

Squirrel-cage motors

1LG · Cast iron housing · Pole-changing

Selection and ordering data

Pole-change motors

The torque classification for pole-change motors only applies once the lowest speed

has been activated until the operating speed when it is switched over to the next

highest speed.

The motors can only be started direct-on-line.
For circuit diagrams, see online help in SD configurator.

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		Stalling torque		Torque class	Moment of inertia J	Weight
				Rated speed rpm	Rated current at 400 V		For direct-on-line starting as multiple of the rated torque		current		torque				Type of constr. IM B 3
1000 rpm	1500 rpm		1000 rpm		1500 rpm	1000 rpm	1500 rpm	1000 rpm	1500 rpm	1000 rpm	1500 rpm				approx.
kW	kW				A	A							KL	kg m ²	kg
Two-speed pole-change for driving fans, IP55 degree of protection, temperature class F															
		1000/1500 rpm, 6-/4-pole, 50 Hz, design with two windings													
5.5 6.5	16 19	180 M	1LG4 183-1BD ..	960/1460	12.0	31.5	1.6	1.7	4.0	5.3	1.8	2.5	10	0.082	155
		180 L	1LG4 186-1BD ..	960/1460	14.0	36.5	1.6	1.7	4.0	5.2	1.8	2.4	10	0.086	175
9.5	26	200 L	1LG4 207-1BD ..	975/1460	20.0	49.0	1.9	1.7	5.0	5.1	2.2	2.4	10	0.151	235
12 14.5	34 40	225 S	1LG4 220-1BD ..	980/1465	24.5	63.0	2.3	1.7	5.7	5.6	2.1	2.3	10	0.295	285
		225 M	1LG4 223-1BD ..	980/1470	28.5	72.0	2.2	1.9	5.6	5.8	2.1	2.3	10	0.378	340
18	52	250 M	1LG4 253-1BD ..	980/1475	34.0	91.0	2.0	2.0	4.9	5.9	2.0	2.7	10	0.447	380
25 30	70 82	280 S	1LG4 280-1BD ..	982/1478	47.0	124.0	2.1	2.2	5.0	6.2	1.9	2.6	10	1.19	540
		280 M	1LG4 283-1BD ..	984/1480	56.0	148.0	2.5	2.4	5.5	6.6	2.2	2.8	10	1.39	580
750 rpm	1500 rpm				750 rpm	1500 rpm	750 rpm	1500 rpm	750 rpm	1500 rpm	750 rpm	1500 rpm			
		750/1500 rpm, 8-/4-pole, 50 Hz, version with one winding in Dahlander circuit													
4.5 5	16 18.5	180 M	1LG4 183-0BB ..	725/1465	12.6	31.0	1.4	2.2	3.6	6.8	2.0	3.1	10	0.117	155
		180 L	1LG4 186-0BB ..	725/1470	14.2	35.0	1.6	2.4	3.7	7.2	2.1	3.3	10	0.144	180
7.5	28	200 L	1LG4 207-0BB ..	730/1465	21.5	52.0	2.1	2.7	4.3	7.3	2.5	2.9	10	0.191	220
9.5 11.5	35 42	225 S	1LG4 220-0BB ..	738/1478	26.0	64.0	2.0	1.7	4.4	6.9	2.3	2.9	10	0.447	295
		225 M	1LG4 223-0BB ..	738/1475	30.5	75.0	1.9	2.4	4.5	6.9	2.2	3.0	10	0.486	330
14.5	52	250 M	1LG4 253-0BB ..	740/1482	38.0	94.0	2.0	2.5	4.0	6.8	1.8	2.6	10	0.856	430
19 23	70 83	280 S	1LG4 280-0BB ..	742/1482	49.0	124.0	1.8	2.0	4.0	6.3	1.8	2.5	10	1.19	530
		280 M	1LG4 283-0BB ..	742/1485	58.0	146.0	1.9	2.2	4.2	7.2	1.8	2.7	10	1.71	665

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 35
1LG4 183 to 1LG4 207	1	6	5	0	0	1	1	4	6
1LG4 220 to 1LG4 283	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".