

R2E140-AS77-05

# AC centrifugal fan

forward curved

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## Nominal data

|                               |                   |         |         |
|-------------------------------|-------------------|---------|---------|
| Type                          | R2E140-AS77-05    |         |         |
| Motor                         | M2E068-BF         |         |         |
| Phase                         |                   | 1~      | 1~      |
| Nominal voltage               | VAC               | 230     | 230     |
| Frequency                     | Hz                | 50      | 60      |
| Type of data definition       |                   | fa      | fa      |
| Valid for approval / standard |                   | CE      | CE      |
| Speed                         | min <sup>-1</sup> | 1500    | 1400    |
| Power input                   | W                 | 100     | 110     |
| Current draw                  | A                 | 0.45    | 0.48    |
| Motor capacitor               | µF                | 2       | 2       |
| Capacitor voltage             | VDB               | 450     | 450     |
| Capacitor standard            |                   | P0 (CE) | P0 (CE) |
| Min. back pressure            | Pa                | 0       | 0       |
| Max. ambient temperature      | °C                | 40      | 30      |

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



R2E140-AS77-05

# AC centrifugal fan

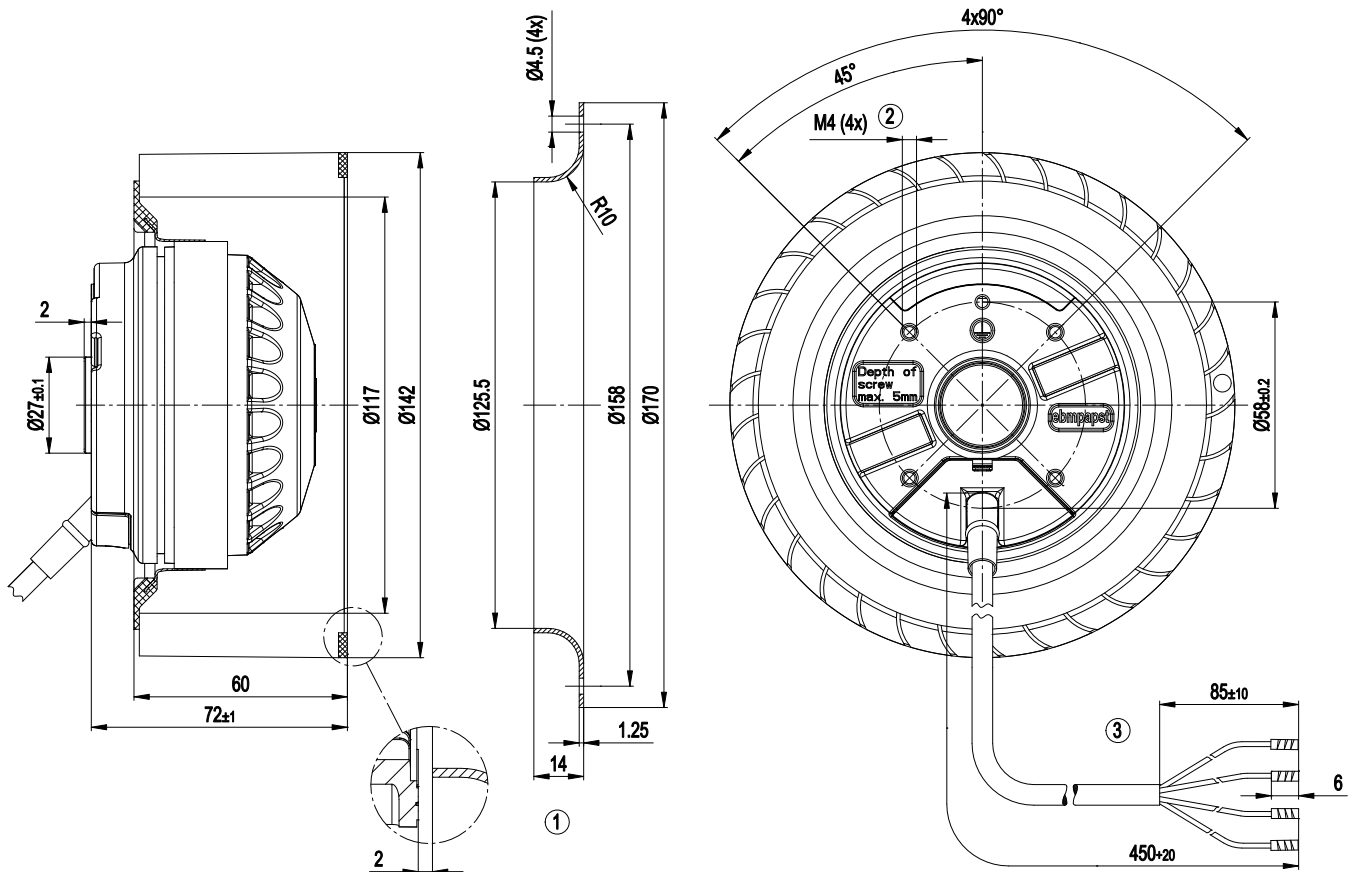
forward curved

## Technical features

|                                                                    |                                                   |
|--------------------------------------------------------------------|---------------------------------------------------|
| Mass                                                               | 1.1 kg                                            |
| Size                                                               | 140 mm                                            |
| Material of impeller                                               | PP-TV40 plastic                                   |
| Direction of rotation                                              | Clockwise, seen on rotor                          |
| Type of protection                                                 | IP 44; Depending on installation and position     |
| Insulation class                                                   | "B"                                               |
| Humidity class                                                     | F0                                                |
| 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                                      |
| Touch current acc. IEC 60990 (measuring network Fig. 4, TN system) | < 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                                                           | CCC                                               |

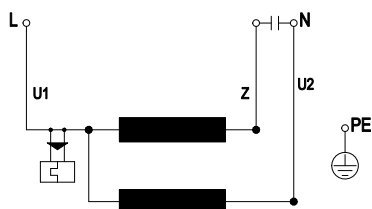


## Product drawing



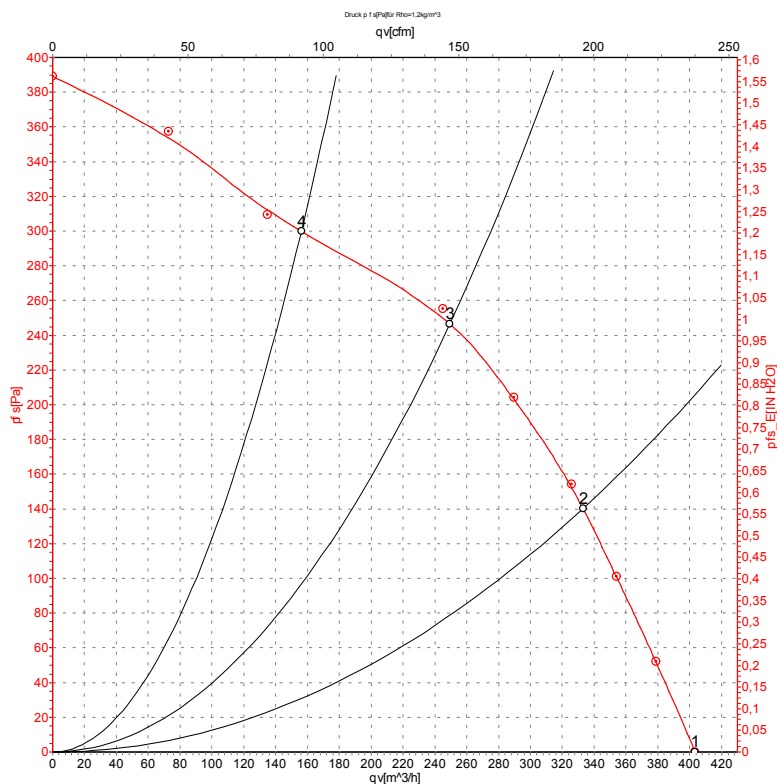
- |   |                                                                                           |
|---|-------------------------------------------------------------------------------------------|
| 1 | Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery |
| 2 | Depth of screw max. 5 mm                                                                  |
| 3 | Connection line PVC 4G 0.5mm <sup>2</sup> , 4x brass lead tips crimped                    |

## Connection screen



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

## Charts: Air flow 50 Hz



Measurement: LU-4523

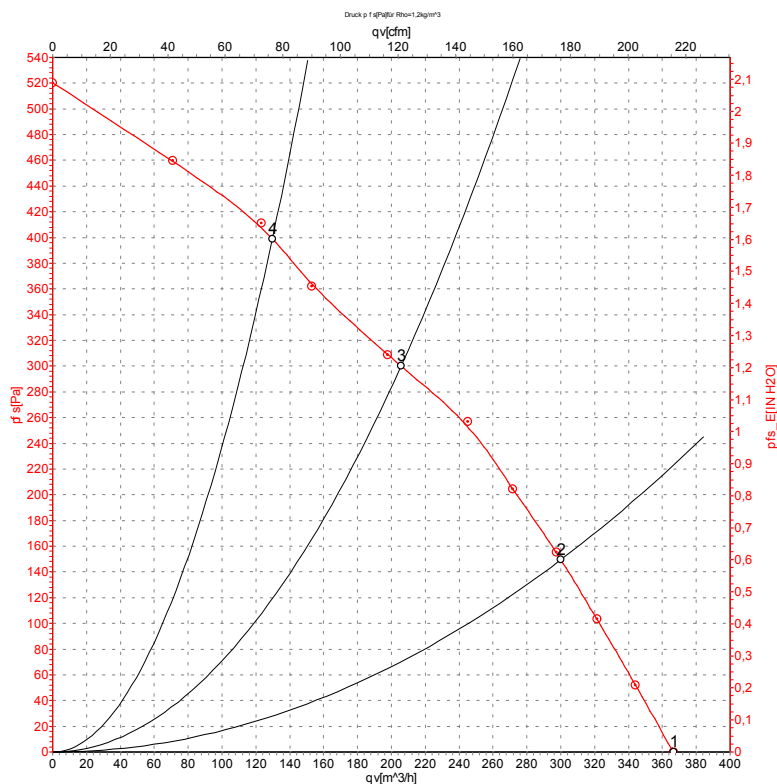
Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L<sub>WA</sub> measured as per ISO 13347 / L<sub>pA</sub> measured with 1m distance to fan axis. The values given are valid under the 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 | 1500              | 100            | 0.45 | 405  | 0               |
| 2 | 230 | 50 | 1880              | 94             | 0.41 | 335  | 140             |
| 3 | 230 | 50 | 2175              | 86             | 0.38 | 250  | 250             |
| 4 | 230 | 50 | 2410              | 78             | 0.35 | 155  | 300             |

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

## Charts: Air flow 60 Hz



Measurement: LU-4526

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    | m <sup>3</sup> /h | Pa              |
| 1 | 230 | 60 | 1400              | 110            | 0.48 | 365               | 0               |
| 2 | 230 | 60 | 1840              | 108            | 0.47 | 300               | 150             |
| 3 | 230 | 60 | 2420              | 101            | 0.44 | 205               | 300             |
| 4 | 230 | 60 | 2755              | 94             | 0.41 | 130               | 400             |

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