

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



Motor type : 1CV3318C

SIMOTICS SD - 315 L - IM B3 - 6p

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

Safe Area																	
Electrical data																	
U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	250.00	-/-	490.00	992	2400.0	95.8	95.9	95.6	0.81	0.76	0.65	8.2	3.2	3.3	IE3
660	Y	50	250.00	-/-	280.00	992	2400.0	95.8	95.9	95.6	0.81	0.76	0.65	8.2	3.2	3.3	IE3
440	Δ	60	250.00	-/-	425.00	1194	2000.0	95.8	95.7	95.3	0.81	0.75	0.64	9.5	3.6	3.7	IE3
440	Δ	60	300.00	-/-	495.00	1191	2400.0	95.8	95.9	95.7	0.83	0.79	0.68	8.5	3.0	3.1	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) : 35.3 s 57.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 84 dB(A) ^{2) 3)}	72 / 87 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	8.0000 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6319 C4	6319 C4	Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ : 10600	X _{0.5} : 9900	Thermal class	F
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		Net weight of the motor	1700 kg
Regreasing device	-/-		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	at the right	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB3Q01	Cable entry	2xM80x2 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	-/-

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) 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						
SIEMENS	document type	datasheet			document status			
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Special design

D47	TR CU product safety certificate EAC for the Eurasian Customs Union	G06	Mounting a rotary pulse encoder HOG 10 D 1024 I
F70	Mounting of separately driven fan	L51	Bearing insulation NDE

Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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