

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



Motor type : 1CV3314A

SIMOTICS SD - 315 L - IM B3 - 2p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ 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) - 155(F) to 155(F)																	
400	Δ	50		-/-		2982	510.0	95.6	95.7	95.2	0.92	0.91	0.86	7.8	2.8	3.3	IE3
IM B3 / IM 1001		FS 315 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - + °C / m									Locked rotor time (hot / cold) : 38 s 62.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77 / 91 dB(A) ^{2) 3)}	82 / 96 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	1.9000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6316 C3	6316 C3	Thermal class	F
bearing lifetime			Duty type	S1
L_{10mh} , F_{Rad} min 50 60Hz for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	980 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	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5
Contact screw thread	M12	Cable gland	2 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) L10mh 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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
	document type datasheet	document status released			document number
	title 1LE1503-3AA40-4AA4-Z L51+Y52	rev. 929	creation date 2022-11-28		
© Siemens AG 2022					

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




Motor type : 1CV3314A

SIMOTICS SD - 315 L - IM B3 - 2p

Special design

L51	Bearing insulation NDE	Y52	Temperature class 155(F), utilized acc. to 155(F), customer indication of coolant temperature and/or installation altitude
-----	------------------------	-----	----------------------------------------------------------------------------------------------------------------------------

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
SIEMENS	document type datasheet	document status released			
	title 1LE1503-3AA40-4AA4-Z L51+Y52	document number			
© Siemens AG 2022	rev. 929	creation date 2022-11-28	language en	Page 2/2	