

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	
DOL duty (S1) - 155(F) to 130(B)																	
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	-/-	67.00	1782	230.0	93.6	93.9	93.6	0.85	0.82	0.74	8.4	3.1	3.1	IE2
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				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) : 25.5 s 36 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 78 dB(A) ^{2) 3)}	68 / 82 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	0.5200 kg m ²		Vibration severity grade	A
Bearing DE NDE	6313 C3	6313 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation 50 60Hz	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	20 g 20 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	380 kg
Regreasing device	with regreasing nipple		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 71412 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 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 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	Cable gland	4 plugs

Notes:		
I_L/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_L/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.		Link documents		
DI MC LVM		DT Configurator						
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Special design

L19 Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A L25 Double sides reinforced bearings for DE and NDE, Type 63

Notes:

responsible dep.

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[Link documents](#)

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