

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



Motor type : 1AV3105B

SIMOTICS GP - 100 L - IM B5 - 4p

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

Remarks

Electrical data	Safe Area
	-/-

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ 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)																	
400	Y	50	3.00	-/-	6.20	1450	19.8	87.7	88.1	87.1	0.80	0.73	0.60	8.0	3.1	3.8	IE3
460	Y	60	3.45	-/-	6.10	1750	18.8	87.5	88.0	87.2	0.81	0.74	0.62	9.0	3.1	4.1	IE2
460	Y	60	3.00	-/-	5.40	1760	16.3	89.5	89.4	88.0	0.78	0.70	0.58	9.9	3.5	4.7	MG1
IM B5 / IM 3001		FS 100 L				IP55	UKCA	IEC/EN 60034		IEC, EN, UL							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 12.8 s 17.6 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	0.0100 kg m ²		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)	26 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	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

Notes:			
I _A /I _N = locked rotor current / current nominal		1) L _{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal		2) at rated power / at full load	
M _K /M _N = break down torque / nominal torque			

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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Special design

D31	Version according to UL with "Recognition Mark"	F12	Brake supply voltage 400 V AC, 50/60 Hz
F01	Mounting of holding brake		

Additional information:

Brake:

Description:	BFK458-12	Current:	.22 A
Voltage:	AC 400 V	Moment of inertia:	0.000360 kgm ²

Notes:

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SIEMENS	document type datasheet	document status released					
	title 1LE1003-1AB50-2FA4-Z						
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