

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



Motor type : 1CV3315B

SIMOTICS SD - 315 L - IM V1 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N		
380	Δ	60	185.00	250.00	335.00	1791	990.0	96.2	96.2	95.5	0.87	0.84	0.75	9.0	3.9	3.6	MG1	
IM V1 / IM 3011			FS 315 L		1190 kg		IP55	CC032A		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12				kVA Code: L		
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 25.1 s 44.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73.0 / 87.0 dB(A) ²⁾	78.0 / 93.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	3.7000 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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40 g 6000 h	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	(J) 6 resistance thermometers PT100 (12 terminals)
Type of bearing	Locating bearing DE		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	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

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					
SIEMENS	document type	datasheet		document status		customer	
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B02	Acceptance test certificate 3.1 acc. to EN 10204	Q02	Anti-condensation heating for 230 V (2 terminals)
L51	Bearing insulation NDE	Q72	2 Pt100 resistance thermometers in basic configuration for bearings (4 terminals)
M2B	380 VDI/660 VY for 60 Hz, 50-Hz power	R17	Bolt-type terminals for cable connection, supplementary pack (3 terminals)
Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings	Y82	Auxiliary name plate with customer data

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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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