

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



Motor type : 1CV3220B

SIMOTICS SD Premium Insulation - 225 S - IM B3 - 4p

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

Remarks

Electrical data

Safe Area

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	
400	Δ	50	37.00	-/-	68.00	1482	240.0	93.9	94.3	94.0	0.84	0.81	0.72	8.3	3.2	3.1	IE3
690	Y	50	37.00	-/-	39.50	1482	240.0	93.9	94.3	94.0	0.84	0.81	0.72	8.3	3.2	3.1	IE3
460	Δ	60	42.50	-/-	66.00	1782	230.0	95.0	95.3	95.0	0.85	0.82	0.74	8.4	3.1	3.1	IE3
460	Δ	60	37.00	-/-	59.00	1786	198.0	94.5	94.6	94.0	0.83	0.79	0.70	9.6	3.6	3.5	IE3
IM B3 / IM 1001		FS 225 S		380 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN				KS C IEC60034-2-1			

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 24.9 s | 35.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 78.0 dB(A) ²⁾	68.0 / 82.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.5200 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 213	6213 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(F) 1 temperature sensor KTY84-130 (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	35.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M8	Cable gland	4 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 _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /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.			
DI MC LVM		DT Configurator					
	document type	datasheet		document status		customer	
				released			
	title	1LE1583-2BB03-4AF4-Z		document number			
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	01			2021-04-21 15:53	en	1/2	

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Special design

L22	Bearing design for increased cantilever forces	Q23	Motor temperature sensing with integrated KTY 84-130 temperature sensor
L51	Bearing insulation NDE		

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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