

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



Motor type : 1CV3106A

SIMOTICS SD - 100 L - IM V1 - 2p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N I_f/I_N	M_A/M_N T_f/T_N	M_k/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	4.00	-/-	8.30	2910	13.1	88.1	88.9	87.8	0.83	0.77	0.63	8.9	3.5	4.6	IE3
660	Y	50	4.00	-/-	4.80	2910	13.1	88.1	88.9	87.8	0.83	0.77	0.63	8.9	3.5	4.6	IE3
440	Δ	60	4.55	-/-	8.00	3510	12.4	88.5	89.1	87.8	0.84	0.78	0.67	10.5	3.6	4.7	IE3
440	Δ	60	3.70	-/-	6.90	3530	10.0	88.5	88.0	86.4	0.80	0.72	0.59	12.4	4.5	5.8	IE3
IM V1 / IM 3011		FS 100 L		IP66		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 7.1 s | 11.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77 / 85 dB(A) ^{2) 3)}	75 / 83 dB(A) ^{2) 3)}	Vibration severity grade	B
Moment of inertia	0.0046 kg m ²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} , $F_{Rad min}$ 50 60Hz ¹⁾ for coupling operation	20000 h	16000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	34 kg
Regreasing device	No		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F01	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
 M_k/M_N = locked rotor torque / torque nominal
 M_f/M_N = break down torque / nominal torque
 1) L10mh 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

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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Special design

H00	Canopy	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
H19	IP 66 degree of protection	S02	Special paint finish C3
L00	Vibration severity level B		

Notes:

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