**D2E146-AZ03-E8**

# AC centrifugal fan

forward curved, dual inlet

with housing (without flange)

D2E146-AZ03-E8 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

## Nominal data

| | |
|---|---|
| **Type** | **D2E146-AZ03-E8** |
| **Motor** | **M2E074-EI** |

| | | |
|---|---|---|
| Phase | | 1~ |
| Nominal voltage | VAC | 230 |
| Frequency | Hz | 60 |
| Type of data definition | | ml |
| Valid for approval / standard | | CE |
| Speed (rpm) | $min^{-1}$ | 2350 |
| Power input | W | 440 |
| Current draw | A | 1.95 |
| Motor capacitor | µF | 10 |
| Capacitor voltage | VDB | 400 |
| Capacitor standard | | S2 (CE) |
| Min. back pressure | Pa | 250 |
| Min. ambient temperature | °C | -25 |
| Max. ambient temperature | °C | 55 |

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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## Technical features

| | |
|---|---|
| **Mass** | 4.6 kg |
| **Size** | 146 mm |
| **Surface of rotor** | Uncoated |
| **Material of impeller** | Sheet steel, galvanised |
| **Housing material** | Sheet steel, galvanised |
| **Material of guard grille** | Steel, galvanised and plastic-coated in white aluminium (RAL 9006) |
| **Motor suspension** | Motor anti-vibration mounted on one side |
| **Direction of rotation** | Counter-clockwise, seen on rotor |
| **Type of protection** | IP 44 |
| **Insulation class** | "F" |
| **Humidity (F)/environmental protection class (H)** | H0 - dry environment |
| **Max. permissible ambient motor temp. (transp./ storage)** | + 80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | - 40 °C |
| **Mounting position** | Any |
| **Condensate discharge holes** | None |
| **Operation mode** | S1 |
| **Motor bearing** | Ball bearing |
| **Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)** | < 0.75 mA |
| **Motor protection** | Thermal overload protector (TOP) wired internally |
| **Protection class** | I (if protective earth is connected by customer) |
| **Motor capacitor according to EN 60252-1 in safety protection class** | S2 |
| **Product conforming to standard** | EN 60335-1; CE |

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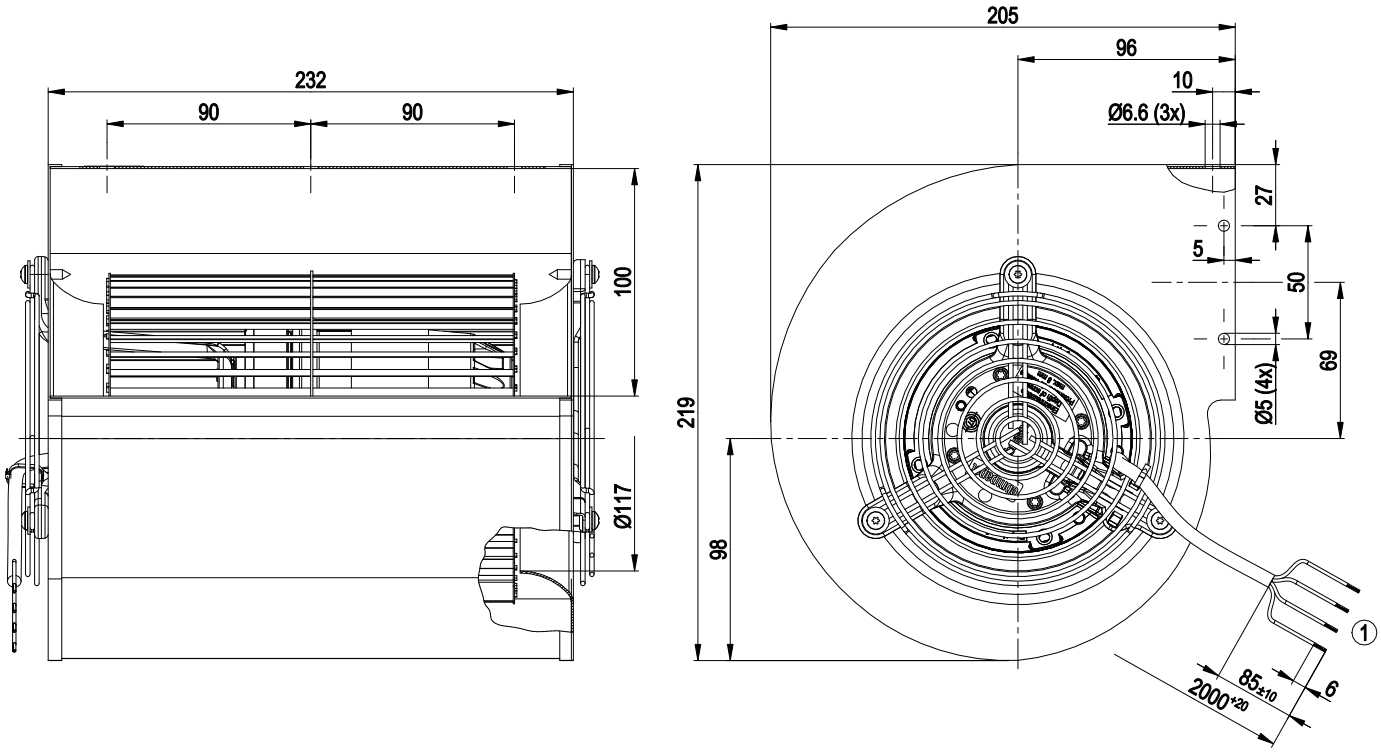
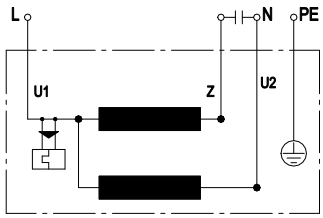
## Product drawing




| | |
|---|---|
| 1 | Connection line PVC 4G 0.5 mm², 4x lead tips crimped |

## Connection screen




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

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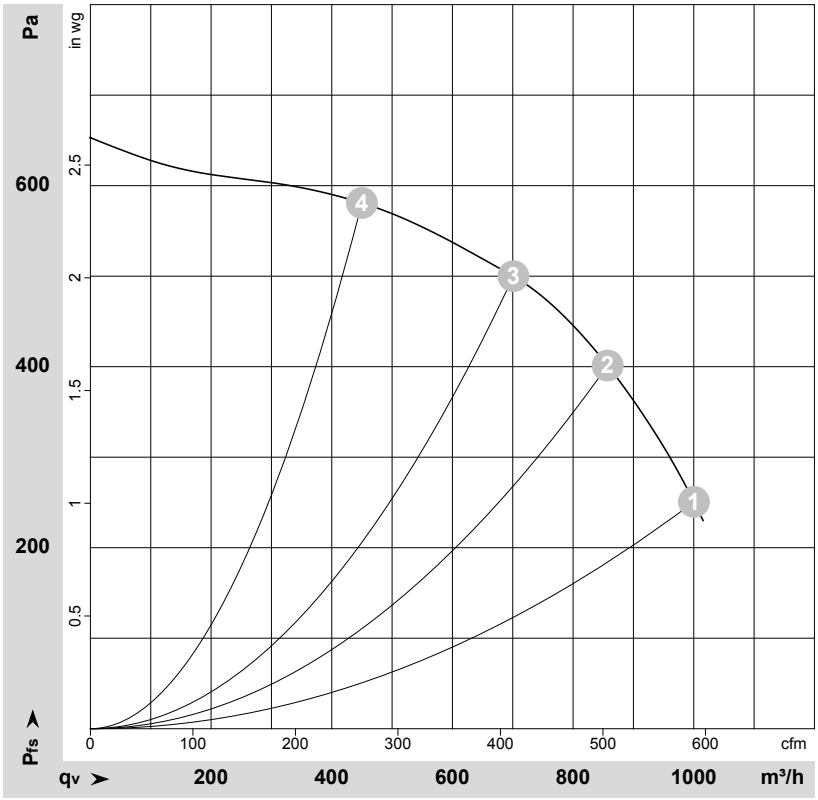
## Charts: Air flow 60 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-166856-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

| | U | f | n | $P_e$ | I | $LpA_{in}$ | $LwA_{in}$ | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 230 | 60 | 2350 | 440 | 1.95 | 65 | 76 | 1000 | 250 | 590 | 1.00 |
| 2 | 230 | 60 | 2685 | 423 | 1.88 | 66 | 76 | 855 | 400 | 505 | 1.61 |
| 3 | 230 | 60 | 2905 | 398 | 1.81 | 67 | 77 | 700 | 500 | 415 | 2.01 |
| 4 | 230 | 60 | 3120 | 364 | 1.72 | 69 | 79 | 450 | 580 | 265 | 2.33 |

U = Supply voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power input · I = Current draw · $LpA_{in}$ = Sound pressure level inlet side · $LwA_{in}$ = Sound power level inlet side · $q_V$ = Air flow
$p_{fs}$ = Pressure increase