Customer information packet

MVM07374D-S-AP

M3AA 71 B 4P B5 .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		CA501 Catalog number MVM07374D-S-AP B5 ~~MVM07374C-S-AP B14~~
Type/Frame	M3AA 71B 4		
Design	CENELEC		
Efficiency class	IE2		Acc. to IEC 60034-30-1:2014
Rated output P_N	0.37	kW	Suitable for use at 230VD; 60Hz
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	%	Acc. to IEC 60034-2-1
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	

Motor losses at VSD operating points	losses in efficiency %	losses in Watt	losses in relative to nom. power %
Speed 90% Torque 100%	69.3	148	39.9
Speed 50% Torque 100%	59.1	128	34.6
Speed 25% Torque 100%	35.1	171	46.2
Speed 90% Torque 50%	61.6	104	28.1
Speed 50% Torque 50%	53.9	79	21.4
Speed 50% Torque 25%	40.4	68	18.4
Speed 25% Torque 25%	29.2	56	15.2

All data subject to tolerances in accordance with IEC. Data subject to changes.

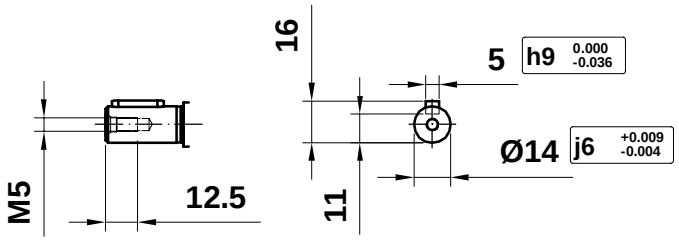
Motor data sheet

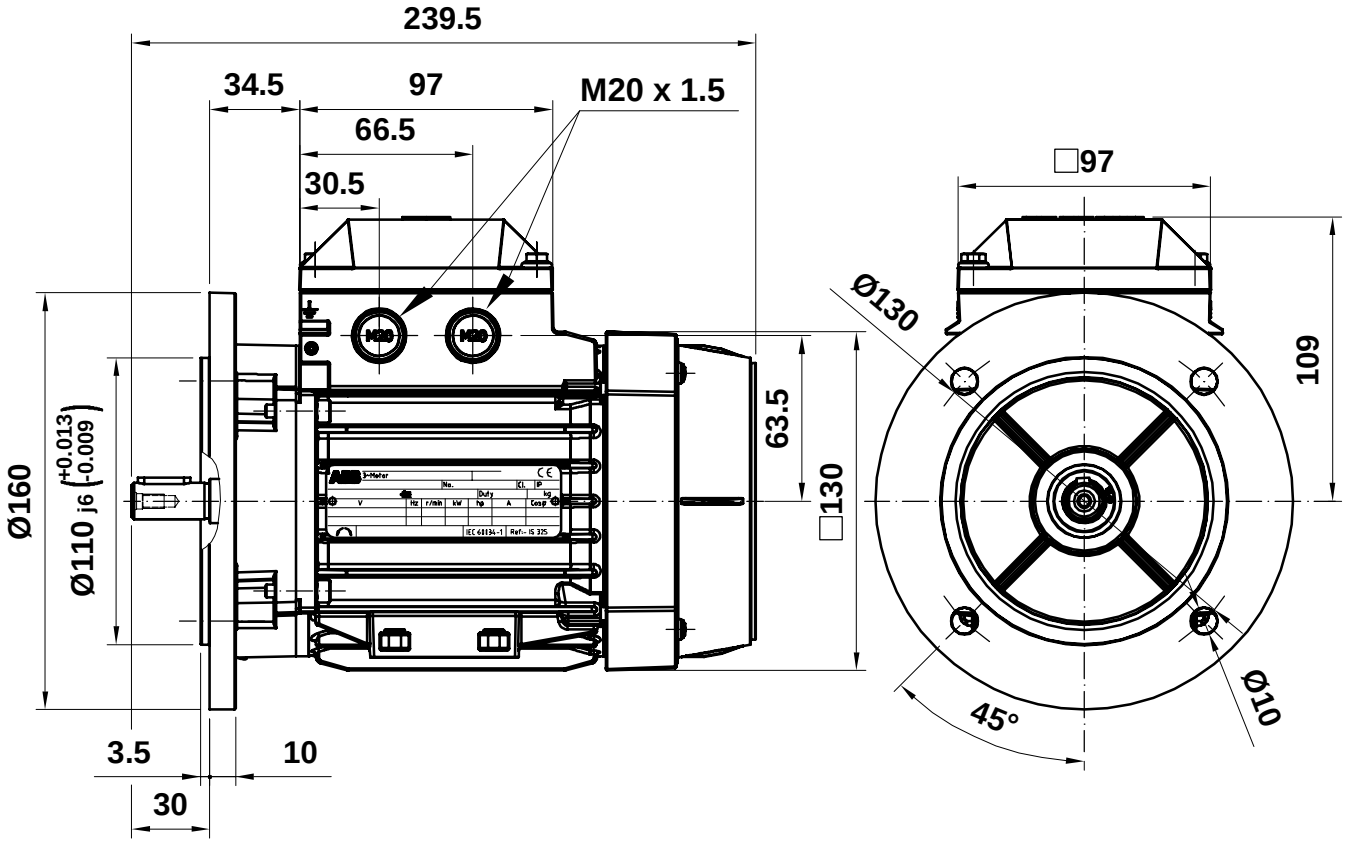
IEC LV MOTORS

M3AA 71B 4

Definition	Data	Unit	Remarks
Product code	3GAA072312-**E		CalcId: 3GZF021007-234
Voltage code	D		CA501 Catalog number MVM07374D-S-AP B5 ~~MVM07374C-S-AP B14~~
Type/Frame	M3AA 71B 4		
Design	CENELEC		
Efficiency class	IE2		Acc. to IEC 60034-30-1:2014
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	%	Acc. to IEC 60034-2-1
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	
Motor losses at VSD operating points	**losses in efficiency %**	**losses in Watt**	**losses in relative to nom. power %**
Speed 90% Torque 100%	70.1	142	38.4
Speed 50% Torque 100%	56.6	142	38.3
Speed 25% Torque 100%	38.2	150	40.4
Speed 90% Torque 50%	65.3	88	23.9
Speed 50% Torque 50%	56.4	72	19.3
Speed 50% Torque 25%	44.1	59	15.8
Speed 25% Torque 25%	32.3	48	13.1

All data subject to tolerances in accordance with IEC. Data subject to changes.

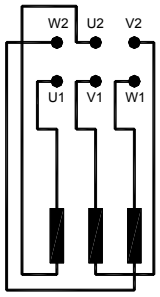




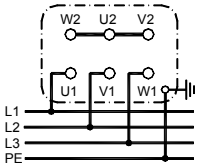
M3AA 071

Motor Dimension Print	**Motor Type :** M3AA 071	**Document Nº :** A1.5011 / 3D A2.5011
Description : Motor flange mounted IM3001 / Motor con brida IM3001		
Unit : Discrete Automation & Motion - Fáb. Motores **Date :** 2012-01-26	**Issued by :** ERM/J.L. Bayo **Approved by :** ERM/G.Blanes	**Replaces :** 2010-12-03 **Replaced by :**
Asea Brown Boveri, S.A.	**Customer Reference :**	

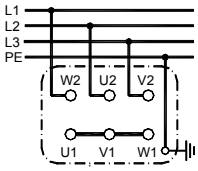
Diagram of connection
Anschluss-Schema
Schema de branchement

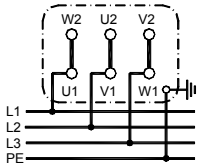


Connection of terminals
Anschluss des Motors
Branchement des bornes

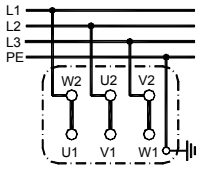


Y-connection
Y-Schaltung
Connection etoile





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	3GZF321100-1 E

Connection Diagram	Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR	

Unit:	Motors	Issued by:	M Prusi	Replaces:
Date:	21.09.2005	Approved by:	Jari Raittila	Replaced by:

ABB Oy	Customer Reference:	

CERTIFICATE OF COMPLIANCE

Certificate Number	20150727-E473868
Report Reference	E473868-20150722
Issue Date	2015-JULY-27
Issued to:	ABB Oy, Motors and Generators Strömbergin Puistotie 5A FIN-65320 Vaasa FINLAND
This is to certify that representative samples of	MOTORS & MOTORS, INVERTER DUTY See addendum page for models
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 1004-1 Rotating Electrical Machines – General Requirements UL 1004-8 Inverter Duty Motors CSA C22.2 No. 100-14 Motors and Generators
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

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CERTIFICATE OF COMPLIANCE

Certificate Number	20150727-E473868
Report Reference	E473868-20150722
Issue Date	2015-JULY-27

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models

USL, CNL - Motor series M3BP, M3BPW, M3BPV, M3BC, M3BL, M3BJ, M3LJ, M3LP, and M3RP followed by 71, 80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280, 315, 355, 400, or 450 followed by letters e.g. S, SM, M or ML etc., may be followed by A to Z, followed by 2 to 16 or A to Z, followed by additional numbers or letters. See NOMENCLATURE EXPLANATION page 2 for details.

USL, CNL - Motor series M3BN followed by 40x, 44x, 58x, 68x, or 72x (where x is 0 to 9), followed by letters e.g. K, KH etc., may be followed by A to Z, followed by 2 to 16 or A to Z, followed by additional numbers or letters. See NOMENCLATURE EXPLANATION page 2 for details.

USL, CNL – Inverter Duty Motor series M3BC, M3BP, M3BPW, M3BL, M3BJ, M3LJ, M3LP and M3RP followed by 71, 80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280, 315, 355, 400, or 450 followed by letters e.g. S, SM, M or ML etc., may be followed by A to Z, followed by 2 to 16 or A to Z, followed by additional numbers or letters. See NOMENCLATURE EXPLANATION page 2 for details.

USL, CNL - Inverter Duty Motor series M3BN followed by 40x, 44x, 58x, 68x, or 72x (where x is 0 to 9), followed by letters e.g. S, SM, M or ML etc., may be followed by A to Z, followed by 2 to 16 or A to Z, followed by additional numbers or letters. See NOMENCLATURE EXPLANATION page 2 for details.

Motors covered by this Report may additionally be designated for “Smoke Extraction Duty” per EN 12101-3.

Bruce Mahrenholz, Director North American Certification Program

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