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

Motor type : 1AV1112C **SIMOTICS GP - 112 M - IM B5 - 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]	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
230	Δ	50	2.20	-/-	9.90	940	22.5	77.7	78.4	76.6	0.72	0.64	0.51	4.6	2.6	2.7	IE1
400	Y	50	2.20	-/-	5.70	940	22.5	77.7	78.4	76.6	0.72	0.64	0.51	4.6	2.6	2.7	IE1
460	Y	60	2.54	-/-	5.60	1140	21.5	78.5	79.2	77.8	0.73	0.65	0.53	5.1	2.6	2.8	IE1

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

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 14.4 s | 27.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	57 / 69 dB(A) 2)	60 / 72 dB(A) 2)	Vibration severity grade	A
Moment of inertia	0.0092 kg m²		Insulation	155(F) to 130(B)
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
Lubricants	Unirex N3		Net weight of the motor (IM B3)	25 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

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	
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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