

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



Motor type : 1CV4310A SIMOTICS SD - 315 S - IM B3 - 2p

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)																	
400	Δ	50	110.00	-/-	184.00	2988	350.0	96.0	95.9	95.1	0.90	0.88	0.82	9.1	2.5	3.7	IE4
690	Y	50	110.00	-/-	107.00	2988	350.0	96.0	95.9	95.1	0.90	0.88	0.82	9.1	2.5	3.7	IE4
460	Δ	60	110.00	-/-	161.00	3588	295.0	95.4	94.9	93.6	0.90	0.87	0.81	10.0	2.8	4.0	IE4
460	Δ	60	123.00	-/-	178.00	3588	325.0	95.4	95.1	94.0	0.91	0.89	0.83	9.1	2.6	3.6	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) : 29.9 s 47.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72 / 86 dB(A) ^{2) 3)}	77 / 91 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	1.8400 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6316 C3	6316 C3	Thermal class	F
permissible lateral force on (N)	X ₀ : 5800	X _{0.5} : 5500	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	30 g 30 g	3000 h	Net weight of the motor	916 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 ...	34 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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents		
IN LVM		SPC						
SIEMENS	document type	datasheet			document status			
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Special design

R11 Terminal box rotated through 90°, cable entry from NDE

Notes:

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