

SIMOTICS SD - 315 L - IM V1 - 4p

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

Safe Area

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\varphi^{3)}$			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_A/I_N	T_I/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	250.00	-/-	440.00	1490	1600.0	96.0	96.1	95.7	0.85	0.82	0.74	7.9	2.8	3.2	IE3
690	Y	50	250.00	-/-	255.00	1490	1600.0	96.0	96.1	95.7	0.85	0.82	0.74	7.9	2.8	3.2	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	290.00	-/-	440.00	1788	1550.0	96.2	96.3	95.7	0.86	0.83	0.76	7.6	2.7	3.0	IE3
IM V1 / IM3011			FS 315 L			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 24.9 s 47.1 s							

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 m²		Vibration severity grade	Grade A	
Bearing DE NDE	6319 C4	7319 B		Thermal class	F
permissible lateral force on (N) (N)	X ₀ : 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⁾	20000 h	16000 h		Frame material	cast iron
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Net weight of the motor	1326 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2	
Regreasing device	Flat type lubricating nipple		Color, paint shade	RAL7030	
Grease nipple	M10x1 DIN 3404 A		Motor protection	6 PTC thermistors - for alarm and tripping (4 terminals)	
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled	
Condensate drainage holes	(Standard) Yes				

Terminal box position	box at the angle 45°, 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

I_{r}/I_{n} = locked rotor current / current nominal	1) $L_{10\text{th}}$ according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_r/M_n = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_n = break down torque / nominal torque		

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 	
	Document type Technical data sheet			Document status Released			
	Document title 1LE5503-3AB63-4GC3-Z			Document number TDS-240516-115548			
Restricted © Innomotics 2024	H00			Revision AA	Creation date 2024-05-16	Language en	Page 1/2

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



Motor type : 1CV3316B

SIMOTICS SD - 315 L - IM V1 - 4p

Special design

H00	Canopy
-----	--------

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
	Document type Technical data sheet			Document status Released			
	Document title 1LE5503-3AB63-4GC3-Z			Document number TDS-240516-115548			
Restricted © Innomotics 2024	H00			Revision AA	Creation date 2024-05-16	Language en	Page 2/2