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

Motor type : 1CV3184B **SIMOTICS XP - 180 L - IM V1 - 4p**

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

II 3G Ex ec IIC T3 Gc

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	22.00	-/-	41.00	1470	143.0	93.0	93.6	93.6	0.83	0.78	0.68	6.8	2.3	3.3	IE3
690	Y	50	22.00	-/-	24.00	1470	143.0	93.0	93.6	93.6	0.83	0.78	0.68	6.8	2.3	3.3	IE3
460	Δ	60	25.30	-/-	41.00	1770	136.0	93.6	94.1	94.0	0.83	0.78	0.69	6.9	2.2	3.2	IE3
460	Δ	60	22.00	-/-	36.50	1775	118.0	93.6	93.8	93.3	0.81	0.75	0.65	7.7	2.8	3.7	IE3
IM V1 / IM 3011			FS 180 L			IP55		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

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

Locked rotor time (hot / cold) : 26.4 s | 41.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	68 / 75 dB(A) 2) 3)	70 / 77 dB(A) 2) 3)	
Moment of inertia	0.1400 kg m²		
Bearing DE | NDE	6210 2Z C3	6210 2Z C3	
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	20000 h	16000 h	
Regreasing device	Without		
Grease nipple	-/-		
Type of bearing	Locating bearing NDE		
Condensate drainage holes	With (standard)		
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 (IM B3)	170 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-2xM16x1,5
Contact screw thread	M5		

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
1MB1533-1EB43-4GB4-Z **B02+H00**	

rev.	creation date	language	Page
953	2024-03-06	en	1/2

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	H00	Canopy

Notes:

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