

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

-/-

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ 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	240.00	-/-	425.00	1490	1538.3	96.0	96.1	95.6	0.85	0.81	0.73	8.2	2.9	3.3	IE3
690	Y	50	240.00	-/-	245.00	1490	1538.3	96.0	96.1	95.6	0.85	0.81	0.73	8.2	2.9	3.3	IE3
460	Δ	60	250.00	-/-	385.00	1791	1330.0	96.2	96.1	95.3	0.85	0.81	0.73	8.6	3.1	3.5	IE3
460	Δ	60	278.39	-/-	425.00	1785	1489.4	96.2	96.2	95.5	0.86	0.82	0.75	7.9	2.8	3.1	IE3

IM B3 / IM1001	FS 315 L	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
----------------	----------	------	------	--------------	------------------------

Environmental conditions : -20 °C - +45 °C / 1,000 m

Locked rotor time (hot / cold) : 24.9 s | 47.1 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 91 dB(A) ^{2) 3)}	82 / 97 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	4.2700 kg m ²		Vibration severity grade	Grade A	
Bearing DE NDE	6319 C4	6319 C4	Thermal class	F	
permissible lateral force on (N) (N)	X ₀ : 9300	X ₀ s: 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	
Relubrication interval/quantity DE NDE	40 g 40 g 3000 h		Net weight of the motor	1290 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Special paint finish for offshore applications C5	
Regreasing device	-/-		Color, paint shade	RAL7030	
Grease nipple	-/-		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled	
Condensate drainage holes	(Standard) Yes				

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 ...	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_k/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			document number
	title 1LE5503-3AB63-4AB3-Z B02+N05+Q02+S04	rev. 951	creation date 2023-12-14		
© INNOMOTICS 2023					

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



Motor type : 1CV3316B

SIMOTICS SD - 315 L - IM B3 - 4p

Special design


B02	Acceptance test certificate 3.1 acc. to EN 10204	Q02	Anti-condensation heating for 230 V (2 terminals)
N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced	S04	Special paint finish for offshore applications C5

Additional information:

Space heaters

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

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 1LE5503-3AB63-4AB3-Z B02+N05+Q02+S04	document number			
© INNOMOTICS 2023	rev. 951	creation date 2023-12-14	language en	Page 2/2	