

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



Motor type : 1AV4112B

SIMOTICS GP - 112 M - IM B3 - 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⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
400	Δ	50	4.00	-/-	7.80	1465	26.0	91.1	91.6	91.0	0.81	0.75	0.63	8.3	3.1	4.3	IE4
690	Y	50	4.00	-/-	4.55	1465	26.0	91.1	91.6	91.0	0.81	0.75	0.63	8.3	3.1	4.3	IE4
460	Δ	60	4.55	-/-	7.60	1765	24.5	91.0	91.3	90.6	0.82	0.76	0.65	8.5	3.0	4.3	IE4
460	Δ	60	3.70	-/-	6.50	1770	20.0	91.0	90.8	89.5	0.78	0.71	0.58	10.0	3.7	5.4	IE4

IM B3 / IM 1001		FS 112 M	46 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN		
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 20.4 s | 26 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) ²⁾	68 / 80 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0200 kg m ²		Vibration severity grade	A
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} , F _{Rad min} 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	No		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
M_K/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.
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
	title	document number		
	1LE1004-1BB23-4AB4-Z			
	802			
© Siemens AG 2021		rev.	creation date	language
		01	2021-07-28 12:31	en
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Special design

B02 Acceptance test certificate 3.1 acc. to EN 10204

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