

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



Motor type : 1AV3104C

SIMOTICS GP - 100 L - IM V5 - 6p

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]	$\eta^{3)}$			$\cos\varphi^{3)}$			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	
220	Δ	50	1.50	-/-	6.50	970	14.8	82.5	83.1	81.5	0.73	0.65	0.52	5.2	1.9	2.8	IE3
380	Y	50	1.50	-/-	3.80	970	14.8	82.5	83.1	81.5	0.73	0.65	0.52	5.2	1.9	2.8	IE3
440	Y	60	1.75	-/-	3.60	1170	14.3	86.5	87.2	85.8	0.74	0.67	0.54	5.5	1.9	2.8	IE2
440	Y	60	1.50	-/-	3.30	1175	12.2	86.5	86.3	84.1	0.69	0.61	0.48	6.0	2.1	3.1	IE2
IM V5 / IM 1011		FS 100 L		25 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - + °C / 1,000 m

Locked rotor time (hot / cold) : 26.1 s | 34.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	59.0 / 71.0 dB(A) ²⁾	62.0 / 74.0 dB(A) ²⁾	External earthing terminal	Yes
Moment of inertia	0.0110 kg m ²		Vibration severity grade	A
Bearing DE NDE	6206 Z C3	6206 Z C3	Insulation	180(H) to 180(H)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	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	4.0 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	1 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		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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Special design

D47	TR CU product safety certificate EAC for the Eurasian Customs Union	M01	Connection when shipped, star connection
F74	Sheet steel fan cowl	M11	Stainless steel rating plate
F76	Metal external fan	N11	Temperature class 180(H), and coolant temperature max. 60°C
H04	External grounding at housing	R15	One metal cable gland

Notes:

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