

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



Motor type : 1AV3131A SIMOTICS XP - 132 S - IM B5 - 2p

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

II 2D Ex tb IIIC T 120°C Db																	
-/-																	
Electrical data																	
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)																	
400	Δ	60	7.91	-/-	13.80	3550	21.3	90.3	90.4	89.7	0.92	0.90	0.83	9.1	2.3	4.5	IE3
690	Y	60	7.91	-/-	8.00	3550	21.3	90.3	90.4	89.7	0.92	0.90	0.83	9.1	2.3	4.5	IE3
400	Δ	60	7.50	-/-	13.20	3555	20.0	90.2	90.5	90.0	0.91	0.90	0.84	9.5	2.4	4.7	IE3
690	Y	60	7.50	-/-	7.60	3555	20.0	90.2	90.5	90.0	0.91	0.90	0.84	9.5	2.4	4.7	IE3
IM B5 / IM 3001			FS 132 S		IP65			IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +50 °C / 1000 m									Locked rotor time (hot / cold) : 12.7 s 17.3 s								
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	68 / 80 dB(A) ^{2) 3)}	72 / 84 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	0.0310 kg m ²		Vibration severity grade	A
Bearing DE NDE	6208 Z C3	6208 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	10 g 10 g	4000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	57 kg
Regreasing device	With		Coating (paint finish)	Standard paint finish C2
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H00	Cable entry	2xM32x1,5
Contact screw thread	M4		

Notes:			
I _A /I _N = locked rotor current / current nominal M _L /M _N = locked rotor torque / torque nominal M _K /M _N = break down torque / nominal torque		1) L _{10mh} 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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents		
IN LVM		SPC						
SIEMENS	document type	datasheet			document status			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L23	Regreasing system
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced

Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
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