

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



Motor type : 1CV3316B

SIMOTICS SD - 315 L - IM V1 - 4p

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⁾			cos φ 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)																	
400	Δ	60	250.00	-/-	440.00	1791	1330.0	96.2	96.1	95.3	0.85	0.81	0.73	8.6	3.1	3.5	IE3
690	Y	60	250.00	-/-	255.00	1791	1330.0	96.2	96.1	95.3	0.85	0.81	0.73	8.6	3.1	3.5	IE3
IM V1 / IM3011			FS 315 L		IP55		UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 24.9 s 47.1 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 91 dB(A) ^{2) 3)}	82 / 97 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes		
Moment of inertia	4.2700 kg m ²		Vibration severity grade	Grade A		
Bearing DE NDE	6319 C4	7319 B	Thermal class	F		
permissible lateral force on (N) (N)	X _{0:} ¹⁾ 9300	X _{0.5:} 8650	X _{max:} 8000	Duty type	S1	
bearing lifetime	L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾		Direction of rotation		bidirectional	
Relubrication interval/quantity DE NDE	20000 h		16000 h	Frame material	cast iron	
Lubricants	40 g 40 g 6000 h		Net weight of the motor			1326 kg
Regreasing device	UNIREX N3		Coating (paint finish)			Standard paint finish C2
Grease nipple	Flat type lubricating nipple		Color, paint shade			RAL7030
Type of bearing	M10x1 DIN 3404 A		Motor protection			6 PTC thermistors - for alarm and tripping (4 terminals)
Condensate drainage holes	Locating bearing NDE		Method of cooling			IC411 - self ventilated, surface cooled
		(Standard) Yes				

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

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) 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

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Special design

H00 Canopy M2J 400 VDI/690 VY; 60Hz, 50-Hz power

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