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

Motor type : 1CV3316A **SIMOTICS SD - 315 L - IM B3 - 2p**

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

Remarks

Safe Area

-/-

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_l/I_N	M_A/M_N T_l/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	250.00	-/-	430.00	2986	800.0	95.8	95.7	95.0	0.88	0.85	0.77	9.3	3.0	4.2	IE3
690	Y	50	250.00	-/-	250.00	2986	800.0	95.8	95.7	95.0	0.88	0.85	0.77	9.3	3.0	4.2	IE3
460	Δ	60	250.00	-/-	370.00	3588	670.0	95.8	95.4	94.4	0.88	0.84	0.76	11.0	4.1	4.6	IE3
460	Δ	60	280.00	-/-	415.00	3586	750.0	95.8	95.5	94.7	0.88	0.85	0.78	9.6	3.7	4.1	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) : 27.4 s | 43.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	80 / 94 dB(A) 2) 3)	84 / 98 dB(A) 2) 3)		Condensate drainage holes	(Standard) Yes
Moment of inertia	2.8200 kg m²			External earthing terminal	(Standard) Yes
Bearing DE | NDE	6316 C4	6316 C4		Vibration severity grade	Grade A
permissible lateral force on (N) *(N)*	x_0: 5800	$x_{0,5}$: 5500	x_{max}: 5200	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	30 g | 30 g 3000 h			Frame material	cast iron
Lubricants	UNIREX N3			Net weight of the motor	1340 kg
Regreasing device	-/-			Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-			Color, paint shade	RAL7030
Type of bearing	Locating bearing DE			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

Terminal box

Terminal box position	box at the top, socket right	Max. cross-sectional area	240 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	42 mm - 54 mm
Type of terminal box	TB3Q61	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			

SIEMENS

document type	document status
datasheet	released
title	document number
1LE5503-3AA63-4AB1-Z	
L51	

rev.	creation date	language	Page
951	2023-12-14	en	1/2

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Special design

L51	Bearing insulation NDE

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