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

Motor type : 1AV3130B **SIMOTICS GP - 132 S - IM B5 - 4p**

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

Electrical data

Safe Area

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_l/I_N	M_A/M_N T_l/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	5.50	-/-	18.80	1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
400	Y	50	5.50	-/-	10.80	1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
460	Y	60	6.30	-/-	10.40	1770	34.0	91.7	92.0	91.3	0.83	0.79	0.69	8.7	2.7	3.7	IE3
460	Y	60	5.50	-/-	9.30	1775	29.5	91.7	91.6	90.5	0.81	0.76	0.65	10.0	3.1	4.2	IE3

IM B5 / IM 3001	FS 132 S	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 22.8 s | 29.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	64 / 76 dB(A) 2) 3)	68 / 80 dB(A) 2) 3)
Moment of inertia	0.0340 kg m²	
Bearing DE | NDE	6208 2Z C3	6208 2Z C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Lubricants	Unirex N3	
Regreasing device	No	
Grease nipple	-/-	
Type of bearing	Preloaded bearing DE	
Condensate drainage holes	Yes (standard)	
External earthing terminal	No	

Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	aluminum
Net weight of the motor (IM B3)	54 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	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

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) L10mh 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
DI MC LVM		DT Configurator			

SIEMENS

document type	document status
datasheet	released
title	document number
1LE1003-1CB02-2FB4-Z	
F01+F12+F50+F70+N30	

rev.	creation date	language	Page
929	2022-11-24	en	1/2

© Siemens AG 2022

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

Motor type : 1AV3130B **SIMOTICS GP - 132 S - IM B5 - 4p**

Special design

F01	Mounting a brake	F70	Mounting of separately driven fan
F12	Brake supply voltage 400 V AC, 50/60 Hz	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
F50	Mechanical manual brake release with lever (cannot be locked)		

Additional information:

Brake:

Description:	BFK458-16	Current:	.31 A
Voltage:	AC 400 V	Moment of inertia:	0.001500 kgm²

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
SIEMENS	document type datasheet			document status released	
	title 1LE1003-1CB02-2FB4-Z F01+F12+F50+F70+N30			document number	
© Siemens AG 2022			rev. 929	creation date 2022-11-24	language en / Page 2/2