

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



Motor type : 1CV3318C

SIMOTICS SD - 315 L - IM V1 - 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)																	
400	Δ	50	250.00	-/-	465.00	992	2400.0	95.8	95.9	95.6	0.81	0.76	0.65	8.2	3.2	3.3	IE3
690	Y	50	250.00	-/-	270.00	992	2400.0	95.8	95.9	95.6	0.81	0.76	0.65	8.2	3.2	3.3	IE3
460	Δ	60	250.00	-/-	405.00	1194	2000.0	95.8	95.7	95.3	0.81	0.75	0.64	9.5	3.6	3.7	IE3
460	Δ	60	300.00	-/-	475.00	1191	2400.0	95.8	95.9	95.7	0.83	0.79	0.68	8.5	3.0	3.1	IE3
IM V1 / IM3011			FS 315 L		IP55		UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN, GB 18613-2012						Grade 3	
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)}	External earthing terminal	(Standard) Yes
Moment of inertia	8.0000 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6319 C4	7319 B	Thermal class	F
permissible lateral force on (N)	X ₀ : 10600	X _{0.5} : 9900	Duty type	S1
		X _{max} : 9200	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Net weight of the motor	1758 kg
Relubrication interval/quantity DE NDE	40 g 40 g	6000 h	Coating (paint finish)	Standard paint finish C2
Lubricants	UNIREX N3		Color, paint shade	RAL7030
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Grease nipple	M10x1 DIN 3404 A		Method of cooling	IC411 - self ventilated, surface cooled
Type of bearing	Locating bearing NDE			
Condensate drainage holes	(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 ...	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	1) L _{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

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				document status			
	datasheet				released			
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					951	2023-12-14	en	1/2

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Special design

D34	China Energy Efficiency Label	Q72	2 Pt100 resistance thermometers for bearings (4 terminals)
N30	Increased air humidity/temperature with 30 to 60 g water per m3 air		

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	
SIEMENS	document type datasheet			document status released			
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