

SIMOTICS SD - 315 L - IM B3 - 6p

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

Remarks

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)																	
230	Δ	50	110.00	-/-	335.00	992	1060.0	95.8	96.1	96.0	0.86	0.82	0.73	8.3	2.8	3.5	IE4
400	Y	50	110.00	-/-	193.00	992	1060.0	95.8	96.1	96.0	0.86	0.82	0.73	8.3	2.8	3.5	IE4
460	Y	60	132.00	-/-	198.00	1191	1060.0	96.2	96.5	96.4	0.87	0.84	0.76	7.9	2.6	3.3	IE4
IM B3 / IM1001			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								

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 m²				Vibration severity grade		Grade A		
Bearing DE NDE		6319 C3		6319 C3		Thermal class		F		
permissible lateral force on (N) (N)		x ₀ : 10600		x _{0.5} : 9900		x _{max} : 9200		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		1020 kg		
Lubricants		UNIREX N3				Coating (paint finish)		Special paint finish C3		
Regreasing device		with conical grease nipple acc. DIN 71412A				Color, paint shade		RAL7030		
Grease nipple		M10x1 DIN 71412 A				Motor protection		3 PTC thermistors - for tripping (2 terminals)		
Type of bearing		Locating bearing DE				Method of cooling		IC411 - self ventilated, surface cooled		
Bearing insulation DE / Bearing insulation NDE		Yes (Non-drive end)				'SIMOTICS Connect 400' in IP65		No		
Condensate drainage holes		(Standard) Yes								

Terminal box position	box at the top	Max. cross-sectional area	240 mm²
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_A/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			
	1LE5504-3AC42-2AB4-Z						
	F74+L19+L51+M11+R52+S02			rev.	creation date	language	Page
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4314C

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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:

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SIEMENS	document type datasheet			document status released			
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