

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



Motor type : 1CV3316C

SIMOTICS SD - 315 L - IM B3 - 6p

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]	$\eta^{3)}$			$\cos\phi^{3)}$			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	160.00	-/-	295.00	992	1540.0	95.6	95.8	95.5	0.82	0.77	0.66	8.5	3.5	3.6	IE3
690	Y	50	160.00	-/-	171.00	992	1540.0	95.6	95.8	95.5	0.82	0.77	0.66	8.5	3.5	3.6	IE3
IM B3 / IM 1001			FS 315 L		IP56		UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 18.6 s 32.6 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 82 dB(A) ^{2) 3)}	69 / 83 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	5.4100 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} , F _{Rad} η_{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 (IM B3)	1260 kg
Regreasing device	With (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	With (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	150 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	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. 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	
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Special design

F70	Mounting of separately driven fan	Q02	Anti-condensation heating for 230 V (2 terminals)
H22	IP 56 degree of protection	Y58	Non-standard cylindrical shaft extension, DE D095_E170
L51	Bearing insulation NDE		

Additional information:

Space heaters

Technical data:	1-phase, 230 V 109W

Notes:

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