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

#### Motor type: 1AV2073B SIMOTICS GP - 71 M - IM V1 - 4p

motor type 1 mt 2075b	Simones en 71 m im vi ip				
Client order no.	Item-No.	Offer no.			
Order no.	Consignment no.	Project			
Remarks					

Safe Area

IP55

Electrical data									-/-								
U	Δ/Υ	f	Р	Р	1	n	М		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>	
	<b>DOL duty (S1)</b> - 155(F) to 130(B)																
230	Δ	50	0.32	-/-	1.64	1395	2.2	73.0	71.9	66.3	0.67	0.57	0.41	4.6	2.9	2.9	IE2
400	Υ	50	0.32	-/-	0.94	1395	2.2	73.0	71.9	66.3	0.67	0.57	0.41	4.6	2.9	2.9	IE2
460	Υ	60	0.37	-/-	0.96	1695	2.1	72.2	71.1	66.1	0.67	0.58	0.43	5.2	3.0	3.1	IE2
460	Υ	60	0.37	-/-	0.96	1705	2.0	72.0	71.2	66.9	0.67	0.58	0.45	5.0	3.0	3.2	IE2

Environmental conditions: -20 °C - +55 °C / 1,000 m Locked rotor time (hot / cold): 38.6 s | 49.4 s

UKCA

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.

IEC/EN 60034

IEC, DIN, ISO, VDE, EN

### Mechanical data

IM V1 / IM 3011

FS 71 M

Sound level (SPL / SWL) at 50Hz 60Hz	44 / 55 dB(A) <sup>2) 3)</sup>	47 / 58 dB(A) 2) 3)	Vibration severity grade	Α	
Moment of inertia	0.0009 kg m²		Thermal class	F	
Bearing DE   NDE	6202 2Z C3	6202 2Z C3	Duty type	S1	
bearing lifetime			Direction of rotation	bidirectional	
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	20000 h	16000 h	Frame material	aluminum	
Regreasing device	Without		Net weight of the motor (IM B3)	7 kg	
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2	
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030	
Condensate drainage holes	With		Motor protection	(A) without (Standard)	
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled	

#### Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm <sup>2</sup>
Material of terminal box	Aluminium	Cable diameter from to	9 mm - 17 mm
Type of terminal box	TB1 B00	Cable entry	-/-
Contact screw thread	M4	Cable gland	-/-

#### Notes:

responsible dep.

IN LVM

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 1) L10mh according to DIN ISO 281 10/2010

3) Value is valid only for DOL operation with motor design IC411

 $M_K/M_N$  = break down torque / nominal torque

technical reference created by Technical data are subject to change! There may be discrepancies between calculated and rating plate

> released document number

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document type datasheet SPC

approved by

values. document status

1LE1001-0CB32-2GA4-Z B02+H00+H03+N07+R15

creation date 2023-11-02 Page

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B02+H00+H03+N07+R15

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language

rev.

951

creation date

2023-11-02

Motor type : 1AV2073B				CS GP - 71 M - IM	V1 - 4p			
Special de	esign							
B02	Acceptance test certification	cate 3.1 acc. to EN 10	204	N07	Temperature 5	class 155 (F), utilised to 130 (B), c 55°C, power reduced	ooling medium	
Н00	Canopy			R15	One metal cal			
H03	Condensation drain he	oles in end shield						
Notes:								
responsible o	dep.	technical reference	created by	approved by		al data are subject to change! There may be ancies between calculated and rating plate	Link documents	
IN LVM			SPC		values.			
		document type				document status		
SIE	<b>MENS</b>	datasheet title				released document number		
		1LE1001-0CB32-2						