70	0.5	–	8.5
		40						80	80			
		50						100	100			
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

Dimensional drawings

Inner contour of the flange-mounted design

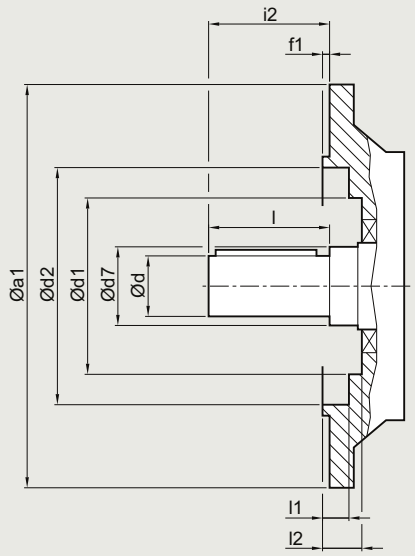
Notes regarding the design of the customer's interface.



Gearbox	a1	d	d7	d1	d2	f1	i2	l	l1	l2
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
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				8.5
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	
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	

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	l1	l2
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				8.5
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	

Notes