

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



Motor type : 1CV3184C

SIMOTICS XP - 180 L - IM B3 - 6p

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

Remarks

II 3D Ex tc IIB T 120°C Dc

-/-

## 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	15.00	-/-	31.00	975	147.0	91.2	91.9	91.9	0.80	0.74	0.64	5.9	2.3	2.8	IE3
660	Y	50	15.00	-/-	18.00	975	147.0	91.2	91.9	91.9	0.80	0.74	0.64	5.9	2.3	2.8	IE3
440	Δ	60	18.00	-/-	32.00	1170	147.0	91.7	92.5	92.6	0.81	0.76	0.67	5.8	2.1	2.6	IE2
440	Δ	60	15.00	-/-	27.00	1178	122.0	91.7	92.0	91.4	0.79	0.73	0.61	6.8	2.5	3.0	IE3
IM B3 / IM 1001		FS 180 L		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN									

Environmental conditions : -40 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 39.1 s | 58.8 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61 / 68 dB(A) <sup>2) 3)</sup>	58 / 71 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.1900 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6210 Z C3	6210 Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> , F <sub>Rad min</sub> 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	180 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-2xM16x1,5
Contact screw thread	M5		

### Notes:

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>K</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

responsible dep.	technical reference	created by	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>
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**Special design**

D03 Minimum ambient temperature -40°C

**Notes:**

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