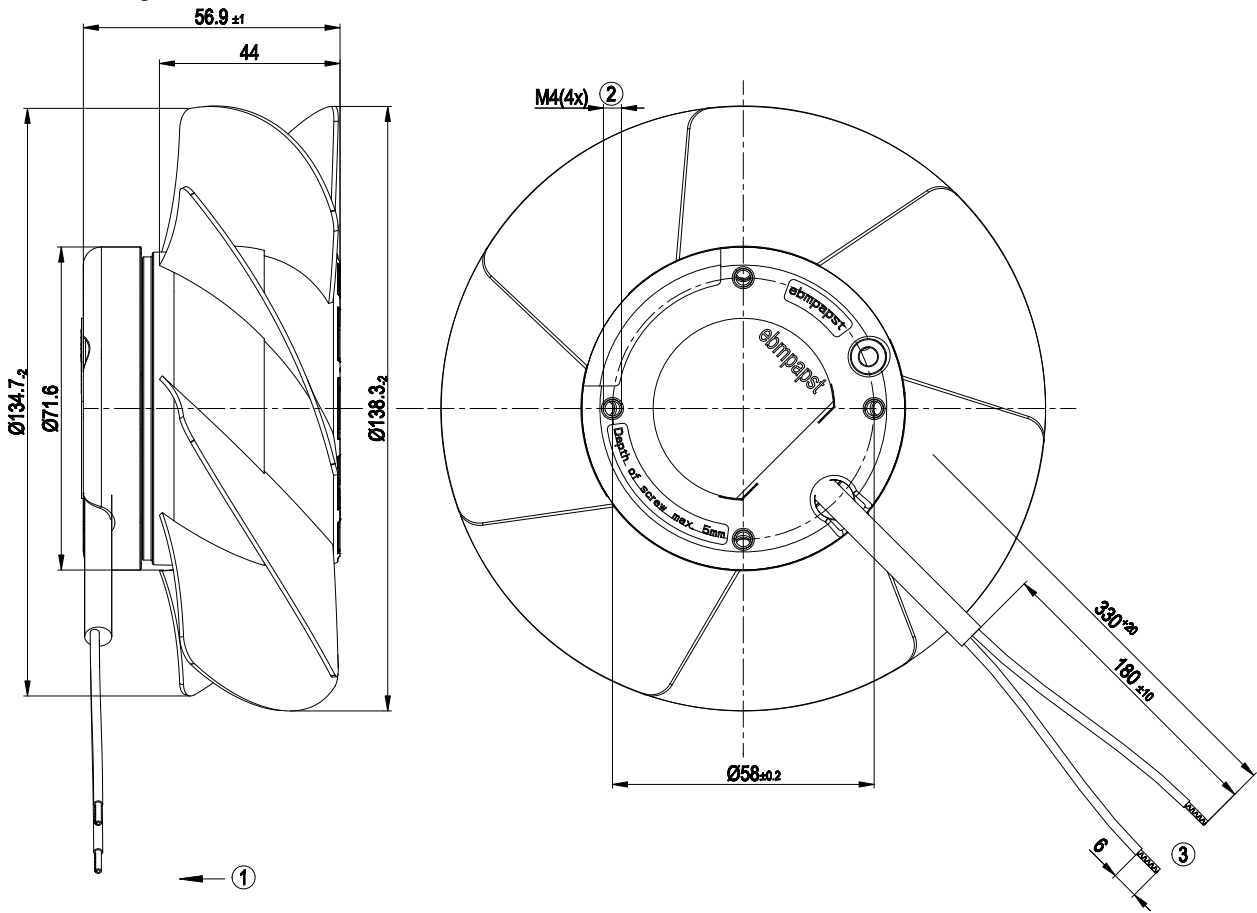


## 3. TECHNICAL DATA

### 3.1 Product drawing



All measures have the unit mm.

|   |  |
|---|--|
| 1 | Direction of air flow "V"                            |
| 2 | Depth of screw max. 5 mm                             |
| 3 | Connecting cable AWG 20, 2 x brass lead tips crimped |

## 3.2 Nominal data

|                                      |           |      |
|--------------------------------------|-----------|------|
| <b>Motor</b>                         | M2S052-CA |      |
| <b>Phase</b>                         | 1~        | 1~   |
| <b>Nominal voltage / VAC</b>         | 230       | 230  |
| <b>Frequency / Hz</b>                | 50        | 60   |
| <b>Type of data definition</b>       | fa        | fa   |
| <b>Valid for approval / standard</b> | CE        | CE   |
| <b>Speed / min<sup>-1</sup></b>      | 2800      | 3250 |
| <b>Power input / W</b>               | 45        | 39   |
| <b>Current draw / A</b>              | 0.31      | 0.25 |
| <b>Max. back pressure / Pa</b>       | 80        | 120  |
| <b>Min. ambient temperature / °C</b> | -25       | -25  |
| <b>Max. ambient temperature / °C</b> | 50        | 70   |
| <b>Starting current / A</b>          | 0.45      | 0.40 |

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

Subject to alterations

## 3.3 Technical features

|   |   |
|---|---|
| <b>Mass</b>   | 0.9 kg  |
| <b>Size</b>   | 130 mm  |
| <b>Surface of rotor</b>   | Rotor open, coated in black                       |
| <b>Material of blades</b>   | Sheet steel, coated in black                      |
| <b>Number of blades</b>   | 7   |
| <b>Direction of air flow</b>  | "V"   |
| <b>Direction of rotation</b>  | Counter-clockwise, seen on rotor                  |
| <b>Type of protection</b>   | IP 20   |
| <b>Insulation class</b>   | "B"   |
| <b>Mounting position</b>  | Any   |
| <b>Condensate discharge holes</b>   | None, open rotor                                  |
| <b>Operation mode</b>   | S1  |
| <b>Motor bearing</b>  | Ball bearing                                      |
| <b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b> | < 0.75 mA   |
| <b>Motor protection</b>   | Thermal overload protector (TOP) wired internally |
| <b>Cable exit</b>   | Variable  |
| <b>Protection class</b>   | I (if protective earth is connected by customer)  |
| <b>Product conforming to standard</b>                                     | EN 60335-1; CE                                    |



For cyclic speed loads, note that the rotating parts of the device are designed for maximum one million load cycles. If you have specific questions, contact ebm-papst for support.

## 3.4 Mounting data

For depth of screw, see chapter 3.1 Product drawing

⇒ Secure the mounting screws against accidentally coming loose (e.g. by using self-locking screws).

|   |     |
|---|-----|
| <b>Strength class for mounting screws</b> | 8.8 |
|---|-----|

You can obtain additional mounting data from the product drawing if necessary.

## 3.5 Transport and storage conditions

⇒ Use the device in accordance with its protection type.

|  |         |
|--|---------|
| <b>Max. permissible ambient motor temp. (transp./ storage)</b> | + 80 °C |
| <b>Min. permissible ambient motor temp. (transp./storage)</b>  | - 40 °C |