**D4E225-EH01-01**

# AC centrifugal fan

forward curved, dual inlet

with housing (flange)



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County court Stuttgart · HRA 590344

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## Nominal data

| | |
|---|---|
| **Type** | **D4E225-EH01-01** |
| **Motor** | **M4E094-LA** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Type of data definition | | ml | ml |
| Valid for approval / standard | | - | - |
| Speed (rpm) | $min^{-1}$ | 1230 | 1410 |
| Power input | W | 1060 | 1085 |
| Current draw | A | 5.38 | 5.24 |
| Motor capacitor | µF | 10 | 10 |
| Capacitor voltage | VDB | 450 | 500 |
| Min. back pressure | Pa | 0 | 200 |
| Min. ambient temperature | °C | -40 | -40 |
| Max. ambient temperature | °C | 55 | 45 |
| Starting current | A | 6.0 | 5.2 |

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** | 15.9 kg |
| **Size** | 225 mm |
| **Material of impeller** | Sheet steel, galvanised |
| **Housing material** | Sheet steel, galvanised |
| **Motor suspension** | Motor mounted vibration-free on both sides |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Type of protection** | IP 20 |
| **Insulation class** | "F" |
| **Humidity (F)/environmental protection class (H)** | F0 |
| **Max. permissible ambient motor temp. (transp./ storage)** | + 80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | - 40 °C |
| **Mounting position** | Any |
| **Operation mode** | S1 |
| **Motor bearing** | Ball bearing |
| **Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)** | <= 3.5 mA |
| **Motor protection** | Thermal overload protector (TOP) brought out, basic insulation |
| **Cable exit** | Axial |
| **Protection class** | I (if protective earth is connected by customer) |
| **Motor capacitor according to EN 60252-1 in safety protection class** | S0 |
| **Product conforming to standard** | EN 60034-1 (2010) |
| **Approval** | EAC |



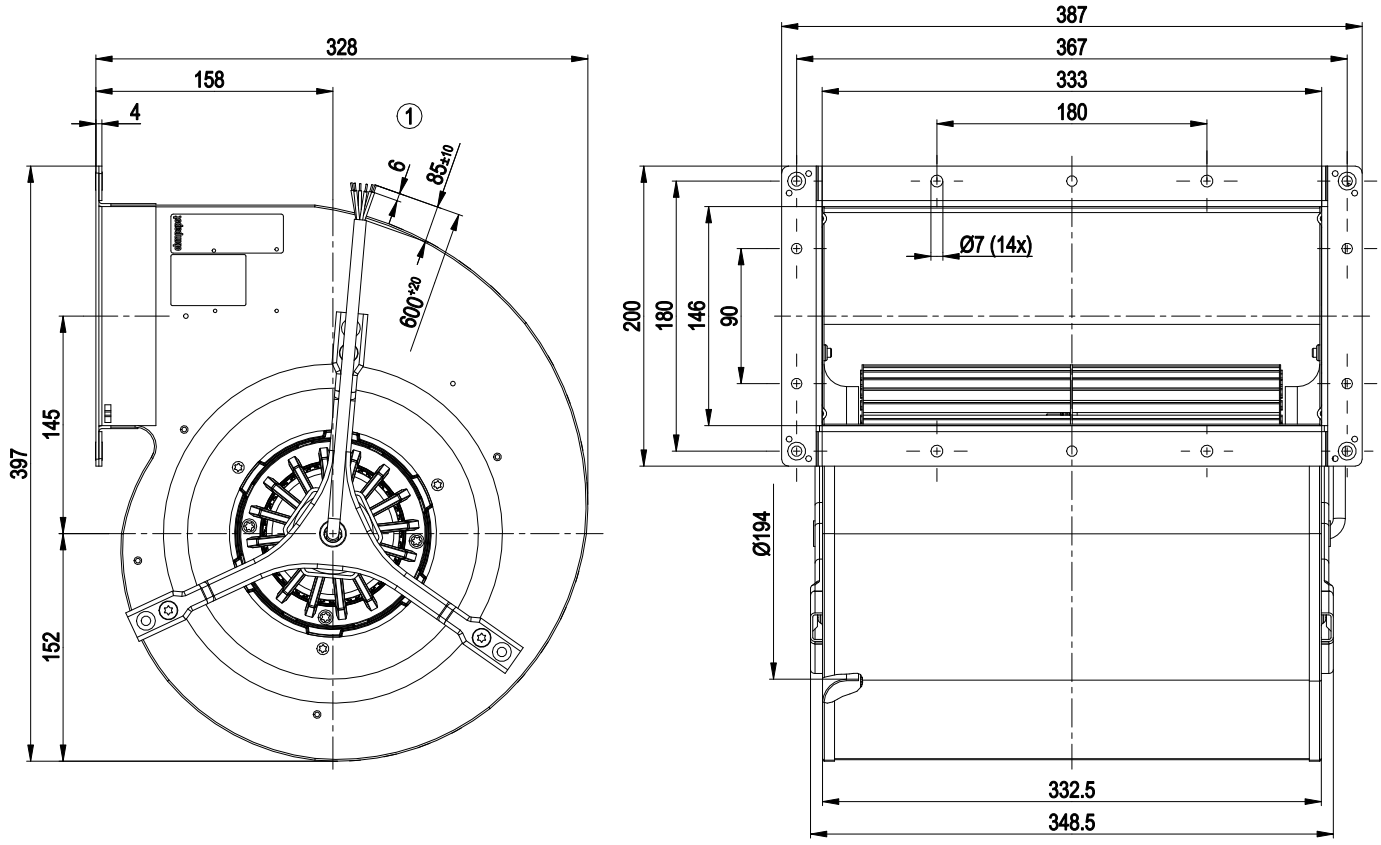
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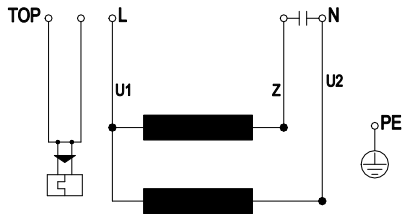
with housing (flange)

## Product drawing




| | |
|---|---|
| 1 | Connection line ETFE AWG18, 6 x brass lead tips crimped |

## Connection screen




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



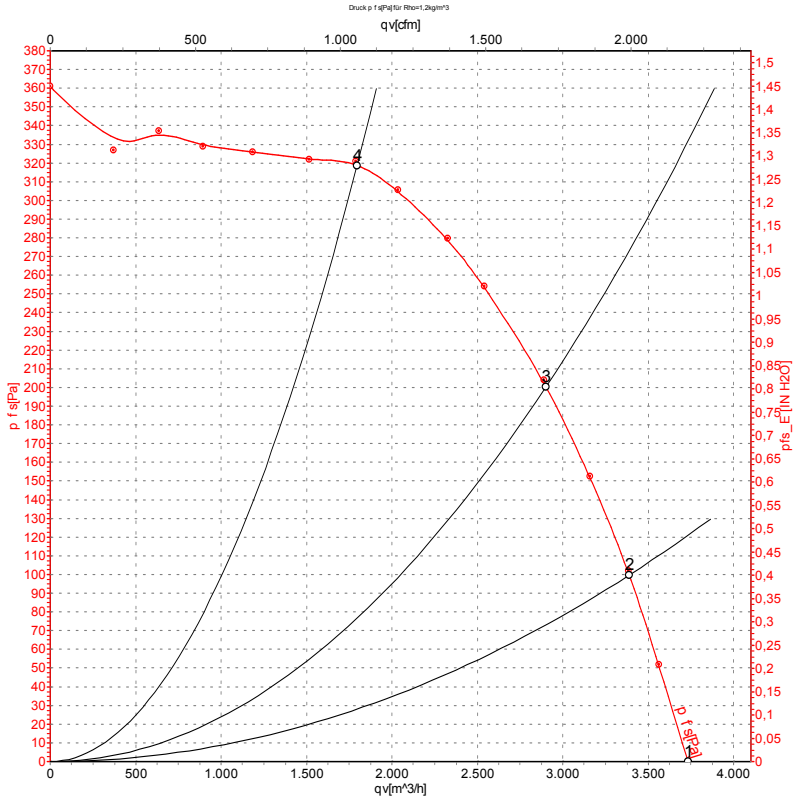
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## Charts: Air flow 50 Hz




Measurement: LU-41781-1

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 | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 230 | 50 | 1230 | 1060 | 5.38 | 3730 | 0 | 2195 | 0.00 |
| 2 | 230 | 50 | 1305 | 883 | 4.53 | 3385 | 100 | 1995 | 0.40 |
| 3 | 230 | 50 | 1360 | 728 | 3.84 | 2900 | 200 | 1705 | 0.80 |
| 4 | 230 | 50 | 1425 | 487 | 2.95 | 1795 | 320 | 1055 | 1.28 |

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



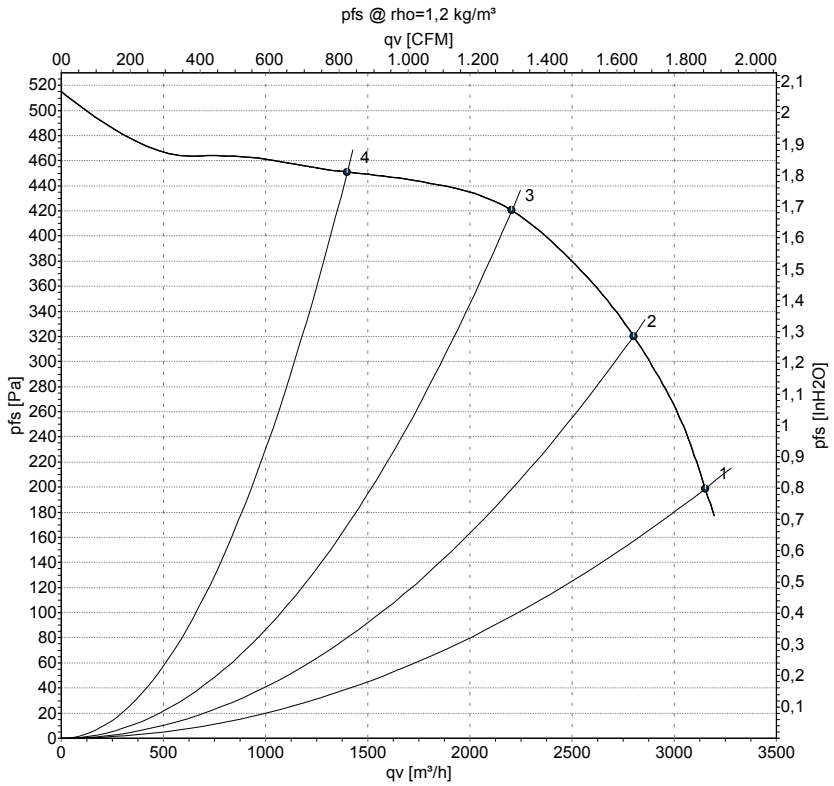
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## Charts: Air flow 60 Hz




Measurement: LU-41782-1

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 | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 230 | 60 | 1410 | 1085 | 5.24 | 3150 | 200 | 1855 | 0.80 |
| 2 | 230 | 60 | 1550 | 911 | 4.24 | 2800 | 320 | 1650 | 1.28 |
| 3 | 230 | 60 | 1640 | 716 | 3.27 | 2205 | 420 | 1300 | 1.69 |
| 4 | 230 | 60 | 1700 | 545 | 2.48 | 1400 | 450 | 825 | 1.81 |

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



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