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Selection and ordering data

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

At an identical power rating and output speed, priority is given in the selection tables to 4-pole geared motors.

At the available transmission ratios, they cover the majority of output speeds.

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

Power rating P_{Motor}	Output speed		Output torque	Service factor	Gearbox ratio	Efficiency	Order No.	Order code	Weight *)
kW	n_2 (50 Hz)	n_2 (60 Hz)	T_2	f_B	i_{tot}			(No. of poles)	
	rpm	rpm	Nm						kg
0.09 (50 Hz)	**SC.63-LAI71M8**								
0.11 (60 Hz)	**6.3**	**7.6**	74	1.8	100	0.54	**2KJ1702 - ■CE13 - ■■L1**	**P02**	12
	SC.50-LAI71M8								
	7.9	**9.5**	59	1.4	80	0.54	**2KJ1701 - ■CE13 - ■■K1**	**P02**	10
	SC.50-LAI71B6								
	11.2	**13.4**	42	1.9	80	0.54	**2KJ1701 - ■CB13 - ■■K1**	**P01**	10
	SC.36-LAI71M8								
	15.8	**19**	37	1.2	40	0.68	**2KJ1700 - ■CE13 - ■■G1**	**P02**	8
	21	**25**	29	1.4	30	0.71	**2KJ1700 - ■CE13 - ■■F1**	**P02**	8
	SC.36-LAI71B6								
	22	**26**	26	1.6	40	0.68	**2KJ1700 - ■CB13 - ■■G1**	**P01**	8
	30	**36**	20	2.0	30	0.71	**2KJ1700 - ■CB13 - ■■F1**	**P01**	8
0.12 (50 Hz)	**SC.63-LAI71MB8**								
0.14 (60 Hz)	**6.4**	**7.7**	96	1.4	100	0.54	**2KJ1702 - ■CF13 - ■■L1**	**P02**	12
	8.1	**9.7**	87	1.9	80	0.61	**2KJ1702 - ■CF13 - ■■K1**	**P02**	12
	SC.63-LAI71C6								
	8.6	**10.3**	72	1.8	100	0.54	**2KJ1702 - ■CC13 - ■■L1**	**P01**	12
	SC.50-LAI71MB8								
	8.1	**9.7**	77	1.0	80	0.54	**2KJ1701 - ■CF13 - ■■K1**	**P02**	10
	SC.50-LAI71C6								
	10.8	**13.0**	58	1.4	80	0.54	**2KJ1701 - ■CC13 - ■■K1**	**P01**	10
	14.3	**17.2**	47	1.7	60	0.59	**2KJ1701 - ■CC13 - ■■J1**	**P01**	10
	SC.50-LAI71B4								
	17.5	**21**	35	2.3	80	0.54	**2KJ1701 - ■CB13 - ■■K1**		10
	SC.36-LAI71MB8								
	16.1	**19.3**	48	0.9	40	0.68	**2KJ1700 - ■CF13 - ■■G1**	**P02**	8
	SC.36-LAI71C6								
	22	**26**	36	1.2	40	0.68	**2KJ1700 - ■CC13 - ■■G1**	**P01**	8
	29	**35**	28	1.4	30	0.71	**2KJ1700 - ■CC13 - ■■F1**	**P01**	8
	SC.36-LAI71B4								
	35	**42**	22	1.9	40	0.68	**2KJ1700 - ■CB13 - ■■G1**		8
	47	**56**	17	2.4	30	0.71	**2KJ1700 - ■CB13 - ■■F1**		8
	56	**67**	15	2.7	25	0.74	**2KJ1700 - ■CB13 - ■■E1**		8
	70	**84**	13	3.1	20	0.82	**2KJ1700 - ■CB13 - ■■D1**		8

Shaft designs, see page 6/13 — 1, 5 or 6
Frequency and voltage, see page 8/20 — 1 to 9
Gearbox housing mounting position, see page 6/15 — A, D, F or H

*) For mounting type B3

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	Output speed n_2 (60 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Efficiency	Order No.	Order code (No. of poles)	Weight *) kg
0.18 (50 Hz)	**SC.63-LAI71S6**								
0.22 (60 Hz)	**8.5**	**10.2**	109	1.2	100	0.54	**2KJ1702 - ■CD13 - ■■L1**	**P01**	12
	10.6	**12.7**	99	1.7	80	0.61	**2KJ1702 - ■CD13 - ■■K1**	**P01**	12
	SC.63-LAI71C4								
	13.7	**16.4**	68	2.0	100	0.54	**2KJ1702 - ■CC13 - ■■L1**		12
	SC.50-LAI71S6								
	10.6	**12.7**	87	0.92	80	0.54	**2KJ1701 - ■CD13 - ■■K1**	**P01**	10
	14.2	**17**	72	1.1	60	0.59	**2KJ1701 - ■CD13 - ■■J1**	**P01**	10
	SC.50-LAI71C4								
	17.1	**21**	54	1.5	80	0.54	**2KJ1701 - ■CC13 - ■■K1**		10
	23	**28**	44	1.8	60	0.59	**2KJ1701 - ■CC13 - ■■J1**		10
	27	**32**	39	1.9	50	0.62	**2KJ1701 - ■CC13 - ■■H1**		10
	34	**41**	33	2.3	40	0.65	**2KJ1701 - ■CC13 - ■■G1**		10
	46	**55**	26	2.8	30	0.69	**2KJ1701 - ■CC13 - ■■F1**		10
	SC.36-LAI71S6								
	28	**34**	43	0.95	30	0.71	**2KJ1700 - ■CD13 - ■■F1**	**P01**	8
	SC.36-LAI71C4								
	34	**41**	34	1.3	40	0.68	**2KJ1700 - ■CC13 - ■■G1**		8
	46	**55**	27	1.5	30	0.71	**2KJ1700 - ■CC13 - ■■F1**		8
	55	**66**	23	1.8	25	0.74	**2KJ1700 - ■CC13 - ■■E1**		8
	68	**82**	21	2.0	20	0.82	**2KJ1700 - ■CC13 - ■■D1**		8
	91	**109**	16	2.6	15	0.84	**2KJ1700 - ■CC13 - ■■C1**		8
	137	**164**	11	3.6	10	0.88	**2KJ1700 - ■CC13 - ■■B1**		8
0.25 (50 Hz)	**SC.63-LAI71M6**								
0.30 (60 Hz)	**8.6**	**10.3**	150	0.89	100	0.54	**2KJ1702 - ■CE13 - ■■L1**	**P01**	12
	10.8	**13**	135	1.2	80	0.61	**2KJ1702 - ■CE13 - ■■K1**	**P01**	12
	SC.63-LAI71S4								
	13.5	**16.2**	96	1.4	100	0.54	**2KJ1702 - ■CD13 - ■■L1**		12
	16.9	**20**	86	1.9	80	0.61	**2KJ1702 - ■CD13 - ■■K1**		12
	22	**26**	70	2.3	60	0.66	**2KJ1702 - ■CD13 - ■■J1**		12
	SC.50-LAI71S4								
	16.9	**20**	76	1.0	80	0.54	**2KJ1701 - ■CD13 - ■■K1**		10
	22	**26**	63	1.2	60	0.59	**2KJ1701 - ■CD13 - ■■J1**		10
	27	**32**	55	1.4	50	0.62	**2KJ1701 - ■CD13 - ■■H1**		10
	34	**41**	46	1.6	40	0.65	**2KJ1701 - ■CD13 - ■■G1**		10
	45	**54**	37	2.0	30	0.69	**2KJ1701 - ■CD13 - ■■F1**		10
	54	**65**	31	2.3	25	0.71	**2KJ1701 - ■CD13 - ■■E1**		10
	68	**82**	28	2.6	20	0.79	**2KJ1701 - ■CD13 - ■■D1**		10
	90	**108**	22	3.3	15	0.82	**2KJ1701 - ■CD13 - ■■C1**		10

Shaft designs, see page 6/13 — 1, 5 or 6
Frequency and voltage, see page 8/20 — 1 to 9
Gearbox housing mounting position, see page 6/15 — A, D, F or H

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Efficiency	Order No.	Order code (No. of poles)	Weight *) kg
0.25 (50 Hz)	**SC.36-LAI71S4**								
0.30 (60 Hz)	**34**	**41**	48	0.89	40	0.68	**2KJ1700 - ■CD13 - ■■G1**		8
	45	**54**	38	1.1	30	0.71	**2KJ1700 - ■CD13 - ■■F1**		8
	54	**65**	33	1.3	25	0.74	**2KJ1700 - ■CD13 - ■■E1**		8
	68	**82**	29	1.4	20	0.82	**2KJ1700 - ■CD13 - ■■D1**		8
	90	**108**	22	1.8	15	0.84	**2KJ1700 - ■CD13 - ■■C1**		8
	135	**162**	16	2.6	10	0.88	**2KJ1700 - ■CD13 - ■■B1**		8
	193	**232**	11	3.6	7	0.91	**2KJ1700 - ■CD13 - ■■A1**		8
0.37 (50 Hz)	**SC.63-LAI80S6**								
0.44 (60 Hz)	**11.5**	**13.8**	187	0.89	80	0.61	**2KJ1702 - ■DB13 - ■■K1**	**P01**	16
	SC.63-LAI71M4								
	13.7	**16.4**	139	0.95	100	0.54	**2KJ1702 - ■CE13 - ■■L1**		12
	17.1	**21**	126	1.3	80	0.61	**2KJ1702 - ■CE13 - ■■K1**		12
	23	**28**	102	1.6	60	0.66	**2KJ1702 - ■CE13 - ■■J1**		12
	27	**32**	88	1.8	50	0.68	**2KJ1702 - ■CE13 - ■■H1**		12
	34	**41**	73	2.2	40	0.71	**2KJ1702 - ■CE13 - ■■G1**		12
	46	**55**	57	2.7	30	0.74	**2KJ1702 - ■CE13 - ■■F1**		12
	SC.50-LAI71M4								
	23	**28**	91	0.85	60	0.59	**2KJ1701 - ■CE13 - ■■J1**		10
	27	**32**	80	0.94	50	0.62	**2KJ1701 - ■CE13 - ■■H1**		10
	34	**41**	67	1.1	40	0.65	**2KJ1701 - ■CE13 - ■■G1**		10
	46	**55**	53	1.4	30	0.69	**2KJ1701 - ■CE13 - ■■F1**		10
	55	**66**	46	1.6	25	0.71	**2KJ1701 - ■CE13 - ■■E1**		10
	68	**82**	41	1.8	20	0.79	**2KJ1701 - ■CE13 - ■■D1**		10
	91	**109**	32	2.3	15	0.82	**2KJ1701 - ■CE13 - ■■C1**		10
	137	**164**	22	3.2	10	0.87	**2KJ1701 - ■CE13 - ■■B1**		10
	196	**235**	16	4.3	7	0.91	**2KJ1701 - ■CE13 - ■■A1**		10
	SC.36-LAI71M4								
	55	**66**	48	0.86	25	0.74	**2KJ1700 - ■CE13 - ■■E1**		8
	68	**82**	42	0.97	20	0.82	**2KJ1700 - ■CE13 - ■■D1**		8
	91	**109**	32	1.3	15	0.84	**2KJ1700 - ■CE13 - ■■C1**		8
	137	**164**	23	1.8	10	0.88	**2KJ1700 - ■CE13 - ■■B1**		8
	196	**235**	16	2.4	7	0.91	**2KJ1700 - ■CE13 - ■■A1**		8
0.55 (50 Hz)	**SC.63-LAI80S4**								
0.66 (60 Hz)	**17.4**	**21**	184	0.9	80	0.61	**2KJ1702 - ■DB13 - ■■K1**		16
	23	**28**	149	1.1	60	0.66	**2KJ1702 - ■DB13 - ■■J1**		16
	28	**34**	128	1.3	50	0.68	**2KJ1702 - ■DB13 - ■■H1**		16
	35	**42**	107	1.5	40	0.71	**2KJ1702 - ■DB13 - ■■G1**		16
	46	**55**	84	1.8	30	0.74	**2KJ1702 - ■DB13 - ■■F1**		16

Shaft designs, see page 6/13 — **1, 5 or 6**
Frequency and voltage, see page 8/20 — **1 to 9**
Gearbox housing mounting position, see page 6/15 — **A, D, F or H**

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Selection and ordering data (continued)

Power rating P_{Motor} kW	Output speed n_2 (50 Hz) rpm	n_2 (60 Hz) rpm	Output torque T_2 Nm	Service factor f_B	Gearbox ratio i_{tot}	Efficiency	Order No.	Order code (No. of poles)	Weight *) kg
0.55 (50 Hz)	**SC.63-LAI80S4**								
0.66 (60 Hz)	**56**	**67**	72	2.1	25	0.76	**2KJ1702 - ■DB13 - ■■E1**		16
	70	**84**	62	2.4	20	0.83	**2KJ1702 - ■DB13 - ■■D1**		16
	93	**112**	48	3.2	15	0.85	**2KJ1702 - ■DB13 - ■■C1**		16
	SC.50-LAI80S4								
	46	**55**	78	0.94	30	0.69	**2KJ1701 - ■DB13 - ■■F1**		14
	56	**67**	67	1.1	25	0.71	**2KJ1701 - ■DB13 - ■■E1**		14
	70	**84**	60	1.2	20	0.79	**2KJ1701 - ■DB13 - ■■D1**		14
	93	**112**	46	1.6	15	0.82	**2KJ1701 - ■DB13 - ■■C1**		14
	140	**168**	33	2.2	10	0.87	**2KJ1701 - ■DB13 - ■■B1**		14
	199	**239**	24	3.0	7	0.91	**2KJ1701 - ■DB13 - ■■A1**		14
0.75 (50 Hz)	**SC.63-LAI80M4**								
0.90 (60 Hz)	**23**	**28**	203	0.81	60	0.66	**2KJ1702 - ■DC13 - ■■J1**		16
	28	**34**	175	0.92	50	0.68	**2KJ1702 - ■DC13 - ■■H1**		16
	35	**42**	146	1.1	40	0.71	**2KJ1702 - ■DC13 - ■■G1**		16
	46	**55**	114	1.3	30	0.74	**2KJ1702 - ■DC13 - ■■F1**		16
	56	**67**	98	1.6	25	0.76	**2KJ1702 - ■DC13 - ■■E1**		16
	70	**84**	85	1.8	20	0.83	**2KJ1702 - ■DC13 - ■■D1**		16
	93	**112**	66	2.3	15	0.85	**2KJ1702 - ■DC13 - ■■C1**		16
	140	**168**	46	3.2	10	0.90	**2KJ1702 - ■DC13 - ■■B1**		16
	SC.50-LAI80M4								
	56	**67**	91	0.8	25	0.71	**2KJ1701 - ■DC13 - ■■E1**		14
	70	**84**	81	0.9	20	0.79	**2KJ1701 - ■DC13 - ■■D1**		14
	93	**112**	63	1.1	15	0.82	**2KJ1701 - ■DC13 - ■■C1**		14
	140	**168**	45	1.6	10	0.87	**2KJ1701 - ■DC13 - ■■B1**		14
	199	**239**	33	2.2	7	0.91	**2KJ1701 - ■DC13 - ■■A1**		14
1.1 (50 Hz)	**SC.63-LAI90S4**								
1.3 (60 Hz)	**47**	**56**	165	0.93	30	0.74	**2KJ1702 - ■EL13 - ■■F1**		19
	57	**68**	141	1.1	25	0.76	**2KJ1702 - ■EL13 - ■■E1**		19
	71	**85**	123	1.2	20	0.83	**2KJ1702 - ■EL13 - ■■D1**		19
	94	**113**	95	1.6	15	0.85	**2KJ1702 - ■EL13 - ■■C1**		19
	142	**170**	67	2.2	10	0.9	**2KJ1702 - ■EL13 - ■■B1**		19
	202	**242**	48	3.1	7	0.92	**2KJ1702 - ■EL13 - ■■A1**		19
1.5 (50 Hz)	**SC.63-LAI90L4**								
1.8 (60 Hz)	**71**	**85**	167	0.91	20	0.83	**2KJ1702 - ■EP13 - ■■D1**		22
	95	**114**	129	1.2	15	0.85	**2KJ1702 - ■EP13 - ■■C1**		22
	142	**170**	91	1.7	10	0.9	**2KJ1702 - ■EP13 - ■■B1**		22
	203	**244**	65	2.3	7	0.92	**2KJ1702 - ■EP13 - ■■A1**		22

Shaft designs, see page 6/13 — **1, 5 or 6**
Frequency and voltage, see page 8/20 — **1 to 9**
Gearbox housing mounting position, see page 6/15 — **A, D, F or H**

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Selection and ordering data

Gearbox size	Ratio code Order No. 15th and 16th position	Gearbox ratio i_{tot}	Lead angle of the worm γ_m approx.: °	Output speed n_1 = 2 800 rpm n_2 rpm	T_2 Nm	P_{1N} kW	η %	Output speed n_1 = 1 400 rpm n_2 rpm	T_2 Nm	P_{1N} kW	η %	IEC motor size 63	71	80	90
SC36	**J1**	60	3.5	46	33	0.24	67	23	42	0.16	62	•			
	H1	50	4.0	56	33	0.28	70	28	44	0.20	65	•			
	G1	40	4.5	70	31	0.32	72	35	43	0.23	68	•	•		
	F1	30	5.5	94	31	0.40	76	47	41	0.28	71	•	•		
	E1	25	6.5	112	31	0.47	78	56	41	0.32	74	•	•		
	D1	20	9.5	142	31	0.54	85	71	41	0.37	82	•	•		
	C1	15	11.0	188	30	0.69	87	94	41	0.48	84	•	•		
	B1	10	17.0	282	30	0.97	91	141	40	0.67	88	•	•		
	A1	7	23.0	402	30	1.36	93	201	40	0.93	91	•	•		
SC50	**L1**	100	2.0	28	57	0.30	55	14	72	0.22	48	•			
	K1	80	2.5	34	57	0.35	59	17	80	0.26	54	•	•		
	J1	60	3.0	46	57	0.43	64	23	78	0.32	59	•	•		
	H1	50	3.5	56	55	0.49	66	28	75	0.35	62	•	•		
	G1	40	4.5	70	55	0.58	70	35	74	0.42	65	•	•		
	F1	30	5.0	94	53	0.71	73	47	73	0.52	69	•	•	•	
	E1	25	6.0	112	53	0.83	75	56	73	0.60	71	•	•	•	
	D1	20	8.5	142	53	0.95	83	71	73	0.69	79	•	•	•	
	C1	15	10.0	188	53	1.24	85	94	72	0.86	82	•	•	•	
	B1	10	15.0	282	53	1.75	90	141	72	1.22	87	•	•	•	
	A1	7	21.0	402	53	2.39	93	201	71	1.64	91	•	•	•	
SC63	**L1**	100	2.5	28	131	0.60	64	14	133	0.36	54		•		
	K1	80	3.0	34	131	0.70	67	17	166	0.48	61		•	•	
	J1	60	4.0	46	130	0.87	72	23	164	0.60	66		•	•	
	H1	50	4.5	56	128	1.01	74	28	161	0.69	68		•	•	
	G1	40	5.0	70	123	1.19	76	35	159	0.82	71		•	•	
	F1	30	6.0	94	120	1.50	79	47	153	1.02	74		•	•	•
	E1	25	7.0	112	120	1.74	81	56	152	1.17	76		•	•	•
	D1	20	10.0	142	120	2.05	87	71	152	1.36	83		•	•	•
	C1	15	12.0	180	120	2.65	89	94	152	1.76	85		•	•	•
	B1	10	18.0	282	120	3.81	93	141	150	2.46	90		•	•	•
	A1	7	24.0	402	117	5.24	94	201	148	3.39	92		•	•	•

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Selection and ordering data (continued)

Gearbox size	Ratio code Order No. 15th and 16th position	Gearbox ratio i_{tot}	Lead angle of the worm γ_m approx.: °	Output speed n_1 = 900 rpm n_2 rpm	T_2 Nm	P_{1N} kW	η %	Output speed n_1 = 500 rpm n_2 rpm	T_2 Nm	P_{1N} kW	η %	IEC motor size 63	71	80	90
SC36	J1	60	3.5	15	51	0.13	60	8.3	51	0.08	55	•			
	H1	50	4.0	18	51	0.15	63	10.0	59	1.10	59	•			
	G1	40	4.5	23	51	0.19	66	13.0	64	0.14	63	•	•		
	F1	30	5.5	30	50	0.22	70	17.0	63	0.17	67	•	•		
	E1	25	6.5	36	50	0.27	71	20.0	62	0.19	69	•	•		
	D1	20	9.5	45	50	0.29	80	25.0	62	0.21	78	•	•		
	C1	15	11.0	60	50	0.38	82	33.0	62	0.27	80	•	•		
	B1	10	17.0	90	49	0.53	87	50.0	61	0.38	85	•	•		
	A1	7	23.0	129	48	0.72	90	71.0	58	0.48	89	•	•		
SC50	L1	100	2.0	9	72	0.16	43	5.0	72	0.10	38	•			
	K1	80	2.5	11	93	0.21	51	6.3	93	0.13	46	•	•		
	J1	60	3.0	15	93	0.26	57	8.3	116	0.19	54	•	•		
	H1	50	3.5	18	90	0.29	59	10.0	115	0.22	56	•	•		
	G1	40	4.5	23	90	0.34	63	13.0	113	0.26	60	•	•		
	F1	30	5.0	30	86	0.41	66	17.0	110	0.31	64	•	•	•	
	E1	25	6.0	36	85	0.46	69	20.0	109	0.35	66	•	•	•	
	D1	20	8.5	45	85	0.52	77	25.0	109	0.38	75	•	•	•	
	C1	15	10.0	60	85	0.67	80	33.0	109	0.48	78	•	•	•	
	B1	10	15.0	90	85	0.94	86	50.0	109	0.68	84	•	•	•	
	A1	7	21.0	129	84	1.28	89	71.0	107	0.90	88	•	•	•	
SC63	L1	100	2.5	9	134	0.26	49	5.0	134	0.16	44		•		
	K1	80	3.0	11	184	0.37	57	6.3	185	0.23	52		•	•	
	J1	60	4.0	15	185	0.46	63	8.3	231	0.33	60		•	•	
	H1	50	4.5	18	183	0.53	65	10.0	224	0.38	62		•	•	
	G1	40	5.0	23	181	0.64	68	13.0	220	0.47	64		•	•	
	F1	30	6.0	30	176	0.78	71	17.0	216	0.57	68		•	•	•
	E1	25	7.0	36	175	0.90	73	20.0	212	0.63	70		•	•	•
	D1	20	10.0	45	175	1.02	81	25.0	212	0.70	79		•	•	•
	C1	15	12.0	60	175	1.32	83	33.0	212	0.90	81		•	•	•
	B1	10	18.0	90	175	1.87	88	50.0	212	1.29	86		•	•	•
	A1	7	24.0	129	170	2.52	91	71.0	205	1.71	89		•	•	•

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