

# 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	$\Delta / Y$	f	P	P	I	n	M	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$	$M_A/M_N$	$M_K/M_N$	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 S	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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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) <sup>2) 3)</sup>	65 / 79 dB(A) <sup>2) 3)</sup>	External earthing terminal	(Standard) Yes	
Moment of inertia	3.1800 kg m <sup>2</sup>		Vibration severity grade	Grade A	
Bearing DE   NDE	6319 C3	6319 C3	Thermal class	F	
permissible lateral force on (N)	$X_{0.2}$ 10600	$X_{0.5}$ 9900	$X_{max}$ 9200	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional	
$L_{10mh}$ , $F_{Rad}$ min 50 60Hz <sup>1)</sup> for coupling operation	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	(Standard) Flat type lubricating nipple acc. DIN 3404		Color, paint shade	RAL7030	
Grease nipple	M10x1 DIN 3404 A		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 <sup>2</sup>
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      1)  $L_{10mh}$  according to DIN ISO 281 10/2010      3) Value is valid only for DOL operation with motor design IC411  
 $M_A/M_N$  = locked rotor torque / torque nominal      2) at rated power / at full load

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.	<a href="#">Link documents</a>
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## Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Y82	Auxiliary name plate with customer data
M1Y	Non-standard winding:		

Notes:

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