

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



Motor type : 1AV2072B SIMOTICS XP - 71 M - IM B35 - 4p

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

Remarks

Electrical data II 3G Ex ec IIC T3 Gc
-/-

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)																	
220	Δ	50	0.20	-/-	1.26	1410	1.4	68.4	65.9	57.5	0.61	0.51	0.36	4.5	2.9	3.0	IE2
380	Y	50	0.20	-/-	0.73	1410	1.4	68.4	65.9	57.5	0.61	0.51	0.36	4.5	2.9	3.0	IE2
440	Y	60	0.23	-/-	0.70	1710	1.3	69.8	67.3	59.6	0.62	0.52	0.36	5.0	2.9	3.2	IE2
440	Y	60	0.24	-/-	0.72	1715	1.3	69.8	67.9	62.0	0.63	0.54	0.41	4.5	2.9	3.2	IE2
IM B35 / IM 2001		FS 71 M				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +60 °C / 1,000 m Locked rotor time (hot / cold) : 39.1 s | 49.3 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	44 / 55 dB(A) ^{2) 3)}	47 / 58 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0008 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)	6 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	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 B20	Cable entry	1xM25x1,5
Contact screw thread	M4		

Notes:
I_A/I_N = locked rotor current / current nominal 1) L_{10mh} 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_B/M_N = break down torque / nominal torque

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
IN LVM		SPC					
	document type	datasheet			document status	released	
	title	1MB1031-0CB22-1JA4-Z			document number		
© INNOMOTICS 2023	N08	rev.	creation date		language	Page	
		951	2023-12-14		en	1/2	

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SIMOTICS XP - 71 M - IM B35 - 4p

Special design

N08

Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 60°C, power reduced

Notes:

responsible dep.

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SIEMENS

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