

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	$\eta^{3)}$			$\cos\varphi^{3)}$			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)

IM B3 / IM1001	FS 315 L	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 22.5 s | 32.9 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	64 / 79 dB(A) ^{2) 3)}	66 / 81 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes	
Moment of inertia	5.3200 kg m²		External earthing terminal	(Standard) Yes	
Bearing DE NDE	6319 C3	6319 C3	Vibration severity grade	Grade A	
permissible lateral force on (N) (N)	X ₀ : 10600	X _{0.5} : 9900	X _{max} : 9200	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	1130 kg	
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2	
Grease nipple	-/-		Color, paint shade	RAL7030	
Type of bearing	Locating bearing DE		Motor protection	1 temperature sensor KTY84-130 (2 terminals)	
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC416 - separately ventilated, surface cooled	

Terminal box

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	TB1Q01	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			
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B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE
F70	Mounting of separately driven fan	M1Y	Non-standard winding:
G06	Mounting a rotary pulse encoder HOG 10 D 1024 I		

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