

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



Motor type : 1CV3282A

SIMOTICS XP - 280 M - IM B3 - 2p

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

Remarks

II 2D Ex tb IIIC T 120°C Db

-/-

## 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>																	
400	Δ	50	90.00	-/-	152.00	2975	290.0	95.0	95.1	94.6	0.90	0.88	0.83	7.2	2.4	3.1	IE3
690	Y	50	90.00	-/-	88.00	2975	290.0	95.0	95.1	94.6	0.90	0.88	0.83	7.2	2.4	3.1	IE3
460	Δ	60	101.00	-/-	149.00	3575	270.0	94.5	94.5	93.7	0.90	0.89	0.84	7.2	2.5	3.0	IE2
460	Δ	60	90.00	-/-	132.00	3578	240.0	95.0	94.8	93.8	0.90	0.88	0.82	8.1	2.7	3.3	IE3
IM B3 / IM 1001		FS 280 M				IP65			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

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

Locked rotor time (hot / cold) : 24.3 s | 43.2 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	74 / 88 dB(A) <sup>2) 3)</sup>	78 / 92 dB(A) <sup>2) 3)</sup>	External earthing terminal	With (standard)
Moment of inertia	0.9400 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	NU 315	6315 C3	Thermal class	F
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> , F <sub>Rad</sub> min 50 60Hz for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE   NDE	25 g   25 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	590 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10		

### 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**

L22 Bearing design for increased cantilever forces

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