# Customer information packet

MM07552-S-AP

M3AA 71 B 2P B3 .55KW

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ABB MOTORS AND GENERATORS

# Motor data sheet

## M2AA 71B 2

| Definition | Data | Unit | Remarks |
|---|---|---|---|
| Product code | 3GAA071002-**E | | |
| Voltage code | S | | |
| Type/Frame | M2AA 71B 2 | | |
| Design | CENELEC | | |
| Efficiency class | IE4 | | |
| Rated output $P_N$ | 0.55 | kW | |
| Rated voltage $U_N$ | 460 | V | ± 5 % (IEC 60034-1) |
| Rated frequency $f_N$ | 60 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed $n_N$ | 3420 | r/min | |
| Rated current $I_N$ | 1.12 | A | |
| Starting current $I_S/I_N$ | 6.6 | | |
| Nominal torque $T_N$ | 1.53 | Nm | |
| Locked rotor torque $T_l/T_N$ | 3.2 | | |
| Maximum torque $T_b/T_N$ | 3.7 | | |
| Efficiency - full load 100% | 81.9 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 82.6 | % | |
| Efficiency - 50% | 80.7 | % | |
| Power factor - full load 100% | 0.75 | | |
| Bearing DE/NDE | 6203-2Z/C3 6202-2Z/C3 | | |
| Sound pressure level $L_{PA}$ dB | 61 | dB(A) | +3dB(A) |
| Moment of inertia J = ¼ $GD^2$ $kgm^2$ | 0 | kg-m² | |
| Weight | 5.9 | kg | |

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

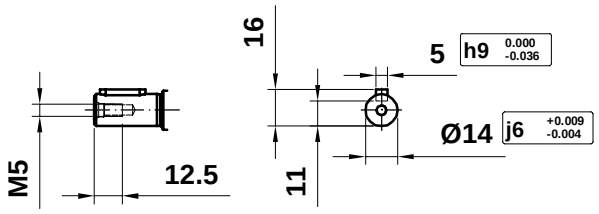
ABB MOTORS AND GENERATORS

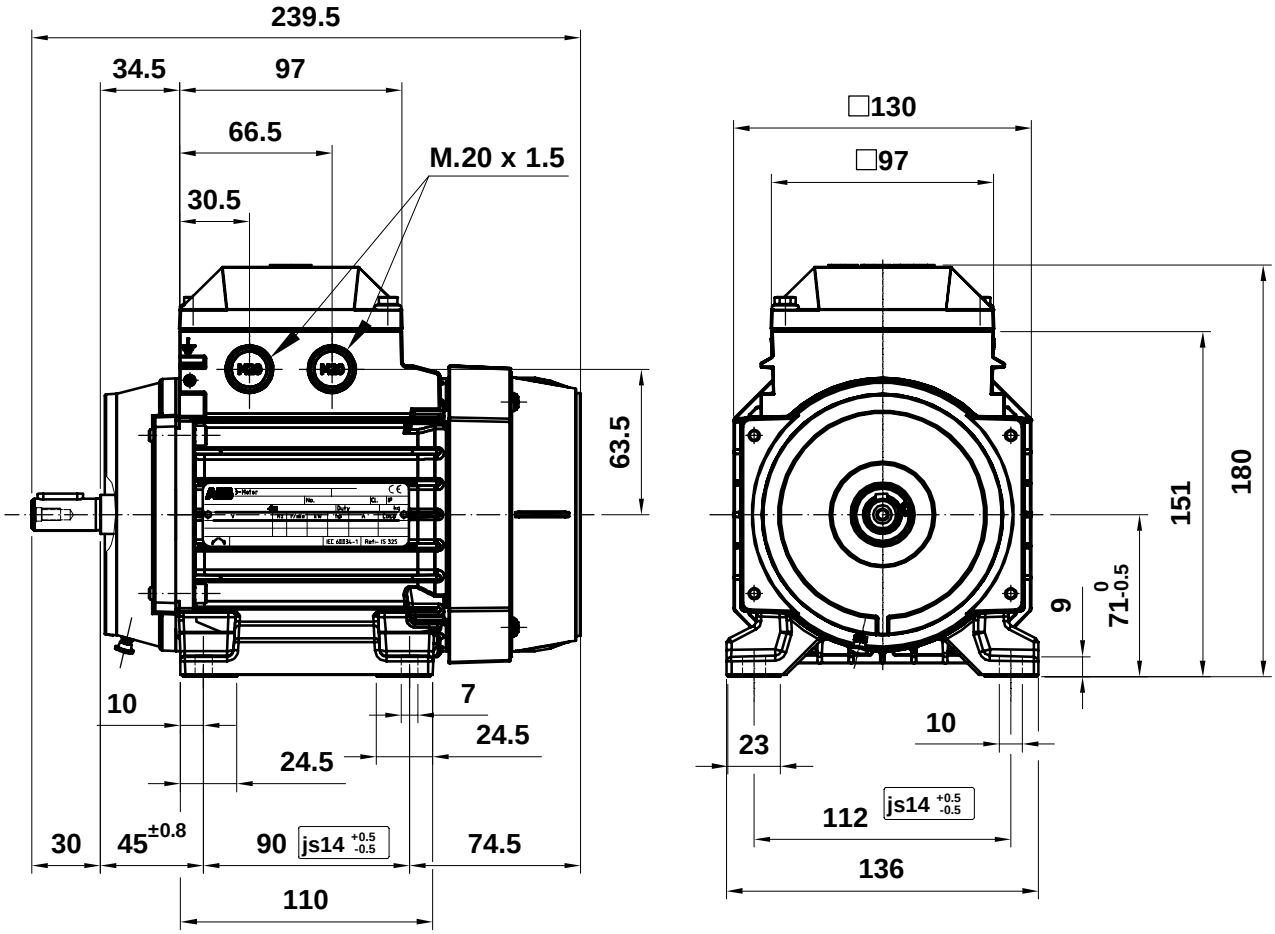
# Motor data sheet

## M2AA 71B 2

| Definition | Data | Unit | Remarks |
|---|---|---|---|
| Product code | 3GAA071002-**E | | |
| Voltage code | S | | |
| Type/Frame | M2AA 71B 2 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | |
| Rated output $P_N$ | 0.55 | kW | |
| Rated voltage $U_N$ | 400 | V | ± 5 % (IEC 60034-1) |
| Rated frequency $f_N$ | 50 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed $n_N$ | 2790 | r/min | |
| Rated current $I_N$ | 1.29 | A | |
| Starting current $I_S/I_N$ | 5.3 | | |
| Nominal torque $T_N$ | 1.88 | Nm | |
| Locked rotor torque $T_l/T_N$ | 2.9 | | |
| Maximum torque $T_b/T_N$ | 2.8 | | |
| Efficiency - full load 100% | 78.4 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 79.8 | % | |
| Efficiency - 50% | 78.7 | % | |
| Power factor - full load 100% | 0.78 | | |
| Bearing DE/NDE | 6203-2Z/C3 6202-2Z/C3 | | |
| Sound pressure level $L_{PA}$ dB | 58 | dB(A) | +3dB(A) |
| Moment of inertia J = ¼ $GD^2$ $kgm^2$ | 0 | kg-m² | |
| Weight | 5.9 | kg | |

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

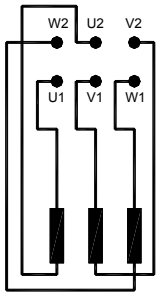


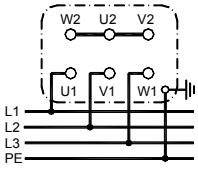

# M2AA 071

| Motor Dimension Print | Motor Type : M2AA 071 | Document Nº : A1.5400 / 3D A2.5010 |
|---|---|---|
| Description : Motor foot mounted IM1001 / Motor con patas IM1001 | | |
| Unit : Discrete Automation and Motion - Fáb. Motores<br>Date : 2012-02-08 | Issued by : ERM / L. Moreno<br>Approved by : ERM / G.Blanes | Replaces :<br>Replaced by : |
| Asea Brown Boveri, S.A. | Customer Reference : | |

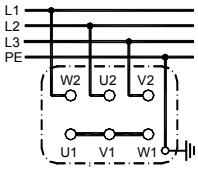
Diagram of connection
Anschluss-Schema
Schema de branchement

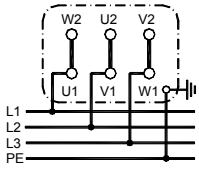



Connection of terminals
Anschluss des Motors
Branchement des bornes

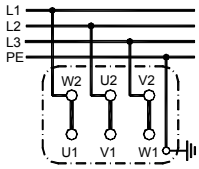



Y-connection
Y-Schaltung
Connection etoile




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



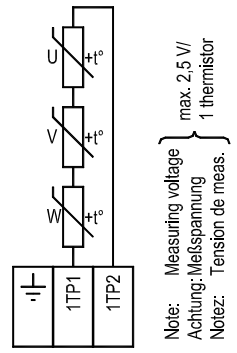
Direction of rotation with reversed phase sequence
Drehrichtung mit umgekehrter Phasenfolge
Direction de rotation avec sequence de phase reversée

| Motor No<br>Maschine Nr<br>No du moteur | |
|---|---|
| ABB Oy, Motors | 3GZF321100-1 E |

| | |
|---|---|
| **Connection Diagram** | Document No:<br>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: | |




PTC-THERMISTORS
PTC-TEMPERATURFÜHLER
SONDES THERMIQUE PTC

Motor No
Maschine Nr
Moteur No

ABB Oy, Motors | 3GZF321200-1 D

## Accessory Connection Diagram

Document No: 3GZF321200-1 D

Description: PTC-THERMISTORS

| | | | | |
|---|---|---|---|---|
| Unit: | Motors | Issued by: | K.Högkvist | Replaces: |
| Date: | 30.11.2005 | Approved by: | M.Prusi | Replaced by: |

**ABB Oy** | Customer Reference: