

## KARTA KATALOGOWA

# R2E220-AB06-55

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

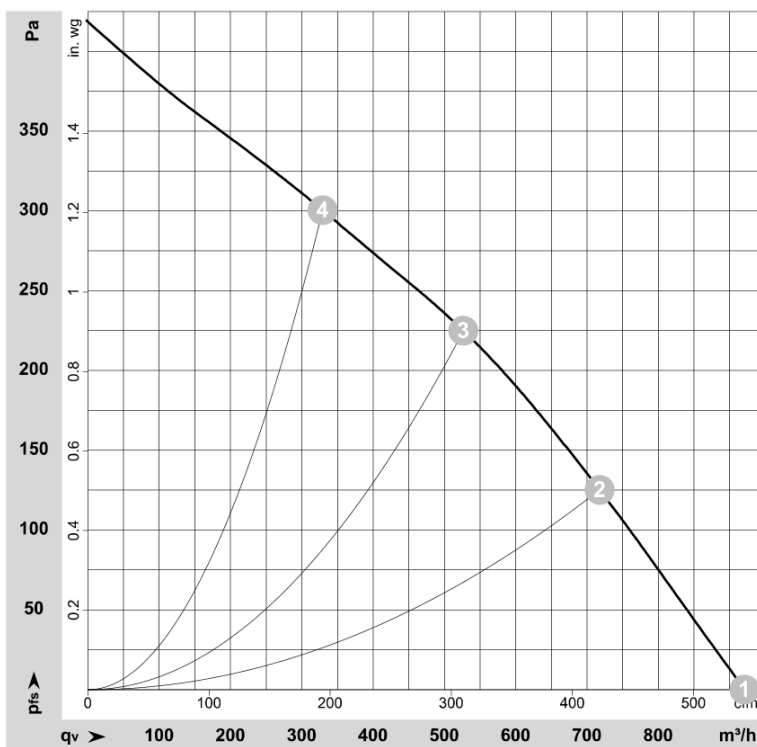
Producent: ebm-papst



| Dane znamionowe           |                     | Budowa                 |                                |
|---------------------------|---------------------|------------------------|--------------------------------|
| Napięcie znamionowe       | 1~ 230 V            | Średnica wirnika       | 220 mm                         |
| Częstotliwość             | 50/60 Hz            | Materiał wirnika       | kompozyt (tworzywo wzmocnione) |
| Prędkość obrotowa         | 2700 / 3050 obr/min | Liczba łopatek         | 11                             |
| Pobór mocy                | 85 / 115 W          | Stopień ochrony        | IP44                           |
| Pobór prądu               | 0,38 / 0,51 A       | Klasa izolacji         | B                              |
| Maks. wydajność           | 920 m³/h            | Zabezpieczenie silnika | termik (TOP)                   |
| Maks. ciśnienie statyczne | 300 Pa              | Masa                   | 1,77 kg                        |
| Temperatura otoczenia     | -25...+45 °C        |                        |                                |

## Charakterystyka przepływowa

### Curves: Air performance 50 Hz



$$\rho = 1.185 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-106769-1

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

### Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199  
biuro@luftberg.pl · www.luftberg.pl

**R2E220-AB06-55**

# AC centrifugal fan

backward-curved


**ebm-papst Mulfingen GmbH & Co. KG**

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

## Nominal data

|                             |                       |      |      |         |
|-----------------------------|-----------------------|------|------|---------|
| <b>Type</b>                 | <b>R2E220-AB06-55</b> |      |      |         |
| <b>Motor</b>                | <b>M2E068-CF</b>      |      |      |         |
| 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 |                       | CE   | CE   | UL 2111 |
| Speed (rpm)                 | min <sup>-1</sup>     | 2700 | 3050 | 3050    |
| Power consumption           | W                     | 85   | 115  | 120     |
| Current draw                | A                     | 0.38 | 0.51 | 0.51    |
| Capacitor                   | µF                    | 2.5  | 2.5  | 2.5     |
| Capacitor voltage           | VDB                   | 400  | 400  | 400     |
| Min. back pressure          | Pa                    | 0    | 0    | 0       |
| Min. back pressure          | in. wg                | 0    | 0    | 0       |
| Min. ambient temperature    | °C                    | -25  | -25  | -25     |
| Max. ambient temperature    | °C                    | 45   | 45   | 45      |
| Starting current            | A                     | 0.85 | 0.85 | 0.88    |

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



**R2E220-AB06-55**

# AC centrifugal fan

backward-curved

## Technical description

|                                                                                   |                                                              |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Weight</b>                                                                     | 1.77 kg                                                      |
| <b>Size</b>                                                                       | 220 mm                                                       |
| <b>Motor size</b>                                                                 | 68                                                           |
| <b>Rotor surface</b>                                                              | Painted black                                                |
| <b>Impeller material</b>                                                          | PA6 plastic, glass-fiber reinforced                          |
| <b>Number of blades</b>                                                           | 11                                                           |
| <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>                          | H1                                                           |
| <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>Electrical hookup</b>                                                          | Connector with cable                                         |
| <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>Motor capacitor according to EN 60252-1 in safety protection class</b>         | S0                                                           |
| <b>Conformity with standards</b>                                                  | EN 60335-1; CE                                               |
| <b>Approval</b>                                                                   | CSA C22.2 No. 77; CCC; UL 1004-3                             |

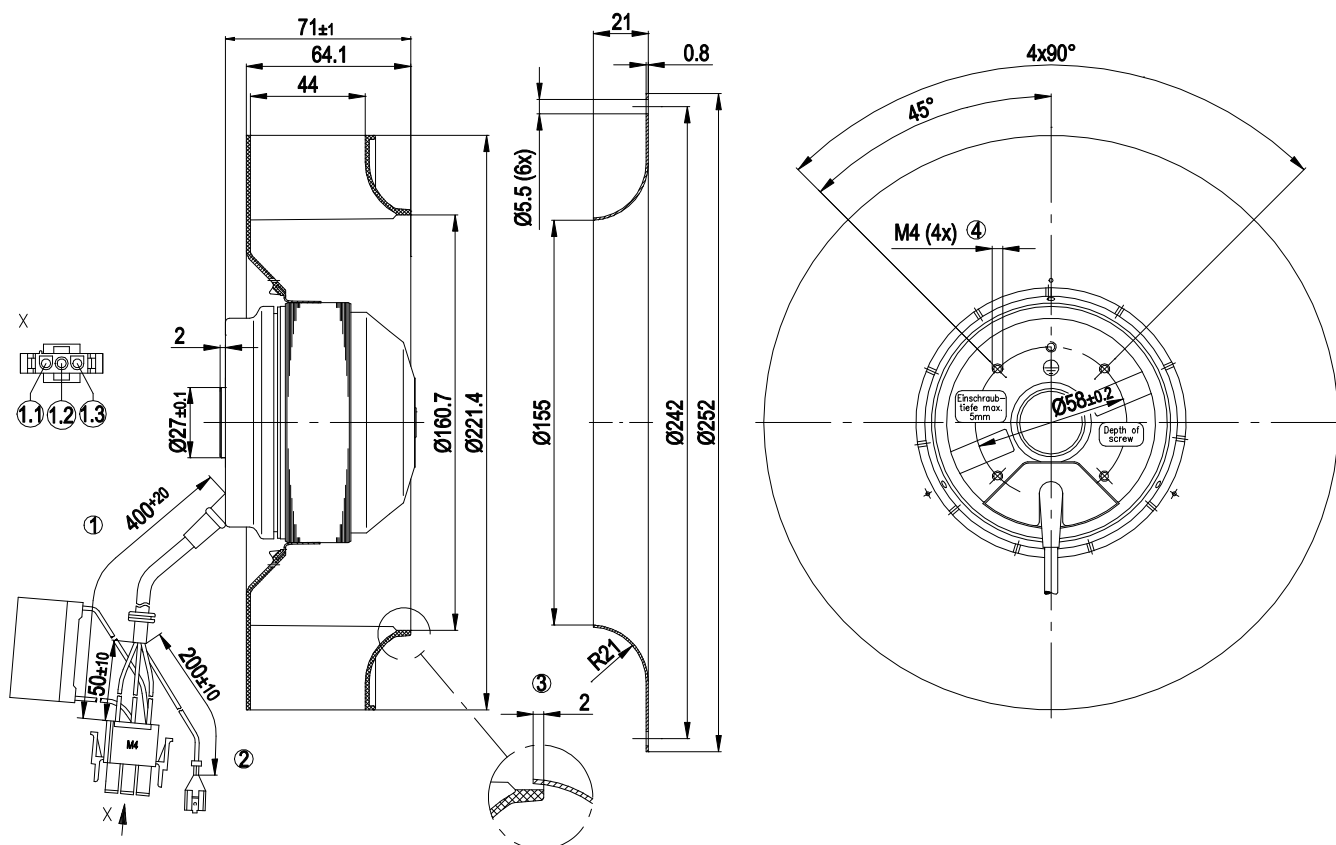


**R2E220-AB06-55**

# AC centrifugal fan

backward-curved

## Product drawing



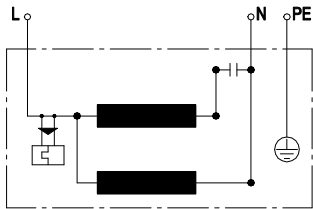
|     |                                                                                                                |
|-----|----------------------------------------------------------------------------------------------------------------|
| 1   | Cable PVC AWG20, 3-pole connector housing tyco 2178473-3, 2x plug pin tyco 350538-1, 1x plug pin tyco 926885-1 |
| 1.1 | blue                                                                                                           |
| 1.2 | brown + capacitor                                                                                              |
| 1.3 | black + capacitor                                                                                              |
| 2   | Flat push-on receptacle 6.3x0.8                                                                                |
| 3   | Accessory part: Inlet ring 09609-2-4013, not included in scope of delivery                                     |
| 4   | Max. clearance for screw 5 mm                                                                                  |

R2E220-AB06-55

# AC centrifugal fan

backward-curved

## Connection diagram



|   |      |   |       |    |              |
|---|------|---|-------|----|--------------|
| L | blue | N | black | PE | green/yellow |
|---|------|---|-------|----|--------------|

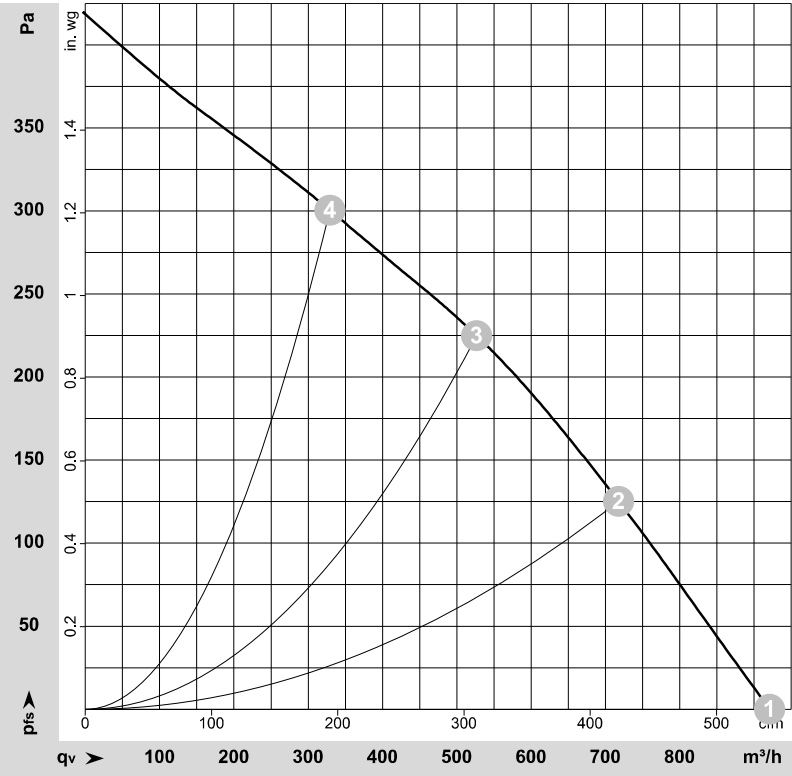


R2E220-AB06-55

AC centrifugal fan

backward-curved

Curves: Air performance 50 Hz



$\rho = 1.185 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-106769-1

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

|   | Wired | 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 | 1~    | 230 | 50 | 2700              | 85             | 0.38 | 920            | 0               | 540            | 0.00            |
| 2 | 1~    | 230 | 50 | 2540              | 97             | 0.43 | 720            | 125             | 425            | 0.50            |
| 3 | 1~    | 230 | 50 | 2475              | 104            | 0.46 | 525            | 225             | 310            | 0.90            |
| 4 | 1~    | 230 | 50 | 2500              | 101            | 0.45 | 330            | 300             | 195            | 1.20            |

Wired = Wiring · 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

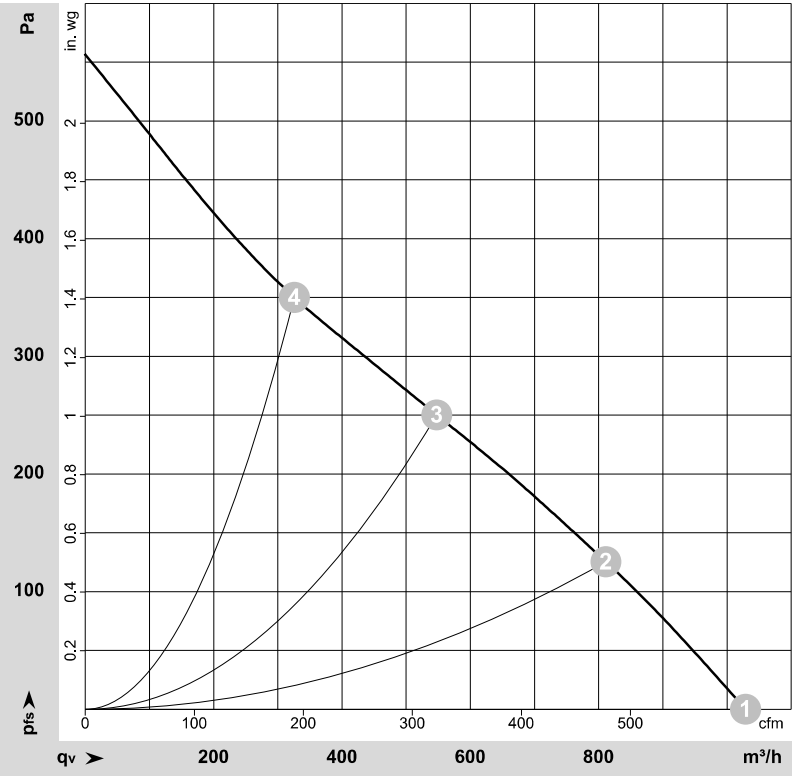


R2E220-AB06-55

AC centrifugal fan

backward-curved

Curves: Air performance 60 Hz



$\rho = 1.185 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-106770-1

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

|   | Wired | 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 | 1~    | 230 | 60 | 3050              | 115            | 0.51 | 1030           | 0               | 605            | 0.00            |
| 2 | 1~    | 230 | 60 | 2765              | 128            | 0.56 | 810            | 125             | 475            | 0.50            |
| 3 | 1~    | 230 | 60 | 2595              | 138            | 0.60 | 550            | 250             | 325            | 1.00            |
| 4 | 1~    | 230 | 60 | 2690              | 133            | 0.58 | 325            | 350             | 190            | 1.41            |

Wired = Wiring · 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

