

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



Motor type : 1AV3112A

SIMOTICS GP - 112 M - IM B3 - 2p

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⁾			$\cos\phi$ ³⁾			I_A/I_N I_i/I_N	M_A/M_N T_i/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
380	Δ	50	4.00	-/-	7.80	2950	12.9	88.1	88.7	88.2	0.89	0.86	0.78	8.7	2.5	4.0	IE3
660	Y	50	4.00	-/-	4.45	2950	12.9	88.1	88.7	88.2	0.89	0.86	0.78	8.7	2.5	4.0	IE3
440	Δ	60	4.55	-/-	7.50	3550	12.2	88.5	88.7	87.6	0.90	0.87	0.81	9.0	2.6	4.1	IE3
440	Δ	60	3.70	-/-	6.20	3560	9.9	88.5	88.0	86.2	0.88	0.84	0.76	10.8	3.2	5.1	IE3

IM B3 / IM 1001	FS 112 M	34 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1,000 m				Locked rotor time (hot / cold) : 11.3 s 14.9 s	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69.0 / 81.0 dB(A) ²⁾	73.0 / 85.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0120 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} $F_{Rad, min}$ for coupling operation 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	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11.0 mm - 21.0 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_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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	
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