

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



Motor type : 1CV4310C

SIMOTICS SD - 315 S - IM B35 - 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⁾			$\cos\phi$ ³⁾			I_A/I_N I_f/I_N	M_A/M_N T_f/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)																	
400	Δ	50	75.00	-/-	135.00	992	720.0	95.4	95.6	95.2	0.84	0.79	0.69	8.2	2.7	3.5	IE4
690	Y	50	75.00	-/-	78.00	992	720.0	95.4	95.6	95.2	0.84	0.79	0.69	8.2	2.7	3.5	IE4
460	Δ	60	75.00	-/-	118.00	1193	600.0	95.8	95.7	94.9	0.83	0.78	0.67	9.2	3.1	3.9	IE4
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 B35 / IM2001			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			Direction of rotation	bidirectional	
L_{10mh} $F_{Rad, min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Net weight of the motor	886 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2	
Regreasing device	-/-		Color, paint shade	RAL7030	
Grease nipple	-/-		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
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 ...	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
 M_A/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	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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