

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					
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) (N)	X ₀ : 10600	X _{0.5} : 9900	X _{max} : 9200	Duty type
bearing lifetime			S1	
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 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	1758 kg
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	(Standard) Yes		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 ...	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					
	document type				document status		
	datasheet				released		
	title				document number		
	1LE5503-3AC83-4GB3						
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