

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



Motor type : 1CV1310B

SIMOTICS SD - 315 S - IM V1 - 4p

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				
400	Δ	50	110.00	-/-	205.00	1488	710.0	93.3	93.4	92.8	0.84	0.80	0.71	6.5	2.3	2.7	IE1
690	Y	50	110.00	-/-	117.00	1488	710.0	93.3	93.4	92.8	0.84	0.80	0.71	6.5	2.3	2.7	IE1
460	Δ	60	127.00	-/-	200.00	1788	680.0	93.5	93.5	92.6	0.85	0.82	0.74	6.5	2.3	2.7	IE1

IM V1 / IM 3011	FS 315 S	730 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1,000 m				Locked rotor time (hot / cold) : 20.9 s 39.6 s	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75.0 / 90.0 dB(A) ²⁾	75.0 / 89.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.9000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 C3	Insulation	155(F) to 130(B)
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	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	400.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	44.0 mm - 54.0 mm
Type of terminal box	TB1 R01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M16	Cable gland	2 glands, 2 plugs

Notes:
 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) 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>			
SIEMENS	document type datasheet	document status released		customer			
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Special design

D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	Q72	2 Pt100 resistance thermometers in basic configuration for bearings (4 terminals)
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	R18	Cable gland metal, max. number
H00	Canopy	R50	Larger terminal box
L51	Bearing insulation NDE	R62	Cast iron auxiliary terminal box (small)

Notes:

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