

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



Motor type : 1CV2310B

SIMOTICS SD - 315 S - IM B5 - 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	110.00	-/-	195.00	1490	700.0	94.5	94.6	94.0	0.86	0.83	0.74	7.4	2.7	3.0	IE2
690	Y	50	110.00	-/-	113.00	1490	700.0	94.5	94.6	94.0	0.86	0.83	0.74	7.4	2.7	3.0	IE2
460	Δ	60	127.00	-/-	195.00	1788	680.0	95.0	95.0	94.3	0.86	0.84	0.76	7.2	2.7	2.9	IE2
460	Δ	60	110.00	-/-	169.00	1790	590.0	95.0	94.8	93.8	0.86	0.82	0.73	8.0	3.1	3.3	IE2

IM B5 / IM 3001	FS 315 S	740 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1,000 m				Locked rotor time (hot / cold) : 28.4 s 45.5 s	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72.0 / 86.0 dB(A) ²⁾	79.0 / 94.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	2.0000 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 6000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (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	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	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>			
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