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

Environmental conditions : $-20 \,^{\circ}\text{C}$ - $+50 \,^{\circ}\text{C}$ / 1,000 m

Locked rotor time (hot / cold): 8.85 s | 14.5 s

Motor type : 1AV2112B	SIMOTICS GP - 112 M - IM V1 - 4p
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Wiotor type . IAVZ112B	Silviones di - 112 ivi - livi vi - 4p	
Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Electrical data Safe Area																	
U	Δ/Υ	f	Р	Р	1	n	М	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	
400	Δ	50	3.68	-1-	7.80	1460	24.1	86.8	87.1	85.8	0.79	0.71	0.57	7.7	2.7	3.5	IE2
690	Y	50	3.68	-/-	4.50	1460	24.1	86.8	87.1	85.8	0.79	0.71	0.57	7.7	2.7	3.5	IE2
460	Δ	60	4.18	-/-	7.50	1760	22.7	87.7	87.7	86.2	0.80	0.73	0.59	8.2	2.6	3.5	IE2
460	Δ	60	3.70	-/-	6.90	1770	20.0	87.5	87.2	85.1	0.77	0.69	0.56	8.7	3.0	4.0	IE2
IM V1 / II	M 3011		FS 112 N	1	29 kg	IP65		IEC/EN 60034 IEC, DIN, ISO, VDE, EN									

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58.0 / 70.0 dB(A) ²⁾	62.0 / 74.0 dB(A) ²⁾	External earthing terminal	No		
Moment of inertia	0.0140 kg m² V		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 I		Direction of rotation	bidirectional		
Lubricants	Unirex N3		Frame material	aluminum		
Regreasing device	No		Coating (paint finish)	Special paint finish C3		
Grease nipple	-/-		Color, paint shade	RAL7030		
Type of bearing	Preloaded bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)		
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled		

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm ²
Material of terminal box	Aluminium	Cable diameter from to	11.0 mm - 21.0 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
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 Technical data are subject to change! There may be discrepancies responsible dep. technical reference created by approved by between calculated and rating plate values. DI MC LVM **DT** Configurator document type document status **SIEMENS** datasheet released document number 1LE1001-1BB23-4GB4-Z H20+N06+N31 rev. creation date Page © Siemens AG 2021 2021-04-22 12:19

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Motor type : 1AV2112B		SIMOTICS GP -	112 M - IM	V1 - 4p					
Special de	esign								
H20 N06	IP 65 degree of protec	tion 5 (F), utilised to 130 (B), cod wer reduced	oling medium	N31	Increased air humid	dity/temp	perature with 60 to 1	00 g water	per m3 air
Notes:									
responsible of		technical reference	created by DT Configurator	approved l		Technical data are subject to chang between calculated and rating pla			
SIE	MENS	document type datasheet title 1LE1001-1BB23-4GB4-	Z		document status released document number			customer	
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