

D2E146-AZ03-E7

# AC centrifugal fan

forward-curved, dual-intake

with housing (without flange)

## 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

|                             |                   |         |
|-----------------------------|-------------------|---------|
| Type                        | D2E146-AZ03-E7    |         |
| Motor                       | M2E074-EI         |         |
| Phase                       |                   | 1~      |
| Nominal voltage             | VAC               | 230     |
| Frequency                   | Hz                | 50      |
| Method of obtaining data    |                   | ml      |
| Valid for approval/standard |                   | -       |
| Speed (rpm)                 | min <sup>-1</sup> | 2300    |
| Power consumption           | W                 | 330     |
| Current draw                | A                 | 1.44    |
| Capacitor                   | µF                | 7       |
| Capacitor voltage           | VDB               | 400     |
| Capacitor standard          |                   | S2 (CE) |
| Min. back pressure          | Pa                | 235     |
| Min. back pressure          | in. wg            | 0.94    |
| Min. ambient temperature    | °C                | -25     |
| Max. ambient temperature    | °C                | 65      |

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



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## Technical description

|                                                                            |                                                                     |
|----------------------------------------------------------------------------|---------------------------------------------------------------------|
| Weight                                                                     | 5.5 kg                                                              |
| Size                                                                       | 146 mm                                                              |
| Motor size                                                                 | 74                                                                  |
| Rotor surface                                                              | Unpainted                                                           |
| Impeller material                                                          | Sheet steel, galvanized                                             |
| Housing material                                                           | Sheet steel, galvanized                                             |
| Guard grille material                                                      | Steel, galvanized and coated with white-aluminum plastic (RAL 9006) |
| Motor suspension                                                           | Motor vibration-damped on one side                                  |
| Direction of rotation                                                      | Counterclockwise, viewed toward rotor                               |
| Degree of protection                                                       | IP44                                                                |
| 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 bearing                                                              | 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                                                          |
| Comment on CE                                                              | Commissioning not permitted in the European Economic Area           |

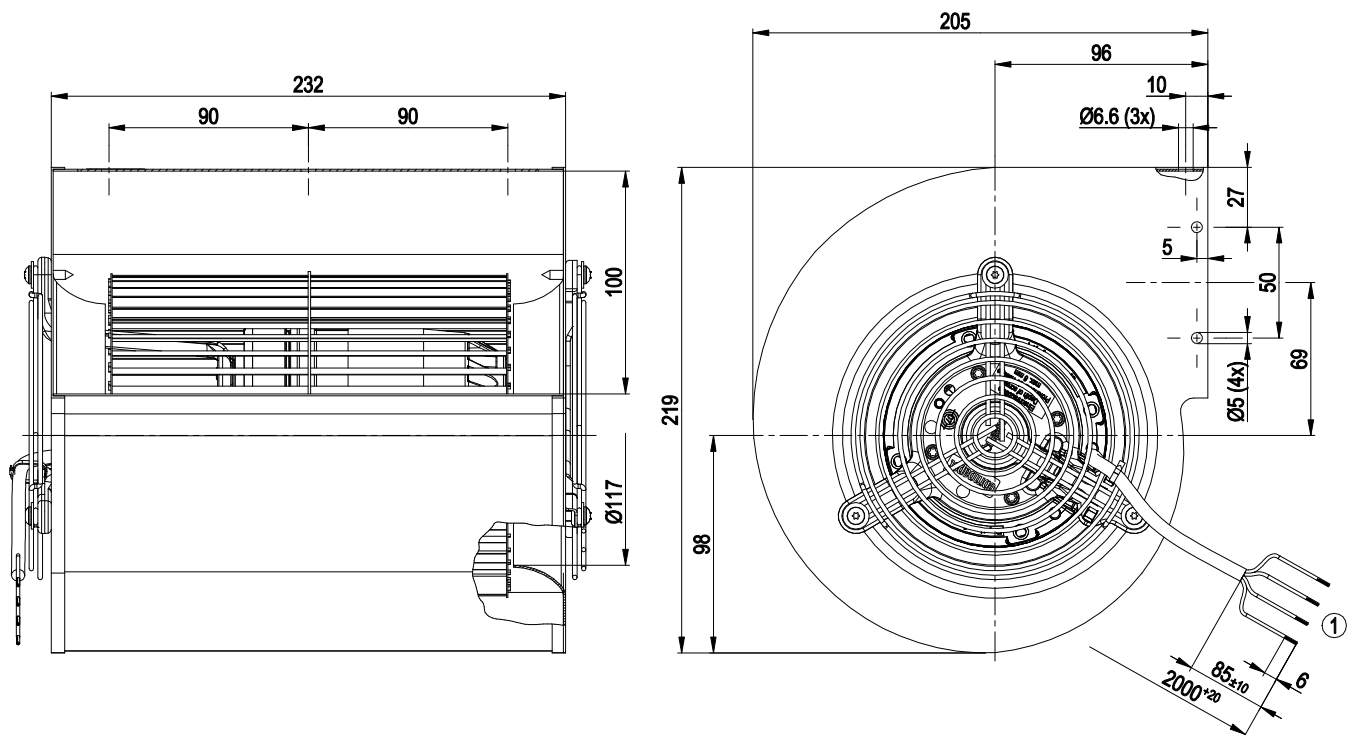


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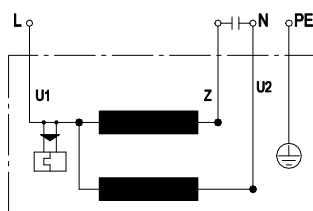
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## Product drawing



1 Cable PVC 4G 0.5 mm<sup>2</sup>, 4x crimped splices

## Connection diagram



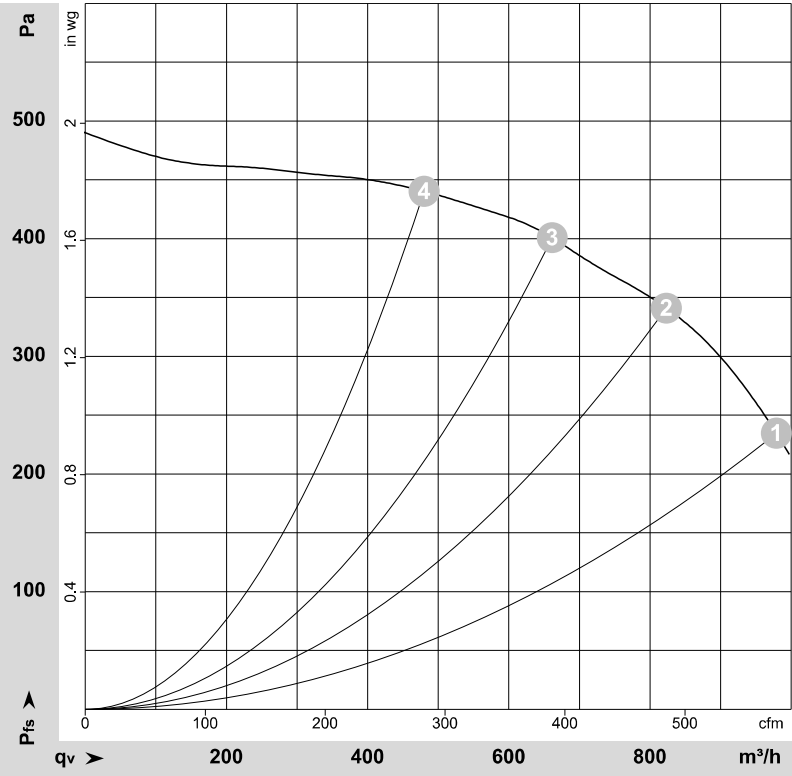
|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |



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## Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-166694-1

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> | q <sub>v</sub>    | p <sub>fs</sub> | q <sub>v</sub> | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-------------------|-------------------|-----------------|----------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | dB(A)             | dB(A)             | m <sup>3</sup> /h | Pa              | cfm            | in. wg          |
| 1 | 230 | 50 | 2300              | 330            | 1.44 | 64                | 75                | 980               | 235             | 575            | 0.94            |
| 2 | 230 | 50 | 2500              | 272            | 1.19 | 64                | 75                | 825               | 340             | 485            | 1.36            |
| 3 | 230 | 50 | 2625              | 234            | 1.03 | 64                | 75                | 660               | 400             | 390            | 1.61            |
| 4 | 230 | 50 | 2720              | 198            | 0.88 | 65                | 75                | 480               | 440             | 285            | 1.77            |

U = Voltage · 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  
q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

