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

Motor type : 1AV3162B **SIMOTICS GP - 160 M - 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
400	Δ	50	11.00	-/-	20.50	1475	71.0	91.4	91.8	91.2	0.84	0.79	0.69	7.6	2.6	3.4	IE3
460	Δ	60	12.60	-/-	20.00	1770	68.0	92.4	92.6	92.0	0.85	0.81	0.72	7.9	2.6	3.3	IE3
460	Δ	60	11.00	15.00	18.00	1775	59.0	92.4	92.3	91.1	0.83	0.78	0.67	8.9	3.0	3.8	MG1

IM B5 / IM 3001	FS 160 M	83 kg	IP55	CC032A	IEC/EN 60034	IEC, EN, UL, CSA, NEMA MG1-12-12	kVA Code: M

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

Locked rotor time (hot / cold) : 23.7 s | 31.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	65.0 / 77.0 dB(A) 2)	69.0 / 81.0 dB(A) 2)	External earthing terminal	No
Moment of inertia	0.0710 kg m²		Vibration severity grade	A
Bearing DE | NDE	6209 2Z C3	6209 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	Locating bearing NDE		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	16.0 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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