

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



Motor type: 1AV2073B

SIMOTICS GP - 71 M - IM B14 - 4p

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

Remarks

Electrical data

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	
230	Δ	50	0.37	-/-	1.77	1380	2.5	72.7	73.2	69.9	0.72	0.63	0.49	3.8	2.3	2.4	IE2
400	Y	50	0.37	-/-	1.02	1380	2.5	72.7	73.2	69.9	0.72	0.63	0.49	3.8	2.3	2.4	IE2
460	Y	60	0.43	-/-	1.04	1680	2.5	72.0	72.4	69.4	0.72	0.63	0.50	4.0	2.4	2.4	IE2
460	Y	60	0.37	-/-	0.96	1705	2.0	72.0	71.2	66.9	0.67	0.58	0.45	4.4	2.8	2.8	IE2
IM B14 / IM 3601		FS 71 M		kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	44.0 / 55.0 dB(A) ²⁾	47.0 / 58.0 dB(A) ²⁾	Condensate drainage holes	Yes -/-
Moment of inertia	0.0009 kg m ²		External earthing terminal	Yes -/-
Bearing DE NDE	6202 2Z C3	6202 2Z C3	Vibration severity grade	A
bearing lifetime			Insulation	155(F) to 130(B)
L _{10mh} F _{Rad max} acc. catalogue 50 60Hz ¹⁾	20000 h	16000 h	Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
Regreasing device	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)
			Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Material of terminal box	Aluminium	Cable entry	1xM25x1,5
Type of terminal box	TB1 B00	Cable gland	1 plug -/-
Contact screw thread	M4		
Max. cross-sectional area	1.5 mm ²		

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.	technical reference	created by	approved by				
DI MC LVM		DT Configurator					
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	title	1LE1001-0CB32-2KA4-Z		document number			
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Special design

H03	Condensation drain holes in end shield	H04	External grounding at housing
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Notes:

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DI MC LVM

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DT Configurator

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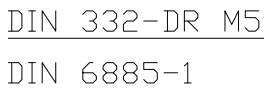
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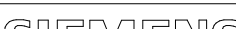
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Tolerance	Surface	Material	Weight -	Scale  mm			
1LE1001-0CB32-2KA4-Z H03+H04	Author	Dimensional drawing Maßezeichnung					
	Creator				DTK		
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