

SIMOTICS XP - 112 M - IM B5 - 4p

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

Remarks

-/-

Electrical data

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)

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	Υ	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

Converter duty (S9) - 155(F) to 155(F)

40	Δ	5	.22		5.9	125	17.4		0.90	Type of converter	Voltage source converter, general (utilized to F)
200	Δ	25	1.88		7.7	710	25.2		0.81		
400	Δ	50	4.1		8.1	1,460	26.9		0.82		
400	Δ	100	4.1		7.6	2920	13.4		0.82		

IM B5 / IM 3001

FS 112 M

IP55

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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 m²		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 for coupling operation 50 60Hz ¹⁾	40000 h	32000 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 mm²
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
 M_A/M_N = locked rotor torque / torque nominal
 M_K/M_N = break down torque / nominal torque

1) L_{10mh} 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.		Link documents	
IN LVM		SPC					
	document type			document status			
	datasheet			released			
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CD3112B

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Special design

B44 Version for converter operation with voltage source converter with operation data utilisation thermal class F

Notes:

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