# AC hot-air circulation blower

R2E210-AB34-21 ebmpapst Datasheet
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## Nominal data

| | |
|---|---|
| **Type** | **R2E210-AB34-21** |
| **Motor** | **M2E068-DF** |

| | | |
|---|---|---|
| Phase | | 1~ |
| Nominal voltage | VAC | 230 |
| Frequency | Hz | 50 |
| Type of data definition | | fa |
| Valid for approval / standard | | CE |
| Speed (rpm) | $min^{-1}$ | 2350 |
| Power input | W | 120 |
| Current draw | A | 0.54 |
| Motor capacitor | µF | 2.0 |
| Capacitor voltage | VDB | 400 |
| Min. back pressure | Pa | 0 |
| Min. ambient temperature | °C | -25 |
| Max. ambient temperature | °C | 60 |

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

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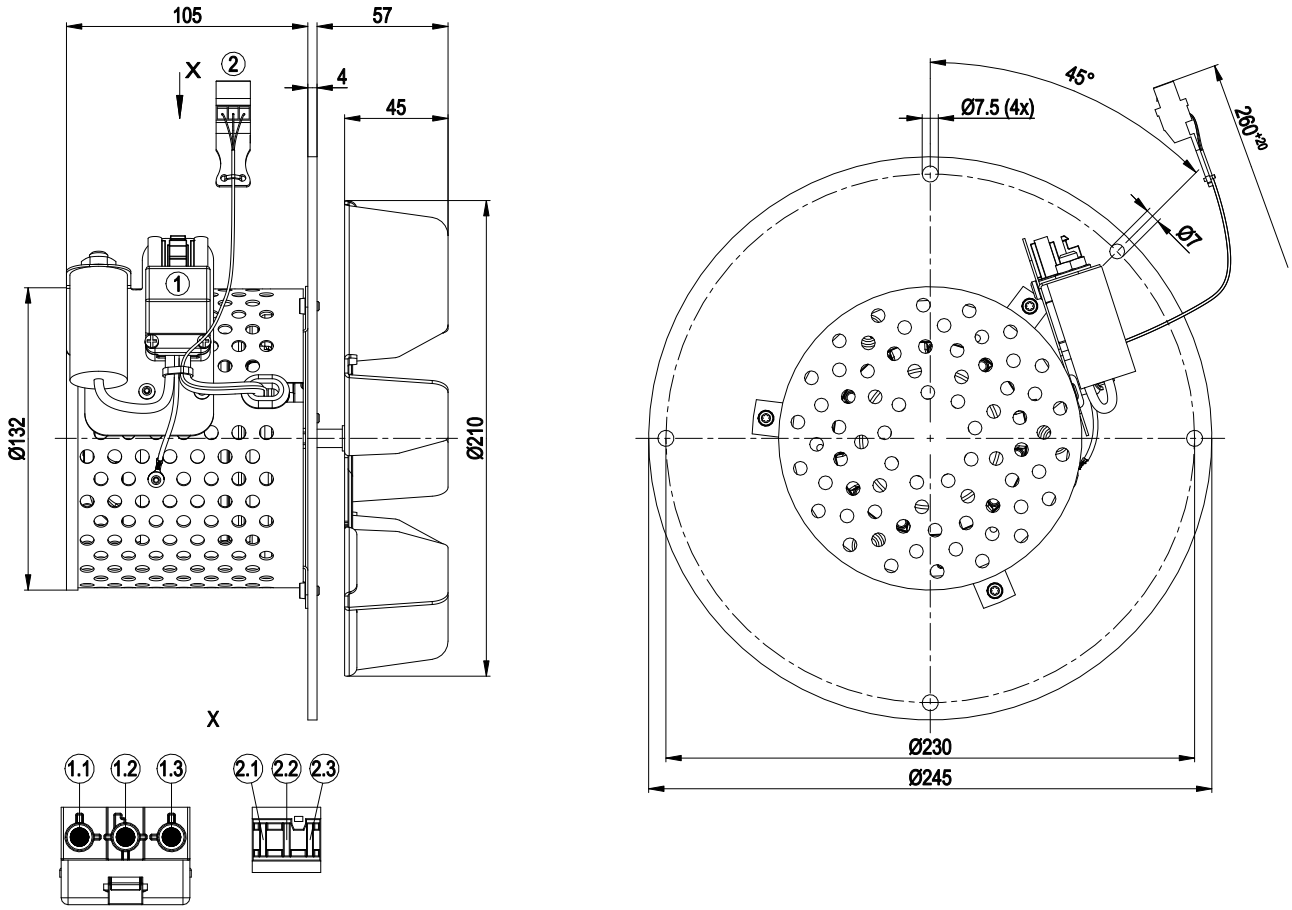
## Technical features

| | |
|---|---|
| **Mass** | 4.6 kg |
| **Size** | 210 mm |
| **Surface of rotor** | Uncoated |
| **Material of impeller** | Sheet steel, rust-resistant |
| **Number of blades** | 6 |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Type of protection** | IP 44; Depending on installation and position |
| **Insulation class** | "F" |
| **Humidity (F)/environmental protection class (H)** | H0 - dry environment |
| **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) |
| **Motor capacitor according to EN 60252-1 in safety protection class** | S0 |
| **Product conforming to standard** | EN 60335-1; CE |

# AC hot-air circulation blower

## Product drawing




| | |
|---|---|
| 1 | Connection line silicone 4G 0.5 mm², 1x Wieland 3-pole connector housing 93.832.4353.0 |
| 1.1 | black + capacitor |
| 1.2 | green/yellow |
| 1.3 | blue |
| 2 | Connection line Raychem Spec. 44, AWG24, connector housing 3-pole Lumberg 3615-1 |
| 2.1 | black (Hall IC) |
| 2.2 | white (Hall IC) |
| 2.3 | red (Hall IC) |

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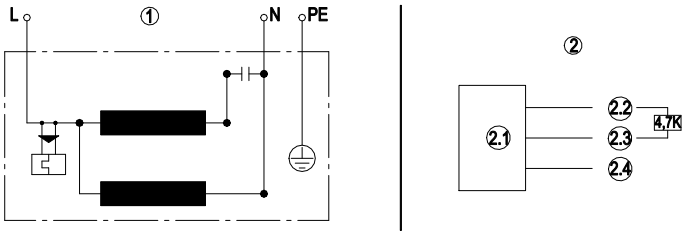
## Connection screen




| | |
|---|---|
| 1 | Fan connection diagram |
| L | blue |
| N | black |
| PE | green/yellow |
| 2 | Hall IC circuit |
| 2.1 | Hall IC |
| 2.2 | Red (+5V) |
| 2.3 | White (out) |
| 2.4 | Black (0V) |

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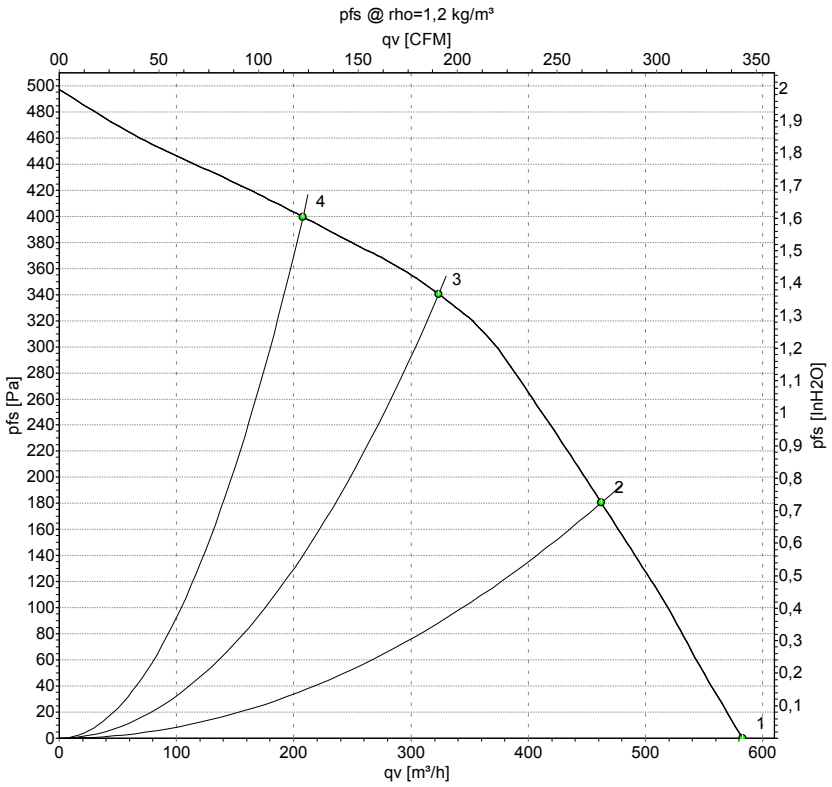
## Charts: Air flow 50 Hz




Measurement: LU-138693-1

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 | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 230 | 50 | 2350 | 120 | 0.54 | 585 | 0 | 345 | 0.00 |
| 2 | 230 | 50 | 2380 | 119 | 0.52 | 460 | 180 | 270 | 0.72 |
| 3 | 230 | 50 | 2520 | 103 | 0.45 | 325 | 340 | 190 | 1.36 |
| 4 | 230 | 50 | 2610 | 93 | 0.40 | 210 | 400 | 120 | 1.61 |

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