# Customer information packet

EMM11042-S-AP

M3AA 112MB 2P B3 4KW

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ABB MOTORS AND GENERATORS

# Motor data sheet

## M3AA 112MB 2

| Definition | Data | Unit | Remarks |
|---|---|---|---|
| Product code | 3GAA111320-**K | | |
| Voltage code | S | | |
| Type/Frame | M3AA 112MB 2 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | |
| Rated output $P_N$ | 4 | kW | |
| Rated voltage $U_N$ | 460 | V | ± 5 % (IEC 60034-1) |
| Rated frequency $f_N$ | 60 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed $n_N$ | 3500 | r/min | |
| Rated current $I_N$ | 6.2 | A | |
| Starting current $I_S/I_N$ | 10 | | |
| Nominal torque $T_N$ | 10.9 | Nm | |
| Locked rotor torque $T_l/T_N$ | 3.6 | | |
| Maximum torque $T_b/T_N$ | 4.8 | | |
| Efficiency - full load 100% | 88.5 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 88.92 | % | |
| Efficiency - 50% | 87.86 | % | |
| Power factor - full load 100% | 0.9 | | |
| Bearing DE/NDE | 6306-2Z/C3 6205-2Z/C3 | | |
| Sound pressure level $L_{PA}$ dB | 71 | dB(A) | +3dB(A) |
| Moment of inertia J = ¼ $GD^2$ $kgm^2$ | 0.01 | kg-m² | |
| Weight | 38 | kg | |

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

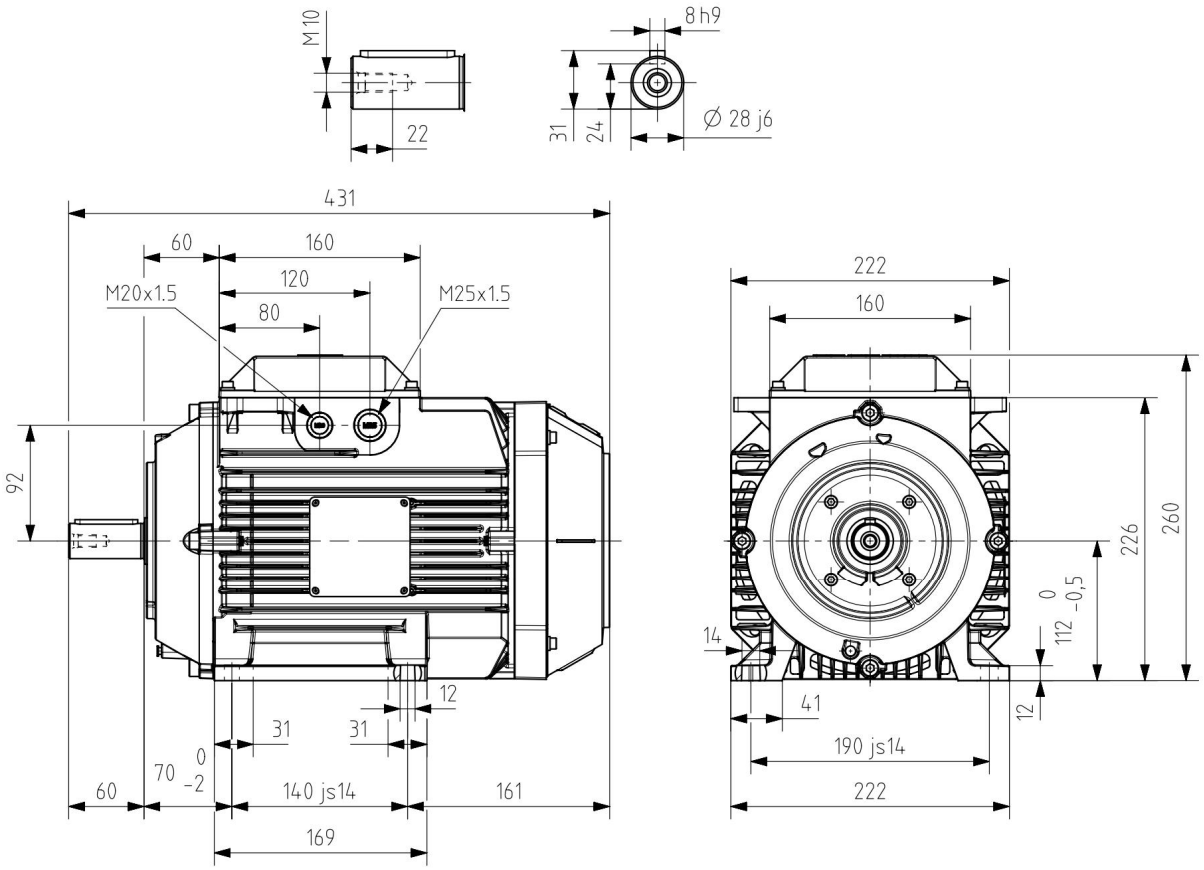
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# Motor data sheet

## M3AA 112MB 2

| Definition | Data | Unit | Remarks |
|---|---|---|---|
| Product code | 3GAA111320-**K | | |
| Voltage code | S | | |
| Type/Frame | M3AA 112MB 2 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | |
| Rated output $P_N$ | 4 | kW | |
| Rated voltage $U_N$ | 400 | V | ± 5 % (IEC 60034-1) |
| Rated frequency $f_N$ | 50 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed $n_N$ | 2888 | r/min | |
| Rated current $I_N$ | 7.1 | A | |
| Starting current $I_S/I_N$ | 8.4 | | |
| Nominal torque $T_N$ | 13.2 | Nm | |
| Locked rotor torque $T_l/T_N$ | 3.2 | | |
| Maximum torque $T_b/T_N$ | 4 | | |
| Efficiency - full load 100% | 88.5 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 89.8 | % | |
| Efficiency - 50% | 90 | % | |
| Power factor - full load 100% | 0.91 | | |
| Bearing DE/NDE | 6306-2Z/C3 6205-2Z/C3 | | |
| Sound pressure level $L_{PA}$ dB | 68 | dB(A) | +3dB(A) |
| Moment of inertia J = ¼ $GD^2$ $kgm^2$ | 0.01 | kg-m² | |
| Weight | 38 | kg | |

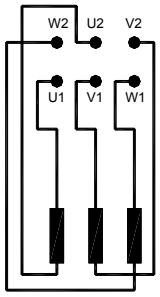
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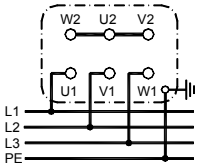

Additional information:

| | | |
|---|---|---|
| **Dimension Print** | Motor Type: M3AA (K) 112 B3, B6, B7, B8, V5, V6 | Document No: 3GZW500611-16 A<br>13 AA 112 A |
| Description: SQUIRREL CAGE MOTOR | | |
| Unit: Motors and Generators<br>Date: 05.01.2017 | Issued by: G.Borg<br>Approved by: G.Borg | Replaces:<br>Replaced by: |
| **ABB AB** | Customer Reference: | |

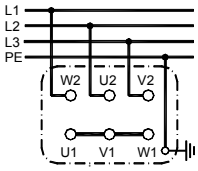
Diagram of connection
Anschluss-Schema
Schema de branchement

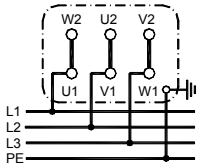



Connection of terminals
Anschluss des Motors
Branchement des bornes

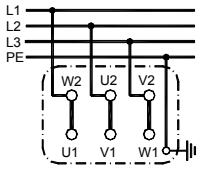



Y-connection
Y-Schaltung
Connection etoile




D-connection
D-Schaltung
Connection triangle





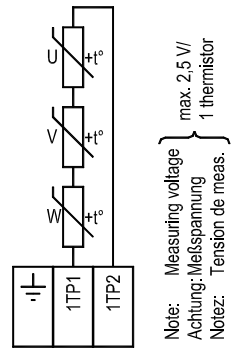

Direction of rotation with phase sequence shown in picture
Drehrichtung nach Schaltbild
Direction de rotation avec branchement ci-dessus



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: 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: