

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



Motor type : 1CV3072B

SIMOTICS SD - 71 M - IM B5 - 4p

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					
DOL duty (S1) - 155(F) to 130(B)																		
230	Δ	50	0.25	-/-	1.19	1395	1.7	73.5	73.7	70.4	0.72	0.63	0.50	4.2	2.5	2.6	IE3	
400	Y	50	0.25	-/-	0.68	1395	1.7	73.5	73.7	70.4	0.72	0.63	0.50	4.2	2.5	2.6	IE3	
460	Y	60	0.28	-/-	0.69	1695	1.6	73.4	73.3	70.0	0.72	0.63	0.51	4.5	2.5	2.6	IE3	
460	Y	60	0.25	-/-	0.63	1715	1.4	73.4	72.3	68.0	0.68	0.59	0.47	4.9	2.9	3.1	IE3	
IM B5 / IM 3001			FS 71 M			IP55		IEC/EN 60034			IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 54.9 s 63.5 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	44 / 55 dB(A) ²⁾	47 / 58 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0009 kg m ²		Thermal class	F
Bearing DE NDE	6202 2Z C3	6202 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} , F_{Rad} min 50 60Hz Lubricants	40000 h	32000 h	Frame material	cast iron
Regreasing device	Unirex N3		Net weight of the motor (IM B3)	13 kg
Grease nipple	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

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 mm - 17 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

Notes:

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) L10mh 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. 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>	Link documents
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