

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



Motor type : 1CV3205D

SIMOTICS SD Premium Insulation - 200 L - IM B3 - 8p

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	15.00	-/-	33.00	730	196.0	89.6	89.8	89.1	0.73	0.66	0.53	6.8	3.0	3.7	IE3
690	Y	50	15.00	-/-	19.20	730	196.0	89.6	89.8	89.1	0.73	0.66	0.53	6.8	3.0	3.7	IE3
460	Δ	60	18.00	-/-	34.00	875	196.0	90.2	90.5	89.8	0.74	0.68	0.56	6.8	2.8	3.5	IE3
460	Δ	60	15.00	-/-	30.00	882	162.0	90.2	90.0	88.9	0.70	0.62	0.50	7.7	3.4	4.2	IE3
IM B3 / IM 1001		FS 200 L				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) : 22.9 s | 32.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	57 / 70 dB(A) ^{2) 3)}	60 / 73 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.4200 kg m ²		Thermal class	F
Bearing DE NDE	6312 2Z C3	6312 2Z 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
Lubricants	Unirex N3		Net weight of the motor (IM B3)	255 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	25 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
Contact screw thread	M6	Cable gland	2 plugs

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) L10mh 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	
DI MC LVM		DT Configurator					
	document type			document status			
	datasheet			released			
	title			document number			
	1LE1583-2AD53-4AA4						
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