

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



Motor type : 1CV3106A

SIMOTICS SD - 100 L - IM B14 - 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_i/I_N	M_A/M_N T_i/T_N	M_k/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
230	Δ	50	4.00	-/-	13.70	2910	13.1	88.1	88.9	87.8	0.83	0.77	0.63	8.9	3.5	4.6	IE3
400	Y	50	4.00	-/-	7.90	2910	13.1	88.1	88.9	87.8	0.83	0.77	0.63	8.9	3.5	4.6	IE3
460	Y	60	4.55	-/-	7.70	3510	12.4	88.5	89.1	87.8	0.84	0.78	0.67	10.5	3.6	4.7	IE3
460	Y	60	3.70	-/-	6.60	3530	10.0	88.5	88.0	86.4	0.80	0.72	0.59	12.4	4.5	5.8	IE3

IM B14 / IM 3601	FS 100 L	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1000 m			Locked rotor time (hot / cold) : 6.98 s 10.9 s	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77 / 85 dB(A) ²⁾	75 / 83 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0046 kg m ²		Insulation	155(F) to 130(B)
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	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	34 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
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
Contact screw thread	M4	Cable gland	2 plugs

Notes:
 I_A/I_N = locked rotor current / current nominal
 M_k/M_N = locked rotor torque / torque nominal
 M_k/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>			
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Special design

F74 Sheet steel fan cowl

Notes:

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