

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



Motor type : 1CV2310C

SIMOTICS SD - 315 S - IM B3 - 6p

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	75.00	-/-	138.00	988	720.0	93.7	94.0	93.6	0.84	0.80	0.71	6.7	2.5	2.8	IE2
690	Y	50	75.00	-/-	80.00	988	720.0	93.7	94.0	93.6	0.84	0.80	0.71	6.7	2.5	2.8	IE2
460	Δ	60	90.00	-/-	143.00	1186	720.0	93.0	93.4	93.0	0.85	0.81	0.72	6.4	2.4	2.5	IE1
460	Δ	60	75.00	-/-	121.00	1190	600.0	94.1	94.1	93.2	0.83	0.78	0.67	7.5	2.7	3.0	IE2
IM B3 / IM 1001		FS 315 S		660 kg		IP65		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 24.6 s | 42.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 79.0 dB(A) ²⁾	67.0 / 82.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	2.1000 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)	Special paint finish, resistant to salt-laden air C4
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	3 Bi-metallic sensors (opener) for tripping (2 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						
	document type			document status		customer		
	datasheet			released				
		title			document number			
	1LE1501-3AC03-4AZ4-Z							
	D22+D47+H20+L51+Q3A+S03				rev.	creation date	language	Page
© Siemens AG 2021					01	2021-04-23 16:25	en	1/2

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



Motor type : 1CV2310C

SIMOTICS SD - 315 S - IM B3 - 6p

Special design

D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	L51	Bearing insulation NDE
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	Q3A	1/3 Bi-metallic sensors (opener) for tripping (2 terminals)
H20	IP 65 degree of protection	S03	Special paint finish in sea air resistant C4

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.			
		document type datasheet			document status released		customer	
		title 1LE1501-3AC03-4AZ4-Z			document number			
© Siemens AG 2021		D22+D47+H20+L51+Q3A+S03			rev. 01	creation date 2021-04-23 16:25	language en	Page 2/2