

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



Motor type : 1CV1314B

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 I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
400	Δ	50	160.00	-/-	285.00	1486	1030.0	93.8	93.9	93.5	0.86	0.84	0.76	7.2	2.7	2.7	IE1
690	Y	50	160.00	-/-	166.00	1486	1030.0	93.8	93.9	93.5	0.86	0.84	0.76	7.2	2.7	2.7	IE1
460	Δ	60	184.00	-/-	285.00	1786	980.0	94.5	94.5	94.1	0.86	0.85	0.78	7.3	2.7	2.6	IE1
IM B3 / IM 1001		FS 315 L		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN									

Environmental conditions : -20° C - +40° C / 1000 m

Locked rotor time (hot / cold) : 37.2 s | 37.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76 / 90 dB(A) ²⁾	75 / 89 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	2.9000 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} 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)	940 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	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Cable diameter from ... to ...	38 mm - 45 mm
Material of terminal box	cast iron	Cable entry	2xM63x1,5
Type of terminal box	TB1 Q01	Cable gland	2 plugs
Contact screw thread	M12		
Max. cross-sectional area	240 mm ²		

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

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