**R2E180-AH05-06**

# AC hot-air circulation blower



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## Nominal data

| | |
|---|---|
| **Type** | **R2E180-AH05-06** |
| **Motor** | **M2E068-DF** |

| | | | |
|---|---|---|---|
| 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 | $min^{-1}$ | 2600 | 2850 |
| Power input | W | 115 | 155 |
| Current draw | A | 0.51 | 0.68 |
| Motor capacitor | µF | 3 | 3 |
| Capacitor voltage | VDB | 400 | 400 |
| Min. back pressure | Pa | 0 | 0 |
| Min. ambient temperature | °C | -25 | -25 |
| Max. ambient temperature | °C | 100 | 95 |

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

# AC hot-air circulation blower

## Technical features

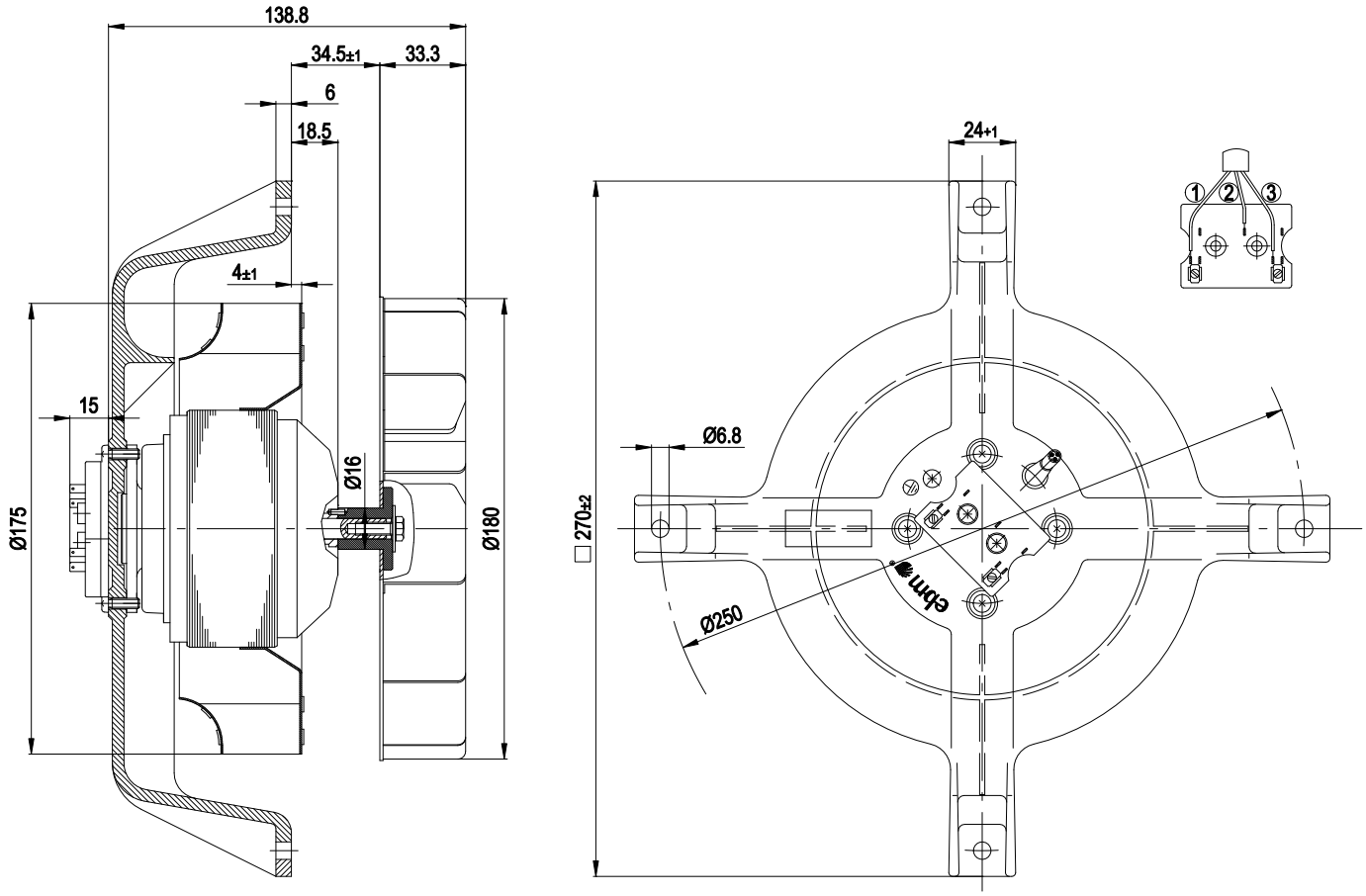
| | |
|---|---|
| **Mass** | 3.1 kg |
| **Size** | 180 mm |
| **Material of impeller** | Hot air impeller of stainless steel |
| **Direction of rotation** | Counter-clockwise, seen on rotor |
| **Type of protection** | IP 00 |
| **Insulation class** | "F" |
| **Humidity class** | F0 |
| **Max. permissible ambient motor temp. (transp./ storage)** | + 80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | - 40 °C |
| **Mounting position** | Shaft horizontal |
| **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 |
| **Electrical leads** | Via terminal strip |
| **Cable exit** | Axial |
| **Protection class** | I (if earth wire is connected by customer) |
| **Approval** | CCC |



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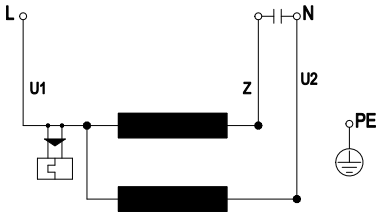
# AC hot-air circulation blower

## Product drawing




| | | | | | |
|---|---|---|---|---|---|
| 1 | blue | 2 | brown | 3 | black |

## Connection screen



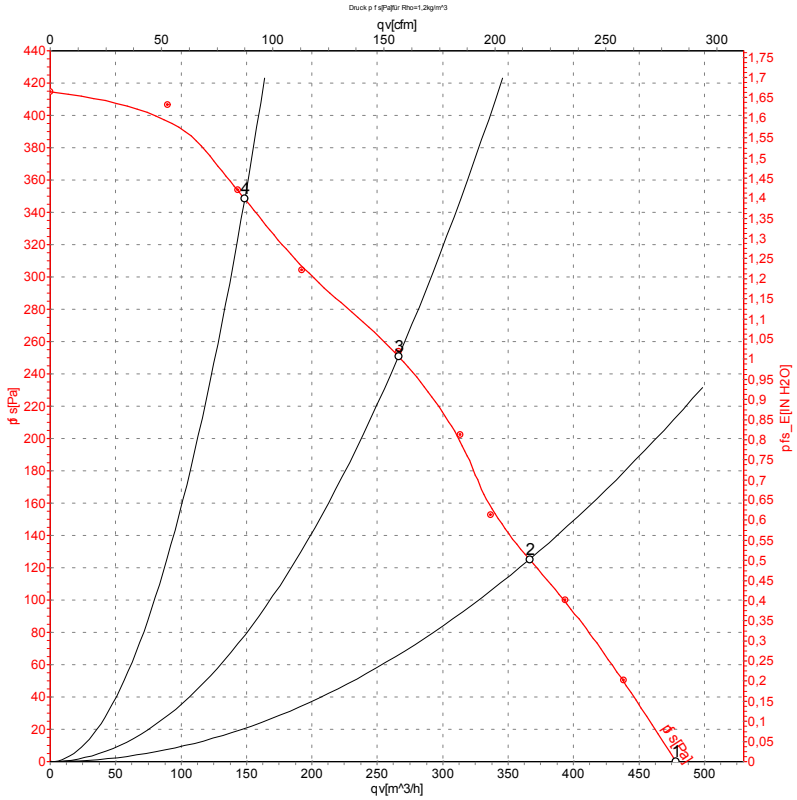

| | | | | | |
|---|---|---|---|---|---|
| U1 | blue | Z | brown | U2 | black |
| PE | green/yellow | | | | |



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# AC hot-air circulation blower

## Charts: Air flow 50 Hz




Measurement: LU-18195

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 | $P_e$ | I | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa |
| 1 | 230 | 50 | 2650 | 125 | 0.55 | 480 | 0 |
| 2 | 230 | 50 | 2645 | 115 | 0.52 | 365 | 125 |
| 3 | 230 | 50 | 2685 | 109 | 0.50 | 265 | 250 |
| 4 | 230 | 50 | 2700 | 106 | 0.49 | 150 | 350 |

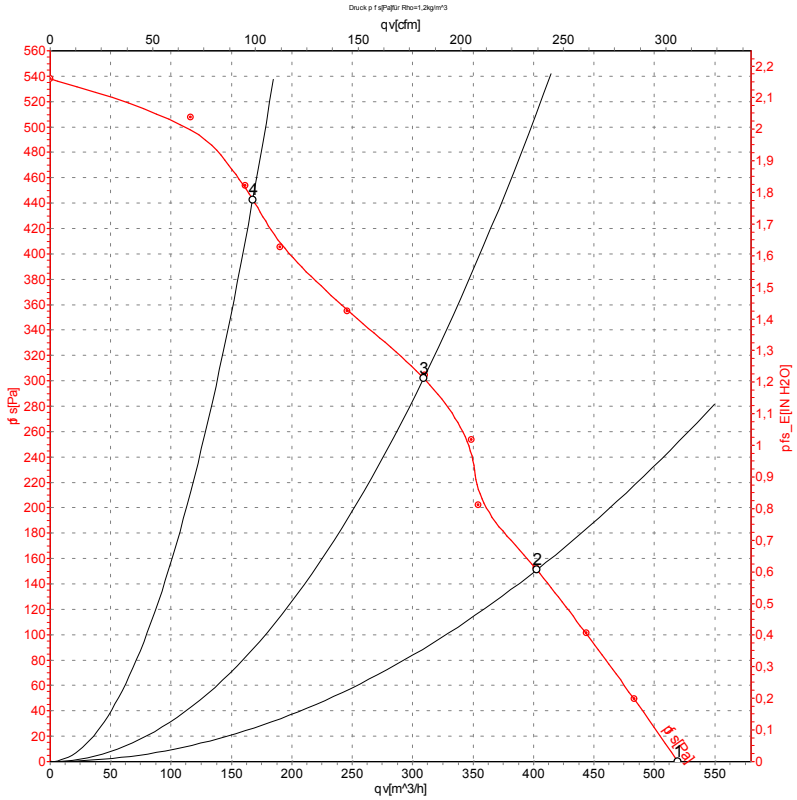
U = Supply voltage · f = Frequency · n = Speed · $P_e$ = Power input · I = Current draw · qv = Air flow · $p_{fs}$ = Pressure increase



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# AC hot-air circulation blower

## Charts: Air flow 60 Hz




Measurement: LU-18196

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 | $P_e$ | I | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa |
| 1 | 230 | 60 | 2850 | 165 | 0.70 | 520 | 0 |
| 2 | 230 | 60 | 2925 | 152 | 0.66 | 405 | 150 |
| 3 | 230 | 60 | 3000 | 144 | 0.62 | 310 | 300 |
| 4 | 230 | 60 | 3035 | 138 | 0.60 | 170 | 440 |

U = Supply voltage · f = Frequency · n = Speed · $P_e$ = Power input · I = Current draw · qv = Air flow · $p_{fs}$ = Pressure increase



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