

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



Motor type : 1CV4317B

SIMOTICS SD - 315 L - IM B3 - 4p

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 <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I <sub>I</sub> /I <sub>N</sub>	T <sub>I</sub> /T <sub>N</sub>	T <sub>B</sub> /T <sub>N</sub>	
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
400	Δ	50	315.00	-/-	570.00	1490	2000.0	96.7	96.7	96.3	0.83	0.80	0.70	8.5	3.2	3.5	IE4
690	Y	50	315.00	-/-	330.00	1490	2000.0	96.7	96.7	96.3	0.83	0.80	0.70	8.5	3.2	3.5	IE4
460	Δ	60	315.00	-/-	490.00	1792	1680.0	96.8	96.6	95.9	0.83	0.78	0.69	9.4	3.4	3.7	IE4
460	Δ	60	360.00	-/-	560.00	1790	1920.0	96.2	96.1	95.6	0.84	0.80	0.72	8.3	3.0	3.2	IE3
IM B3 / IM1001		FS 315 L		IP55		UKCA		IEC/EN 60034									
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 24.8 s   41.4 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 90 dB(A) <sup>2) 3)</sup>	81 / 95 dB(A) <sup>2) 3)</sup>	External earthing terminal	(Standard) Yes	
Moment of inertia	5.3900 kg m <sup>2</sup>		Vibration severity grade	Grade A	
Bearing DE   NDE	6319 C4		Thermal class	F	
permissible lateral force on (N)	X <sub>0</sub> : 9300	X <sub>0.5</sub> : 8650	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	40 g   40 g		6000 h	Net weight of the motor	1560 kg
Lubricants	UNIREX N3		Coating (paint finish)	Special paint finish C3	
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		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)		'SIMOTICS Connect 400' in IP65	No	
Condensate drainage holes	(Standard) Yes				

## Terminal box

Terminal box position	box at the angle 45°, socket right	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

## Notes:

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) 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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a>
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**Special design**

L51 Bearing insulation NDE

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