

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



Motor type : 1CV4317A

SIMOTICS SD - 315 L - IM B3 - 2p

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 <sup>3)</sup>			cos φ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub> I <sub>I</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub> T <sub>I</sub> /T <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub> T <sub>B</sub> /T <sub>N</sub>	IE-CL	
								4/4	3/4	2/4	4/4	3/4	2/4					
<b>DOL duty (S1) - 155(F) to 130(B)</b>																		
400	Δ	50	315.00	-/-	540.00	2986	1010.0	96.5	96.3	95.5	0.87	0.83	0.74	9.9	3.5	4.2	IE4	
690	Y	50	315.00	-/-	315.00	2986	1010.0	96.5	96.3	95.5	0.87	0.83	0.74	9.9	3.5	4.2	IE4	
460	Δ	60	315.00	-/-	470.00	3588	840.0	96.2	95.7	94.6	0.87	0.83	0.74	11.0	4.1	4.6	IE4	
460	Δ	60	355.00	-/-	530.00	3586	950.0	96.2	95.8	94.9	0.88	0.85	0.76	10.0	3.6	4.1	IE4	
IM B3 / IM1001			FS 315 L			IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 20.9 s   36.9 s								

**Mechanical data**

Sound level (SPL / SWL) at 50Hz 60Hz	81 / 96 dB(A) <sup>2) 3)</sup>	85 / 100 dB(A) <sup>2) 3)</sup>	Condensate drainage holes	(Standard) Yes
Moment of inertia	3.2700 kg m <sup>2</sup>		External earthing terminal	(Standard) Yes
Bearing DE   NDE	6316 C4		Vibration severity grade	Grade A
permissible lateral force on (N)	X <sub>0</sub> <sup>2)</sup>	X <sub>0.5</sub> <sup>2)</sup>	Thermal class	F
	5800	5500	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> F <sub>Rad, min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Frame material	cast iron
Relubrication interval/quantity DE   NDE	30 g   30 g 3000 h		Net weight of the motor	1520 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 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)			

**Terminal box**

Terminal box position	box at the top, socket left	Max. cross-sectional area	240 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	42 mm - 54 mm
Type of terminal box	TB3Q61	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 plugs

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
 M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
 M<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque  
 1) L<sub>10mh</sub> 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

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## Special design

L51 Bearing insulation NDE

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