Customer information packet

MM07374-S-AP

M3AA 71 B 4P B3 .37KW

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Motor data sheet

IEC LV MOTORS

M3AA 71B 4

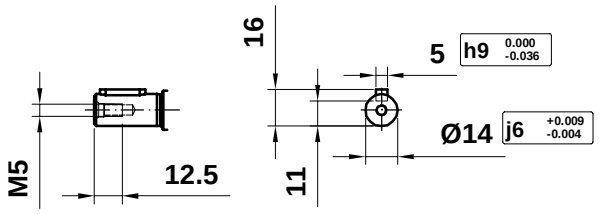
Definition	Data	Unit	Remarks
Product code	3GAA072312-**E		CalcId: 3GZF021007-232
Voltage code	S		
Type/Frame	M3AA 71B 4		
Design	BASIC		
Efficiency class	IE2		IEC 60034-2-1:2014
Rated output P_N	0.37	kW	
Rated voltage U_N	460	V	± 5 % (IEC 60034-1)
Rated frequency f_N	60	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	1725	r/min	
Rated current I_N	0.86	A	
Starting current I_S/I_N	6.1		
Nominal torque T_N	2.04	Nm	
Locked rotor torque T_l/T_N	3		
Maximum torque T_b/T_N	3.5		
Efficiency - full load 100%	72.0	%	IEC 60034-2-1:2014
Efficiency - 75%	71.2	%	
Efficiency - 50%	66.2	%	
Power factor - full load 100%	0.7		
Bearing DE/NDE	6203-2Z/C3 6202-2Z/C3		
Sound pressure level L_{PA} dB	48	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD^2 kgm^2	0.001	kg-m²	
Weight	5.9	kg	
Ambient temperature	40	°C	
Motor losses at VSD operating points	**losses in efficiency %**	**losses in Watt**	**losses in relative to nom. power %**
VSD Speed 90% Torque 100%	69.3	148	39.9
VSD Speed 50% Torque 100%	59.1	128	34.6
VSD Speed 25% Torque 100%	35.1	171	46.2
VSD Speed 90% Torque 50%	61.6	104	28.1
VSD Speed 50% Torque 50%	53.9	79	21.4
VSD Speed 50% Torque 25%	40.4	68	18.4
VSD Speed 25% Torque 25%	29.2	56	15.2

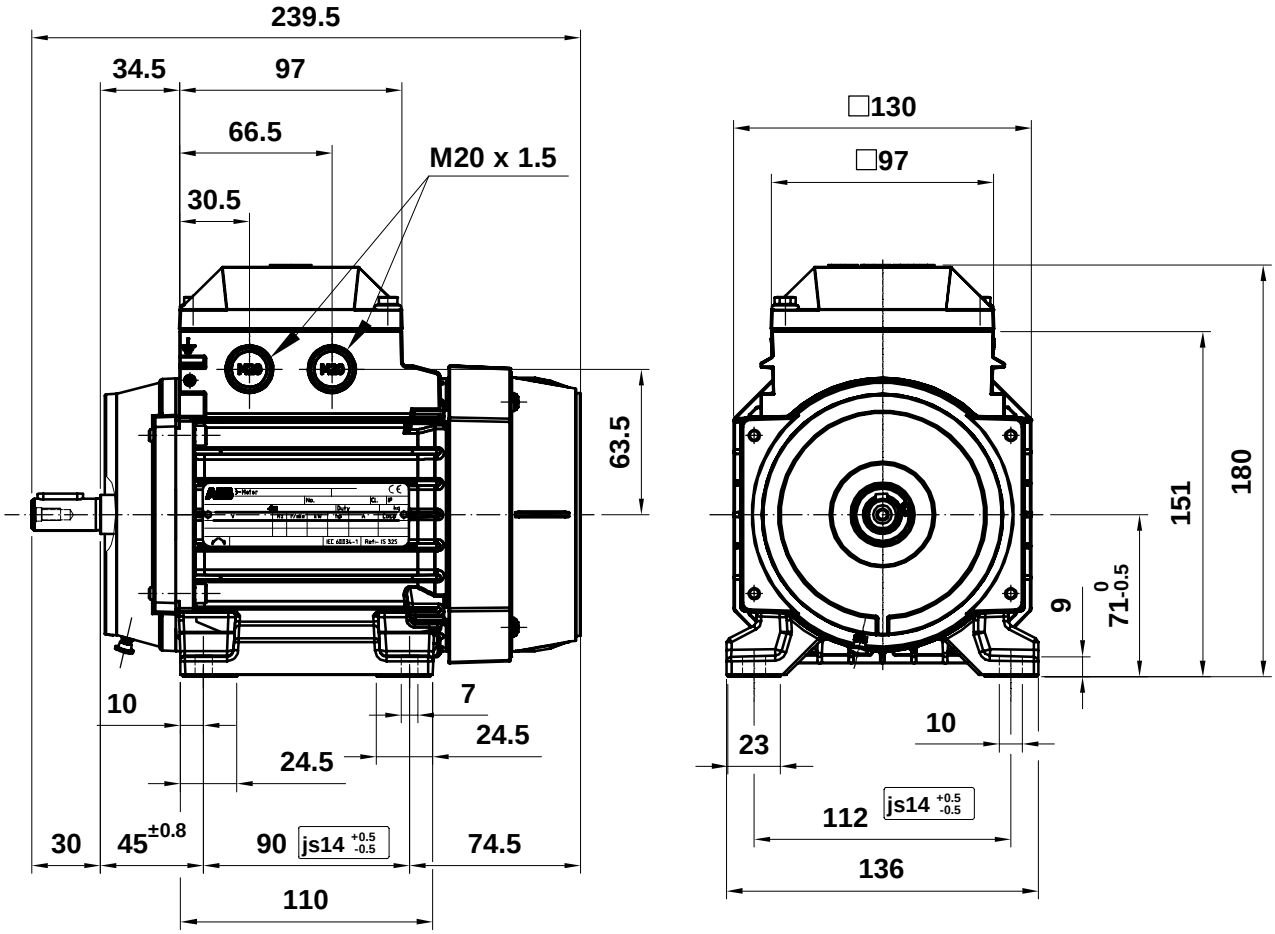
Motor data sheet

IEC LV MOTORS

M3AA 71B 4

Definition	Data	Unit	Remarks
Product code	3GAA072312-**E		CalcId: 3GZF021007-232
Voltage code	S		
Type/Frame	M3AA 71B 4		
Design	BASIC		
Efficiency class	IE2		IEC 60034-2-1:2014
Rated output P_N	0.37	kW	
Rated voltage U_N	400	V	± 5 % (IEC 60034-1)
Rated frequency f_N	50	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	1411	r/min	
Rated current I_N	0.96	A	
Starting current I_S/I_N	5.2		
Nominal torque T_N	2.5	Nm	
Locked rotor torque T_l/T_N	2.6		
Maximum torque T_b/T_N	2.9		
Efficiency - full load 100%	72.7	%	IEC 60034-2-1:2014
Efficiency - 75%	73.3	%	
Efficiency - 50%	69.9	%	
Power factor - full load 100%	0.74		
Bearing DE/NDE	6203-2Z/C3 6202-2Z/C3		
Sound pressure level L_{PA} dB	45	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD^2 kgm^2	0.001	kg-m²	
Weight	5.9	kg	
Ambient temperature	40	°C	
Motor losses at VSD operating points	**losses in efficiency %**	**losses in Watt**	**losses in relative to nom. power %**
VSD Speed 90% Torque 100%	70.1	142	38.4
VSD Speed 50% Torque 100%	56.9	140	37.9
VSD Speed 25% Torque 100%	39.2	144	38.8
VSD Speed 90% Torque 50%	65.2	89	24.0
VSD Speed 50% Torque 50%	56.4	72	19.3
VSD Speed 50% Torque 25%	44.1	59	15.8
VSD Speed 25% Torque 25%	32.2	49	13.2

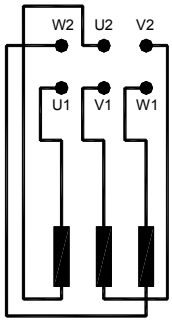




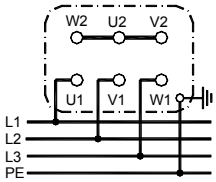
M3AA 071

Motor Dimension Print	Motor Type : M3AA 071	Document Nº : A1.5010 / 3D A2.5010
Description : Motor foot mounted IM1001 / Motor con patas IM1001		
Unit : Discrete Automation & Motion - Fáb. Motores Date : 2012-01-26	Issued by : ERM/J.L. Bayo Approved by : ERM/G.Blanes	Replaces : 2009-03-18 Replaced by :
Asea Brown Boveri, S.A.	Customer Reference :	

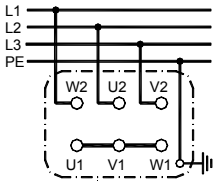
Diagram of connection
Anschluss-Schema
Schema de branchement

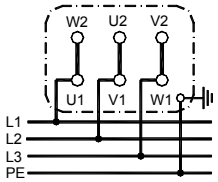


Connection of terminals
Anschluss des Motors
Branchement des bornes

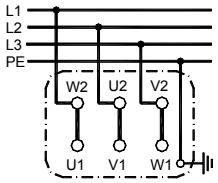


Y-connection
Y-Schaltung
Connection etoile





D-connection
D-Schaltung
Connection triangle





Direction of rotation with phase sequence shown in picture
Drehrichtung nach Schaltbild
Direction de rotation avec branchement ci-dessus



Direction of rotation with reversed phase sequence
Drehrichtung mit umgekehrter Phasenfolge
Direction de rotation avec sequence de phase reversée

Motor No Maschine Nr No du moteur	
ABB Oy, Motors and Generators	3GZF321100-1 F

Connection Diagram

Document No: 3GZF321100-1 F

Description: 3-PHASE SQUIRREL-CAGE MOTOR

Unit:	Motors and Generators	Issued by:	P Kurssi	Replaces:
Date:	07.01.2013	Approved by:	P Peltonen	Replaced by:

ABB Oy | Customer Reference: