

SIMOTICS SD - 180 M - IM B3 - 2p

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

Remarks

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	
400	Δ	50	22.00	-/-	40.00	2940	71.0	91.3	91.8	91.3	0.87	0.83	0.74	7.4	2.7	3.6	IE2
690	Y	50	22.00	-/-	23.00	2940	71.0	91.3	91.8	91.3	0.87	0.83	0.74	7.4	2.7	3.6	IE2
460	Δ	60	24.50	-/-	39.00	3540	66.0	91.0	91.2	90.3	0.87	0.83	0.75	7.7	2.8	3.8	IE2
460	Δ	60	22.00	-/-	35.50	3550	59.0	91.0	91.2	90.3	0.86	0.82	0.74	8.4	3.0	4.1	IE2
IM B3 / IM 1001			FS 180 M		145 kg		IP55	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 10.4 s | 19.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77.0 / 84.0 dB(A) ²⁾	80.0 / 87.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.0690 kg m ²		Vibration severity grade	A
Bearing DE NDE	6310 C3	6310 C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	15 g 10 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	19.0 mm - 28.0 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
M_A/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.			
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Special design

Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings	S03	Special paint finish in sea air resistant C4
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