

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



Motor type : 1CV4310B

SIMOTICS SD - 315 S - IM B3 - 4p

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]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N I_f/I_N	M_A/M_N T_f/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 130(B)																	
400	Δ	50		-/-													IE4
690	Y	50		-/-													IE4
460	Δ	60		-/-													IE4
460	Δ	60		-/-													IE4

IM B3 / IM1001	FS 315 S	IP56	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - + °C / m				Locked rotor time (hot / cold) : 30.8 s 44.1 s	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66 / 80 dB(A) ^{2) 3)}	71 / 85 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	2.7400 kg m ²		Vibration severity grade	Grade A	
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F	
permissible lateral force on (N)	$X_{0.5}$: 9300	$X_{0.5}$: 8650	X_{max} : 8000	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			Net weight of the motor	922 kg	
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Coating (paint finish)	Standard paint finish C2	
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030	
Type of bearing	Locating bearing NDE		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
Condensate drainage holes	(Standard) Yes		Method of cooling	IC411 - self ventilated, surface cooled	

Terminal box

Terminal box position	box at the top	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	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. IN LVM	technical reference	created by SPC	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			
	title 1LE5504-3AB03-4AB4-Z B02+H22+N30+Y50	document number			
© INNOMOTICS 2023	rev. 951	creation date 2023-12-14	language en	Page 1/2	

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




Motor type : 1CV4310B

SIMOTICS SD - 315 S - IM B3 - 4p

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
H22	IP 56 degree of protection	Y50	Temperature class 155(F), utilized acc. to 130(B), customer indication of coolant temperature and/or installation altitude

Notes:

responsible dep. IN LVM	technical reference	created by SPC	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 1LE5504-3AB03-4AB4-Z B02+H22+N30+Y50	document number			
© INNOMOTICS 2023	rev. 951	creation date 2023-12-14	language en	Page 2/2	