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

Motor type : 1CD3162D **SIMOTICS XP - 160 M - IM B3 - 8p**

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)																	
380	Δ	50	3.48	-/-	8.70	730	45.5	85.4	85.8	85.0	0.71	0.65	0.52	5.4	1.8	2.4	IE3
660	Y	50	3.48	-/-	5.00	730	45.5	85.4	85.8	85.0	0.71	0.65	0.52	5.4	1.8	2.4	IE3
440	Δ	60	3.21	-/-	7.20	885	34.6	86.6	86.1	83.8	0.67	0.60	0.47	6.7	2.3	3.0	IE3
IM B3 / IM 1001			FS 160 M			IP55		IEC/EN 60034									

Environmental conditions : -20 °C - +55 °C / 1000 m

Locked rotor time (hot / cold) : 45.1 s | 61.3 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	65 / 73 dB(A) 2) 3)	69.3 / 77.3 dB(A) 2) 3)
Moment of inertia	0.0782 kg m²	
Bearing DE | NDE	6309 C3	6309 C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Regreasing device	Without	
Grease nipple	-/-	
Type of bearing	Locating bearing DE	
Condensate drainage holes	Without	
External earthing terminal	With (standard)	
Vibration severity grade	A	

Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor	157 kg
Motor weight incl. options	157 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(A) without (Standard)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top
Material of terminal box	cast iron
Type of terminal box	TB1 J21
Contact screw thread	M5

Max. cross-sectional area	16 mm²
Cable diameter from ... to ...	19 mm - 28 mm
Cable entry	-/-

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	
IN LVM		SPC		

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

Link documents

SIEMENS

document type	document status
datasheet	released
title	document number
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rev.	creation date	language	Page
953	2024-02-06	en	1/2

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced

Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*		Link documents
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