

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



Motor type : 1CV3116C

SIMOTICS SD - 112 M - 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]	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$ $I_f/I_N$	$M_A/M_N$ $T_f/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
230	$\Delta$	50	3.00	-/-	11.90	965	29.5	85.6	86.8	86.6	0.74	0.66	0.54	5.8	2.3	2.7	IE3
400	Y	50	3.00	-/-	6.80	965	29.5	85.6	86.8	86.6	0.74	0.66	0.54	5.8	2.3	2.7	IE3
IM B3 / IM 1001			FS 112 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 21.8 s | 31.3 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 74 dB(A) <sup>2) 3)</sup>	65 / 77 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0146 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
$L_{10mh}$ , $F_{Rad}$ min 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Frame material	cast iron
Regreasing device	No		Net weight of the motor (IM B3)	47 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Yes (standard)		Motor protection	(A) without (Standard)
External earthing terminal	No		Method of cooling	IC411 - self ventilated, surface cooled

## 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  
 $M_A/M_N$  = 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>	<a href="#">Link documents</a>
	document type datasheet	document status released			
	title 1LE1503-1BC62-2AA4-Z	document number			
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**Special design**

F74 Sheet steel fan cowl

**Notes:**

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© Siemens AG 2023		rev. 935	creation date 2023-02-02	language en	Page 2/2

