# EC 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
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

## Nominal data

| | |
|---|---|
| **Type** | **M3G084-FA32-28** |
| **Motor** | **M3G084-FA** |

| | | |
|---|---|---|
| Nominal voltage | VDC | 370 |
| Nominal voltage range | VDC | 344 .. 383 |
| Type of data definition | | ml/cu |
| State | | prelim. |
| Speed (rpm) | $min^{-1}$ | 3600 |
| Power input | W | 600 |
| Power output | W | 505 |
| Current draw | A | 1.6 (344V) |
| Rated torque | Ncm | 135 |
| Min. ambient temperature | °C | -25 |
| Max. ambient temperature | °C | 50 |

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

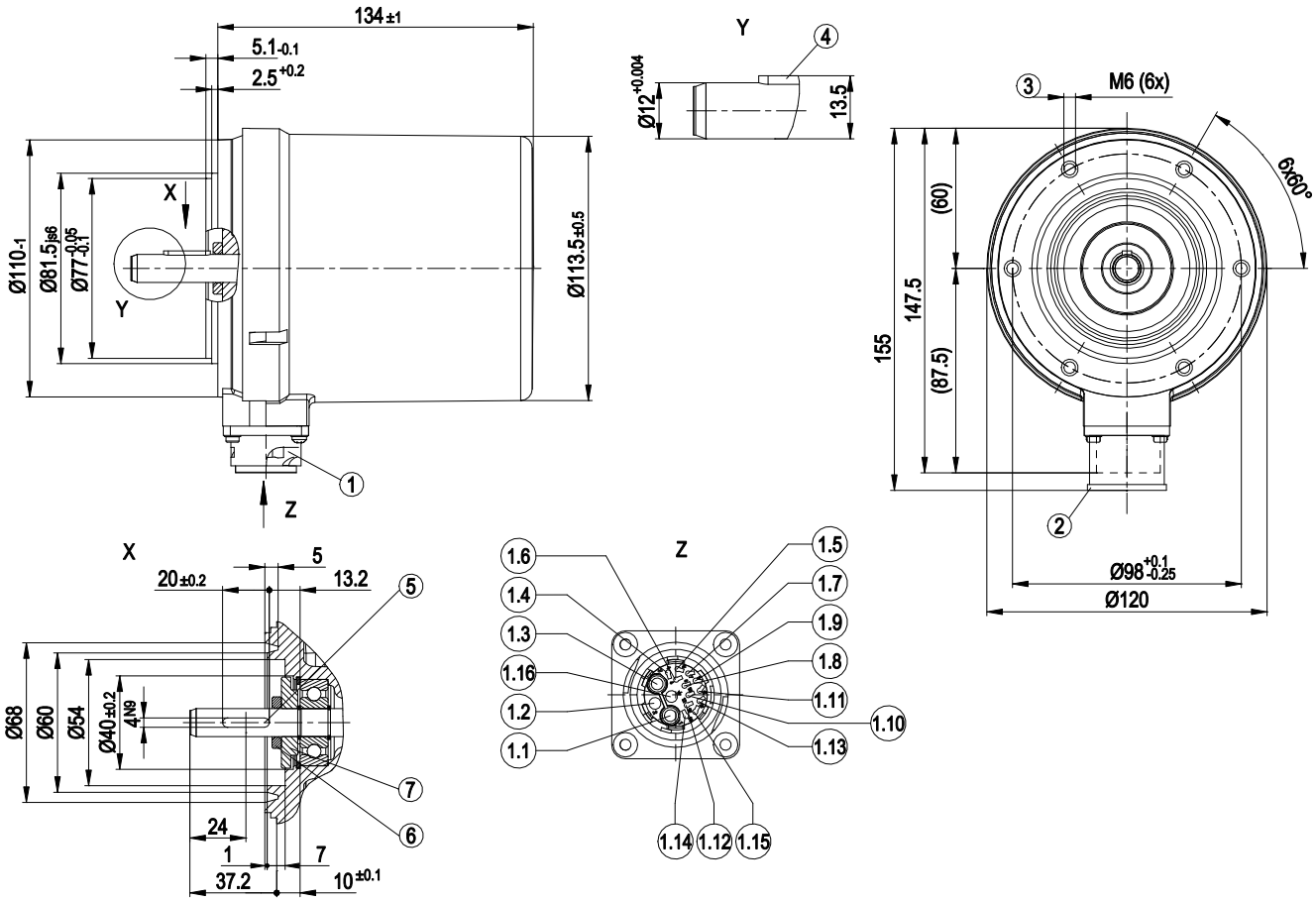
## Technical features

| | |
|---|---|
| **Mass** | 3.58 kg |
| **Motor size** | 84 |
| **Surface of rotor** | Coated in black |
| **Material of protective cover** | PA plastic |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Protection rating** | IP54 |
| **Insulation class** | "F" |
| **Humidity (F) / environmental protection class (H)** | H0 - dry environment |
| **Max. permissible ambient motor temp. (transp./ storage)** | +80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | -40 °C |
| **Mounting position** | Any |
| **Condensation drainage holes** | None |
| **Operation mode** | S1 |
| **Motor bearing** | Ball bearing |
| **Electrical connection** | Plug |
| **Cable exit** | Lateral |
| **Protection class** | I (if protective earth is connected by customer) |
| **Product conforming to standard** | EN 61800-5-1 |
| **Approval** | UL 1004-1; CSA C22.2 no. 100 |



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## Product drawing



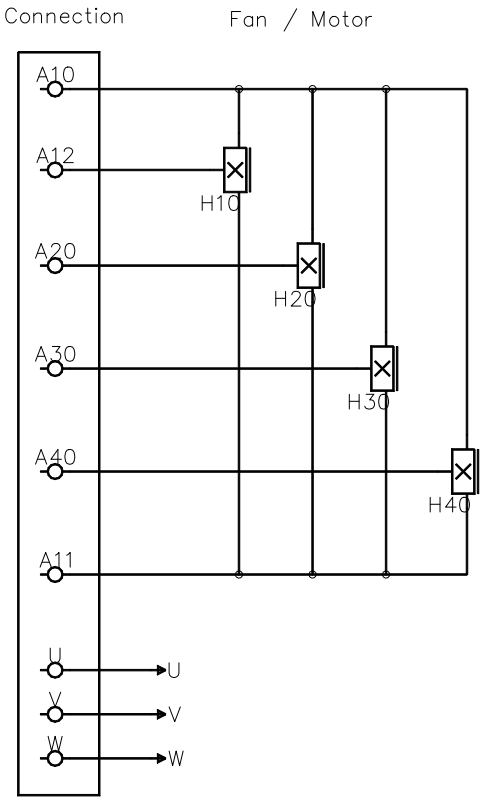

| | |
|---|---|
| 1 | Connector housing Amphenol no. C016 10C015 000 5 with number of poles 12 + 3 + PE, 4x plug pin HN01 016 0002(1), 6x plug pin HN01-015-0046-2 |
| 1.1 | V/Z motor line |
| 1.2 | W/X motor line |
| 1.3 | U/Y motor line |
| 1.4 | not used |
| 1.5 | Position indicator 2 (Hall 20) |
| 1.6 | not used |
| 1.7 | Position indicator 3 (Hall 30) |
| 1.8 | not used |
| 1.9 | Position indicator 1 (Hall 10) |
| 1.10 | not used |
| 1.11 | Position indicator 4 (tacho) |
| 1.12 | not used |
| 1.13 | + (10 - 24 V) |
| 1.14 | not used |
| 1.15 | - (earth) |
| 1.16 | PE |
| 2 | Protective cap Art.: N080300006 |
| 3 | Thread reach max. 12 mm |
| 4 | Key (Sumitomo 200761 supplied) |



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| | |
|---|---|
| 5 | Groove depth 2.5 mm +0.05 |
| 6 | Adjustment ring (Sumitomo AU3118 G supplied) |
| 7 | Oil seal (Sumitomo AU0344 G supplied) |

## Connection screen

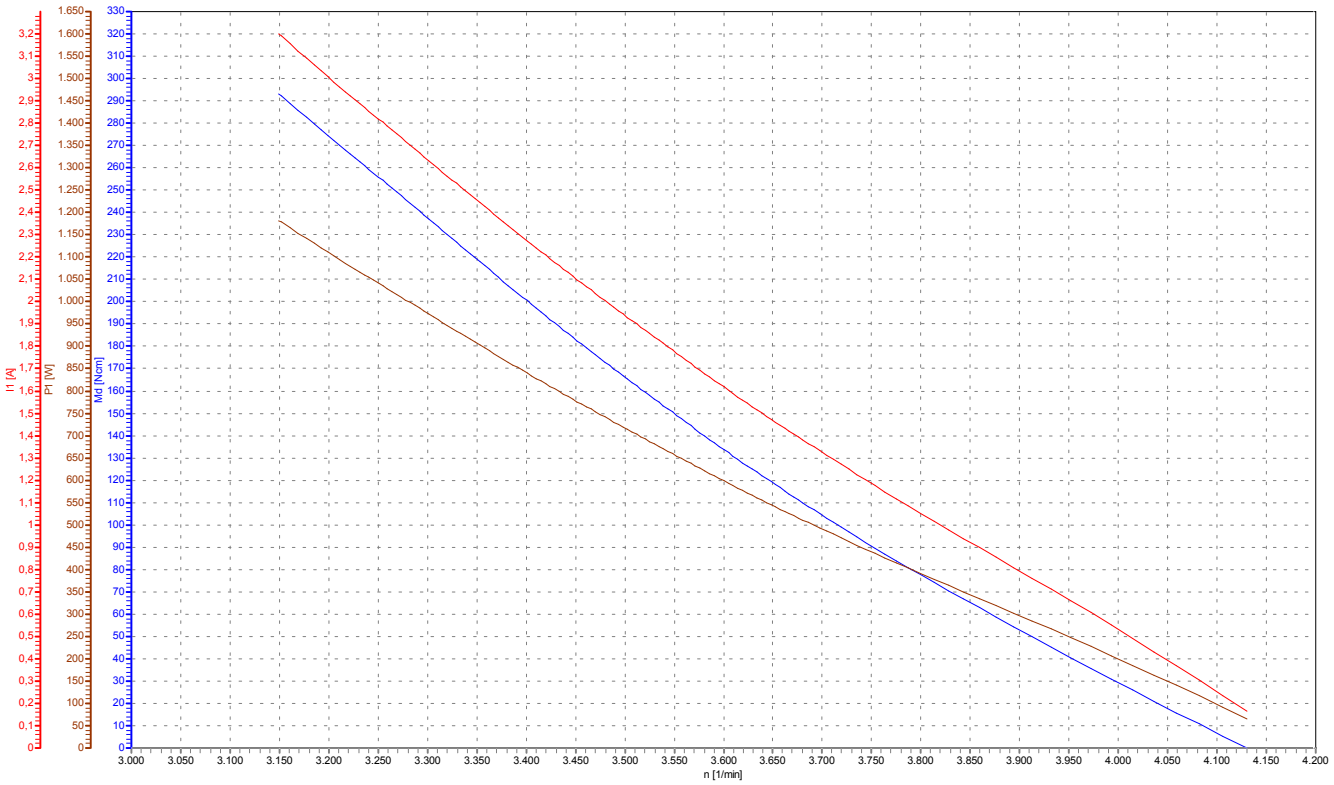



| No. | Conn. | Designation | Function / assignment |
|---|---|---|---|
| | A10 | | Power supply 10-24 V |
| | A12 | Lagegeber 1 | Hall signal H10 |
| | A20 | Lagegeber 2 | Hall signal H20 |
| | A30 | Lagegeber 3 | Hall signal H30 |
| | A40 | Lagegeber 4 | Gear sensor H40 |
| | A11 | | GND |
| | U | | Coil connection U |
| | V | | Coil connection V |
| | W | | Coil connection W |



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## Charts: Speed (rpm)






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