

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



Motor type : 1CV3315C

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	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	132.00	-/-	245.00	992	1270.0	95.4	95.7	95.4	0.82	0.77	0.66	8.0	3.3	3.3	IE3
460	Δ	60	158.00	-/-	250.00	1191	1270.0	95.0	95.3	95.1	0.83	0.79	0.69	8.1	3.1	3.1	IE2
460	Δ	60	132.00	-/-	215.00	1193	1060.0	95.8	95.9	95.4	0.81	0.75	0.64	9.6	3.7	3.7	IE3
IM B3 / IM 1001		FS 315 L				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN						KS C IEC60034-2-1	
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 22.5 s 36.1 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 82 dB(A) ^{2) 3)}	66 / 81 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	4.4800 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} _{min} 50 60Hz for coupling operation	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)	1130 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	(F) 1 temperature sensor KTY84-130 (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 1) L10mh according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411

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

M_B/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			
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Special design

D33	KEA Korea Energy Efficiency Label	G05	Mounting a rotary pulse encoder HOG 9 D 1024 I
F70	Mounting of separately driven fan	L51	Bearing insulation NDE

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
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