

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



Motor type : 1CV3317B

SIMOTICS SD Add - 315 L - IM B3 - 4p

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>			cosφ <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	-/-	560.00	1488	2000.0	96.0	96.2	96.1	0.85	0.82	0.74	7.2	2.2	2.8	IE3
690	Y	50	315.00	-/-	325.00	1488	2000.0	96.0	96.2	96.1	0.85	0.82	0.74	7.2	2.2	2.8	IE3
460	Δ	60	315.00	-/-	485.00	1790	1680.0	96.2	96.2	95.9	0.85	0.82	0.73	7.5	2.8	3.0	IE3
460	Δ	60	360.00	-/-	550.00	1788	1920.0	96.2	96.3	96.2	0.86	0.83	0.76	6.7	2.4	2.6	IE3
460	Δ	60		400	465.00	1791	1600.0	96.2	96.2	95.7	0.85	0.82	0.73	8.0	2.9	3.2	MG1
IM B3 / IM1001		FS 315 L			IP55		UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 26.4 s   50 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>	Condensate drainage holes	(Standard) Yes
Moment of inertia	5.2800 kg m <sup>2</sup>		External earthing terminal	(Standard) Yes
Bearing DE   NDE	6319 C4		Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X <sub>0</sub> : 9300	X <sub>0.5</sub> : 8650	X <sub>max</sub> : 8000	Thermal class
<b>bearing lifetime</b>	40000 h		32000 h	Duty type
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>				Direction of rotation
Relubrication interval/quantity DE   NDE	40 g   40 g		6000 h	Frame material
Lubricants	UNIREX N3			Net weight of the motor
Regreasing device	-/-			Coating (paint finish)
Grease nipple	-/-			Color, paint shade
Type of bearing	Locating bearing DE			Motor protection
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)			Method of cooling
				1 temperature sensor KTY84-130 (2 terminals)
				IC411 - self ventilated, surface cooled

**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

**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) 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

responsible dep. IN LVM	technical reference	created by SPC	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**

G04 Mounted rotary pulse encoder LL 861 900 220 L51 Bearing insulation NDE

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