

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



Motor type : 1CV4315B

SIMOTICS SD - 315 L - IM B5 - 4p

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

Remarks

Electrical data

Safe Area

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)																	
500	Δ	50	200.00	-/-	280.00	1490	1280.0	96.7	96.9	96.8	0.85	0.82	0.73	7.8	3.4	3.1	IE4
IM B5 / IM3001			FS 315 L				IP55	UKCA		IEC/EN 60034							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 25.9 s 40.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 83 dB(A) ^{2) 3)}	73 / 88 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	4.3700 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F
permissible lateral force on (N)	$X_{0.1}$ 9300	$X_{0.5}$ 8650	X_{max} 8000	Duty type
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} $F_{rad min}$ for coupling operation 50 60Hz ¹⁾			Frame material	cast iron
Relubrication interval/quantity DE NDE			Net weight of the motor	1340 kg
Lubricants			Coating (paint finish)	Special paint finish C3
Regreasing device			Color, paint shade	RAL7030
Grease nipple			Motor protection	3 PTC thermistors - for tripping (2 terminals)
Type of bearing			Method of cooling	IC411 - self ventilated, surface cooled
Bearing insulation DE / Bearing insulation NDE			'SIMOTICS Connect 400' in IP65	No
Condensate drainage holes			(Standard) Yes	

Terminal box

Terminal box position	box at the top	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	TB1Q61	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 plugs

Notes:

I_A/I_N = locked rotor current / current nominal	1) L10mh 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_K/M_N = break down torque / nominal torque		

responsible dep. DI MC LVM	technical reference	created by DT Configurator	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			
	title 1LE5504-3AB54-0FB4-Z F74+L19+L51+M11+R52+S02			document number			
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Special design

F74	Sheet steel fan cowl	M11	Stainless steel rating plate
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A	R52	Drilled removable entry plate
L51	Bearing insulation NDE	S02	Special paint finish C3

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