# Customer information packet

EMM20304-S-AP

M3AA 200MLA 4 B3 30KW

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ABB MOTORS AND GENERATORS

# Motor data sheet

## M3AA 200MLA 4

| Definition | Data | Unit | Remarks |
|---|---|---|---|
| Product code | 3GAA202410-**K | | CA501 Catalog number EMM20304-D-AP |
| Voltage code | S | | |
| Type/Frame | M3AA 200MLA 4 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | |
| Rated output $P_N$ | 30 | kW | |
| Rated voltage $U_N$ | 460 | V | ± 5 % (IEC 60034-1) |
| Rated frequency $f_N$ | 60 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed $n_N$ | 1782 | r/min | |
| Rated current $I_N$ | 47.9 | A | |
| Starting current $I_S/I_N$ | 8.1 | | |
| Nominal torque $T_N$ | 160.73 | Nm | |
| Locked rotor torque $T_l/T_N$ | 2.82 | | |
| Maximum torque $T_b/T_N$ | 3.9 | | |
| Efficiency - full load 100% | 94.1 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 94.1 | % | |
| Efficiency - 50% | 93.2 | % | |
| Power factor - full load 100% | 0.84 | | |
| Bearing DE/NDE | 6312-2Z/C3 6210-2Z/C3 | | |
| Sound pressure level $L_{PA}$ dB | 68.9 | dB(A) | +3dB(A) |
| Moment of inertia J = ¼ $GD^2$ $kgm^2$ | 0.38 | kg-m² | |
| Weight | 246 | kg | |

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

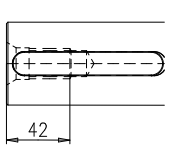
ABB MOTORS AND GENERATORS

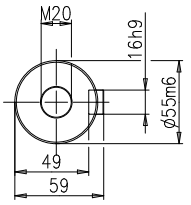
# Motor data sheet

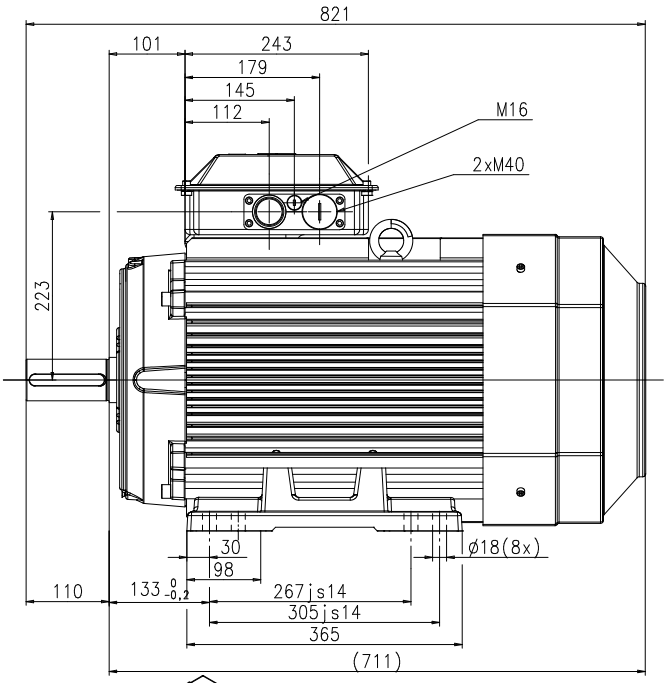
## M3AA 200MLA 4

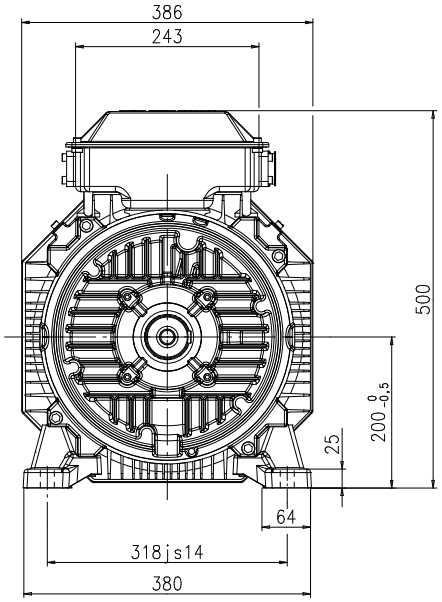
| Definition | Data | Unit | Remarks |
|---|---|---|---|
| Product code | 3GAA202410-**K | | CA501 Catalog number EMM20304-D-AP |
| Voltage code | S | | |
| Type/Frame | M3AA 200MLA 4 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | |
| Rated output $P_N$ | 30 | kW | |
| Rated voltage $U_N$ | 400 | V | ± 5 % (IEC 60034-1) |
| Rated frequency $f_N$ | 50 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed $n_N$ | 1480 | r/min | |
| Rated current $I_N$ | 54.81 | A | |
| Starting current $I_S/I_N$ | 7.1 | | |
| Nominal torque $T_N$ | 193.55 | Nm | |
| Locked rotor torque $T_l/T_N$ | 2.67 | | |
| Maximum torque $T_b/T_N$ | 3.24 | | |
| Efficiency - full load 100% | 93.6 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 93.9 | % | |
| Efficiency - 50% | 93.5 | % | |
| Power factor - full load 100% | 0.85 | | |
| Bearing DE/NDE | 6312-2Z/C3 6210-2Z/C3 | | |
| Sound pressure level $L_{PA}$ dB | 62.8 | dB(A) | +3dB(A) |
| Moment of inertia J = ¼ $GD^2$ $kgm^2$ | 0.38 | kg-m² | |
| Weight | 246 | kg | |

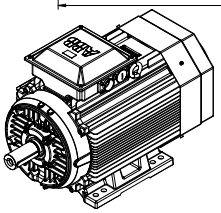
All data subject to tolerances in accordance with IEC. Data subject to changes.



# Motor Dimension Print

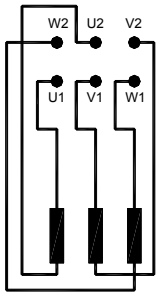
| Motor Type: | Document No: |
|---|---|
| **M3AA 200 IM 1001** | **3GZV 102 028-A A1.5109** |

Description: **Three phase motor,**

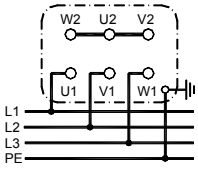
| | | | |
|---|---|---|---|
| Unit: | ABB AB, LV Motors, Sweden. | Issued by: B Abujheisha | Replaces: |
| Date: | **2012-09-29** | Approved by: N Jonsson | Replaced by: |

Customer Reference:

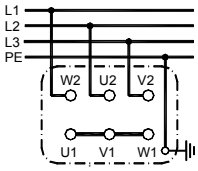
Diagram of connection
Anschluss-Schema
Schema de branchement

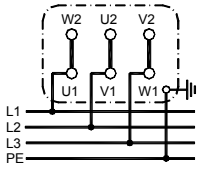



Connection of terminals
Anschluss des Motors
Branchement des bornes

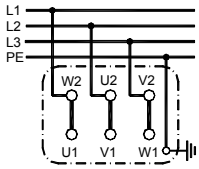



Y-connection
Y-Schaltung
Connection etoile




D-connection
D-Schaltung
Connection triangle





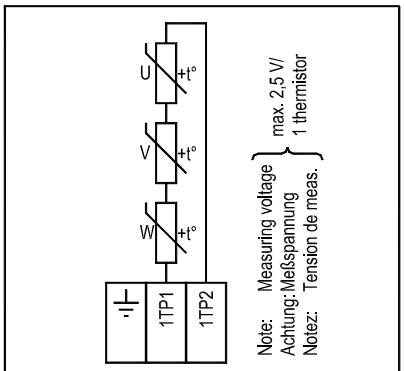

Direction of rotation with phase sequence shown in picture
Drehrichtung nach Schaltbild
Direction de rotation avec branchement ci-dessus



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: | | | |




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: