

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



Motor type : 1AV2073A

SIMOTICS GP - 71 M - IM B3 - 2p

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

Remarks

Safe Area

-/-

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	0.55	-/-	2.35	2780	1.9	74.1	75.2	72.9	0.80	0.72	0.58	4.6	2.6	2.6	IE2
400	Y	50	0.55	-/-	1.34	2780	1.9	74.1	75.2	72.9	0.80	0.72	0.58	4.6	2.6	2.6	IE2
460	Y	60	0.63	-/-	1.34	3380	1.8	74.0	74.4	71.8	0.80	0.73	0.60	5.1	2.9	2.9	IE2
460	Y	60	0.55	-/-	1.23	3420	1.5	74.0	73.4	69.6	0.76	0.68	0.55	5.4	3.4	3.4	IE2
IM B3 / IM 1001		FS 71 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 22.6 s 32.3 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	0.0004 kg m²		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
Regreasing device	Without		Net weight of the motor (IM B3)	7 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			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								

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

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