

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4184B

SIMOTICS SD - 180 L - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _i /I _N	T _i /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	22.00	-/-	41.50	1475	142.0	94.5	95.0	94.8	0.81	0.75	0.64	7.7	2.9	3.8	IE4
690	Y	50	22.00	-/-	24.00	1475	142.0	94.5	95.0	94.8	0.81	0.75	0.64	7.7	2.9	3.8	IE4
460	Δ	60	25.30	-/-	41.00	1775	136.0	94.5	94.8	94.6	0.82	0.77	0.67	7.8	2.8	3.7	IE4
460	Δ	60	22.00	-/-	37.00	1778	118.0	94.5	94.6	94.0	0.79	0.73	0.61	8.9	3.1	4.3	IE4
IM B3 / IM 1001		FS 180 L				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 34.7 s 48.1 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62 / 75 dB(A) ^{2) 3)}	76 / 87 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1800 kg m ²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} $F_{Rad min}$ for coupling operation	40000 h	32000 h	Frame material	cast iron
50 60Hz ¹⁾			Net weight of the motor (IM B3)	192 kg
Regreasing device	Without		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	With (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

Notes:

I_A/I_N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_A/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_K/M_N = break down torque / nominal torque		

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
DI MC LVM		DT Configurator			
	document type				document status
	datasheet				released
	title				document number
	1LE1504-1EB43-4AB4				
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