

SIMOTICS SD - 315 L - IM B3 - 2p

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

Remarks

Safe Area

U	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{(3)}$			$\cos\varphi^{(3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
[V]								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	200.00	-/-	325.00	2986	640.0	96.5	96.5	96.1	0.92	0.91	0.85	10.0	3.5	3.9	IE4
690	Y	50	200.00	-/-	188.00	2986	640.0	96.5	96.5	96.1	0.92	0.91	0.85	10.0	3.5	3.9	IE4
460	Δ	60	224.00	-/-	320.00	3586	600.0	96.2	96.1	95.4	0.92	0.91	0.86	10.0	3.6	3.7	IE4
460	Δ	60	200.00	-/-	285.00	3588	530.0	96.2	96.0	95.1	0.91	0.89	0.83	11.0	4.0	4.0	IE4
IM B3 / IM 1001			FS 315 L			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 28.8 s 44 s								

Sound level (SPL / SWL) at 50Hz 60Hz	78 / 92 dB(A) ^{2) 3)}	84 / 99 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	2.4000 kg m²		Vibration severity grade	A
Bearing DE NDE	6316 C3	6316 C3	Thermal class	F
bearing lifetime			Duty type	S1
L10mh F _{red min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g 3000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	1180 kg
Regreasing device	Yes (standard)		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	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box position	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	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	Cable gland	4 plugs

Notes:

I_{Lr}/I_{Ln} = 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_r/M_{rn} = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_{bn} = break down torque / nominal torque		

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			
	1LE1504-3AA53-4AC4-Z						
	B02+B60+B61+L51			rev.	creation date	language	Page
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4315A

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	B61	Document order dimension drawing
B60	Document electrical datasheet	L51	Bearing insulation NDE

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