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

Motor type : 1AV3104B **SIMOTICS GP - 100 L - IM B5 - 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)																	
220	Δ	50	2.20	-/-	8.10	1455	14.4	86.7	87.2	86.3	0.82	0.76	0.64	8.3	3.0	3.8	IE3
380	Y	50	2.20	-/-	4.70	1455	14.4	86.7	87.2	86.3	0.82	0.76	0.64	8.3	3.0	3.8	IE3
440	Y	60	2.55	-/-	4.50	1750	13.9	89.5	90.1	89.2	0.83	0.77	0.66	8.8	3.0	3.9	IE3
440	Y	60	2.20	-/-	4.05	1760	11.9	89.5	89.5	88.0	0.80	0.73	0.61	9.9	3.5	4.6	IE3
IM B5 / IM 3001			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) : 18.9 s | 23 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	0.0101 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	Without		Net weight of the motor (IM B3)	25 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self 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 F10	Cable entry	Han-Drive 10e
Contact screw thread	M4	Cable gland	connector

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

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Special design

R70	Motor connector Han-Drive 10e for 230 VD/400 VY

Notes:

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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