**D4E160-FT08-13**

# AC centrifugal fan

forward curved, dual inlet

with housing (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
County court Stuttgart · HRA 590344

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

## Nominal data

| | |
|---|---|
| **Type** | **D4E160-FT08-13** |
| **Motor** | **M4E068-GA** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Type of data definition | | fa | fa |
| Valid for approval / standard | | CE | CE |
| Speed | $min^{-1}$ | 1350 | 1450 |
| Power input | W | 190 | 255 |
| Current draw | A | 0.88 | 1.12 |
| Motor capacitor | µF | 6 | 6 |
| Capacitor voltage | VDB | 400 | 400 |
| Capacitor standard | | P2 (CE) | P2 (CE) |
| Min. back pressure | Pa | 0 | 0 |
| Min. ambient temperature | °C | -25 | -25 |
| Max. ambient temperature | °C | 80 | 80 |

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

# AC centrifugal fan

forward curved, dual inlet

with housing (flange)

## Technical features

| | |
|---|---|
| **Mass** | 7.2 kg |
| **Size** | 160 mm |
| **Surface of rotor** | Coated in black |
| **Material of impeller** | Sheet steel, hot-dip galvanised |
| **Housing material** | Sheet steel, hot-dip galvanised |
| **Direction of rotation** | Counter-clockwise, seen on rotor |
| **Type of protection** | IP 44 |
| **Insulation class** | "F" |
| **Humidity class** | F1-2 |
| **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) brought out |
| **Cable exit** | Axial |
| **Protection class** | I (if protective earth is connected by customer) |
| **Product conforming to standard** | EN 60335-1; CE |



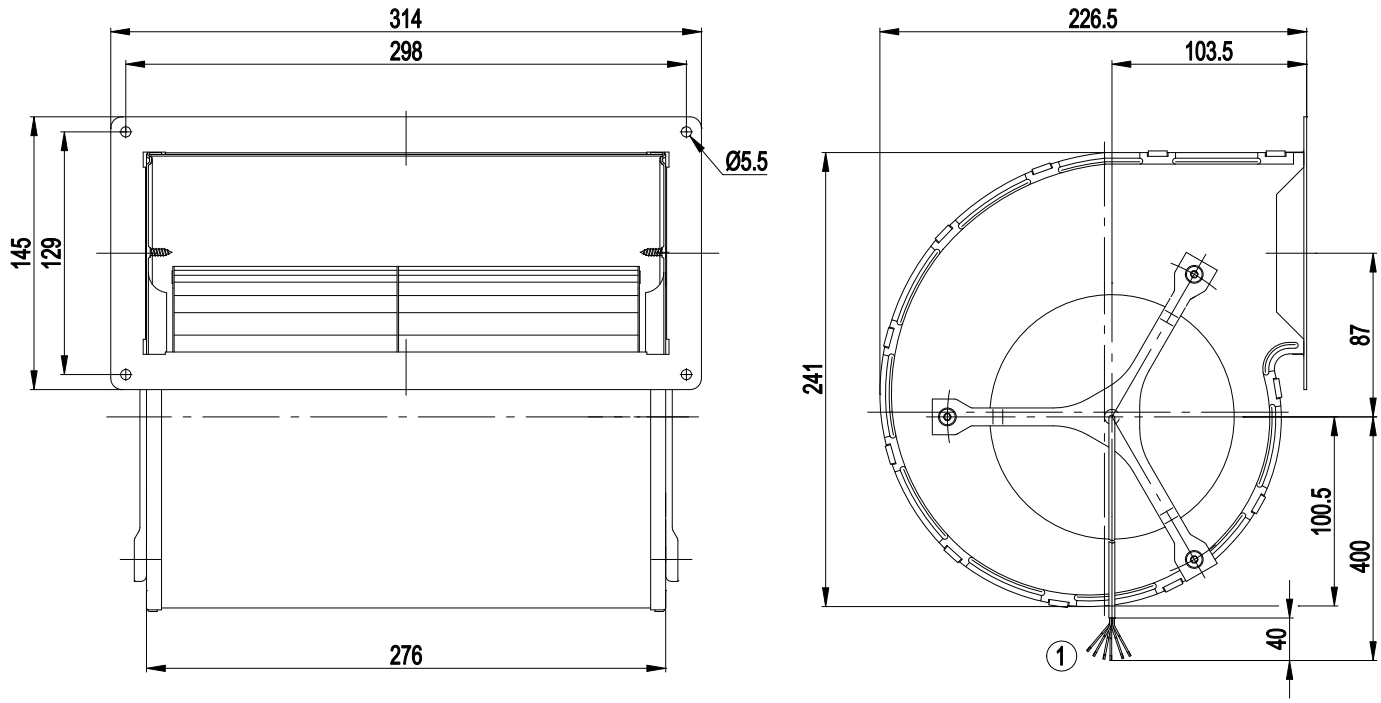
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC centrifugal fan

forward curved, dual inlet

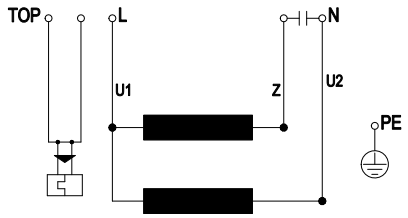
with housing (flange)

## Product drawing




| | |
|---|---|
| 1 | Connection line PFA, 6x brass lead tips crimped |

## Connection screen




| | | | | | |
|---|---|---|---|---|---|
| TOP | 2 x grey | U1 | blue | Z | brown |
| U2 | black | PE | green / yellow | | |



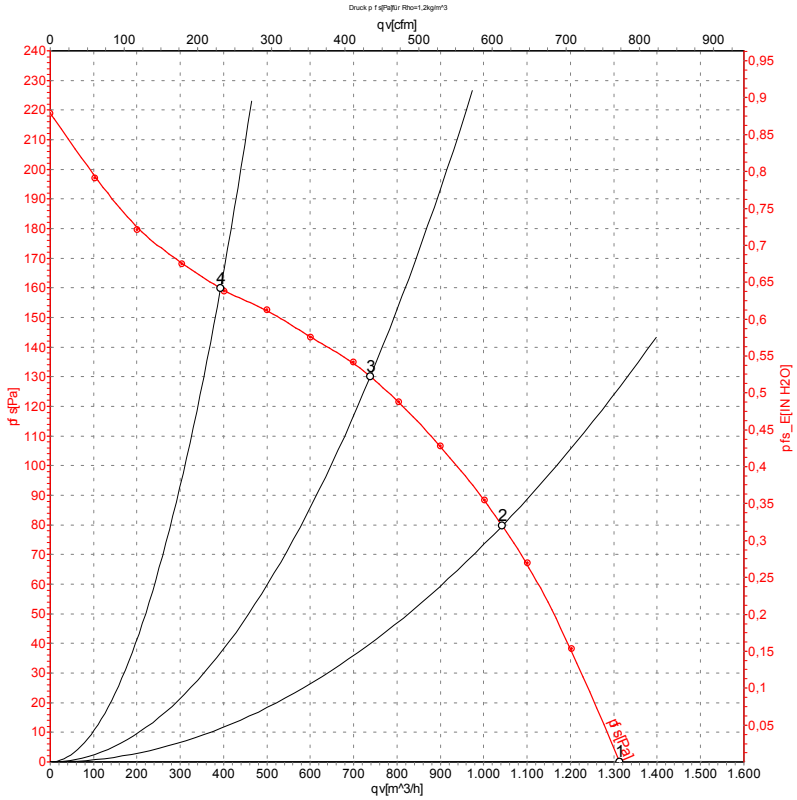
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC centrifugal fan

forward curved, dual inlet

with housing (flange)

## Charts: Air flow 50 Hz




Measurement: LU-61794

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 | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa |
| 1 | 230 | 50 | 1350 | 190 | 0.88 | 1315 | 0 |
| 2 | 230 | 50 | 1385 | 154 | 0.74 | 1045 | 80 |
| 3 | 230 | 50 | 1425 | 125 | 0.65 | 740 | 130 |
| 4 | 230 | 50 | 1450 | 104 | 0.60 | 395 | 160 |

U = Supply voltage · f = Frequency · n = Speed · $P_e$ = Power input · I = Current draw · qv = Air flow · $p_{fs}$ = Pressure increase



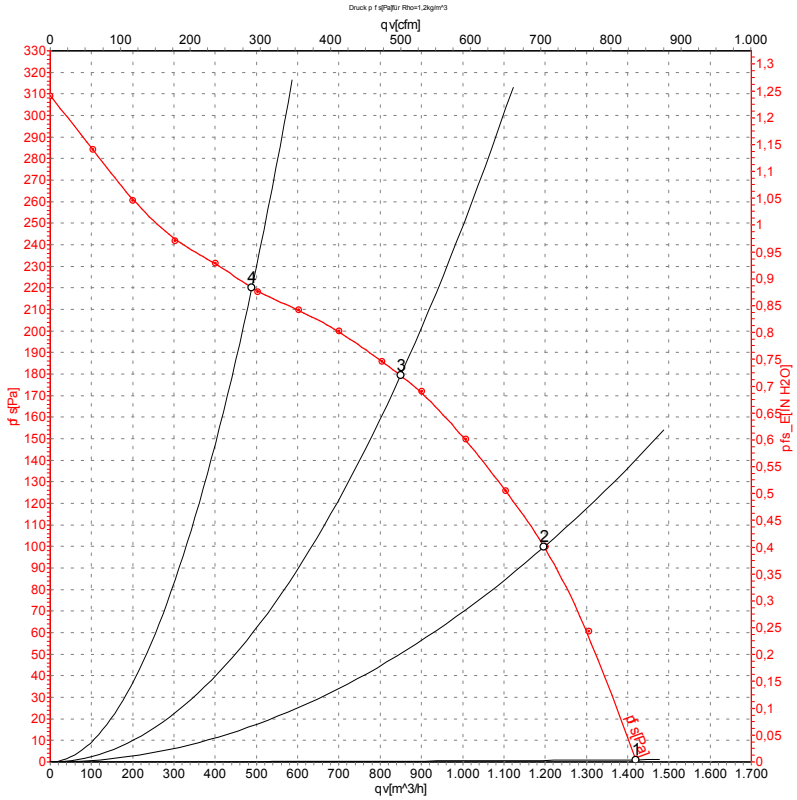
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC centrifugal fan

forward curved, dual inlet

with housing (flange)

## Charts: Air flow 60 Hz




Measurement: LU-61795

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 | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa |
| 1 | 230 | 60 | 1450 | 255 | 1.12 | 1420 | 0 |
| 2 | 230 | 60 | 1570 | 206 | 0.90 | 1195 | 100 |
| 3 | 230 | 60 | 1665 | 157 | 0.70 | 850 | 180 |
| 4 | 230 | 60 | 1715 | 125 | 0.57 | 490 | 220 |

U = Supply voltage · f = Frequency · n = Speed · $P_e$ = Power input · I = Current draw · qv = Air flow · $p_{fs}$ = Pressure increase



ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com