

## KARTA KATALOGOWA

# R2E225-BD40-21

Wentylator promieniowy AC, łopatki zakrzywione do tyłu

Producent: ebm-papst

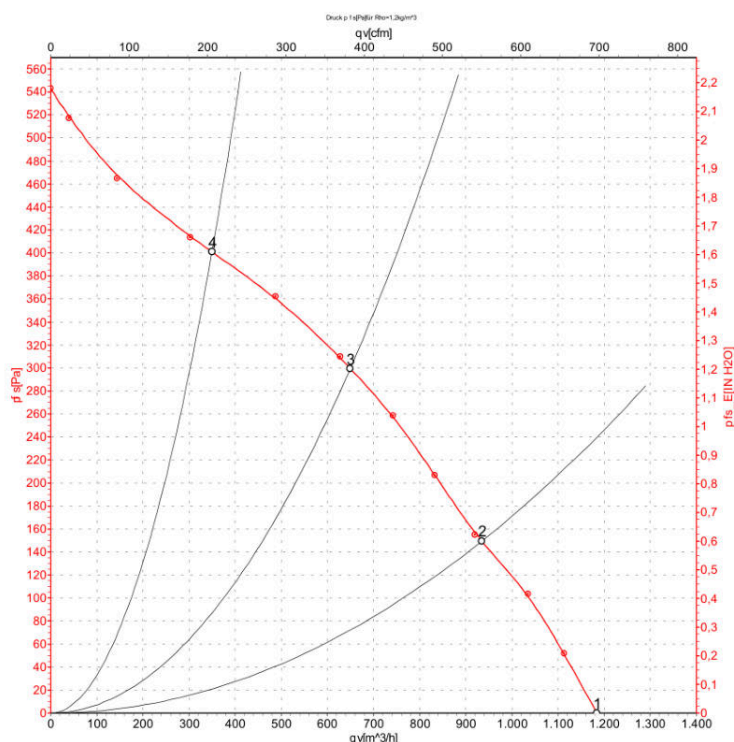


Zdjęcie poglądowe

| Dane znamionowe           |                                    | Budowa                 |                                          |
|---------------------------|------------------------------------|------------------------|------------------------------------------|
| Napięcie znamionowe       | 1~ 115 V                           | Wielkość               | 225 mm                                   |
| Częstotliwość             | 50 / 60 / 60 Hz                    | Silnik                 | M2E068-DF                                |
| Prędkość obrotowa         | 2700 / 3050 / 3050 obr/min         | Materiał wirnika       | tworzywo PA6 wzmocnione włóknem szklanym |
| Pobór mocy                | 142 / 195 / 200 W                  | Kierunek obrotów       | w prawo, patrząc na wirnik               |
| Pobór prądu               | 1,25 / 1,7 / 1,68 A                | Stopień ochrony        | IP44                                     |
| Kondensator               | 16 µF / 250 V                      | Klasa izolacji         | F                                        |
| Maks. wydajność           | 1150 m³/h                          | Zabezpieczenie silnika | termik (TOP), podłączony wewnętrznie     |
| Maks. ciśnienie statyczne | 565 Pa                             | Łożyskowanie           | kulkowe                                  |
| Temperatura otoczenia     | min. -25 °C; maks. 50 / 60 / 60 °C | Masa                   | 2,26 kg                                  |

## Charakterystyka przepływowa (50 Hz)

### Curves: Air performance 50 Hz



Measurement: LU-54262-1

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.

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**R2E225-BD40-21**

# AC centrifugal fan

backward-curved

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## Nominal data

| Type                        | R2E225-BD40-21     |      |      |      |
|-----------------------------|--------------------|------|------|------|
| Motor                       | M2E068-DF          |      |      |      |
| Phase                       |                    | 1~   | 1~   | 1~   |
| Nominal voltage             | VAC                | 115  | 115  | 115  |
| Frequency                   | Hz                 | 50   | 60   | 60   |
| Method of obtaining data    |                    | fa   | fa   | fa   |
| Valid for approval/standard |                    | CE   | CE   | UL   |
| Speed (rpm)                 | min <sup>-1</sup>  | 2700 | 3050 | 3050 |
| Power consumption           | W                  | 142  | 195  | 200  |
| Current draw                | A                  | 1.25 | 1.7  | 1.68 |
| Capacitor                   | µF                 | 16   | 16   | 16   |
| Capacitor voltage           | VDB                | 250  | 250  | 250  |
| 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                 | 50   | 60   | 60   |

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

Subject to change


**ebmpapst**

**R2E225-BD40-21**

# AC centrifugal fan

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## Technical description

|                                                                                   |                                                              |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Weight</b>                                                                     | 2.26 kg                                                      |
| <b>Fan size</b>                                                                   | 225 mm                                                       |
| <b>Rotor surface</b>                                                              | Painted black                                                |
| <b>Impeller material</b>                                                          | PA6 plastic, glass-fiber reinforced                          |
| <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>                                                           | "F"                                                          |
| <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                                               |
| <b>Approval</b>                                                                   | CCC; CSA C22.2 No. 77; UL 2111                               |

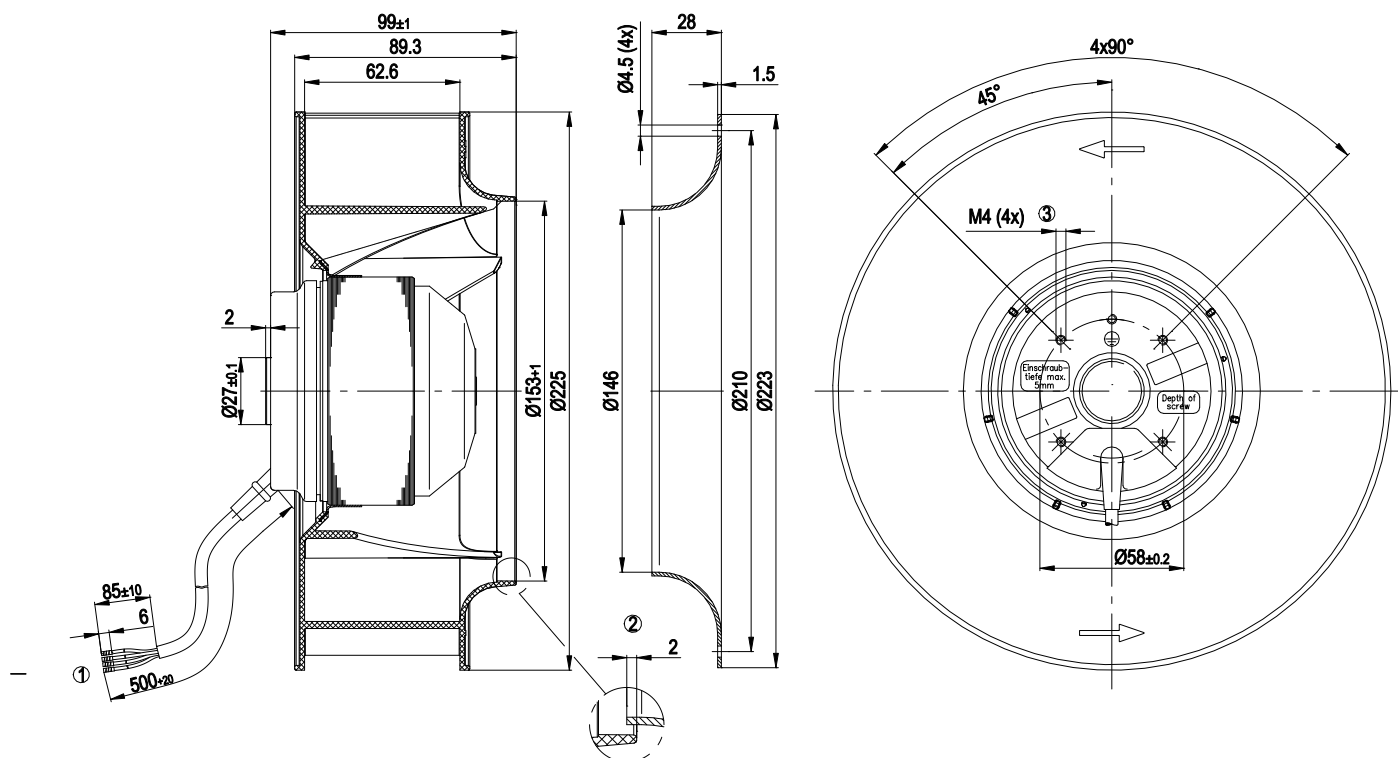


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# AC centrifugal fan

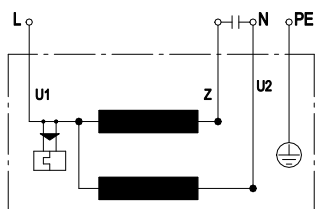
backward-curved

## Product drawing



- |   |                                                                            |
|---|----------------------------------------------------------------------------|
| 1 | Cable PFA AWG 20, 4 x crimped splices                                      |
| 2 | Accessory part: Inlet ring 96358-2-4013 not included in scope of delivery. |
| 3 | Max. clearance for screw 5 mm                                              |

## Connection diagram



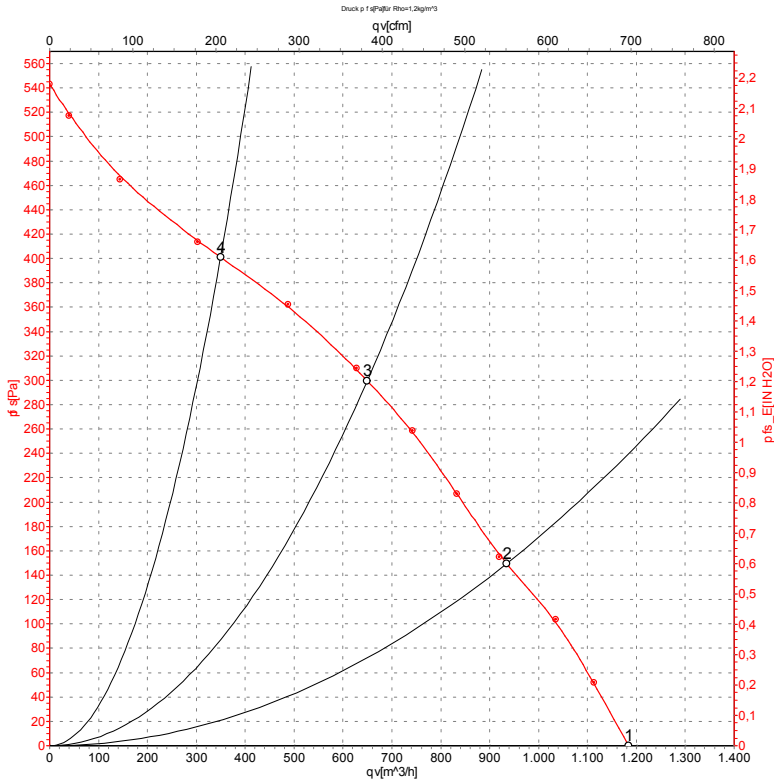
|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |

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# AC centrifugal fan

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## Curves: Air performance 50 Hz



Measurement: LU-54262-1

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    | LpA <sub>in</sub> | LwA <sub>in</sub> | qv   | p <sub>ts</sub> | qv  | p <sub>ts</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-------------------|------|-----------------|-----|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | dB(A)             | dB(A)             | m³/h | Pa              | CFM | inH2O           |
| 1 | 115 | 50 | 2700              | 142            | 1.25 | 69                | 76                | 1185 | 0               | 695 | 0.00            |
| 2 | 115 | 50 | 2655              | 151            | 1.36 | 64                | 72                | 935  | 150             | 550 | 0.60            |
| 3 | 115 | 50 | 2605              | 162            | 1.44 | 61                | 69                | 650  | 300             | 385 | 1.20            |
| 4 | 115 | 50 | 2660              | 149            | 1.34 | 63                | 71                | 350  | 400             | 205 | 1.61            |

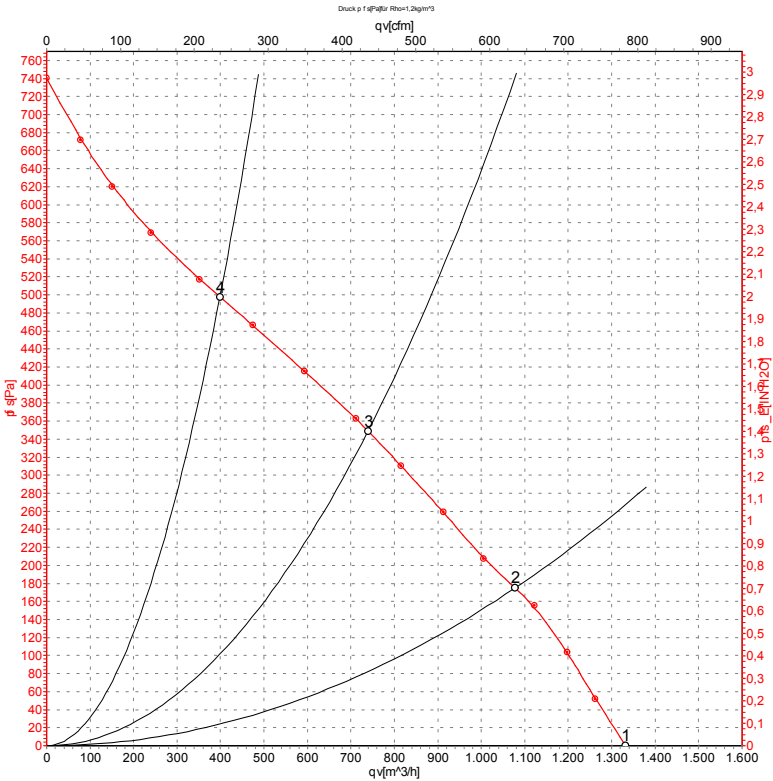
U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side  
qv = Air flow · p<sub>ts</sub> = Pressure increase



R2E225-BD40-21

AC centrifugal fan  
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Curves: Air performance 60 Hz



Measurement: LU-54261-1  
  
 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    | LpA <sub>in</sub> | LwA <sub>in</sub> | qv   | P <sub>fs</sub> | qv  | P <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-------------------|------|-----------------|-----|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | dB(A)             | dB(A)             | m³/h | Pa              | CFM | inH2O           |
| 1 | 115 | 60 | 3050              | 195            | 1.70 | 71                | 78                | 1330 | 0               | 785 | 0.00            |
| 2 | 115 | 60 | 2950              | 211            | 1.84 | 67                | 75                | 1080 | 175             | 635 | 0.70            |
| 3 | 115 | 60 | 2845              | 224            | 1.95 | 64                | 72                | 740  | 350             | 435 | 1.41            |
| 4 | 115 | 60 | 2960              | 209            | 1.82 | 66                | 74                | 400  | 500             | 235 | 2.01            |

U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side  
 qv = Air flow · p<sub>fs</sub> = Pressure increase

