

SIMOTICS SD - 315 S - IM B3 - 2p

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)																	
400	Δ	50	110.00	-/-	184.00	2988	350.0	96.0	95.9	95.1	0.90	0.88	0.82	9.1	2.5	3.7	IE4
690	Y	50	110.00	-/-	107.00	2988	350.0	96.0	95.9	95.1	0.90	0.88	0.82	9.1	2.5	3.7	IE4
460	Δ	60	110.00	-/-	161.00	3588	295.0	95.4	94.9	93.6	0.90	0.87	0.81	10.0	2.8	4.0	IE4
460	Δ	60	123.00	-/-	178.00	3588	325.0	95.4	95.1	94.0	0.91	0.89	0.83	9.1	2.6	3.6	IE4
IM B3 / IM1001			FS 315 S			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 29.9 s 47.4 s							

Sound level (SPL / SWL) at 50Hz 60Hz	72 / 86 dB(A) ^{2) 3)}	77 / 91 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	1.8400 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 : 21300	X _{0.5} : 15000	X _{max} : 7500	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	
Lubricants	UNIREX N3		Net weight of the motor	916 kg	
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2	
Grease nipple	-/-		Color, paint shade	RAL7030	
Type of bearing	Locating bearing NDE		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled	
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 ...	34 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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	L22+L51			rev.	creation date	language	Page
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4310A

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Special design

L22	Bearing design for increased cantilever forces	L51	Bearing insulation NDE
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Notes:

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SIEMENS	document type datasheet			document status released			
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