

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



Motor type : 1CV3316A

SIMOTICS SD - 315 L - IM B3 - 2p

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 ³⁾			cosφ 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				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	250.00	-/-	430.00	2986	800.0	95.8	95.7	95.0	0.88	0.85	0.77	9.3	3.0	4.2	IE3
690	Y	50	250.00	-/-	250.00	2986	800.0	95.8	95.7	95.0	0.88	0.85	0.77	9.3	3.0	4.2	IE3
460	Δ	60	250.00	-/-	370.00	3588	670.0	95.8	95.4	94.4	0.88	0.84	0.76	11.0	4.1	4.6	IE3
460	Δ	60	280.00	-/-	415.00	3586	750.0	95.8	95.5	94.7	0.88	0.85	0.78	9.6	3.7	4.1	IE3
IM B3 / IM1001			FS 315 L		IP55		UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 27.4 s 43.2 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	80 / 94 dB(A) ^{2) 3)}	84 / 98 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	2.8200 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6316 C4		Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ : 5800	X _{0.5} : 5500	X _{max} : 5200	Thermal class
bearing lifetime				Duty type
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h		32000 h	
Relubrication interval/quantity DE NDE	30 g 30 g		3000 h	
Lubricants	UNIREX N3			Direction of rotation
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		bidirectional	
Grease nipple	M10x1 DIN 3404 A			Frame material
Type of bearing	Locating bearing DE			cast iron
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)			Net weight of the motor
				1340 kg
			Coating (paint finish)	Standard paint finish C2
			Color, paint shade	RAL7030
			Motor protection	6 PTC thermistors - for alarm and tripping (4 terminals)
			Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the angle 45°, socket right	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	42 mm - 54 mm
Type of terminal box	TB3Q61	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 plugs

Notes:

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

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
IN LVM		SPC			
	document type	document status			
	datasheet	released			
	title	document number			
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Special design

D47	TR CU product safety certificate EAC for the Eurasian Customs Union	L51	Bearing insulation NDE
L02	Full-key balancing		

Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
SIEMENS	document type datasheet	document status released			
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