

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



Motor type : 1CV1184B

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)																		
380	Δ	50	22.00	-/-	45.00	1465	143.0	89.9	90.8	90.7	0.83	0.78	0.67	8.0	2.7	3.6	IE1	
660	Y	50	22.00	-/-	26.00	1465	143.0	89.9	90.8	90.7	0.83	0.78	0.67	8.0	2.7	3.6	IE1	
440	Δ	60	25.30	-/-	43.50	1765	137.0	91.0	91.7	91.5	0.84	0.79	0.69	8.2	2.7	3.6	IE1	
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) : 7.7 s 13.9 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 76 dB(A) ^{2) 3)}	66 / 79 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1300 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 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	No		Net weight of the motor (IM B3)	170 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Yes (standard)		Motor protection	(A) without (Standard)
External earthing terminal	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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
Contact screw thread	M5	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L10mh according to DIN ISO 281 10/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 	
	document type datasheet				document status released		
	title 1LE1502-1EB43-3AA4-Z B02+D22+F74+M11				document number		
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B02	Acceptance test certificate 3.1 acc. to EN 10204	F74	Sheet steel fan cowl
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	M11	Stainless steel rating plate

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