

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



Motor type : 1CV3310C

SIMOTICS SD - 315 S - IM B3 - 6p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

## Electrical data

## Safe Area

U [V]	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta$ <sup>3)</sup>			$\cos\phi$ <sup>3)</sup>			$I_A/I_N$ $I_i/I_N$	$M_A/M_N$ $T_i/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
400	$\Delta$	50	75.00	-/-	136.00	990	720.0	94.6	94.9	94.4	0.84	0.80	0.70	7.5	2.6	3.1	IE3
460	$\Delta$	60	90.00	-/-	142.00	1190	720.0	95.0	95.3	94.8	0.84	0.81	0.72	7.2	2.6	2.9	IE3
460	$\Delta$	60	75.00	-/-	121.00	1192	600.0	95.0	94.9	94.1	0.82	0.77	0.67	8.4	3.1	3.3	IE3

IM B3 / IM 1001 FS 315 S 750 kg IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN

Environmental conditions : -20 °C - + °C / 1,000 m

Locked rotor time (hot / cold) : 32.4 s | 49 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72.9 / 87.3 dB(A) <sup>2)</sup>	76.7 / 91.1 dB(A) <sup>2)</sup>	External earthing terminal	Yes (standard)
Moment of inertia	2.6000 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6319 C3	6319 C3	Insulation	180(H) to 180(H)
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE   NDE	40 g	40 g	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

## Terminal box

Terminal box position	top	Max. cross-sectional area	240.0 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	38.0 mm - 45.0 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	Cable gland	4 plugs

## Notes:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = 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>			
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## Special design

B90	Documentation Package "Basic"	L51	Bearing insulation NDE
F70	Mounting of separately driven fan	N11	Temperature class 180(H), and coolant temperature max. 60°C
H02	Vibration-proof version	Q02	Anti-condensation heating for 230 V (2 terminals)

## Additional information:

### Space heaters

Technical data: 1-phase, 230 V 109W

## Notes:

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