

Squirrel-cage motors

1LA · Aluminium housing · Pole-change motors

Selection and ordering data

Rated output			Size	Order No. Order No. supplement for voltage and type of construction, see table below	Operating data at rated output			Starting torque			Starting current			Torque class	Moment of inertia J	Weight	
					Rated speeds	Rated current at 400 V		For direct-on-line starting as multiple of the rated torque			current						Type of constr. IM B 3
750 rpm	1000 rpm	1500 rpm				750 rpm	1000 rpm	1500 rpm	750 rpm	1000 rpm	1500 rpm	750 rpm	1000 rpm	1500 rpm			approx.
kW	kW	kW			rpm	A	A	A							KL	kg m ²	kg
Three-speed pole-change for driving fans, IP55 degree of protection, temperature class F																	
			750/1000/1500 rpm, 8-/6-/4-pole, 50 Hz, version with two windings, of which 750/1500 rpm in Dahlander circuit														
0.15	0.22	0.7	90 S	1LA7 090-1BJ ..	705/960/1430	0.72	0.82	1.74	1.3	1.3	1.5	2.5	2.9	4.3	10	0.0028	12
0.22	0.3	0.95	90 L	1LA7 096-1BJ ..	705/955/1435	1.06	1.13	2.30	1.3	1.3	1.4	2.5	3.1	4.0	10	0.0035	15
0.37	0.55	1.5	100 L	1LA7 106-1BJ ..	700/955/1400	1.66	1.71	3.25	0.9	1.4	1.5	2.8	3.8	4.7	7	0.0048	20
0.45	0.7	1.8		1LA7 107-1BJ ..	700/955/1400	1.85	2.15	3.90	0.9	1.4	1.7	2.8	3.8	4.7	7	0.0058	22
0.6	0.85	2.4	112 M	1LA7 113-1BJ ..	715/970/1445	2.75	2.80	5.10	1.1	1.3	1.9	3.1	4.4	6.0	7	0.011	29
0.75 1	1.1	3.1	132 S	1LA7 130-1BJ ..	730/980/1460	2.70	3.40	7.20	1.7	1.7	1.5	3.7	4.5	5.5	10	0.018	39
	1.5	4.4	132 M	1LA7 133-1BJ ..	730/980/1460	3.55	4.50	9.70	1.8	1.9	1.6	3.9	4.9	5.8	10	0.024	46
1.6 2.4	2.2	6.6	160 M	1LA7 163-1BJ ..	730/980/1470	5.10	6.50	14.2	1.4	1.7	1.7	3.9	5.1	7.0	7	0.040	67
	3.5	10	160 L	1LA7 166-1BJ ..	730/980/1470	7.60	9.40	20.7	1.6	1.8	2.0	4.1	5.3	7.7	7	0.054	85
3 3.7	4.5	13	180 M	1LA5 183-1BJ ..	730/980/1470	8.40	10.2	25.5	1.2	1.8	1.3	3.2	5.0	5.4	7	0.081	116
	5.5	16	180 L	1LA5 186-1BJ ..	725/975/1469	10.3	12.1	31.0	1.1	1.9	1.3	3.2	5.0	5.4	7	0.094	123
5	8	22	200 L	1LA5 207-1BJ ..	730/975/1465	13.4	16.6	42.0	1.2	1.9	1.3	3.6	5.0	5.4	7	0.16	157

Order No. supplements

Motor type	Penultimate position: Voltage identifier				Final position: Type of construction identifier						
	50 Hz, direct switch-on				IM B 3	Price supplement					
	230 V	400 V	500 V	690 V		IM B 5	IM V 1 Without protective cover	IM V 1 With protective cover	IM B 14 With standard flange	IM B 14 With special flange	IM B 35
1LA7 090 to 1LA7 166	1	6	5	0	0	1	1	4	2	3	6
1LA5 183 to 1LA5 207	1	6	5	0	0	1	1	4	–	–	6

Other voltage and/or frequency, voltage identifier "9".
Order codes are required for this purpose (see "Technical information", "Voltages, currents and frequencies").

For other types of construction, see "Technical information", "Types of construction".