

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



Motor type : 1CE3112A

SIMOTICS XP - 112 M - IM V1 - 2p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

II 2G Ex eb IIC T1-T3 Gb																			
Electrical data																			
Tc	U [V]	Δ / Y	f [Hz]	P [kW]	I [A]	n [1/min]	M [Nm]	t _E -time (s)		η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								T1/T2	T3	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
T1/ T2	230	Δ	50	3.30	11.30	2940	10.7	0		87.4	87.6	87.3	0.92	0.91	0.86	7.3	1.9	2.9	IE3
	400	Y	50	3.30	6.50	2940	10.7	0		87.4	87.6	87.3	0.92	0.91	0.86	7.3	1.9	2.9	IE3
T3	230	Δ	50	3.30	11.30	2940	10.7	10	9	87.4	87.6	87.3	0.92	0.91	0.86	7.3	1.9	2.9	IE3
	400	Y	50	3.30	6.50	2940	10.7	10	9	87.4	87.6	87.3	0.92	0.91	0.86	7.3	1.9	2.9	IE3
IM V1 / IM 3011				FS 112 M			IP56			IEC/EN 60034									
Environmental conditions : -20 °C - +40 °C / 1,000 m																			

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 81 dB(A) ^{2) 3)}	80 / 88 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0120 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⁾	20000 h	16000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	43 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F21	Cable entry	2xM32x1,5
Contact screw thread	M4		

Notes:		
I_L/I_N = locked rotor current / current nominal	1) L_{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_L/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		
IN LVM		SPC						
	document type	datasheet			document status			
					released			
	title	1MB1543-1BA22-2GA4-Z			document number			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	H22	IP 56 degree of protection
H00	Canopy	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
H07	Stainless steel screws and bolts (outside the motor)	Y82	Auxiliary name plate with customer data

Notes:

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