

## KARTA KATALOGOWA

# R4E355-AF05-09

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst

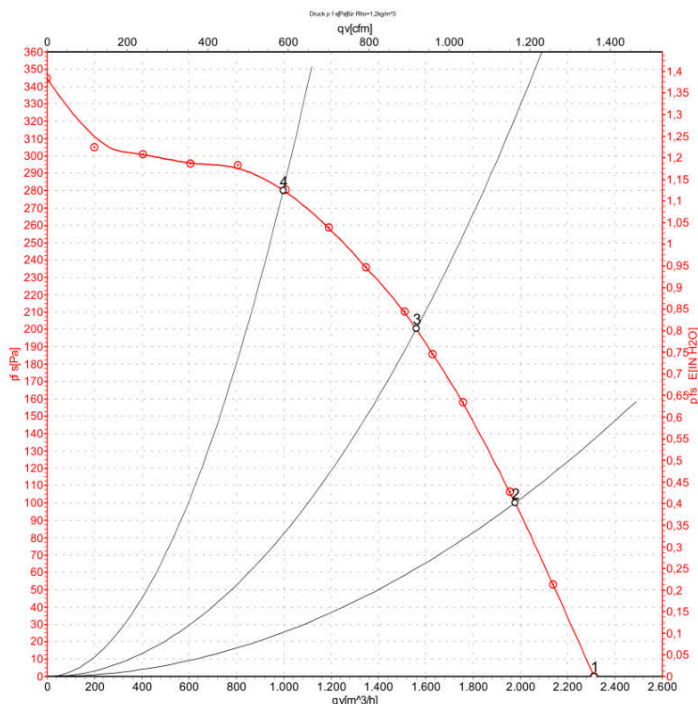


Zdjęcie poglądowe

| Dane znamionowe           |                                    | Budowa                 |                                      |
|---------------------------|------------------------------------|------------------------|--------------------------------------|
| Napięcie znamionowe       | 1~ 230 V                           | Wielkość               | 355 mm                               |
| Częstotliwość             | 50 / 60 / 60 Hz                    | Silnik                 | M4E074-EI                            |
| Prędkość obrotowa         | 1410 / 1630 / 1630 obr/min         | Materiał wirnika       | tworzywo PP                          |
| Pobór mocy                | 170 / 270 / 250 W                  | Liczba łopatek         | 6                                    |
| Pobór prądu               | 0,78 / 1,2 / 1,1 A                 | Kierunek obrotów       | w prawo, patrząc na wirnik           |
| Kondensator               | 6 µF / 400 V                       | Stopień ochrony        | IP44                                 |
| Maks. wydajność           | 2300 m³/h                          | Klasa izolacji         | B                                    |
| Maks. ciśnienie statyczne | 325 Pa                             | Zabezpieczenie silnika | termik (TOP), podłączony wewnętrznie |
| Temperatura otoczenia     | min. -25 °C; maks. 40 / 25 / 25 °C | Łożyskowanie           | kulkowe                              |
|                           |                                    | Masa                   | 4,5 kg                               |

## Charakterystyka przepływowa (50 Hz)

### Curves: Air performance 50 Hz



Measurement: LU-106566-1

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.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).  
Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

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**R4E355-AF05-09**

# AC centrifugal fan

backward-curved, single-intake

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## Nominal data

|                             |                    |         |         |         |
|-----------------------------|--------------------|---------|---------|---------|
| Type                        | R4E355-AF05-09     |         |         |         |
| Motor                       | M4E074-EI          |         |         |         |
| Phase                       |                    | 1~      | 1~      | 1~      |
| Nominal voltage             | VAC                | 230     | 230     | 230     |
| Frequency                   | Hz                 | 50      | 60      | 60      |
| Method of obtaining data    |                    | fa      | fa      | fa      |
| Valid for approval/standard |                    | -       | UL 2111 | -       |
| Speed (rpm)                 | min <sup>-1</sup>  | 1410    | 1630    | 1630    |
| Power consumption           | W                  | 170     | 270     | 250     |
| Current draw                | A                  | 0.78    | 1.2     | 1.1     |
| Capacitor                   | µF                 | 6       | 6       | 6       |
| Capacitor voltage           | VDB                | 400     | 400     | 400     |
| Capacitor standard          |                    | S0 (CE) | UL      | S0 (CE) |
| Min. back pressure          | Pa                 | 0       | 0       | 0       |
| Min. back pressure          | inH <sub>2</sub> O | 0       | 0       | 0       |
| Min. ambient temperature    | °C                 | -25     | -25     | -25     |
| Max. ambient temperature    | °C                 | 40      | 25      | 25      |

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

Subject to change



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# AC centrifugal fan

backward-curved, single-intake

## Technical description

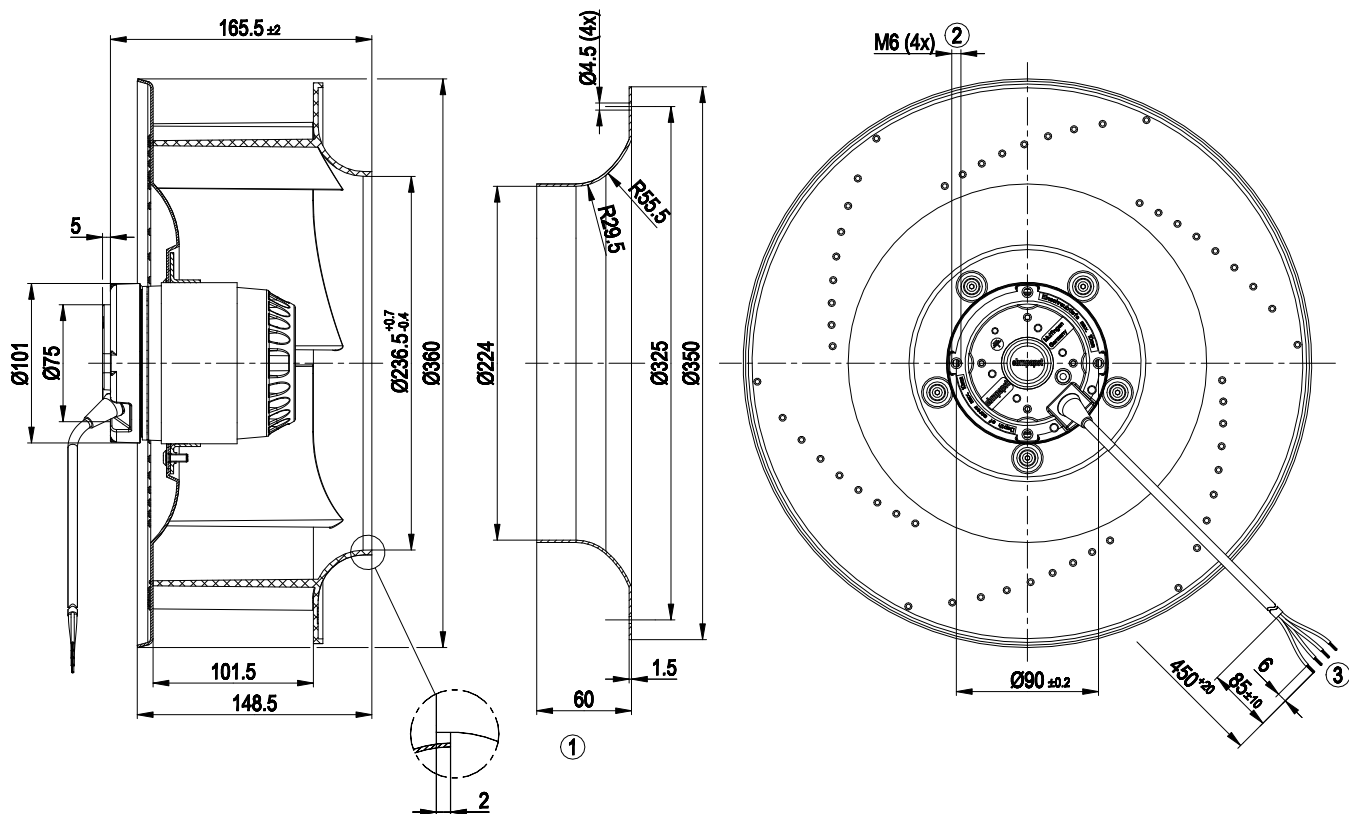
|                                                                                   |                                                              |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Weight</b>                                                                     | 4.5 kg                                                       |
| <b>Fan size</b>                                                                   | 355 mm                                                       |
| <b>Rotor surface</b>                                                              | Painted black                                                |
| <b>Impeller material</b>                                                          | PP plastic                                                   |
| <b>Number of blades</b>                                                           | 6                                                            |
| <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>                          | F5                                                           |
| <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                                                   |
| <b>Approval</b>                                                                   | UL 2111; CSA C22.2 No. 77                                    |

**R4E355-AF05-09**

# AC centrifugal fan

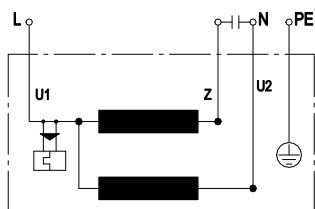
backward-curved, single-intake

## Product drawing



- |   |                                                                            |
|---|----------------------------------------------------------------------------|
| 1 | Accessory part: inlet ring 51357-2-4013, not included in scope of delivery |
| 2 | Max. clearance for screw 10 mm                                             |
| 3 | Cable PVC 4G AWG20, 4x crimped splices                                     |

## Connection diagram



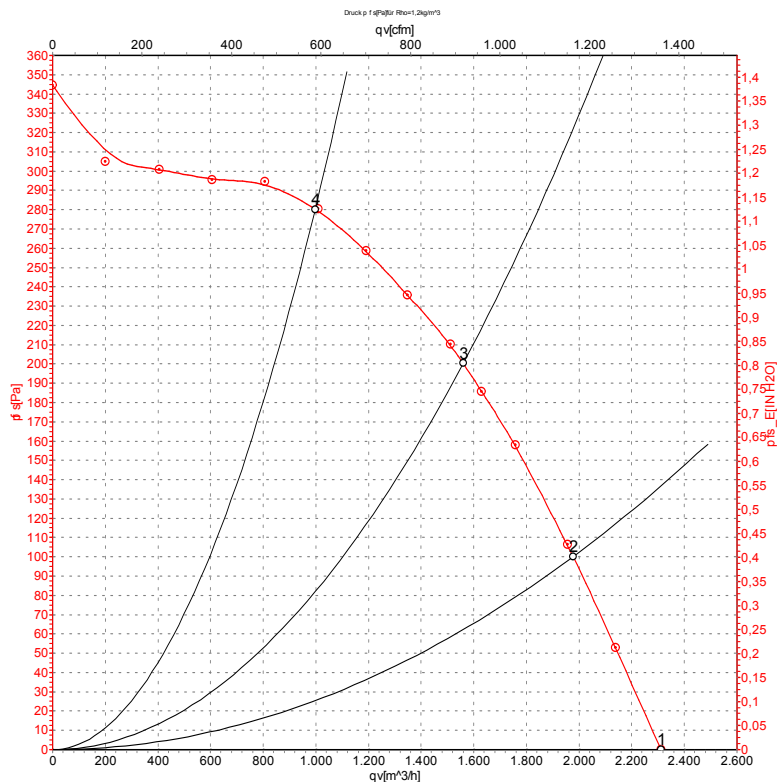
|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |

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# AC centrifugal fan

backward-curved, single-intake

## Curves: Air performance 50 Hz



Measurement: LU-106566-1

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            | inH <sub>2</sub> O |
| 1 | 230 | 50 | 1410              | 170            | 0.78 | 2310           | 0               | 1360           | 0.00               |
| 2 | 230 | 50 | 1390              | 191            | 0.85 | 1975           | 100             | 1165           | 0.40               |
| 3 | 230 | 50 | 1365              | 211            | 0.93 | 1560           | 200             | 920            | 0.80               |
| 4 | 230 | 50 | 1370              | 208            | 0.92 | 995            | 280             | 585            | 1.12               |

U = Power supply · 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

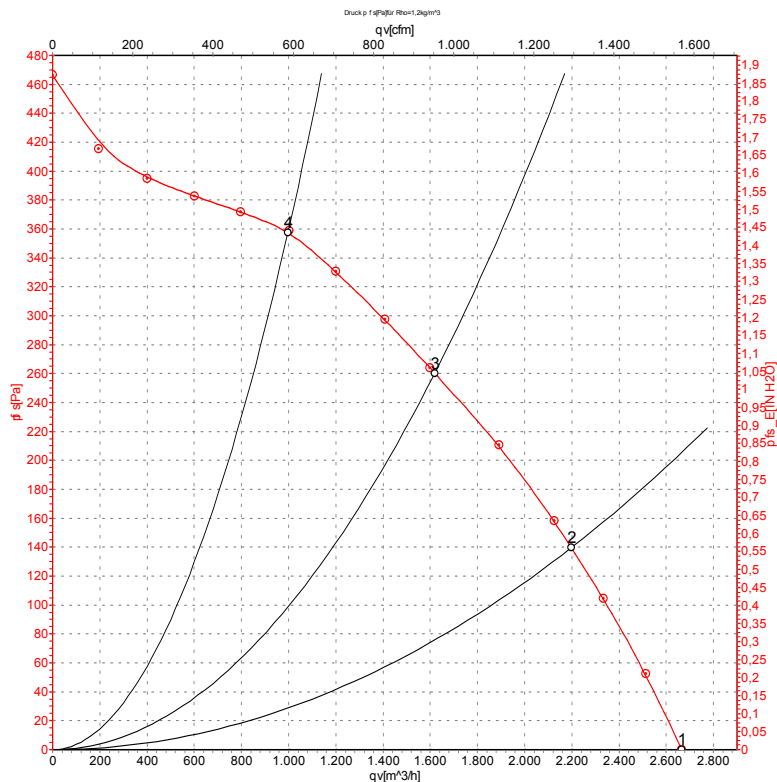


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# AC centrifugal fan

backward-curved, single-intake

## Curves: Air performance 60 Hz



Measurement: LU-106568-1

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>ts</sub> | q <sub>v</sub> | P <sub>ts</sub>    |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|----------------|--------------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m <sup>3</sup> /h | Pa              | cfm            | inH <sub>2</sub> O |
| 1 | 230 | 60 | 1630              | 250            | 1.10 | 2665              | 0               | 1570           | 0.00               |
| 2 | 230 | 60 | 1570              | 284            | 1.25 | 2200              | 140             | 1295           | 0.56               |
| 3 | 230 | 60 | 1490              | 310            | 1.35 | 1620              | 260             | 955            | 1.04               |
| 4 | 230 | 60 | 1530              | 300            | 1.30 | 995               | 360             | 585            | 1.45               |

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

