

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



Motor type : 1CV3314C

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	110.00	-/-	199.00	991	1060.0	95.1	95.5	95.3	0.84	0.80	0.71	7.2	2.8	3.0	IE3
690	Y	50	110.00	-/-	115.00	991	1060.0	95.1	95.5	95.3	0.84	0.80	0.71	7.2	2.8	3.0	IE3
IM B3 / IM 1001		FS 315 L				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 33.7 s | 49.9 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72.9 / 87.3 dB(A) ₂₎	76.7 / 91.1 dB(A) ₂₎	External earthing terminal	Yes (standard)
Moment of inertia	3.9000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 319		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)	990 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	top	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
Contact screw thread	M12	Cable gland	2 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) 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.	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					
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Special design

F70 Mounting of separately driven fan L22 Bearing design for increased cantilever forces

Notes:

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DI MC LVM

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