

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



Motor type : 1CV4312C

SIMOTICS SD - 315 M - 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	90.00	-/-	160.00	992	870.0	95.6	95.9	95.7	0.85	0.81	0.71	8.2	2.8	3.5	IE4	
690	Y	50	90.00	-/-	93.00	992	870.0	95.6	95.9	95.7	0.85	0.81	0.71	8.2	2.8	3.5	IE4	
460	Δ	60	90.00	-/-	140.00	1193	720.0	95.8	95.8	95.3	0.84	0.79	0.68	9.2	3.1	3.9	IE4	
460	Δ	60	99.00	-/-	153.00	1192	790.0	95.8	95.9	95.6	0.85	0.81	0.71	8.5	2.7	3.5	IE4	
IM B3 / IM1001			FS 315 M				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN, GB 18613-2012					Grade 2	
Environmental conditions : -40 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 22.3 s 31.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62 / 76 dB(A) ^{2) 3)}	64 / 79 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	3.7700 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6319 C3	6319 C3	Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ : 10600	X _{0.5} : 9900	Thermal class	F
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	AeroShell Grease22		Net weight of the motor	900 kg
Regreasing device	-/-		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1Q01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 plugs

Notes:

I _A /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 _A /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			
	1LE5504-3AC23-4AB4-Z						
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D03	Minimum ambient temperature -40°C	Q82	Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery
D34	China Energy Efficiency Label	R62	Cast iron auxiliary terminal box (small)
L51	Bearing insulation NDE	S02	Special paint finish C3
Q02	Anti-condensation heating for 230 V (2 terminals)		

Space heaters

Technical data: 1-phase, 230V, 218W

Notes:

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