

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



Motor type : 1CD3220B SIMOTICS XP - 225 S - IM B3 - 4p

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

Remarks

Electrical data II 2G Ex db eb IIC T4 Gb
-/-

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	50	37.00	-/-	66.00	1480	240.0	93.9	94.3	93.9	0.86	0.83	0.75	6.5	2.6	2.6	IE3
690	Y	50	37.00	-/-	38.50	1480	240.0	93.9	94.3	93.9	0.86	0.83	0.75	6.5	2.6	2.6	IE3
460	Δ	60	37.00	-/-	58.00	1782	198.0	94.5	94.3	93.2	0.85	0.81	0.73	7.7	2.9	3.0	IE3
IM B3 / IM 1001			FS 225 S				IP55			IEC/EN 60034							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 40.9 s 62.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 79 dB(A) ^{2) 3)}	66 / 80 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.4690 kg m ²		Duty type	S1
Bearing DE NDE	6313 C3	6313 C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor	449 kg
Regreasing device	Without		Motor weight incl. options	449 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

Terminal box

Terminal box position	top	Max. cross-sectional area	50 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L21	Cable entry	-/-
Contact screw thread	M8		

Notes:
I_A/I_N = locked rotor current / current nominal
M_K/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				document status
	datasheet				released
	title				document number
	1MB1553-2BB03-4AA4				
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		951	2023-12-14	en	1/1