

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



Motor type : 1CV3280A

SIMOTICS XP - 280 S - IM B3 - 2p

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

Remarks

II 3G Ex ec IIC T3 Gc

-/-

U	Δ / Y	f	P	P	I	n	M	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
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	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>	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	75.00	-/-	128.00	2975	240.0	94.7	94.8	94.1	0.89	0.87	0.80	6.8	2.4	3.0	IE3
690	Y	50	75.00	-/-	74.00	2975	240.0	94.7	94.8	94.1	0.89	0.87	0.80	6.8	2.4	3.0	IE3
460	Δ	60	84.00	-/-	125.00	3575	225.0	94.5	94.4	93.5	0.89	0.87	0.81	6.8	2.5	3.0	IE2
460	Δ	60	75.00	-/-	112.00	3578	200.0	94.1	93.9	92.7	0.89	0.87	0.79	7.6	2.9	3.2	IE3
IM B3 / IM 1001		FS 280 S				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 27.9 s   47.7 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	0.7700 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6315 C3	6315 C3	Thermal class	F
bearing lifetime			Duty type	S1
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	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)	510 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	(A) without (Standard)
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
Contact screw thread	M10		

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>B</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

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		<a href="#">Link documents</a>	
	Document type Technical data sheet			Document status Released			
	Document title 1MB1533-2DA03-4AA4			Document number TDS-240512-030328			
Restricted © Innomotics 2024				Revision AA	Creation date 2024-05-12		