

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



Motor type : 1CV3315B

SIMOTICS SD - 315 L - IM B3 - 4p

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	200.00	-/-	340.00	1488	1280.0	96.0	96.3	96.1	0.88	0.86	0.79	7.4	3.2	3.0	IE3
690	Y	50	200.00	-/-	198.00	1488	1280.0	96.0	96.3	96.1	0.88	0.86	0.79	7.4	3.2	3.0	IE3
460	Δ	60	230.00	-/-	345.00	1788	1230.0	95.4	95.6	95.3	0.88	0.86	0.80	7.5	3.1	2.8	IE2
460	Δ	60	200.00	-/-	300.00	1791	1070.0	96.2	96.2	95.5	0.87	0.84	0.75	8.7	3.5	3.2	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) : 25.1 s 44.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) ²⁾	78 / 93 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	3.7000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 319	6319 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} min ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz			Frame material	cast iron
Relubrication interval/quantity DE	40 g 40 g		Net weight of the motor (IM B3)	1190 kg
NDE	6000 h		Coating (paint finish)	Corrosion Category C5 with durability Medium
Lubricants	Unirex N3		Color, paint shade	RAL7030
Regreasing device	Yes (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Grease nipple	M10x1 DIN 3404 A		Method of cooling	IC411 - self ventilated, surface cooled
Type of bearing	Locating bearing NDE			
Condensate drainage holes	Yes (standard)			

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	2xM63x1,5-2xM20x1,5
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
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Special design

L22	Bearing design for increased cantilever forces	S08	Special paint finish C5mid with medium durability
N30	Increased air humidity/temperature with 30 to 60 g water per m3 air		

Notes:

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