

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



Motor type : 1CV3403C

SIMOTICS SD Pro - 400 - IM B3 - 6p

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 155(F)																					
400	Δ	50	435.00	-/-	780.00	993	4200.0	95.9	96.0	95.7	0.84	0.81	0.73	6.7	2.0	2.8	IE3				
690	Y	50	435.00	-/-	450.00	993	4200.0	95.9	96.0	95.7	0.84	0.81	0.73	6.7	2.0	2.8	IE3				
460	Δ	60	435.00	-/-	690.00	1194	3500.0	96.0	95.8	94.9	0.83	0.79	0.70	7.5	2.2	3.1	IE3				
460	Δ	60	500.00	-/-	780.00	1193	4000.0	95.9	96.0	95.6	0.84	0.82	0.75	6.6	1.9	2.7	IE3				
460	Δ	60		600	700.00	1194	3600.0	95.9	95.9	95.1	0.83	0.79	0.70	7.3	2.1	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) : 4.58 s 5.18 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	22.0000 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)	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	2900 kg
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 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.	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		
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Special design

L51 Bearing insulation NDE

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