

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



Motor type : 1CD3105B

SIMOTICS XP - 100 L - IM B5 - 4p

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

Remarks

**II 2G Ex db eb IIC T4 Gb**  
-/-

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>																	
400	$\Delta$	50	3.00	-/-	5.90	1460	19.6	87.7	88.5	87.9	0.83	0.78	0.67	8.3	2.5	3.9	IE3
IM B5 / IM 3001			FS 100 L			IP56		IEC/EN 60034									
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 12.1 s   15.9 s							

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	62 / 70 dB(A) <sup>2) 3)</sup>	62 / 74 dB(A) <sup>2) 3)</sup>	Thermal class	F
Moment of inertia	0.0124 kg m <sup>2</sup>		Duty type	S1
Bearing DE   NDE	6306 2Z C3	6306 2Z C3	Direction of rotation	bidirectional
<b>bearing lifetime</b>			Frame material	cast iron
$L_{10mh}$ , $F_{Rad}$ min 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Net weight of the motor	71 kg
Regreasing device	Without		Motor weight incl. options	121 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

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 F21	Cable entry	-/-
Contact screw thread	M4		

**Notes:**  
 $I_A/I_N$  = locked rotor current / current nominal      1)  $L_{10mh}$  according to DIN ISO 281 10/2010      3) Value is valid only for DOL operation with motor design IC411  
 $M_A/M_N$  = locked rotor torque / torque nominal      2) at rated power / at full load

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>
	document type datasheet	document status released			document number
	title 1MB1553-1AB50-4FB4-Z F12+F20+F50+H22	rev. 951	creation date 2023-12-14		
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## Special design

F12	Brake supply voltage 400 V AC, 50/60 Hz	F50	Mechanical manual brake release with lever (cannot be locked)
F20	Brake in Ex db design	H22	IP 56 degree of protection

## Additional information:

### Brake:

Description:	VIS100	Current:	.18 A
Voltage:	AC 400 V	Moment of inertia:	0.003230 kgm <sup>2</sup>

## Notes:

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