

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



Motor type : 1CV3314B

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 [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N	
400	Δ	50	153.60	-/-	265.00	1490	984.5	95.8	96.1	96.1	0.87	0.84	0.76	7.6	3.0	3.2	IE3
690	Y	50	153.60	-/-	155.00	1490	984.5	95.8	96.1	96.1	0.87	0.84	0.76	7.6	3.0	3.2	IE3
460	Δ	60	176.64	-/-	265.00	1785	945.0	96.2	96.5	96.2	0.88	0.85	0.78	7.5	3.1	3.0	IE3
460	Δ	60	160.00	-/-	240.00	1791	850.0	96.2	96.2	95.7	0.87	0.84	0.75	8.4	3.3	3.3	IE3
IM B3 / IM 1001		FS 315 L		990 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +45 °C / 1,000 m

Locked rotor time (hot / cold) : 27.3 s | 45.9 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73.0 / 87.0 dB(A) ²⁾	78.0 / 92.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	3.1000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40 g 40 g	3000 h	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	400.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	44.0 mm - 54.0 mm
Type of terminal box	TB1 R01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M16	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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
DI MC LVM		DT Configurator					
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	datasheet			released			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	R50	Larger terminal box
F76	Metal external fan	R62	Cast iron auxiliary terminal box (small)
N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced	Y82	Auxiliary name plate with customer data
N30	Increased air humidity/temperature with 30 to 60 g water per m3 air		

Notes:

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