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]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
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			IP55		IEC/EN 60034									

Environmental conditions : -20 °C - +40 °C / 1000 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)	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 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			

SIEMENS

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	R10	Rotation of the terminal box through 90°, entry from DE
H00	Canopy		

Notes:

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