

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



Motor type : 1AV3073A

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]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_f/I_N	T_f/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
IM B14 / IM 3601			FS 71 M			IP55	UKCA	IEC/EN 60034			IEC, EN, UL						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 22.9 s 28.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	57 / 68 dB(A) ^{2) 3)}	62 / 73 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0006 kg m ²		Thermal class	F
Bearing DE NDE	6202 2Z C3	6202 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
$L_{10mh} F_{Rad, min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	8 kg
Grease nipple	-/-		Coating (paint finish)	No paint finish, however with primer
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	1/3 Bi-metallic sensors (opener) 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 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 B10	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_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

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

D31	Version according to UL with "Recognition Mark"	M1Y	Non-standard winding:
F01	Mounting of holding brake	Q3A	1/3 Bi-metallic sensors (opener) for tripping (2 terminals)
F10	Brake supply voltage 24 V DC	S01	No paint finish, however with primer

Additional information:

Brake:

Description:	BFK458-06	Current:	.83 A
Voltage:	DC 24 V	Moment of inertia:	0.000013 kgm ²

Notes:

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