

SIMOTICS SD - 180 M - IM B3 - 4p

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

Remarks

Safe Area

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\varphi^{3)}$			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	18.50	-/-	37.00	1468	120.0	89.3	90.2	90.2	0.85	0.82	0.73	7.3	2.2	3.1	IE1
660	Y	50	18.50	-/-	21.50	1468	120.0	89.3	90.2	90.2	0.85	0.82	0.73	7.3	2.2	3.1	IE1
440	Δ	60	21.30	-/-	36.00	1768	115.0	91.0	91.9	91.8	0.85	0.82	0.74	7.6	2.2	3.2	IE1
IM B3 / IM 1001			FS 180 M			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 9 s 14.9 s								

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 76 dB(A) ^{2) 3)}	65 / 79 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1300 kg m²		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 position	top	Max. cross-sectional area	16 mm²
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_r/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_r/M_n = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_n = break down torque / nominal torque		

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			
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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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