

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



Motor type : 1AV2072A

SIMOTICS GP - 71 M - IM B14 - 2p

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_l/I_N	M_A/M_N T_l/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	0.37	-/-	1.65	2770	1.3	69.5	70.5	67.9	0.81	0.72	0.59	4.1	2.5	2.5	IE2
400	Y	50	0.37	-/-	0.95	2770	1.3	69.5	70.5	67.9	0.81	0.72	0.59	4.1	2.5	2.5	IE2
460	Y	60	0.43	-/-	0.93	3370	1.2	72.0	72.5	69.9	0.81	0.73	0.61	4.6	2.5	2.5	IE2
460	Y	60	0.37	-/-	0.84	3410	1.0	72.0	71.4	67.8	0.77	0.69	0.56	5.1	2.9	3.0	IE2
IM B14 / IM 3601		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) : 31.6 s 43.2 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	52 / 63 dB(A) ^{2) 3)}	57 / 68 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0003 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 ¹⁾ for coupling operation	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	6 kg
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
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 B00	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
 M_k/M_N = locked rotor torque / torque nominal
 M_l/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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Special design

G11 Rotary pulse encoder Sendix 5020 (HTL) Y84 Additional data on the rating plate and on the packing label :

Notes:

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