

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



Motor type : 1CV2315B

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	
380	Δ	50	200.00	-/-	365.00	1490	1280.0	95.1	95.3	94.7	0.87	0.84	0.75	7.5	3.1	3.2	IE2
660	Y	50	200.00	-/-	210.00	1490	1280.0	95.1	95.3	94.7	0.87	0.84	0.75	7.5	3.1	3.2	IE2
440	Δ	60	230.00	-/-	365.00	1790	1230.0	95.4	95.5	94.9	0.87	0.86	0.77	7.7	3.4	3.1	IE2
440	Δ	60	200.00	-/-	320.00	1792	1070.0	95.4	94.7	93.6	0.86	0.82	0.72	9.0	3.8	3.2	IE2

IM B3 / IM 1001		FS 315 L	1140 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN		
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 25.6 s | 42.4 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77.0 / 92.0 dB(A) ²⁾	84.0 / 98.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	3.5000 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 6000 h	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	(H) 3 resistance thermometers PT100 (6 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

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Special design

L51	Bearing insulation NDE	S02	Special paint finish C3
Q02	Anti-condensation heating for 230 V (2 terminals)	Y53	Paint finish in other standard RAL colours
Q72	2 Pt100 resistance thermometers in basic configuration for bearings (4 terminals)		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

Notes: