

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



Motor type : 1CV3310C

SIMOTICS SD - 315 S - IM B3 - 6p

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

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	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)																	
400	Δ	50	75.00	-/-	136.00	990	720.0	94.6	94.9	94.4	0.84	0.80	0.70	7.5	2.6	3.1	IE3
690	Y	50	75.00	-/-	79.00	990	720.0	94.6	94.9	94.4	0.84	0.80	0.70	7.5	2.6	3.1	IE3
IM B3 / IM 1001			FS 315 S				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					Grade 3
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 32.5 s 49.2 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 78 dB(A) ^{2) 3)}	64 / 79 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	2.6000 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} ¹⁾ 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)	750 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	With (standard)			

Terminal box

Terminal box position	left	Max. cross-sectional area	240 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 1) L10mh according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411

M_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

M_K/M_N = break down torque / nominal torque

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
DI MC LVM		DT Configurator					
	document type				document status		
	datasheet				released		
	title				document number		
	1LE1503-3AC03-4AC6-Z						
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B02	Acceptance test certificate 3.1 acc. to EN 10204	G16	Mounting of HOG 10 DN 1024 I rotary pulse encoder, terminal box dust protection
D34	China Energy Efficiency Label	L51	Bearing insulation NDE

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