# Customer information packet

EMM16154-S-AP

M3AA 160MLB 4 B3 15KW

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ABB MOTORS AND GENERATORS

# Motor data sheet

## M3AA 160MLB 4

| Definition | Data | Unit | Remarks |
|---|---|---|---|
| Product code | 3GAA162420-**K | | CA501 Catalog number EMM16154-S-AP |
| Voltage code | S | | Can be used at 230VD/60Hz |
| Type/Frame | M3AA 160MLB 4 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | |
| Rated output $P_N$ | 15 | kW | |
| Rated voltage $U_N$ | 460 | V | ± 5 % (IEC 60034-1) |
| Rated frequency $f_N$ | 60 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed $n_N$ | 1779 | r/min | |
| Rated current $I_N$ | 26.2 | A | |
| Starting current $I_S/I_N$ | 9.6 | | |
| Nominal torque $T_N$ | 80.5 | Nm | |
| Locked rotor torque $T_l/T_N$ | 3.31 | | |
| Maximum torque $T_b/T_N$ | 4.11 | | |
| Efficiency - full load 100% | 93.01 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 92.52 | % | |
| Efficiency - 50% | 90.78 | % | |
| Power factor - full load 100% | 0.77 | | |
| Bearing DE/NDE | 6309-2Z/C3 6209-2Z/C3 | | |
| Sound pressure level $L_{PA}$ dB | 67.4 | dB(A) | +3dB(A) |
| Moment of inertia J = ¼ $GD^2$ $kgm^2$ | 0.14 | kg-m² | |
| Weight | 140 | kg | |

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

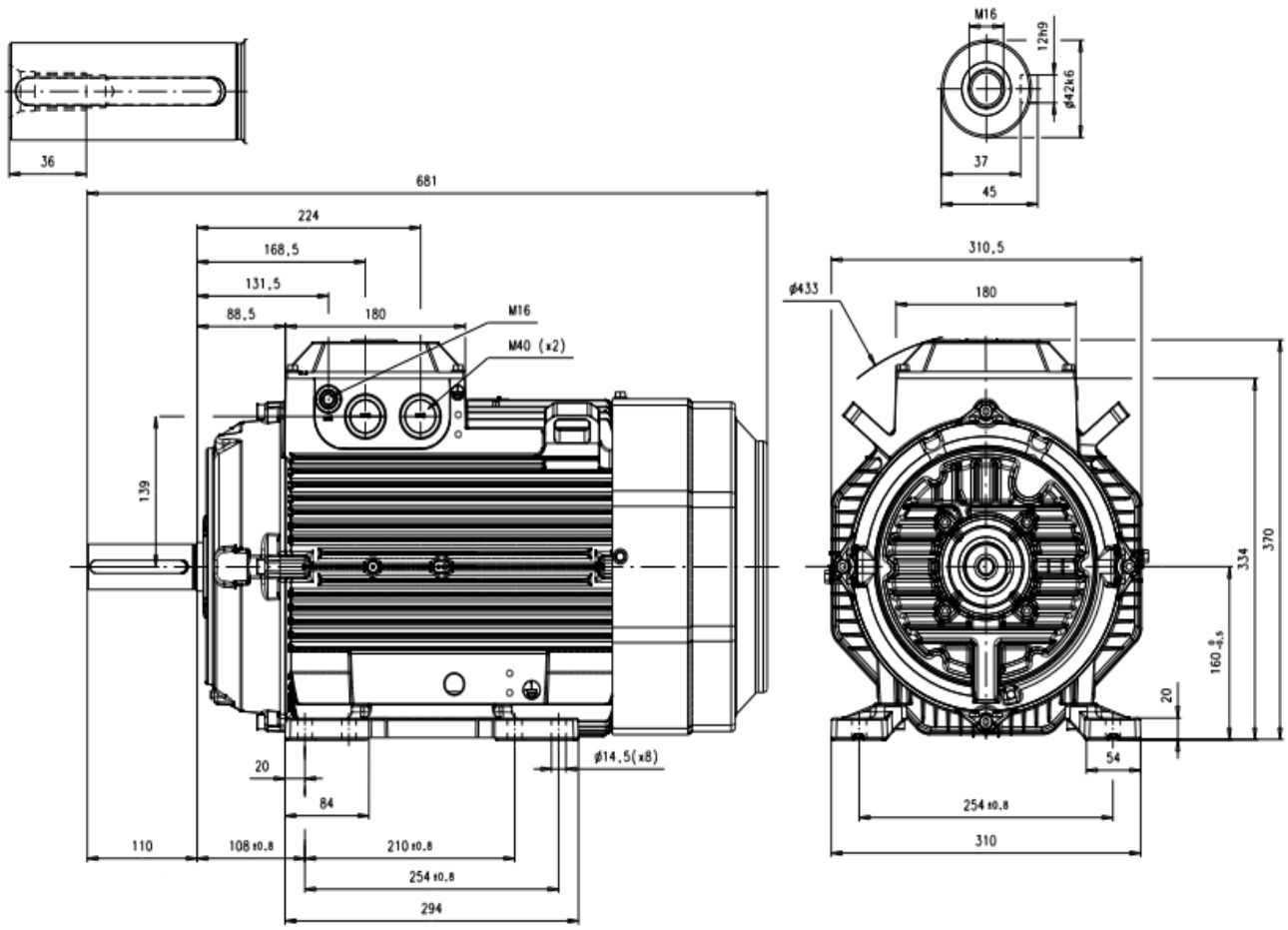
ABB MOTORS AND GENERATORS

# Motor data sheet

## M3AA 160MLB 4

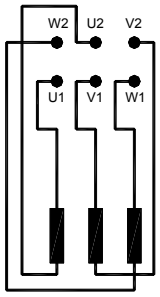
| Definition | Data | Unit | Remarks |
|---|---|---|---|
| Product code | 3GAA162420-**K | | CA501 Catalog number EMM16154-S-AP |
| Voltage code | S | | |
| Type/Frame | M3AA 160MLB 4 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | |
| Rated output $P_N$ | 15 | kW | |
| Rated voltage $U_N$ | 400 | V | ± 5 % (IEC 60034-1) |
| Rated frequency $f_N$ | 50 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed $n_N$ | 1476 | r/min | |
| Rated current $I_N$ | 29.6 | A | |
| Starting current $I_S/I_N$ | 8.3 | | |
| Nominal torque $T_N$ | 97.01 | Nm | |
| Locked rotor torque $T_l/T_N$ | 3.01 | | |
| Maximum torque $T_b/T_N$ | 3.65 | | |
| Efficiency - full load 100% | 92.11 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 92.11 | % | |
| Efficiency - 50% | 90.85 | % | |
| Power factor - full load 100% | 0.79 | | |
| Bearing DE/NDE | 6309-2Z/C3 6209-2Z/C3 | | |
| Sound pressure level $L_{PA}$ dB | 60.8 | dB(A) | +3dB(A) |
| Moment of inertia J = ¼ $GD^2$ $kgm^2$ | 0.14 | kg-m² | |
| Weight | 140 | kg | |

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

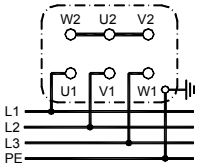



| Motor Dimension Print | Motor Type: M3AA 160 Long IM 1001 | Document No: 3GZV 102 026-D A1.5100 |
|---|---|---|
| Description: **Three phase motor,** | | |
| Unit: ABB AB, LV Motors, Sweden. | Issued by: B Abujheisha | Replaces: |
| Date: **2012-09-29** | Approved by: N Jonsson | Replaced by: |
| | Customer Reference: | |

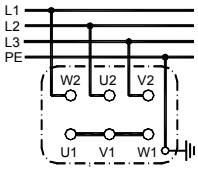
Diagram of connection
Anschluss-Schema
Schema de branchement

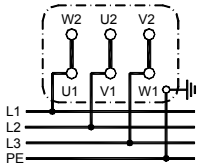



Connection of terminals
Anschluss des Motors
Branchement des bornes

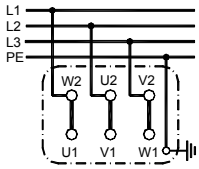



Y-connection
Y-Schaltung
Connection etoile




D-connection
D-Schaltung
Connection triangle





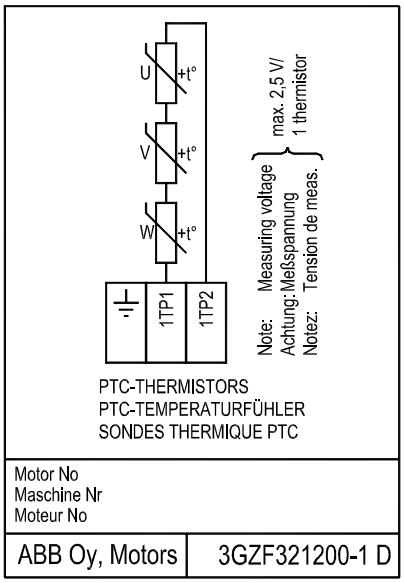

Direction of rotation with phase sequence shown in picture
Drehrichtung nach Schaltbild
Direction de rotation avec branchement ci-dessus



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: | | | |




| | |
|---|---|
| **Accessory Connection Diagram** | Document No: 3GZF321200-1 D |
| Description: PTC-THERMISTORS | |
| Unit: Motors | Issued by: K.Högkvist |
| Date: 30.11.2005 | Approved by: M.Prusi |
| Replaces: | |
| Replaced by: | |
| **ABB Oy** | Customer Reference: |