

# AC centrifugal fan

forward curved, single inlet

R2E140-BR52-19 ebmpapst Datasheet  
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## Nominal data

|                               |                   |         |
|-------------------------------|-------------------|---------|
| Type                          | R2E140-BR52-19    |         |
| Motor                         | M2E052-CA         |         |
| Phase                         |                   | 1~      |
| Nominal voltage               | VAC               | 230     |
| Frequency                     | Hz                | 50      |
| Type of data definition       |                   | cu      |
| Valid for approval / standard |                   | CE      |
| Speed                         | min <sup>-1</sup> | 2000    |
| Power input                   | W                 | 73      |
| Current draw                  | A                 | 0.32    |
| Motor capacitor               | µF                | 2       |
| Capacitor voltage             | VDB               | 400     |
| Capacitor standard            |                   | P0 (CE) |
| Min. back pressure            | Pa                | 0       |
| Max. ambient temperature      | °C                | 45      |

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations



## Technical features

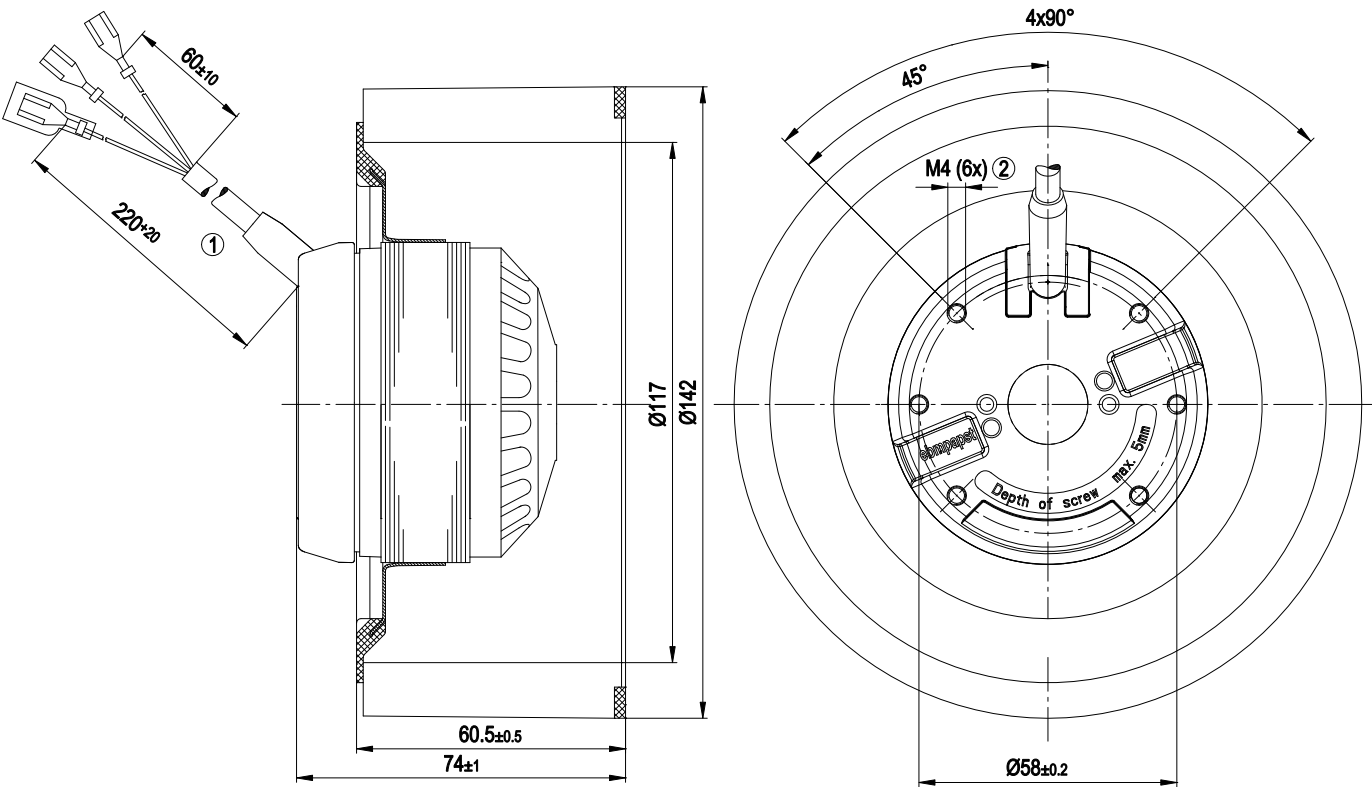
|                                                                    |                                                              |
|--------------------------------------------------------------------|--------------------------------------------------------------|
| Mass                                                               | 0.8 kg                                                       |
| Size                                                               | 140 mm                                                       |
| Surface of rotor                                                   | Uncoated                                                     |
| Material of impeller                                               | Plastic PA6, fibreglass-reinforced                           |
| Direction of rotation                                              | Clockwise, seen on rotor                                     |
| Type of protection                                                 | IP 44; Depending on installation and position                |
| Insulation class                                                   | "B"                                                          |
| Max. permissible ambient motor temp. (transp./ storage)            | + 80 °C                                                      |
| Min. permissible ambient motor temp. (transp./storage)             | - 40 °C                                                      |
| Mounting position                                                  | Shaft horizontal or rotor on top; rotor on bottom on request |
| Condensate discharge holes                                         | None                                                         |
| Operation mode                                                     | S1                                                           |
| Motor bearing                                                      | Twin bearing                                                 |
| Touch current acc. IEC 60990 (measuring network Fig. 4, TN system) | < 0.75 mA                                                    |
| Electrical leads                                                   | With plug                                                    |
| Motor protection                                                   | Thermal overload protector (TOP) wired internally            |
| Cable exit                                                         | Variable                                                     |
| Protection class                                                   | I (if protective earth is connected by customer)             |
| Product conforming to standard                                     | EN 60335-1; CE                                               |



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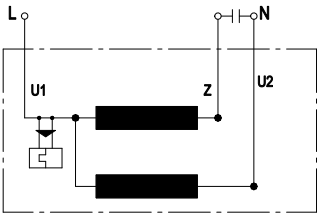
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Product drawing



- |   |                                                                                                                                      |
|---|--------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Connection line PVC 3X 0.5 mm <sup>2</sup> , 3x receptacle for tabs 6.3 x 1.0 crimped, blue strand with additional insulating sleeve |
| 2 | Depth of screw max. 5 mm                                                                                                             |

Connection screen



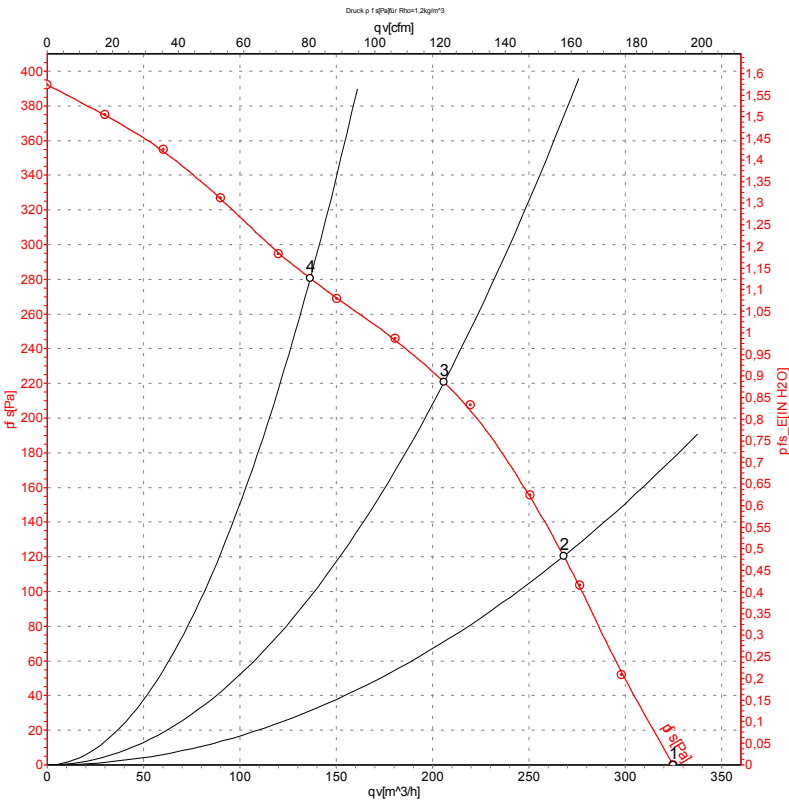
|    |      |   |       |    |       |
|----|------|---|-------|----|-------|
| U1 | Blue | Z | brown | U2 | black |
|----|------|---|-------|----|-------|



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## Charts: Air flow 50 Hz



Measurement: LU-72242

Air performance measured as per ISO 5801  
Installation category A. For detailed  
information on the measuring set-up, please  
contact ebm-papst. Suction-side noise  
levels: L<sub>wA</sub> measured as per ISO 13347 /  
L<sub>pA</sub> measured with 1m distance to fan axis.  
The values given are valid under the  
measuring conditions mentioned above and  
may vary according to the actual installation  
situation. With any deviation from the  
standard set-up, the specific values have to  
be checked and reviewed with the unit  
installed.

## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | qv   | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1 | 230 | 50 | 1300              | 75             | 0.33 | 325  | 0               |
| 2 | 230 | 50 | 1655              | 72             | 0.31 | 270  | 120             |
| 3 | 230 | 50 | 2040              | 67             | 0.29 | 205  | 220             |
| 4 | 230 | 50 | 2345              | 61             | 0.27 | 135  | 280             |

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase

