

KARTA KATALOGOWA

# D2E146-AP47-97

Wentylator promieniowy AC, łopatki zakrzywione do przodu, dwustronnie ssący, z obudową (z kołnierzem)

Producent: ebm-papst

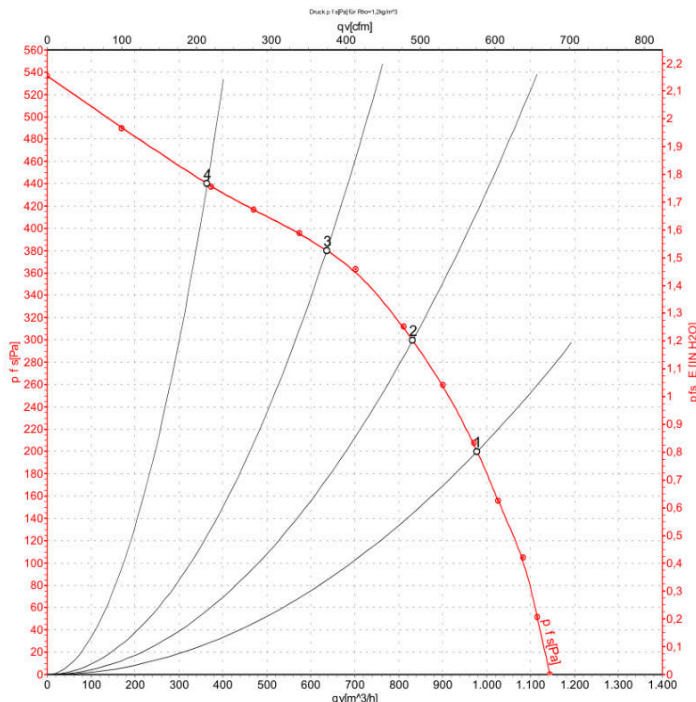


Zdjęcie poglądowe

| Dane znamionowe           |                               | Budowa                 |                                      |
|---------------------------|-------------------------------|------------------------|--------------------------------------|
| Napięcie znamionowe       | 1~ 230 V                      | Wielkość               | 146 mm                               |
| Częstotliwość             | 50 / 60 Hz                    | Silnik                 | M2E068-EC                            |
| Prędkość obrotowa         | 2050 / 2550 obr/min           | Materiał wirnika       | blacha stalowa ocynkowana            |
| Pobór mocy                | 300 / 345 W                   | Obudowa                | blacha stalowa ocynkowana            |
| Pobór prądu               | 1,31 / 1,45 A                 | Kierunek obrotów       | w lewo, patrząc na wirnik            |
| Prąd rozruchowy           | 1,53 A                        | Stopień ochrony        | IP44                                 |
| Kondensator               | 8 µF / 400 V                  | Klasa izolacji         | F                                    |
| Maks. wydajność           | 970 m³/h                      | Zabezpieczenie silnika | termik (TOP), podłączony wewnętrznie |
| Maks. ciśnienie statyczne | 525 Pa                        | Masa                   | 4,6 kg                               |
| Temperatura otoczenia     | min. -25 °C; maks. 50 / 45 °C |                        |                                      |

## Charakterystyka przepływowa (50 Hz)

### Curves: Air performance 50 Hz Y



Measurement: LU-32744-1

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 maksymalnym obciążeniu; producent zastrzega możliwość zmian.

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D2E146-AP47-97

AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

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Nominal data

|                             |                   |         |         |
|-----------------------------|-------------------|---------|---------|
| Type                        | D2E146-AP47-97    |         |         |
| Motor                       | M2E068-EC         |         |         |
| Phase                       |                   | 1~      | 1~      |
| Nominal voltage             | VAC               | 230     | 230     |
| Frequency                   | Hz                | 50      | 60      |
| Method of obtaining data    |                   | ml      | ml      |
| Valid for approval/standard |                   | -       | UL 2111 |
| Speed (rpm)                 | min <sup>-1</sup> | 2050    | 2550    |
| Power consumption           | W                 | 300     | 345     |
| Current draw                | A                 | 1.31    | 1.45    |
| Capacitor                   | µF                | 8       | 8       |
| Capacitor voltage           | VDB               | 400     | 400     |
| Capacitor standard          |                   | S2 (CE) | UL      |
| Min. back pressure          | Pa                | 200     | 400     |
| Min. back pressure          | in. wg            | 0.8     | 1.61    |
| Min. ambient temperature    | °C                | -25     | -25     |
| Max. ambient temperature    | °C                | 50      | 45      |
| Starting current            | A                 | 1.53    |         |

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



**D2E146-AP47-97**

## AC centrifugal fan

forward-curved, dual-intake  
with housing (flange)

### Technical description

|                                                                            |                                                       |
|----------------------------------------------------------------------------|-------------------------------------------------------|
| Weight                                                                     | 4.6 kg                                                |
| Size                                                                       | 146 mm                                                |
| Motor size                                                                 | 68                                                    |
| Rotor surface                                                              | Unpainted                                             |
| Impeller material                                                          | Sheet steel, galvanized                               |
| Housing material                                                           | Sheet steel, galvanized                               |
| Motor suspension                                                           | Motor mounted with brackets on one side               |
| Direction of rotation                                                      | Counterclockwise, viewed toward rotor                 |
| Degree of protection                                                       | IP44; installation- and position-dependent            |
| Insulation class                                                           | "F"                                                   |
| Moisture (F) / Environmental (H) protection class                          | H0 - dry environment                                  |
| Max. permitted ambient temp. for motor (transport/storage)                 | + 80 °C                                               |
| Min. permitted ambient temp. for motor (transport/storage)                 | - 40 °C                                               |
| Installation position                                                      | Any                                                   |
| Condensation drainage holes                                                | None                                                  |
| Mode                                                                       | S1                                                    |
| Motor mounting                                                             | Ball bearing                                          |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | < 0.75 mA                                             |
| Motor protection                                                           | Thermal overload protector (TOP) internally connected |
| Protection class                                                           | I (with customer connection of protective earth)      |
| Motor capacitor according to EN 60252-1 in safety protection class         | S2                                                    |
| Conformity with standards                                                  | EN 60335-1                                            |
| Approval                                                                   | UL 1004-3; CSA C22.2 No. 77; CCC                      |

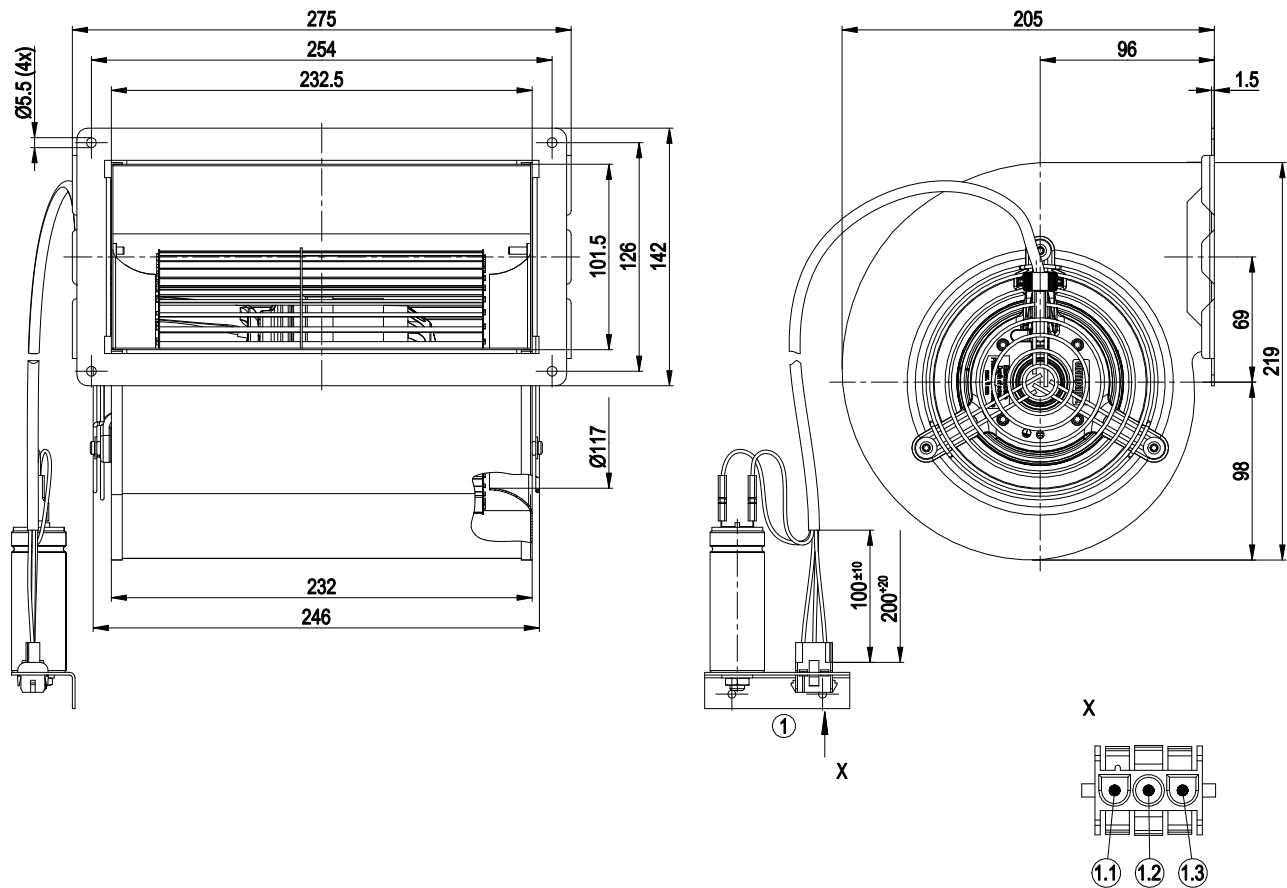
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AC centrifugal fan

forward-curved, dual-intake

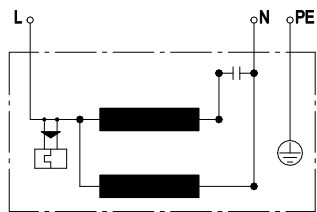
with housing (flange)

Product drawing



|     |                                                                                   |
|-----|-----------------------------------------------------------------------------------|
| 1   | Cable PFA AWG20, 3-pole connector housing tyco 2178474-2, 3x socket tyco 926884-1 |
| 1.1 | black                                                                             |
| 1.2 | green/yellow                                                                      |
| 1.3 | blue                                                                              |

Connection diagram



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



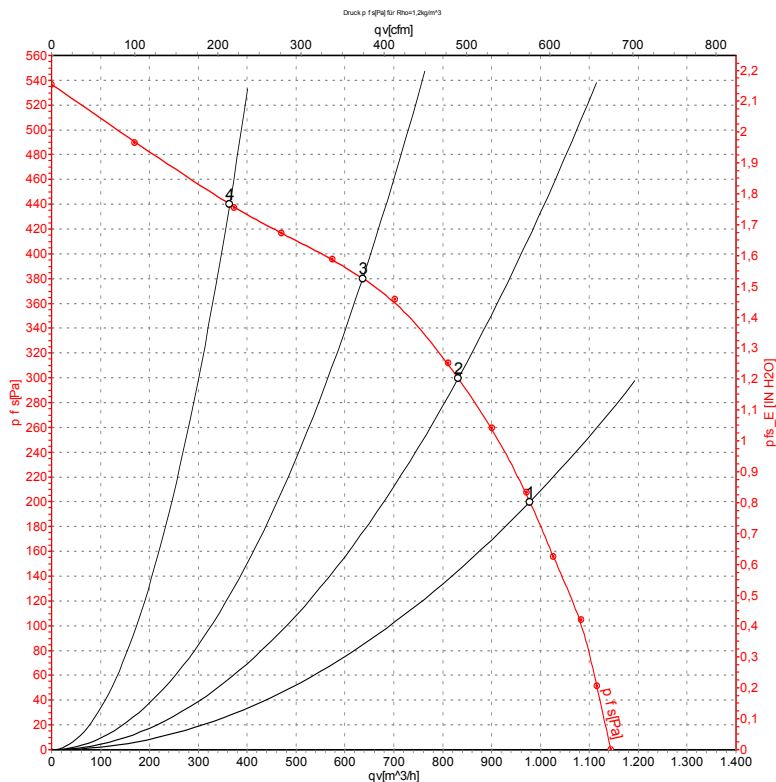
D2E146-AP47-97

# AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

## Curves: Air performance 50 Hz Y



Measurement: LU-32744-1

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

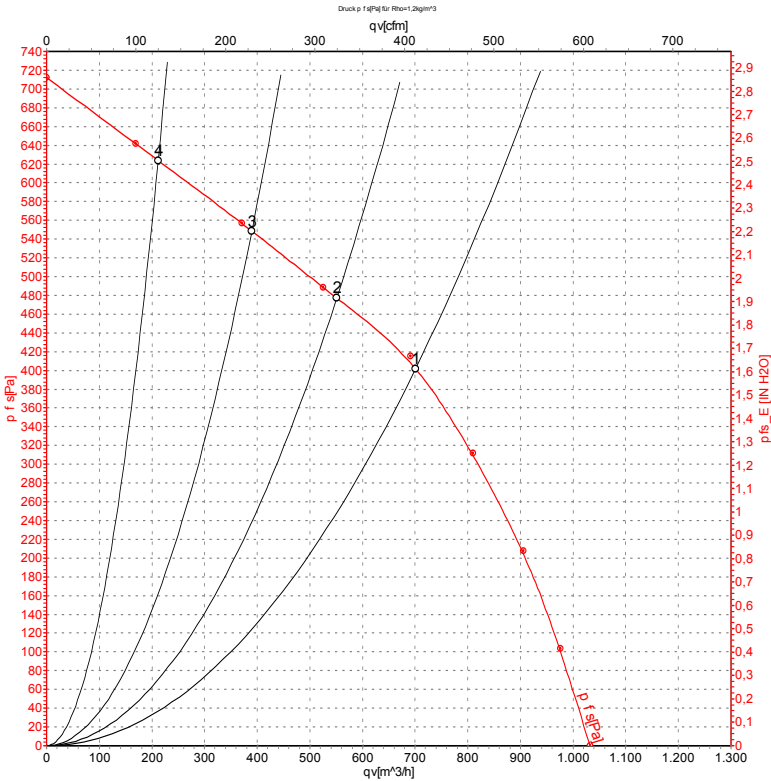
|   | Wired | U   | f  | n                 | P <sub>e</sub> | I    | q <sub>v</sub> | p <sub>fs</sub> | q <sub>v</sub> | p <sub>fs</sub> |
|---|-------|-----|----|-------------------|----------------|------|----------------|-----------------|----------------|-----------------|
|   |       | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h           | Pa              | cfm            | in. wg          |
| 1 | Y     | 230 | 50 | 2050              | 300            | 1.31 | 970            | 200             | 570            | 0.80            |
| 2 | Y     | 230 | 50 | 2265              | 267            | 1.18 | 830            | 300             | 490            | 1.20            |
| 3 | Y     | 230 | 50 | 2490              | 232            | 1.02 | 635            | 380             | 375            | 1.53            |
| 4 | Y     | 230 | 50 | 2675              | 191            | 0.84 | 365            | 440             | 215            | 1.77            |

Wired = Wiring · 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

D2E146-AP47-97

AC centrifugal fan  
forward-curved, dual-intake  
with housing (flange)

Curves: Air performance 60 Hz Y



Measurement: LU-32745-1

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 | Y     | 230 | 60 | 2550              | 330            | 1.45 | 700            | 400             | 410            | 1.61            |
| 2 | Y     | 230 | 60 | 2770              | 300            | 1.36 | 550            | 475             | 325            | 1.91            |
| 3 | Y     | 230 | 60 | 2975              | 277            | 1.28 | 390            | 550             | 230            | 2.21            |
| 4 | Y     | 230 | 60 | 3095              | 260            | 1.22 | 210            | 625             | 125            | 2.51            |

Wired = Wiring · 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

