

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



Motor type : 1CV3405A

SIMOTICS SD Add - 400 - IM B3 - 2p

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	630.00	-/-	1030.00	2986	2000.0	96.6	96.7	96.6	0.91	0.90	0.85	7.0	1.6	3.0	IE3
690	Y	50	630.00	-/-	600.00	2986	2000.0	96.6	96.7	96.6	0.91	0.90	0.85	7.0	1.6	3.0	IE3
460	Δ	60	630.00	-/-	900.00	3588	1680.0	96.5	96.4	95.8	0.91	0.89	0.82	7.8	1.8	3.3	IE3
460	Δ	60	693.00	-/-	990.00	3586	1850.0	96.5	96.5	96.2	0.91	0.90	0.85	7.1	1.6	3.0	IE3
460	Δ	60		800	860.00	3588	1590.0	96.5	96.4	95.6	0.91	0.89	0.82	8.2	1.9	3.5	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 - + °C / 1,000 m									Locked rotor time (hot / cold) : 3.92 s 18.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	74 / 90 dB(A) ³⁾	78 / 94 dB(A) ³⁾	External earthing terminal	(Standard) Yes
Moment of inertia	9.8000 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	DIN625-6218-C3	DIN625-6218-C3	Thermal class	F
permissible lateral force on (N)	X ₀ : 2910	X _{0.5} : N/A	Duty type	S1
bearing lifetime			Direction of rotation	clockwise
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Lubricants			Net weight of the motor	3000 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)
Condensate drainage holes	(Standard) Yes		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	at the 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_A/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.	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
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Special design

N03 Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature

Notes:

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