

## KARTA KATALOGOWA

# R2E175-BA78-11

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst

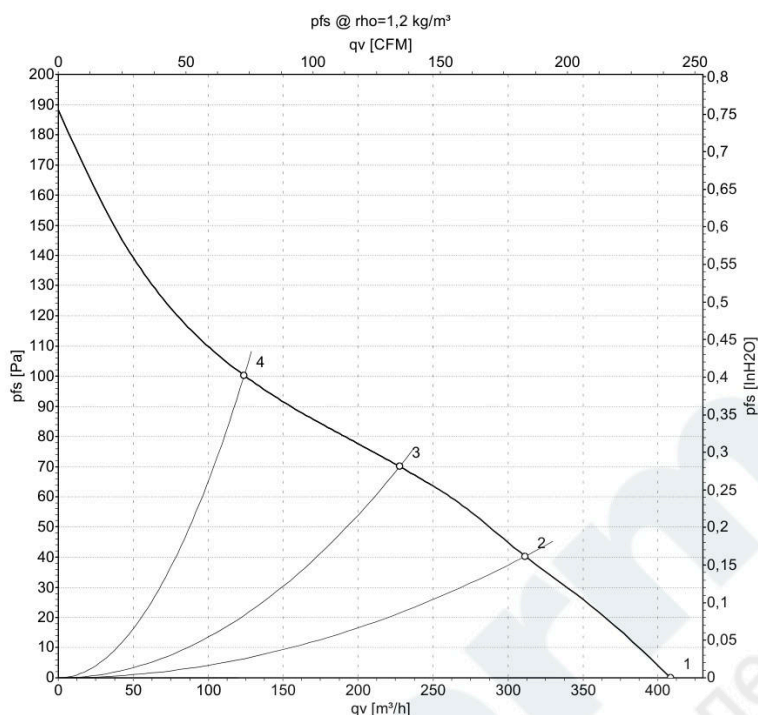


Zdjęcie poglądowe

| Dane znamionowe           |                              | Budowa                 |              |
|---------------------------|------------------------------|------------------------|--------------|
| Napięcie znamionowe       | 1~ 230 V                     | Średnica wirnika       | 175 mm       |
| Częstotliwość             | 50/60 Hz                     | Materiał wirnika       | tworzywo PA  |
| Prędkość obrotowa         | 2100 obr/min                 | Liczba łopatek         | 7            |
| Pobór mocy                | 24 / 32 W                    | Stopień ochrony        | IP44         |
| Pobór prądu               | 0,13 / 0,16 A                | Klasa izolacji         | B            |
| Kondensator               | 1,5 µF / 400 V               | Zabezpieczenie silnika | termik (TOP) |
| Maks. wydajność           | 410 m³/h                     | Masa                   | 0,7 kg       |
| Maks. ciśnienie statyczne | 100 Pa                       |                        |              |
| Temperatura otoczenia     | -25...+65 °C (60 Hz: +60 °C) |                        |              |

## Charakterystyka przepływowa

### Curves: Air performance 50 Hz



Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).  
Wartości dla 50 Hz / 60 Hz; producent zastrzega możliwość zmian.

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**R2E175-BA78-11**

# AC centrifugal fan

backward-curved, single-intake

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## Nominal data

|                             |                   |         |         |
|-----------------------------|-------------------|---------|---------|
| Type                        | R2E175-BA78-11    |         |         |
| Motor                       | M2E052-BF         |         |         |
| Phase                       |                   | 1~      | 1~      |
| Nominal voltage             | VAC               | 230     | 230     |
| Frequency                   | Hz                | 50      | 60      |
| Method of obtaining data    |                   | fa      | fa      |
| Valid for approval/standard |                   | CE      | CE      |
| Speed (rpm)                 | min <sup>-1</sup> | 2100    | 2100    |
| Power consumption           | W                 | 24      | 32      |
| Current draw                | A                 | 0.13    | 0.16    |
| Capacitor                   | µF                | 1.5     | 1.5     |
| Capacitor voltage           | VDB               | 400     | 400     |
| Capacitor standard          |                   | S0 (CE) | S0 (CE) |
| Min. back pressure          | Pa                | 0       | 0       |
| Min. back pressure          | in. wg            | 0       | 0       |
| Min. ambient temperature    | °C                | -25     | -25     |
| Max. ambient temperature    | °C                | 65      | 60      |

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change

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## Technical description

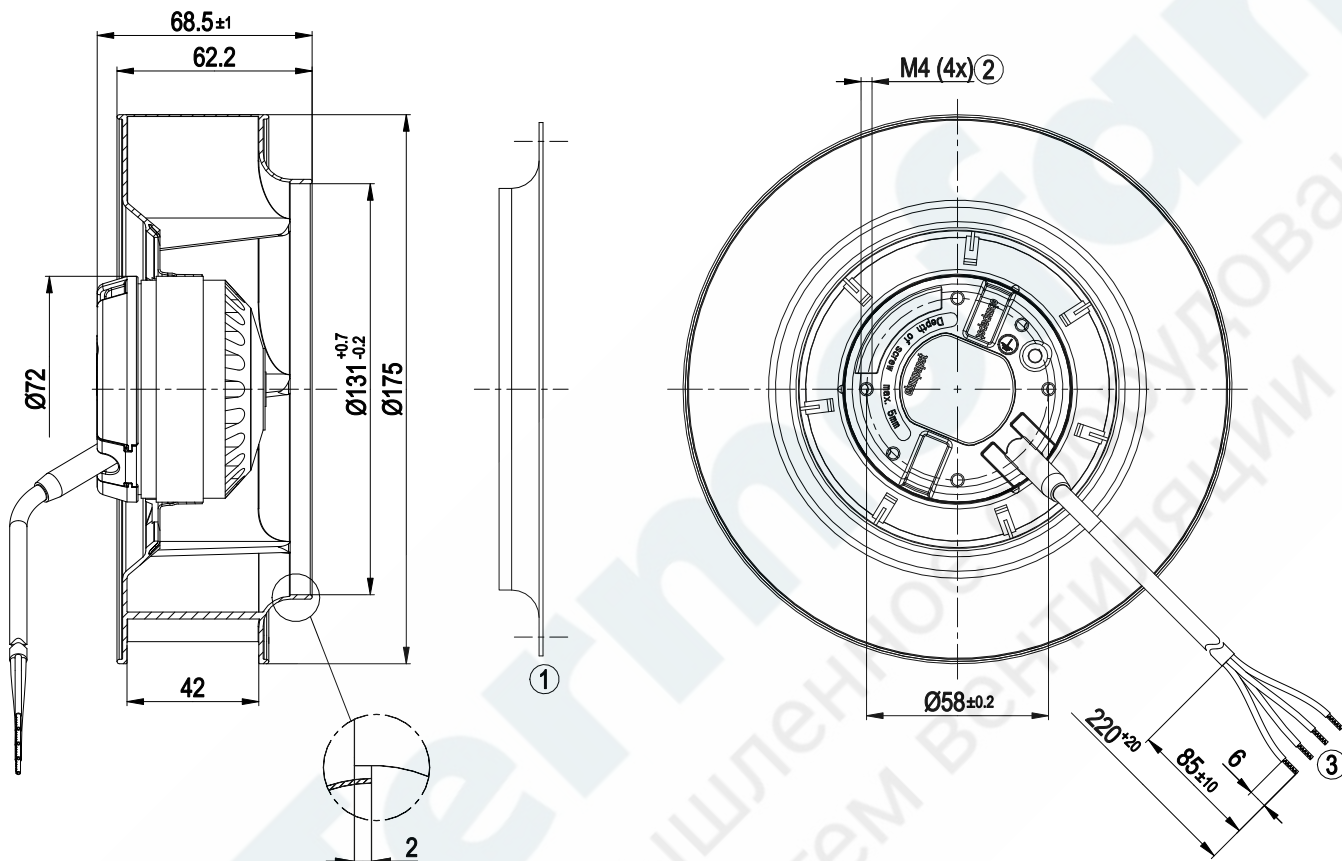
|                                                                                   |                                                              |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Weight</b>                                                                     | 0.7 kg                                                       |
| <b>Size</b>                                                                       | 175 mm                                                       |
| <b>Motor size</b>                                                                 | 52                                                           |
| <b>Rotor surface</b>                                                              | Painted black                                                |
| <b>Impeller material</b>                                                          | PA plastic                                                   |
| <b>Number of blades</b>                                                           | 7                                                            |
| <b>Direction of rotation</b>                                                      | Clockwise, viewed toward rotor                               |
| <b>Degree of protection</b>                                                       | IP44; installation- and position-dependent as per EN 60034-5 |
| <b>Insulation class</b>                                                           | "B"                                                          |
| <b>Moisture (F) / Environmental (H) protection class</b>                          | H0+                                                          |
| <b>Max. permitted ambient temp. for motor (transport/storage)</b>                 | + 80 °C                                                      |
| <b>Min. permitted ambient temp. for motor (transport/storage)</b>                 | - 40 °C                                                      |
| <b>Installation position</b>                                                      | Shaft horizontal or rotor on bottom; rotor on top on request |
| <b>Condensation drainage holes</b>                                                | On rotor side                                                |
| <b>Mode</b>                                                                       | S1                                                           |
| <b>Motor bearing</b>                                                              | Ball bearing                                                 |
| <b>Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)</b> | < 0.75 mA                                                    |
| <b>Motor protection</b>                                                           | Thermal overload protector (TOP) internally connected        |
| <b>With cable</b>                                                                 | Variable                                                     |
| <b>Protection class</b>                                                           | I (with customer connection of protective earth)             |
| <b>Conformity with standards</b>                                                  | EN 60335-1; CE                                               |

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## Product drawing

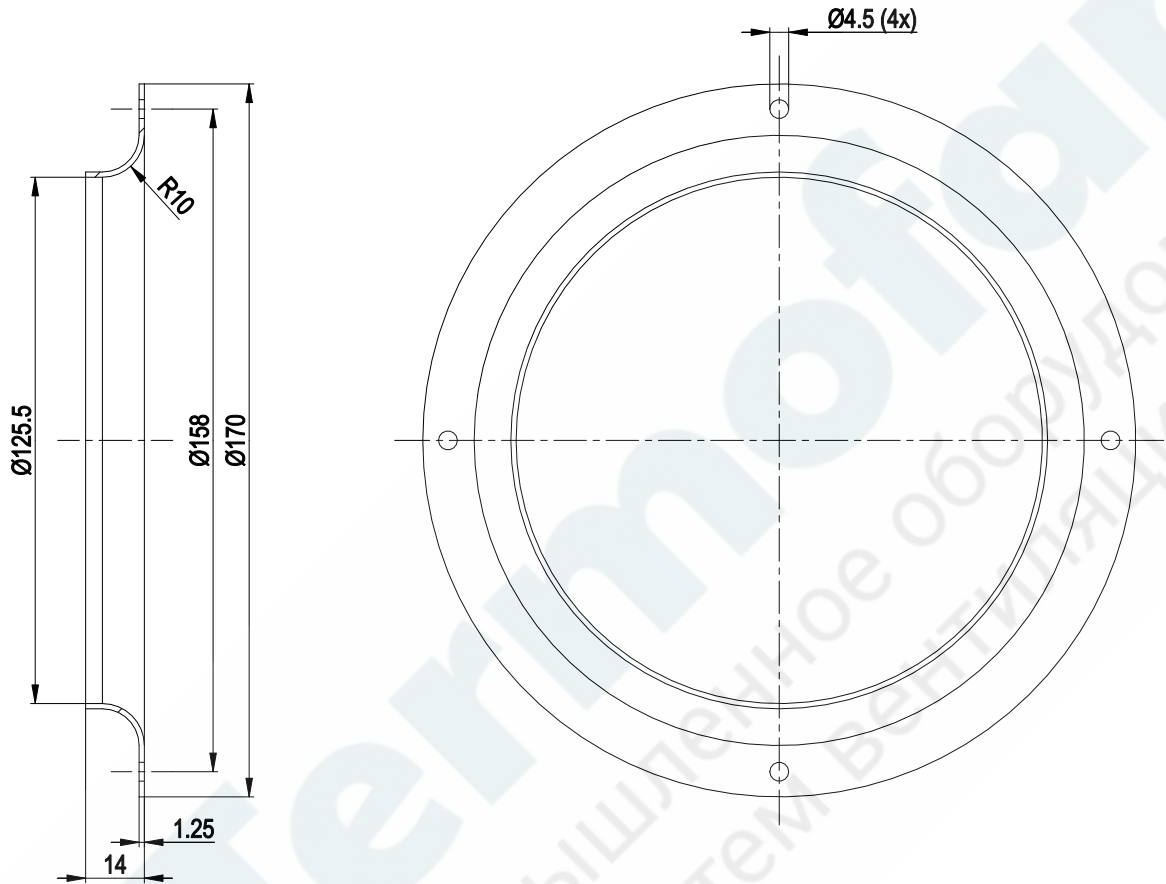


- |   |                                                                            |
|---|----------------------------------------------------------------------------|
| 1 | Accessory part: Inlet ring 09576-2-4013, not included in scope of delivery |
| 2 | Max. clearance for screw 5 mm                                              |
| 3 | Cable PVC 4G 0.5 mm <sup>2</sup> , 4x crimped splices                      |

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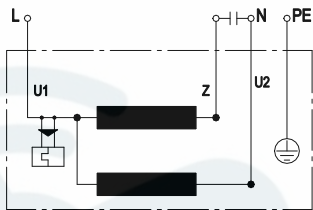
AC centrifugal fan  
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Accessory part



1 Accessory part: inlet ring 09576-2-4013 not included in scope of delivery

Connection diagram



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

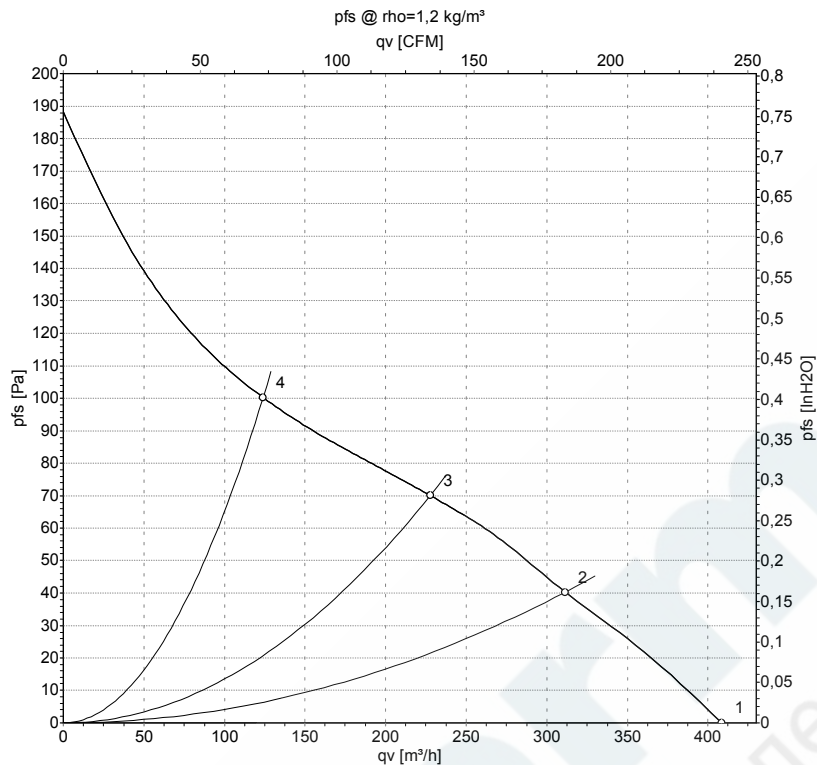


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# AC centrifugal fan

backward-curved, single-intake

## Curves: Air performance 50 Hz



Measurement: LU-76948-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | q <sub>v</sub> | p <sub>fs</sub> | q <sub>v</sub> | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|----------------|-----------------|----------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h           | Pa              | cfm            | in. wg          |
| 1 | 230 | 50 | 2100              | 24             | 0.13 | 410            | 0               | 240            | 0.00            |
| 2 | 230 | 50 | 1925              | 24             | 0.13 | 310            | 40              | 185            | 0.16            |
| 3 | 230 | 50 | 1800              | 25             | 0.13 | 230            | 70              | 135            | 0.28            |
| 4 | 230 | 50 | 1830              | 24             | 0.13 | 125            | 100             | 75             | 0.40            |

U = Voltage · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

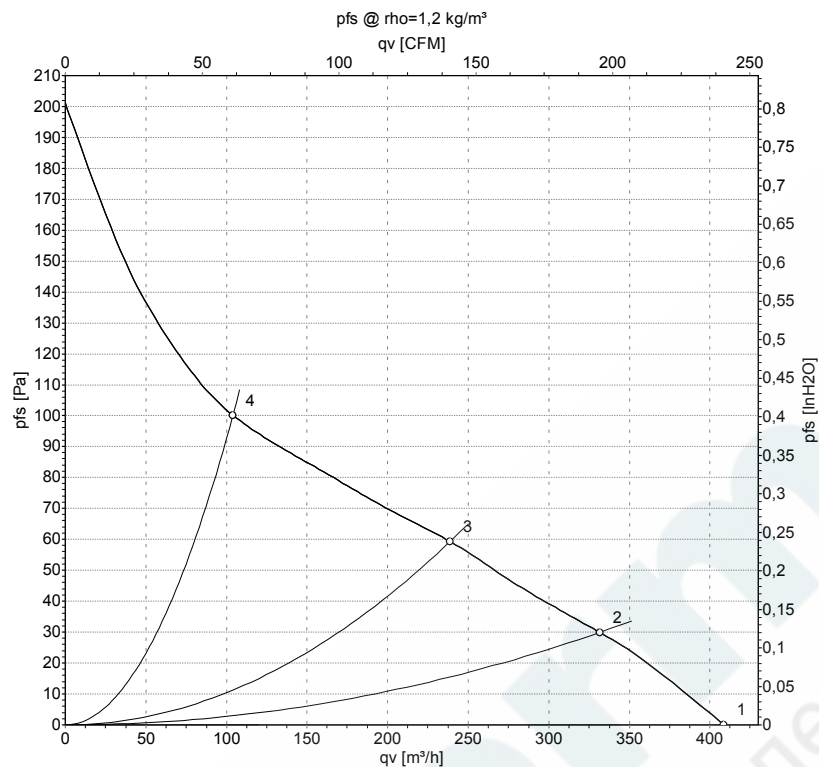


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# AC centrifugal fan

backward-curved, single-intake

## Curves: Air performance 60 Hz



Measurement: LU-76949-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | q <sub>v</sub> | p <sub>fs</sub> | q <sub>v</sub> | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|----------------|-----------------|----------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h           | Pa              | cfm            | in. wg          |
| 1 | 230 | 60 | 2100              | 32             | 0.16 | 410            | 0               | 240            | 0.00            |
| 2 | 230 | 60 | 1945              | 32             | 0.16 | 330            | 30              | 195            | 0.12            |
| 3 | 230 | 60 | 1765              | 32             | 0.16 | 240            | 60              | 140            | 0.24            |
| 4 | 230 | 60 | 1815              | 31             | 0.16 | 105            | 100             | 60             | 0.40            |

U = Voltage · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase