

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



Motor type : 1AV2106B

SIMOTICS GP - 100 L - 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⁾			$\cos\phi$ 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				
230	Δ	50	4.00	-/-	14.50	1460	26.0	86.6	88.0	87.5	0.80	0.74	0.62	7.5	2.2	3.5	IE2
400	Y	50	4.00	-/-	8.30	1460	26.0	86.6	88.0	87.5	0.80	0.74	0.62	7.5	2.2	3.5	IE2
460	Y	60	4.55	-/-	8.10	1760	24.5	87.5	88.6	88.1	0.81	0.76	0.65	7.9	2.2	3.4	IE2
460	Y	60	3.70	-/-	7.00	1770	20.0	87.5	87.7	86.3	0.76	0.69	0.57	9.2	2.8	4.3	IE2
IM B3 / IM 1001		FS 100 L		30 kg		IP55		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -30 °C - + °C / 1,000 m

Locked rotor time (hot / cold) : 7.85 s | 12.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60.0 / 72.0 dB(A) ²⁾	62.0 / 74.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0140 kg m ²		Vibration severity grade	A
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Insulation	155(F) to 155(F)
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	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC418 - without fan and without housing fan

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
Contact screw thread	M4	Cable gland	2 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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Special design

D04	Minimum ambient temperature -30°C	N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature
F90	Without external fan and without external fan cover	Y99	special motor design
H08	Terminal box at the NDE		

Notes:

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