

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



Motor type : 1CV3317C

SIMOTICS SD - 315 L - 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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	200.00	-/-	365.00	992	1930.0	95.8	95.9	95.6	0.82	0.77	0.67	7.5	3.0	3.2	IE3
690	Y	50	200.00	-/-	215.00	992	1930.0	95.8	95.9	95.6	0.82	0.77	0.67	7.5	3.0	3.2	IE3
460	Δ	60	200.00	-/-	325.00	1194	1600.0	95.8	95.8	95.3	0.81	0.76	0.65	9.0	3.2	3.5	IE3
460	Δ	60	240.00	-/-	380.00	1192	1920.0	95.8	96.0	95.8	0.83	0.79	0.69	7.9	2.7	2.9	IE3
IM B3 / IM1001			FS 315 L				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 38.6 s 60.1 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 83 dB(A) ^{2) 3)}	71 / 85 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	6.3200 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6319 C4	6319 C4	Thermal class	F
permissible lateral force on (N)	X ₀ : 10600	X _{0.5} : 9900	Duty type	S1
		X _{max} : 9200	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor	1410 kg
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Coating (paint finish)	Standard paint finish C2
Lubricants	UNIREX N3		Color, paint shade	RAL7030
Regreasing device	-/-		Motor protection	without (Standard)
Grease nipple	-/-		Method of cooling	IC411 - self ventilated, surface cooled
Type of bearing	Locating bearing NDE			
Condensate drainage holes	(Standard) Yes			

Terminal box

Terminal box position	box at the top, socket left	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB3Q01	Cable entry	2xM63x1,5
Contact screw thread	6xM12	Cable gland	2 plugs

Notes:		
I_L/I_N = locked rotor current / current nominal	1) L_{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_L/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_K/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.	Link documents
IN LVM		SPC			
SIEMENS	document type				document status
	datasheet				released
	title				document number
	1LE5503-3AC73-4AA0				
© INNOMOTICS 2023			rev.	creation date	language
			951	2023-12-14	en
				Page	1/1