

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



Motor type : 1CV3222D SIMOTICS XP - 225 M - IM B3 - 8p

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

Remarks

Electrical data II 3G Ex ec IIC T3 Gc
-/-

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)																	
480	Δ	60	24.38	-/-	41.50	880	264.6	91.2	91.6	91.0	0.77	0.71	0.59	6.4	2.6	3.0	IE2
480	Δ	60	22.00	-/-	38.00	886	235.0	91.7	91.8	90.8	0.76	0.69	0.58	6.8	2.9	3.3	IE3
415	Δ	50	20.24	-/-	41.50	730	264.8	90.9	91.4	91.1	0.75	0.68	0.55	6.4	2.8	3.1	IE3
IM B3 / IM 1001		FS 225 M				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +50 °C / 1000 m									Locked rotor time (hot / cold) : 22.2 s 33 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	56 / 70 dB(A) ^{2) 3)}	60 / 74 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.5500 kg m²		Thermal class	F
Bearing DE NDE	6213 Z C3	6213 Z 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	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	280 kg
Grease nipple	-/-		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	left	Max. cross-sectional area	35 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M8		

Notes:
I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/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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	title	1MB1533-2BD29-0AB6-Z			document number		
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B02	Acceptance test certificate 3.1 acc. to EN 10204	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
M1L	480 VD for 60 Hz, 60-Hz power	S03	Special paint finish in sea air resistant C4
N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced		

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