

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



Motor type : 1CD3112B

SIMOTICS XP - 112 M - IM B3 - 4p

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

Remarks **II 2G Ex db eb IIC T4 Gb**

**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>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I <sub>I</sub> /I <sub>N</sub>	T <sub>I</sub> /T <sub>N</sub>	T <sub>B</sub> /T <sub>N</sub>	
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
380	Δ	50	3.48	-/-	7.50	1465	22.7	88.9	89.0	88.0	0.79	0.72	0.59	8.2	2.8	4.2	IE3
660	Y	50	3.48	-/-	4.35	1465	22.7	88.9	89.0	88.0	0.79	0.72	0.59	8.2	2.8	4.2	IE3
440	Δ	60	3.48	-/-	6.70	1770	18.8	89.8	89.3	86.5	0.76	0.67	0.54	9.4	3.3	4.9	IE3
IM B3 / IM 1001		FS 112 M		IP55		IEC/EN 60034											

Environmental conditions : -20 °C - +55 °C / 1000 m

Locked rotor time (hot / cold) : 16.1 s | 21.8 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

**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	0.0146 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 <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Net weight of the motor	76 kg
Regreasing device	Without		Motor weight incl. options	76 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		

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

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## Special design

N07 Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced

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