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

Motor type : 1AV3105B **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) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	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
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	3.00	-/-	6.50	1450	19.8	87.7	88.1	87.1	0.80	0.73	0.60	8.0	3.1	3.8	IE3
660	Y	50	3.00	-/-	3.75	1450	19.8	87.7	88.1	87.1	0.80	0.73	0.60	8.0	3.1	3.8	IE3
440	Δ	60	3.45	-/-	6.40	1750	18.8	87.5	88.0	87.2	0.81	0.74	0.62	9.0	3.1	4.1	IE2
440	Δ	60	3.00	-/-	5.60	1760	16.3	89.5	89.4	88.0	0.78	0.70	0.58	9.9	3.5	4.7	IE3
IM B3 / IM 1001			FS 100 L			IP55	UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 12.8 s | 17.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	60 / 72 dB(A) 2) 3)	62 / 74 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0100 kg m²		Thermal class	F
Bearing DE | NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	Frame material	aluminum
Regreasing device	No		Net weight of the motor (IM B3)	26 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	No		Motor protection	(A) without (Standard)
External earthing terminal	No		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 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.	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			

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Special design

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

Notes:

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