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

Motor type : 1CV3073B **SIMOTICS SD - 71 M - IM B5 - 4p**

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

Remarks

Safe Area

Electrical data **-/-**

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	0.35	-/-	1.67	1410	2.4	77.2	76.2	71.6	0.68	0.59	0.45	5.0	3.2	3.2	IE3
400	Y	50	0.35	-/-	0.96	1410	2.4	77.2	76.2	71.6	0.68	0.59	0.45	5.0	3.2	3.2	IE3
460	Y	60	0.41	-/-	0.96	1710	2.3	78.1	77.0	72.8	0.68	0.59	0.47	5.3	3.1	3.2	IE3
460	Y	60	0.37	-/-	0.90	1720	2.0	78.2	76.9	72.5	0.66	0.57	0.45	5.7	3.6	3.8	IE3
IM B5 / IM 3001			FS 71 M			IP55	UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -40 °C - +45 °C / 1000 m | Locked rotor time (hot / cold) : 47.2 s | 55.4 s

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.

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	56 / 67 dB(A) 2) 3)	62 / 73 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0014 kg m²		Thermal class	F
Bearing DE | NDE	6202 Z C3	6202 Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	16 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 plugs

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L_{10mh} 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 department	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LVM		SPC	Created automatically		

SIEMENS

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Branding disclaimer applies

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced
D03	Minimum ambient temperature -40°C	Q02	Anti-condensation heating for 230 V (2 terminals)
M11	Stainless steel rating plate		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 12.5W