

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



Motor type : 1CV3405C

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	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	500.00	-/-	880.00	992	4800.0	96.0	96.1	95.8	0.85	0.83	0.77	6.5	2.0	2.7	IE3	
690	Y	50	500.00	-/-	510.00	992	4800.0	96.0	96.1	95.8	0.85	0.83	0.77	6.5	2.0	2.7	IE3	
460	Δ	60	500.00	-/-	770.00	1195	4000.0	96.1	96.0	95.2	0.85	0.82	0.74	7.3	2.2	2.9	IE3	
460	Δ	60	575.00	-/-	870.00	1193	4600.0	96.0	96.1	95.8	0.86	0.84	0.79	6.5	1.9	2.5	IE3	
460	Δ	60		700	800.00	1194	4150.0	96.0	96.0	95.4	0.85	0.82	0.74	7.1	2.1	2.8	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) : 5.78 s 7.28 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	78 / 94 dB(A) ³⁾	83 / 99 dB(A) ³⁾	Condensate drainage holes	(Standard) Yes
Moment of inertia	24.7000 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	3100 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 resistance thermometers PT100 (6 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	box at the top, socket left	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	1) L _{10mh} 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	4) For IM B5 design additionally support foot (not scope of delivery) is required
M _B /M _N = break down torque / nominal torque		

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
SIEMENS	document type datasheet			document status released			
	title 1LE5533-4AC53-4AH0-Z			document number			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE
F70	Mounting of separately driven fan	Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings
G04	Mounted rotary pulse encoder LL 861 900 220	Q72	2 Pt100 resistance thermometers for bearings (4 terminals)

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