

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



Motor type : 1CD3082B

SIMOTICS XP - 80 M - IM V1 - 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> I <sub>I</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub> T <sub>I</sub> /T <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub> T <sub>B</sub> /T <sub>N</sub>	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	Δ	50	0.55	-/-	2.20	1440	3.6	80.8	81.1	79.3	0.78	0.70	0.57	5.9	2.1	3.1	IE3
400	Y	50	0.55	-/-	1.26	1440	3.6	80.8	81.1	79.3	0.78	0.70	0.57	5.9	2.1	3.1	IE3
460	Y	60	0.55	-/-	1.15	1750	3.0	81.1	80.8	78.2	0.74	0.66	0.53	6.9	2.7	3.8	IE3
IM V1 / IM 3011		FS 80 M		IP66		IEC/EN 60034											

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 24 s | 28.3 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62 / 70 dB(A) <sup>2) 3)</sup>	55 / 66 dB(A) <sup>2) 3)</sup>	Thermal class	F
Moment of inertia	0.0022 kg m <sup>2</sup>		Duty type	S1
Bearing DE   NDE	6204 2Z C3	6204 2Z C3	Direction of rotation	bidirectional
<b>bearing lifetime</b>			Frame material	cast iron
L <sub>10mh</sub> , F <sub>Rad min</sub> 50 60Hz <sup>1)</sup> for coupling operation	20000 h	16000 h	Net weight of the motor	31 kg
Regreasing device	Without		Motor weight incl. options	31 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	(A) without (Standard)
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 ...	9 mm - 17 mm
Type of terminal box	TB1 E21	Cable entry	-/-
Contact screw thread	M4		

## 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. 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>
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## Special design

H00 Canopy H19 IP 66 degree of protection

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