# AC motor

**ebm-papst Mulfingen GmbH & Co. KG**
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

## Nominal data

| | |
|---|---|
| **Type** | **M4Q045-BD01-76** |
| **Motor** | **M4Q045-BD** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Method of obtaining data | | me | me |
| Valid for approval/standard | | CE | CE |
| Speed (rpm) | $min^{-1}$ | 1300 | 1550 |
| Power consumption | W | 29 | 26 |
| Power output | W | 5 | 5 |
| Current draw | A | 0.19 | 0.17 |
| Rated torque | Ncm | 3 | 3 |
| Mean starting torque | Ncm | 2.2 | 1.7 |
| Min. ambient temperature | °C | -30 | -30 |
| Max. ambient temperature | °C | 40 | 40 |
| Starting current | A | 0.25 | 0.22 |

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

## Technical description

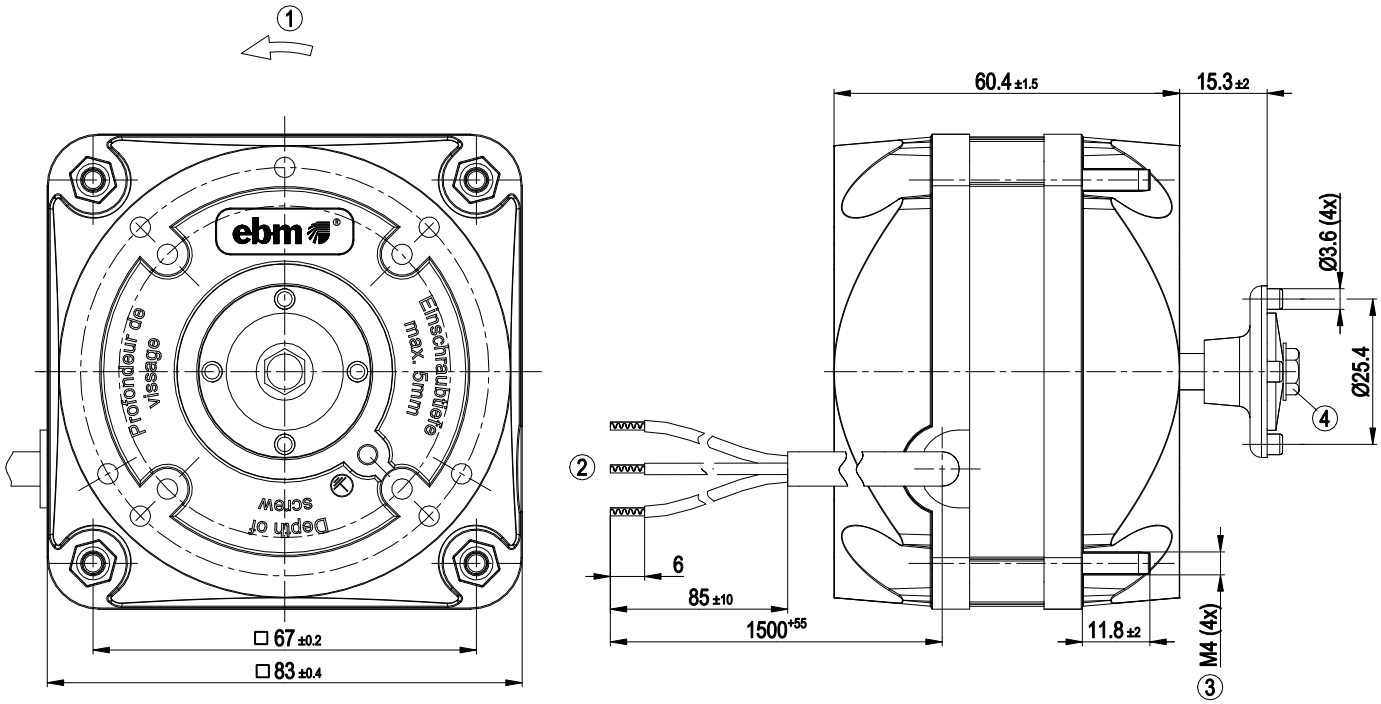
| | |
|---|---|
| **Weight** | 0.9 kg |
| **Fan size** | 45 mm |
| **Bearing shield material** | Die-cast aluminum |
| **Direction of rotation** | Counterclockwise, viewed toward rotor |
| **Degree of protection** | IP42 |
| **Insulation class** | "B" |
| **Max. permitted ambient temp. for motor (transport/storage)** | + 80 °C |
| **Min. permitted ambient temp. for motor (transport/storage)** | - 40 °C |
| **Installation position** | Any, preferably horizontal |
| **Condensation drainage holes** | None |
| **Mode** | S1 |
| **Motor bearing** | Calotte bearing |
| **Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)** | < 0.75 mA |
| **Motor protection** | Impedance protection |
| **With cable** | Lateral |
| **Protection class** | I (with customer connection of protective earth) |
| **Conformity with standards** | EN 60335-1; CE |
| **Approval** | EAC; VDE |



ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

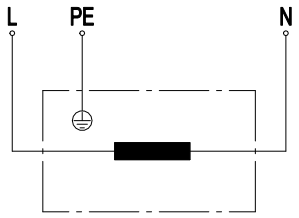
# AC motor

## Product drawing




| | |
|---|---|
| 1 | Direction of rotation counterclockwise, viewed toward shaft end |
| 2 | Cable PVC 3G 0.5 mm², 3x crimped splices |
| 3 | Tightening torque for nut for fastening fan housing or guard grille 2.3 Nm |
| 4 | Tightening torque for screw for fastening fan impeller 1.4 Nm |

## Connection diagram

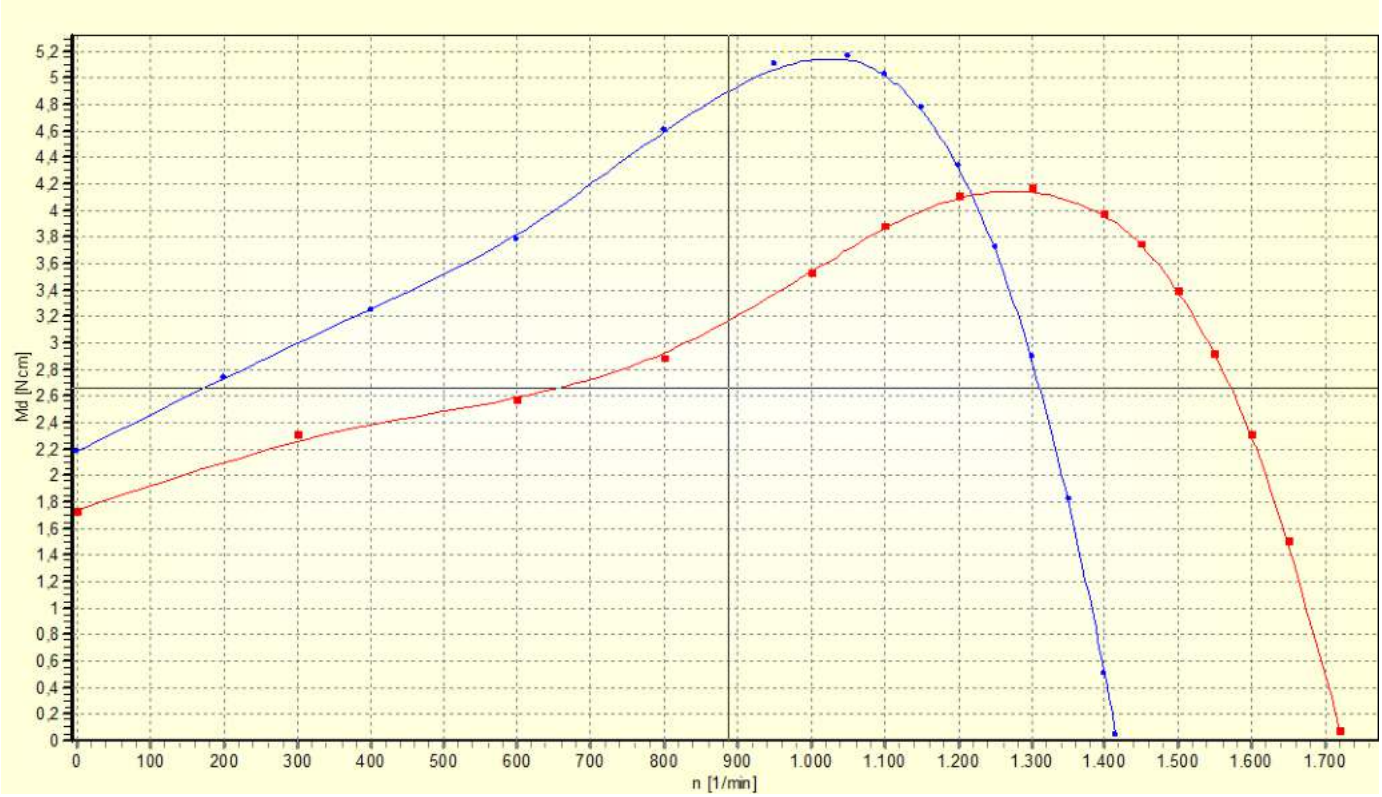



| | | | | | |
|---|---|---|---|---|---|
| L | blue | PE | green/yellow | N | brown |



ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

## Curves: Speed (rpm)






ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com