

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



Motor type : 1CV3407C

SIMOTICS SD Pro - 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 <sup>3)</sup>			cos φ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub> I <sub>I</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub> T <sub>I</sub> /T <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub> T <sub>B</sub> /T <sub>N</sub>	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 155(F)</b>																	
400	Δ	50	545.00	-/-	950.00	993	5200.0	96.1	96.2	95.9	0.86	0.83	0.76	6.7	2.1	2.9	IE3
690	Y	50	545.00	-/-	550.00	993	5200.0	96.1	96.2	95.9	0.86	0.83	0.76	6.7	2.1	2.9	IE3
460	Δ	60	545.00	-/-	840.00	1194	4350.0	96.2	96.1	95.3	0.85	0.82	0.73	7.6	2.3	3.1	IE3
460	Δ	60	625.00	-/-	950.00	1193	5000.0	96.1	96.3	95.9	0.86	0.84	0.78	6.7	2.0	2.7	IE3
460	Δ	60		800	910.00	1194	4750.0	96.1	96.2	95.7	0.85	0.82	0.73	7.0	2.1	2.8	MG1
IM B3 / IM1001 <sub>4</sub> )		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) : 3.58 s | 7.14 s

**Mechanical data**

Sound level (SPL / SWL) at 50Hz 60Hz	72 / 88 dB(A) <sup>3)</sup>	75 / 91 dB(A) <sup>3)</sup>	Condensate drainage holes	(Standard) Yes
Moment of inertia	27.8000 kg m <sup>2</sup>		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 <sub>0</sub> : 6520	X <sub>0.5</sub> : N/A	Thermal class	F
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> F <sub>Rad, min</sub> for coupling operation 50 60Hz <sup>1)</sup>	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	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	1 resistance thermometer PT100 in stator winding - 2 wire (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 <sup>2</sup>
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

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal      1) L<sub>10mh</sub> according to DIN ISO 281 10/2010      3) Value is valid only for DOL operation with motor design IC411  
M<sub>A</sub>/M<sub>N</sub> = 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<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque

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## Special design

L51 Bearing insulation NDE

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