

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



Motor type : 1CV4310C

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	
DOL duty (S1) - 155(F) to 130(B)																	
460	Δ	60	90.00	-/-	139.00	1192	720.0	95.8	96.0	95.7	0.85	0.81	0.72	8.0	2.5	3.3	IE4
IM B3 / IM1001			FS 315 S				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 25 s 34 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 77 dB(A) ^{2) 3)}	65 / 79 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	3.1800 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F
permissible lateral force on (N)	X ₀ : 10600	X _{0.5} : 9900	Duty type	S1
(N)		X _{max} : 9200	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad min} for coupling operation	-/-	32000 h	Net weight of the motor	830 kg
50 60Hz ¹⁾			Coating (paint finish)	Standard paint finish C2
Relubrication interval/quantity DE	40 g 40 g		Color, paint shade	RAL7030
NDE	6000 h		Motor protection	without (Standard)
Lubricants	UNIREX N3		Method of cooling	IC411 - self ventilated, surface cooled
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404			
Grease nipple	M10x1 DIN 3404 A			
Type of bearing	Locating bearing NDE			
Condensate drainage holes	(Standard) Yes			

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 ...	34 mm - 45 mm
Type of terminal box	TB1Q01	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 _B /M _N = break down torque / nominal torque		

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 	
SIEMENS	document type datasheet			document status released			
	title 1LE5504-3AC09-0AA4-Z			document number			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Y82	Auxiliary name plate with customer data
M1F	460 VD for 60 Hz, 60-Hz power		

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