

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



Motor type : 1CV2314B

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	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	
400	Δ	50	160.00	-/-	280.00	1490	1030.0	94.9	95.0	94.5	0.87	0.84	0.77	7.2	2.8	3.1	IE2
690	Y	50	160.00	-/-	162.00	1490	1030.0	94.9	95.0	94.5	0.87	0.84	0.77	7.2	2.8	3.1	IE2
460	Δ	60	184.00	-/-	275.00	1788	980.0	95.4	95.4	94.6	0.88	0.86	0.79	7.2	2.9	3.0	IE2
460	Δ	60	160.00	-/-	245.00	1790	850.0	95.0	94.7	93.5	0.87	0.83	0.75	8.3	3.1	3.2	IE2
IM B3 / IM 1001		FS 315 L		940 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 23.2 s | 39.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76.0 / 91.0 dB(A) ²⁾	80.0 / 95.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	2.8000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 319	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 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	(F) 1 temperature sensor KTY84-130 (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	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					
	document type			document status		customer	
	datasheet			released			
	title			document number			
	1LE1501-3AB43-4AF4-Z						
	L22+L51			rev.	creation date	language	Page
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Special design

L22	Bearing design for increased cantilever forces	L51	Bearing insulation NDE
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