

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	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	4.00	-/-	13.80	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
400	Y	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
460	Y	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	Y	60	3.70	5.00	6.50	1770	20.0	89.5	89.4	87.7	0.80	0.73	0.61	8.2	2.9	4.3	MG1
IM B5 / IM 3001		FS 112 M				IP55	CC032A	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12				kVA Code: M			
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 / 70 dB(A) ²⁾	62 / 74 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0170 kg m ²		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
Lubricants	Unirex N3		Net weight of the motor (IM B3)	34 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 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _A /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _K /M _N = break down torque / nominal torque		

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							
	document type			document status					
	datasheet			released					
© Siemens AG 2022	title			document number					
	1LE1023-1BB22-2FA4-Z								
	F01+F10			rev.	creation date			language	Page
				01	2022-04-07	en	1/2		

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



Motor type : 1AV3112B

SIMOTICS GP - 112 M - IM B5 - 4p

Special design

F01 Mounting a brake F10 Brake supply voltage 24 V DC

Additional information:

Brake:

Description: BFK458-14 Current: 2.1 A
Voltage: DC 24 V Moment of inertia: 0.000630 kgm²

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
	document type datasheet				document status released
	title 1LE1023-1BB22-2FA4-Z F01+F10				document number
© Siemens AG 2022				rev. 01	creation date 2022-04-07
				language en	Page 2/2

