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

Motor type : 1AV3112B **SIMOTICS GP - 112 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	4.00	-/-	7.90	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
690	Y	50	4.00	-/-	4.60	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
460	Δ	60	4.55	-/-	7.70	1760	24.5	89.5	90.0	89.3	0.83	0.78	0.67	7.3	2.5	3.8	IE3
460	Δ	60	3.70	-/-	6.50	1770	20.0	89.5	89.4	87.7	0.80	0.73	0.61	8.2	2.9	4.3	IE3

IM B5 / IM 3001	FS 112 M	34 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

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

Locked rotor time (hot / cold) : 16 s | 21.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	58.0 / 70.0 dB(A) 2)	62.0 / 74.0 dB(A) 2)
Moment of inertia	0.0170 kg m²	
Bearing DE | NDE	6206 2Z C3	6206 2Z C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Lubricants	Unirex N3	
Regreasing device	No	
Grease nipple	-/-	
Type of bearing	Preloaded bearing DE	
Condensate drainage holes	No	

External earthing terminal	No
Vibration severity grade	A
Insulation	155(F) to 130(B)
Duty type	S1
Direction of rotation	bidirectional
Frame material	aluminum
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(A) without (Standard)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm²
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.	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.*

SIEMENS

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