

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]	$\eta^{3)}$			$\cos\phi^{3)}$			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_l/I_N	T_l/T_N	T_B/T_N	
IM B3 / IM 1001			FS 315 L		990 kg		IP55			IEC/EN 60034	IEC, DIN, ISO, VDE, EN					KS C IEC60034-2-1	

Environmental conditions : -20 °C - + °C / m

Locked rotor time (hot / cold) : 27.3 s | 45.9 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	3.1000 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	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	(K) 1 Pt1000 resistance thermometer(2 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	240.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38.0 mm - 45.0 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
 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. 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.			
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Special design

D33	For Korea, certified according to KS C IEC 60034-2-1	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
F70	Mounting of separately driven fan	R62	Cast iron auxiliary terminal box (small)
G04	Mounted rotary pulse encoder LL 861 900 220	Y50	Temperature class 155(F), utilized acc. to 130(B), customer indication of coolant temperature and/or installation altitude
L51	Bearing insulation NDE	Y81	External fan with non-standard voltage and/or frequency:
M1Y	Non-standard winding:	Y82	Auxiliary name plate with customer data

Notes:

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