

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



Motor type : 1CV4314C

SIMOTICS SD - 315 L - IM B5 - 6p

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	110.00	-/-	154.00	992	1060.0	95.8	96.1	96.0	0.86	0.82	0.73	8.3	2.8	3.5	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) : 21.8 s 31.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 78 dB(A) ^{2) 3)}	66 / 80 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	4.4900 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 : 10600	X _{0.5} : 9900	Duty type	S1
(N)		X _{max} : 9200	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad min} for coupling operation	40000 h	-/-	Net weight of the motor	1070 kg
50 60Hz ¹⁾			Coating (paint finish)	Special paint finish C3
Relubrication interval/quantity DE	40 g 40 g		Color, paint shade	RAL7030
NDE	6000 h		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Lubricants	UNIREX N3		Method of cooling	IC411 - self ventilated, surface cooled
Regreasing device	with conical grease nipple acc. DIN 71412A		'SIMOTICS Connect 400' in IP65	No
Grease nipple	M10x1 DIN 71412 A			
Type of bearing	Locating bearing DE			
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)			
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 ...	38 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
M_K/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L10mh 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	
DI MC LVM		DT Configurator					
	document type			document status			
	datasheet			released			
	title			document number			
	1LE5504-3AC44-0FB4-Z						
	F74+L19+L51+M11+R52+S02						
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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

Notes:

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
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