

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



Motor type : 1CV2073C

SIMOTICS SD - 71 M - IM B5 - 6p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			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
								4/4	3/4	2/4	4/4	3/4	2/4				
230	Δ	50	0.25	-/-	1.46	870	2.8	61.6	62.7	59.2	0.70	0.59	0.46	2.6	2.3	2.3	IE2
400	Y	50	0.25	-/-	0.84	870	2.8	61.6	62.7	59.2	0.70	0.59	0.46	2.6	2.3	2.3	IE2
460	Y	60	0.28	-/-	0.87	1070	2.6	59.5	60.1	57.0	0.70	0.60	0.46	2.8	2.3	2.3	IE2
460	Y	60	0.25	-/-	0.82	1100	2.4	59.5	58.9	54.7	0.64	0.54	0.41	3.0	2.7	2.7	IE2

IM B5 / IM 3001 FS 71 M 12 kg IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN

Environmental conditions : -20 °C - +40 °C / 1,000 m Locked rotor time (hot / cold) : 84.7 s | 106 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	39.0 / 50.0 dB(A) ²⁾	42.0 / 53.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0010 kg m ²		Vibration severity grade	A
Bearing DE NDE	6202 2Z C3	6202 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
$L_{10mh} F_{rad, min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current 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 = locked rotor torque / torque nominal 2) at rated power / at full load

M_i/M_N = break down torque / nominal torque

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	
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