

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



Motor type : 1CV2184B

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	1465	143.0	91.6	92.2	91.9	0.84	0.79	0.69	7.3	2.6	3.5	IE2
690	Y	50	22.00	-/-	24.00	1465	143.0	91.6	92.2	91.9	0.84	0.79	0.69	7.3	2.6	3.5	IE2
460	Δ	60	25.30	-/-	40.50	1765	137.0	92.4	92.9	92.5	0.85	0.80	0.72	7.5	2.6	3.4	IE2
460	Δ	60	22.00	-/-	36.00	1770	119.0	92.4	92.5	91.8	0.83	0.78	0.68	8.4	3.0	3.9	IE2
IM B3 / IM 1001		FS 180 L				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 9.79 s 18.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 76 dB(A) ²⁾	72 / 79 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.1300 kg m ²		Thermal class	F
Bearing DE NDE	6210 Z C3	6210 Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad} min ¹⁾ for coupling operation	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	170 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Yes (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
Contact screw thread	M5	Cable gland	2 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	datasheet			document status			
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Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	D47	TR CU product safety certificate EAC for the Eurasian Customs Union
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Notes:

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