

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



Motor type : 1CV3318D

SIMOTICS SD - 315 L - IM B3 - 8p

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

Remarks

Electrical data	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	200.00	-/-	390.00	742	2550.0	94.6	94.8	94.6	0.78	0.73	0.61	6.7	2.9	2.8	IE3
690	Y	50	200.00	-/-	225.00	742	2550.0	94.6	94.8	94.6	0.78	0.73	0.61	6.7	2.9	2.8	IE3
460	Δ	60	200.00	-/-	345.00	893	2150.0	95.0	95.0	94.6	0.77	0.71	0.59	7.5	3.3	3.1	IE3
460	Δ	60	240.00	-/-	400.00	891	2550.0	95.0	95.3	95.1	0.79	0.75	0.65	6.5	2.8	2.6	IE3
IM B3 / IM1001			FS 315 L				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 31.7 s 49.8 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72 / 86 dB(A) ^{2) 3)}	71 / 85 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	8.5000 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6319 C4	6319 C4	Vibration severity grade	Grade A
permissible lateral force on (N)	X ₀ : 12000	X _{0.5} : 10600	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	1660 kg
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	2 temperature sensors KTY84-130 (4 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 angle 45°, socket right	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB3Q01	Cable entry	2xM80x2 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	-/-

Notes:		
I_A/I_N = locked rotor current / current nominal	1) L_{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_A/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.	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					
SIEMENS	document type			document status			
	datasheet			released			
	title			document number			
	1LE5503-3AD83-4AG3-Z						
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B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE
F70	Mounting of separately driven fan	Q02	Anti-condensation heating for 230 V (2 terminals)
G06	Mounting a rotary pulse encoder HOG 10 D 1024 I		

Space heaters

Technical data: 1-phase, 230V, 218W

Notes:

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IN LVM		SPC					
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