

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



Motor type : 1CV3316B

SIMOTICS SD - 315 L - IM B3 - 4p

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

Remarks

Safe Area
-/-

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	M_A/M_N	M_K/M_N	IE-CL
								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)																	
480	Δ	50	250.00	-/-	370.00	1490	1600.0	96.0	96.1	95.7	0.85	0.82	0.74	7.9	2.8	3.2	IE3

IM B3 / IM1001	FS 315 L	IP55	UKCA	IEC/EN 60034	Environmental conditions : -20 °C - +40 °C / 1000 m													Locked rotor time (hot / cold) : 24.9 s 47.1 s	
----------------	----------	------	------	--------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 91 dB(A) ^{2) 3)}	82 / 97 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes	
Moment of inertia	4.2700 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) (N)	$X_{0.2}$ 9300	$X_{0.5}$ 8650	X_{max} 8000	Thermal class	F
bearing lifetime	Duty type			S1	
L_{10mh} F_{Rad} f_{min} for coupling operation 50 60Hz	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	1290 kg	
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4	
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030	
Type of bearing	Locating bearing DE		Motor protection	6 resistance thermometers PT100 (12 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 angle 45°, socket left	Max. cross-sectional area	240 mm ²
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) 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. IN LVM	technical reference	created by SPC	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
	title 1LE5603-3AB69-0AJ2-Z		rev. 950		
© INNOMOTICS 2023					

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



Motor type : 1CV3316B

SIMOTICS SD - 315 L - IM B3 - 4p

Special design

G15	Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box moisture protection	Q02	Anti-condensation heating for 230 V (2 terminals)
H07	Stainless steel screws and bolts (outside the motor)	S03	Special paint finish in sea air resistant C4
L51	Bearing insulation NDE	S05	Interior paint (metal parts, rotor and stator)
M1Y	Non-standard winding: 480VD_50HZ_250kW	Y80	Supplementary rating plate with different data Data

Additional information:

Space heaters

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



Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
SIEMENS	document type datasheet	document status released			
	title 1LE5603-3AB69-0AJ2-Z	document number			
© INNOMOTICS 2023	G15+H07+L51+M1Y+Q02+S03+S05+Y80	rev. 950	creation date 2023-10-09		language en