

SIMOTICS XP - 100 L - 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)

460	Y	60	2.20	-/-	3.85	1760	11.9	89.5	89.5	88.0	0.80	0.73	0.61	9.9	3.5	4.6	IE3

IM B5 / IM 3001	FS 100 L	IP65	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
-----------------	----------	------	--------------	------------------------

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

Locked rotor time (hot / cold) : 18.9 s | 23 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 75 dB(A) ^{2) 3)}	70 / 78 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0101 kg m²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad,min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	25 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5
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			
	title			document number			
	1MB1013-1AB49-0FA4-Z						
	B02+M2E			rev.	creation date	language	Page
© INNOMOTICS 2024				951	2024-01-09	en	1/2

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



Motor type : 1AV3104B

SIMOTICS XP - 100 L - IM B5 - 4p

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	M2E	460 VY for 60 Hz, 50-Hz power
-----	--	-----	-------------------------------

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](#)



SIEMENS

document type
datasheet

title
1MB1013-1AB49-OFA4-Z B02+M2E

document status
released

document number

rev.
951

creation date
2024-01-09

language
en

Page
2/2

© INNOMOTICS 2024