

SIMOTICS SD - 160 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	$\eta^{3)}$			$\cos\varphi^{3)}$			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_A/I_N	T_A/T_N	T_B/T_N	
400	Δ	50	15.00	-/-	27.00	2955	48.5	90.3	90.7	90.0	0.88	0.83	0.73	7.6	2.4	3.4	IE2
690	Y	50	15.00	-/-	15.80	2955	48.5	90.3	90.7	90.0	0.88	0.83	0.73	7.6	2.4	3.4	IE2
460	Δ	60	17.30	-/-	27.00	3555	46.5	91.0	91.3	90.3	0.89	0.87	0.81	7.6	2.4	3.4	IE2
460	Δ	60	15.00	-/-	24.00	3565	40.0	90.2	90.0	88.6	0.87	0.84	0.76	8.4	2.8	3.9	IE2
IM B3 / IM 1001			FS 160 M		104 kq		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

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

Locked rotor time (hot / cold) : 12.1 s | 23 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70.0 / 82.0 dB(A) ²⁾	77.0 / 89.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0530 kg m ²		Vibration severity grade	A
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		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	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
DI MC LVM		DT Configurator					
	document type			document status		customer	
	datasheet			released			
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