

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



Motor type : 1CD3112B

SIMOTICS XP - 112 M - IM V1 - 4p

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

II 2G Ex db eb IIC T4 Gb

-/-

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N I_f/I_N	M_A/M_N T_f/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	4.00	-/-	7.90	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
690	Y	50	4.00	-/-	4.60	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
460	Δ	60	4.00	-/-	6.90	1770	21.5	89.5	90.0	88.3	0.81	0.72	0.60	8.2	2.9	4.3	IE3
IM V1 / IM 3011		FS 112 M		IP56		IEC/EN 60034											
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 16.1 s 21.8 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62 / 70 dB(A) ^{2) 3)}	62 / 74 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.0146 kg m ²		Duty type	S1
Bearing DE NDE	6306 2Z C3	6306 2Z C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L_{10mh} , $F_{Rad min}$ 50 60Hz ¹⁾ for coupling operation	20000 h	16000 h	Net weight of the motor	78 kg
Regreasing device	Without		Motor weight incl. options	78 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F21	Cable entry	-/-
Contact screw thread	M4		

Notes:

I_A/I_N = locked rotor current / current nominal 1) L_{10mh} 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

responsible dep. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
	document type datasheet	document status released			document number
	title 1MB1553-1BB23-4GB4-Z H00+H22	rev. 951	creation date 2023-12-14		
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Special design

H00 Canopy H22 IP 56 degree of protection

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SIEMENS	document type datasheet	document status released			
	title 1MB1553-1BB23-4GB4-Z H00+H22	document number			
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