

Squirrel-cage motors

1LA · Aluminium housing · Basic version

Selection and ordering data

Rated output	Size	Order No. Order No. supplement for voltage and type of construction, see table below	Efficiency class 	Operating data at rated output						Starting torque	Starting current	Stalling torque	Torque class	Moment of inertia J	Weight Type of constr. IM B 3 approx.
				Rated speed	Efficiency η at		Power factor p.f.	Rated current at 400 V	Rated torque	For direct-on-line starting as multiple of the rated torque	current	torque			
					4/4-load	3/4-load									
					rpm	%									
Energy-saving motor, IP55 degree of protection, temperature class F															
	1000 rpm, 6-pole, 50 Hz														
0.75 1.1	90 S	1LA9 090-6KA ..		925	75.5	75.5	0.72	2.00	7.7	2.5	4.4	2.5	16	0.0033	16
	90 L	1LA9 096-6KA ..		940	82.0	82.0	0.70	2.80	11	3.2	5.7	3.2	16	0.0050	19
1.5	100 L	1LA9 106-6KA ..		950	85.0	85.0	0.70	3.65	15	3.4	6.2	3.4	16	0.0065	25
2.2	112 M	1LA9 113-6KA ..		955	84.0	84.0	0.70	5.40	22	2.7	6.2	3.0	16	0.014	37
4 5.5	132 M	1LA9 133-6KA ..		950	84.0	84.0	0.81	8.50	40	2.5	6.3	2.7	16	0.025	49
		1LA9 134-6KA ..		960	86.0	86.0	0.77	12.0	55	3.3	7.3	3.6	16	0.030	64
7.5 11	160 M	1LA9 163-6KA ..		965	88.0	88.0	0.72	17.1	74	2.2	5.5	2.5	16	0.063	98
	160 L	1LA9 166-6KA ..		960	88.5	88.5	0.78	23.0	109	2.9	6.9	3.2	16	0.072	105
15	180 L	1LA9 186-6WA ..		970	91.0	91.0	0.75	31.5	148	2.0	6.5	2.5	16	0.19	144
18.5 22	200 L	1LA9 206-6WA ..		975	91.0	91.0	0.77	38.0	181	2.5	6.2	2.5	16	0.28	186
		1LA9 207-6WA ..		975	91.5	91.5	0.77	45.0	215	2.5	6.2	2.5	16	0.36	217

Higher outputs under "1LG · Cast iron housing" on Page 3/17.

Order No. supplements

Motor type	Penultimate position: Voltage identifier						Final position: Type of construction identifier						
	50 Hz			60 Hz			IM B 3	Price supplement					
	230 VΔ / 400 VY	400 VΔ / 690 VY	500 VY	500 VΔ	460 VY	460 VΔ		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
1LA9 050 to 1LA9 096	1	6	3	—	1	6	0	1	1	4	2	3	6
1LA9 106 to 1LA9 166	1	6	3	5	1	6	0	1	1	4	2	3	6
1LA9 183 to 1LA9 207	1	6	3	5	1	6	0	1	1	4	—	—	6

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

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