

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



Motor type : 1CV4317C

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)																	
400	Δ	50	200.00	-/-	365.00	992	1930.0	96.3	96.4	96.1	0.82	0.77	0.67	7.5	3.0	3.2	IE4
690	Y	50	200.00	-/-	210.00	992	1930.0	96.3	96.4	96.1	0.82	0.77	0.67	7.5	3.0	3.2	IE4
460	Δ	60	200.00	-/-	320.00	1194	1600.0	96.2	96.2	95.7	0.81	0.76	0.65	9.0	3.2	3.5	IE4
460	Δ	60	240.00	-/-	375.00	1191	1920.0	96.5	96.7	96.5	0.83	0.79	0.69	8.0	2.7	2.9	IE4
IM B3 / IM1001			FS 315 L				IP56	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 42.9 s 66.8 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 83 dB(A) ^{2) 3)}	71 / 85 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	6.2800 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6319 C4	6319 C4	Thermal class	F
permissible lateral force on (N) (N)	X ₀ : 10600	X _{0.5} : 9900	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Net weight of the motor	1410 kg
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	(Standard) Yes			

Terminal box

Terminal box position	box at the top, socket right	Max. cross-sectional area	300 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	63 mm - 70 mm
Type of terminal box	TB3R01	Cable entry	2xM80x2 - 2xM20x1,5
Contact screw thread	6xM16	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_A/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					
	document type	datasheet			document status		
					released		
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	R50	Larger terminal box
H22	IP 56 degree of protection		

Notes:

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