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County court Stuttgart · HRB 590142

**Nominal data**

| Type                          | R2E180-AT06-15    |      |         |      |
|-------------------------------|-------------------|------|---------|------|
| Motor                         | M2E068-CF         |      |         |      |
| Phase                         |                   | 1~   | 1~      | 1~   |
| Nominal voltage               | VAC               | 230  | 230     | 230  |
| Frequency                     | Hz                | 50   | 60      | 60   |
| Type of data definition       |                   | fa   | fa      | fa   |
| Valid for approval / standard |                   | CE   | UL 2111 | CE   |
| Speed                         | min <sup>-1</sup> | 2600 | 2800    | 2800 |
| Power input                   | W                 | 100  | 145     | 138  |
| Current draw                  | A                 | 0.45 | 0.62    | 0.61 |
| Motor capacitor               | µF                | 2.5  | 2.5     | 2.5  |
| Capacitor voltage             | VDB               | 400  | 400     | 400  |
| Min. back pressure            | Pa                | 0    | 0       | 0    |
| Max. ambient temperature      | °C                | 60   | 60      | 60   |

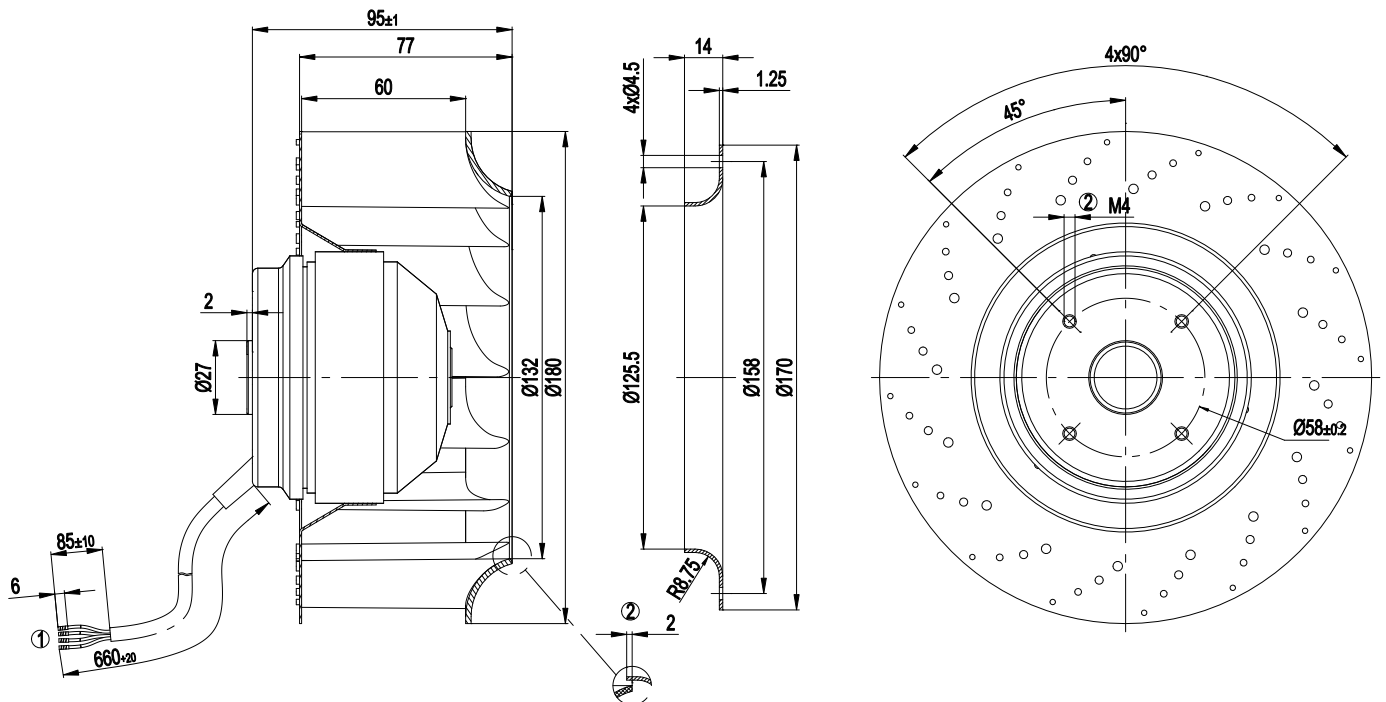
ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations



## Technical features

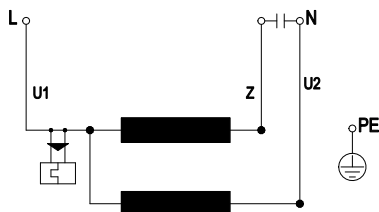
|                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| Mass                                                    | 1.8 kg                                            |
| Size                                                    | 180 mm                                            |
| Surface of rotor                                        | Coated in black                                   |
| Material of impeller                                    | Plastic PA6, fibreglass-reinforced                |
| Number of blades                                        | 16                                                |
| Direction of rotation                                   | Clockwise, seen on rotor                          |
| Type of protection                                      | IP 44                                             |
| Insulation class                                        | "B"                                               |
| Humidity class                                          | F1-2                                              |
| Max. permissible ambient motor temp. (transp./ storage) | + 80 °C                                           |
| Min. permissible ambient motor temp. (transp./storage)  | - 40 °C                                           |
| Mounting position                                       | Any                                               |
| Condensate discharge holes                              | None                                              |
| Operation mode                                          | S1                                                |
| Motor bearing                                           | Ball bearing                                      |
| Leakage current                                         | < 0.75 mA                                         |
| 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                                    |
| Approval                                                | CSA C22.2 Nr.77; UL 2111                          |

## Product drawing



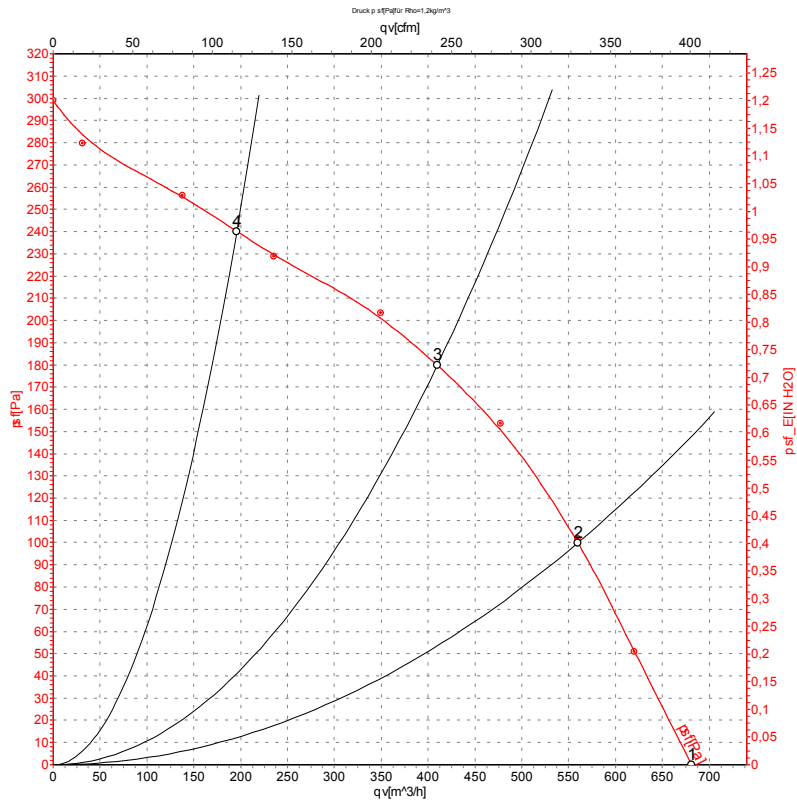
- |   |                                                                                           |
|---|-------------------------------------------------------------------------------------------|
| 1 | Connection line PVC, 4x brass lead tips crimped                                           |
| 2 | Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery |
| 3 | Depth of screw max. 5 mm                                                                  |

## Connection screen



|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |

## Charts: Air flow 50 Hz



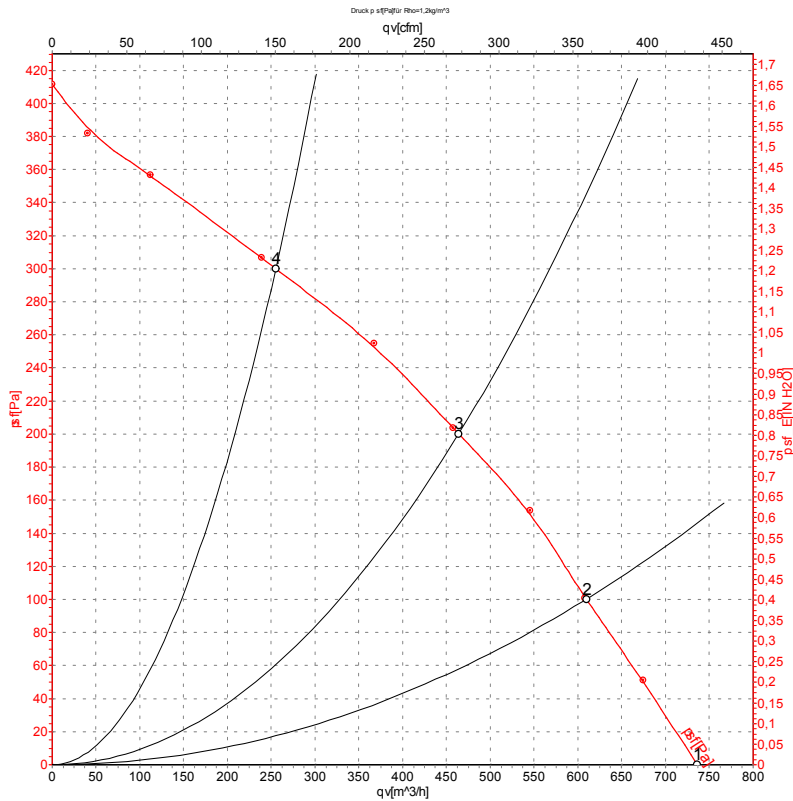
Measurement: LU-9828

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: LwA measured as per ISO 13347 /  
LpA 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>sf</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m <sup>3</sup> /h | Pa              |
| 1 | 230 | 50 | 2650              | 100            | 0.42 | 680               | 0               |
| 2 | 230 | 50 | 2625              | 102            | 0.44 | 560               | 100             |
| 3 | 230 | 50 | 2665              | 97             | 0.42 | 410               | 180             |
| 4 | 230 | 50 | 2775              | 79             | 0.35 | 195               | 240             |

## Charts: Air flow 60 Hz



Measurement: LU-9829

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>sf</sub> |
|---|-----|----|-------------------|----------------|------|------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1 | 230 | 60 | 2850              | 138            | 0.58 | 735  | 0               |
| 2 | 230 | 60 | 2785              | 138            | 0.61 | 610  | 100             |
| 3 | 230 | 60 | 2865              | 134            | 0.59 | 465  | 200             |
| 4 | 230 | 60 | 3125              | 113            | 0.49 | 255  | 300             |

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