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

Motor type : 1CV3310C **SIMOTICS SD - 315 S - IM V5 - 6p**

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

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	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
400	Δ	50	75.00	-/-	136.00	990	720.0	94.6	94.9	94.4	0.84	0.80	0.70	7.5	2.6	3.1	IE3
690	Y	50	75.00	-/-	79.00	990	720.0	94.6	94.9	94.4	0.84	0.80	0.70	7.5	2.6	3.1	IE3
460	Δ	60	90.00	-/-	142.00	1190	720.0	95.0	95.3	94.8	0.84	0.81	0.72	7.2	2.6	2.9	IE3
460	Δ	60	75.00	-/-	121.00	1192	600.0	95.0	94.9	94.1	0.82	0.77	0.67	8.4	3.1	3.3	IE3

IM V5 / IM 1011	FS 315 S	750 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 32.4 s | 49 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	63.0 / 78.0 dB(A) 2)	64.0 / 79.0 dB(A) 2)
Moment of inertia	2.6000 kg m²	
Bearing DE | NDE	NU 319	6319 C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Relubrication interval/quantity DE | NDE	40 g | 40 g 6000 h	
Lubricants	Unirex N3	
Regreasing device	Yes (standard)	
Grease nipple	M10x1 DIN 3404 A	
Type of bearing	Locating bearing NDE	
Condensate drainage holes	Yes (standard)	

External earthing terminal	Yes (standard)
Vibration severity grade	A
Insulation	155(F) to 130(B)
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	240.0 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	38.0 mm - 45.0 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	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) L10mh 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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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Special design

H00	Canopy	L22	Bearing design for increased cantilever forces

Notes:

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