

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



Motor type : 1CV4310D

SIMOTICS SD - 315 S - IM B3 - 8p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Safe Area																		
Electrical data																		
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	55.00	-/-	106.00	743	710.0	93.7	93.9	93.4	0.80	0.75	0.65	6.1	2.3	2.5	IE4	
690	Y	50	55.00	-/-	61.00	743	710.0	93.7	93.9	93.4	0.80	0.75	0.65	6.1	2.3	2.5	IE4	
460	Δ	60	55.00	-/-	92.00	894	590.0	94.5	94.4	93.6	0.79	0.74	0.64	6.9	2.5	2.8	IE4	
460	Δ	60	66.00	-/-	108.00	892	710.0	94.5	94.7	94.3	0.81	0.77	0.69	5.9	2.0	2.3	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) : 53.7 s 73.4 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58 / 73 dB(A) ^{2) 3)}	62 / 76 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	2.5300 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 : 12000	X _{0.5} : 10600	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	762 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	3 PTC thermistors - for tripping (2 terminals)
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	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_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	
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