

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

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Motor type / Motor type : 1CV3317B

SIMOTICS SD - 315 L - IM B3 - 4p

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

Remarks / Remarks

Electrical data / Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) / DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	315.00	-/-	570.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3
690	Y	50	315.00	-/-	330.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3
460	Δ	60	315.00	-/-	495.00	1792	1680.0	96.2	96.0	95.3	0.83	0.78	0.69	9.4	3.4	3.7	IE3
460	Δ	60	360.00	-/-	560.00	1790	1920.0	96.2	96.1	95.6	0.84	0.80	0.72	8.3	3.0	3.2	IE3

IM B3 / IM1001	FS 315 L	IP55	IEC/EN 60034
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Environmental conditions / Environmental conditions : -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 24.8 s | 41.4 s

Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz Sound level (SPL / SWL) at 50Hz 60Hz	75 / 90 dB(A) ^{2) 3)}	81 / 95 dB(A) ^{2) 3)}	Condensate drainage holes Condensate drainage holes	(Standard) Yes (Standard) Yes
Moment of inertia Moment of inertia	5.3900 kg m ²		External earthing terminal External earthing terminal	(Standard) Yes (Standard) Yes
Bearing DE NDE Bearing DE NDE	6319 C4	6319 C4	Vibration severity grade Vibration severity grade	Grade A Grade A
permissible lateral force on (N) permissible lateral force on (N)	X ₀ : 9300	X _{0.5} : N/A	Thermal class Thermal class	F F
bearing lifetime / bearing lifetime			Duty type Duty type	S1
L _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation Direction of rotation	bidirectional bidirectional
L _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾			Frame material Frame material	cast iron cast iron
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Net weight of the motor Net weight of the motor	1560 kg
Lubricants Lubricants	UNIREX N3		Coating (paint finish) Coating (paint finish)	Standard paint finish C2 Standard paint finish C2
Regreasing device Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Color, paint shade Color, paint shade	RAL7030
Grease nipple Grease nipple	M10x1 DIN 3404 A		Motor protection Motor protection	1 temperature sensor KTY84-130 (2 terminals) 1 temperature sensor KTY84-130 (2 terminals)
Type of bearing Type of bearing	Locating bearing DE Locating bearing DE		Method of cooling Method of cooling	IC411 - self ventilated, surface cooled IC411 - self ventilated, surface cooled
			'SIMOTICS Connect 400' in IP65 'SIMOTICS Connect 400' in IP65	No No

Terminal box / Terminal box

Terminal box position Terminal box position	box at the angle 45°, socket right box at the angle 45°, socket right	Max. cross-sectional area Max. cross-sectional area	240 mm ²
Material of terminal box Material of terminal box	cast iron cast iron	Cable diameter from ... to ... Cable diameter from ... to ...	42 mm - 54 mm
Type of terminal box Type of terminal box	TB3Q61	Cable entry Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread Contact screw thread	6xM12	Cable gland Cable gland	4 plugs 4 plugs

Notes:

I_A/I_N = 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_I/M_N = locked rotor torque / torque nominal 2) at rated power / at full load
M_K/M_N = break down torque / nominal torque

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
	document type datasheet	document status released			document number
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Special design / Special design

L51 Bearing insulation NDE
Bearing insulation NDE

Notes:

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