

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



Motor type : 1CV4315C

SIMOTICS SD - 315 L - 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)																	
IM B3 / IM1001		FS 315 L		IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN										

Environmental conditions : -20 °C - +50 °C / 1000 m Locked rotor time (hot / cold) : 22.5 s | 32.9 s
These values are calculated. The final rating plate data will be calculated when the order is placed
The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	64 / 79 dB(A) ^{2) 3)}	66 / 81 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	5.3200 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	NU 319	6319 C3	Thermal class	F
permissible lateral force on (N) (N)	X ₀ : 38500	X _{0,5} : 23000	X _{max} : 15000	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	3000 h	Net weight of the motor	1130 kg
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Flat type lubricating nipple		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	3 resistance thermometers PT100 (6 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 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
M_K/M_N = locked rotor torque / torque nominal 2) at rated power / at full load
M_K/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
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Special design

L22	Bearing design for increased cantilever forces	N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced
M1Y	Non-standard winding:		

Notes:

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