

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



Motor type : 1CV3317B

SIMOTICS SD - 315 L - IM B3 - 4p

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	315.00	-/-	570.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3	
690	Y	50	315.00	-/-	330.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3	
460	Δ	60	315.00	-/-	495.00	1792	1680.0	96.2	96.0	95.3	0.83	0.78	0.69	9.4	3.4	3.7	IE3	
460	Δ	60	360.00	-/-	560.00	1790	1920.0	96.2	96.1	95.6	0.84	0.80	0.72	8.3	3.0	3.2	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) : 20.7 s 41.4 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 90 dB(A) ^{2) 3)}	81 / 95 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	5.3900 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 : 9300	X _{0.5} : 8650	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	1560 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 DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		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 ...	42 mm - 54 mm
Type of terminal box	TB3Q61	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 plugs

Notes:			
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

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			
	1LE5503-3AB73-4AB3-Z						
© INNOMOTICS 2023	L51			rev.	creation date	language	Page
				951	2023-12-14	en	1/2

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



Motor type : 1CV3317B

SIMOTICS SD - 315 L - IM B3 - 4p

Special design

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		
	document type datasheet				document status released			
	title 1LE5503-3AB73-4AB3-Z				document number			
© INNOMOTICS 2023	L51				rev. 951	creation date 2023-12-14	language en	Page 2/2