

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



Motor type : 1CV3407C

SIMOTICS SD Add - 400 - IM B3 - 6p

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

Safe Area

-/-

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	560.00	-/-	980.00	992	5400.0	96.2	96.3	96.0	0.86	0.83	0.77	6.5	2.1	2.8	IE3
690	Y	50	560.00	-/-	570.00	992	5400.0	96.2	96.3	96.0	0.86	0.83	0.77	6.5	2.1	2.8	IE3
460	Δ	60	560.00	-/-	860.00	1195	4450.0	96.3	96.2	95.4	0.85	0.82	0.73	7.4	2.3	3.2	IE3
460	Δ	60	644.00	-/-	980.00	1193	5200.0	96.2	96.4	96.0	0.86	0.84	0.78	6.5	2.0	2.7	IE3
460	Δ	60		800	920.00	1194	4750.0	96.3	96.3	95.7	0.85	0.82	0.73	6.9	2.2	3.0	MG1
IM B3 / IM1001 ₄		SF:	FS 400			IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-Part 20							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 3.04 s 7.06 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72 / 88 dB(A) ³⁾	75 / 91 dB(A) ³⁾	Condensate drainage holes	(Standard) Yes
Moment of inertia	27.8000 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	DIN625-6224-C3	DIN625-6224-C3	Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ : 6520	X _{0.5} : N/A	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} min for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Frame material	cast iron
Lubricants	SHELL GADUS S2 V100 3		Net weight of the motor	3300 kg
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	6 PTC thermistors - for alarm and tripping (4 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the angle 45°, socket right	Max. cross-sectional area	300 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	56 mm - 64.5 mm
Type of terminal box	1XB1631	Cable entry	4xM80x2 - 2xM25x1,5
Contact screw thread	12xM16	Cable gland	6 plugs

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
4) For IM B5 design additionally support foot (not scope of delivery) is required

responsible dep. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents		
	document type datasheet	document status released					
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Special design

L51 Bearing insulation NDE

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