

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

Safe Area

-/-

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	75.00	-/-	142.00	992	720.0	95.4	95.6	95.2	0.84	0.79	0.69	8.2	2.7	3.5	IE4
660	Y	50	75.00	-/-	82.00	992	720.0	95.4	95.6	95.2	0.84	0.79	0.69	8.2	2.7	3.5	IE4
440	Δ	60	75.00	-/-	124.00	1193	600.0	95.8	95.7	94.9	0.83	0.78	0.67	9.2	3.1	3.9	IE4
440	Δ	60	90.00	-/-	145.00	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	X _{max} : 9200	Duty type	S1
bearing lifetime	L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾		Direction of rotation	bidirectional	
	40000 h	32000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Net weight of the motor	830 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2	
Regreasing device	-/-		Color, paint shade	RAL7030	
Grease nipple	-/-		Motor protection	without (Standard)	
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled	
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_A/I_N = locked rotor current / current nominal
 M_K/M_N = locked rotor torque / torque nominal
 M_K/M_N = break down torque / nominal torque
 1) L_{10mh} according to DIN ISO 281 10/2010
 2) at rated power / at full load
 3) Value is valid only for DOL operation with motor design IC411

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 
	document type datasheet	document status released			
	title 1LE5504-3AC03-3AA4	document number			
© INNOMOTICS 2023	rev. 951	creation date 2023-12-14	language en	Page 1/1	