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

Motor type : 1AV3112C **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_l/I_N	M_A/M_N T_l/T_N	M_K/M_N T_B/T_N	IE-CL
400	Δ	50	2.20	-/-	5.00	970	21.5	84.3	85.0	83.9	0.75	0.68	0.55	5.6	2.2	2.8	IE3
690	Y	50	2.20	-/-	2.90	970	21.5	84.3	85.0	83.9	0.75	0.68	0.55	5.6	2.2	2.8	IE3
460	Δ	60	2.54	-/-	4.90	1170	21.0	87.5	88.1	87.1	0.75	0.68	0.56	5.9	2.2	2.8	IE2
460	Δ	60	2.20	-/-	4.40	1175	17.9	87.5	87.4	85.6	0.72	0.64	0.52	6.5	2.5	3.3	IE2
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) : 26.8 s | 34.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	65.0 / 74.0 dB(A) 2)	65.0 / 77.0 dB(A) 2)	External earthing terminal	No
Moment of inertia	0.0170 kg m²		Vibration severity grade	A
Bearing DE | NDE	6206 2Z C3	6206 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	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	-/-		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	document type: datasheet		document status: released		customer
	title: **1LE1003-1BC23-4FA4-Z**		document number		
	B02	rev. 01	creation date 2021-04-21 20:45	language en	Page 1/2

© Siemens AG 2021

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

Motor type : 1AV3112C **SIMOTICS GP - 112 M - IM B5 - 6p**

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204

Notes:

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	document type: datasheet		document status: released		customer
	title: 1LE1003-1BC23-4FA4-Z		document number		
© Siemens AG 2021	B02	rev. 01	creation date 2021-04-21 20:45	language en	Page 2/2