

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



Motor type : 1AV2096B SIMOTICS GP - 90 L - IM B3 - 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)																	
230	Δ	50	2.20	-/-	8.10	1425	14.7	84.3	85.6	85.0	0.81	0.73	0.61	6.1	2.8	3.1	IE2
400	Y	50	2.20	-/-	4.65	1425	14.7	84.3	85.6	85.0	0.81	0.73	0.61	6.1	2.8	3.1	IE2
460	Y	60	2.54	-/-	4.75	1725	14.1	83.0	84.0	83.4	0.81	0.74	0.62	6.5	2.7	3.3	IE1
460	Y	60	2.20	-/-	4.25	1740	12.1	83.0	83.4	82.1	0.78	0.70	0.58	7.2	3.2	3.9	IE1
IM B3 / IM 1001		FS 90 L				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 13.8 s 20 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58 / 62 dB(A) ²⁾	58 / 62 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0049 kg m ²		Thermal class	F
Bearing DE NDE	6205 2Z C3	6004 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad} min ¹⁾ 50 60Hz	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	21 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
Condensate drainage holes	No		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	left	Max. cross-sectional area	1.5 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal 1) L10mh 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_B/M_N = break down torque / nominal torque

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						
	document type	datasheet			document status			
					released			
	title	1LE1001-0EB62-2AF6-Z			document number			
© Siemens AG 2022	F70+G11				rev.	creation date	language	Page
					01	2022-01-12	en	1/2

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Special design

F70 Mounting of separately driven fan G11 Rotary pulse encoder Sendix 5020 (HTL)

Notes:

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