

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



Motor type : 1CV3105D

SIMOTICS SD - 100 L - IM B3 - 8p

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				
230	$\Delta$	50	1.10	-/-	5.30	710	14.8	77.7	76.4	75.1	0.67	0.56	0.45	4.1	1.8	2.3	IE3
400	Y	50	1.10	-/-	3.05	710	14.8	77.7	76.4	75.1	0.67	0.56	0.45	4.1	1.8	2.3	IE3

IM B3 / IM 1001	FS 100 L	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1000 m			Locked rotor time (hot / cold) : 33.7 s   45.1 s	

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61.9 / 69.9 dB(A) <sub>2)</sub>	65.4 / 73.4 dB(A) <sub>2)</sub>	Vibration severity grade	A
Moment of inertia	0.0130 kg m <sup>2</sup>		Insulation	155(F) to 130(B)
Bearing DE   NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> , F <sub>Rad</sub> min 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	36 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			


## Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F01	Cable entry	2xM32x1,5
Contact screw thread	M4	Cable gland	2 plugs

## Notes:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_K/M_N$  = locked rotor torque / torque nominal  
 $M_i/M_N$  = 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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	document type datasheet	document status released	customer	
	title 1LE1503-1AD52-2AA4-Z F74	document number	rev. 01	creation date 2021-11-03 10:35
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**Special design**

F74 Sheet steel fan cowl

**Notes:**

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