

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



Motor type : 1CV3403C

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)																	
380	Δ	50	450.00	-/-	850.00	992	4350.0	96.0	96.1	95.8	0.84	0.81	0.74	6.5	1.9	2.8	IE3
660	Y	50	450.00	-/-	490.00	992	4350.0	96.0	96.1	95.8	0.84	0.81	0.74	6.5	1.9	2.8	IE3
440	Δ	60	450.00	-/-	740.00	1195	3600.0	96.1	95.9	95.1	0.83	0.80	0.71	7.3	2.1	3.0	IE3
440	Δ	60	518.00	-/-	840.00	1193	4150.0	96.0	96.1	95.7	0.84	0.82	0.76	6.4	1.8	2.6	IE3
440	Δ	60		600	731.82	1195	3600.0	96.1	95.9	95.1	0.83	0.80	0.71	7.4	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 / 1000 m									Locked rotor time (hot / cold) : 4.48 s 5.14 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	Flat type lubricating nipple		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		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 glands

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
SIEMENS	Document type Technical data sheet			Document status Released			
	Title 1LE5533-4AC33-3AC3-Z			Document number TDS-240321-182508			
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G04	Mounted rotary pulse encoder LL 861 900 220	L51	Bearing insulation NDE
G43	Mechanical protection for encoder	R18	Cable gland metal, max. number

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