**D4E225-CC01-21**

# AC centrifugal fan

forward curved, dual inlet

with housing (large flange)

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ErP2013 EXCEEDS THE NORM

## Nominal data

| | |
|---|---|
| **Type** | **D4E225-CC01-21** |
| **Motor** | **M4E074-LA** |

| | | |
|---|---|---|
| Phase | | 1~ |
| Nominal voltage | VAC | 220 |
| Frequency | Hz | 50 |
| Type of data definition | | ml |
| Valid for approval / standard | | CE |
| Speed | $min^{-1}$ | 1100 |
| Power input | W | 620 |
| Current draw | A | 2.85 |
| Motor capacitor | µF | 25 |
| Capacitor voltage | VDB | 400 |
| Capacitor standard | | P2 (CE) |
| Min. back pressure | Pa | 100 |
| Min. ambient temperature | °C | -25 |
| Max. ambient temperature | °C | 50 |

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

## Data according to ErP directive

| | |
|---|---|
| Installation category | B |
| Efficiency category | Total |
| Variable speed drive | No |
| Specific ratio* | 1.00 |

* Specific ratio = 1 + $p_f$ / 100 000 Pa

| | | Actual | Request 2013 | Request 2015 |
|---|---|---|---|---|
| Overall efficiency $\eta_e$ | | 36.5 | 33.9 | 40.9 |
| Efficiency grade N | | 44.6 | 42 | 49 |
| Power input $P_e$ | kW | 0.53 | | |
| Air flow $q_v$ | $m^3/h$ | 1965 | | |
| Pressure increase $p_f$ | Pa | 361 | | |
| Speed n | $min^{-1}$ | 1335 | | |

Data established at point of optimum efficiency



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## Technical features

| | |
|---|---|
| **Mass** | 12 kg |
| **Size** | 225 mm |
| **Material of impeller** | Sheet steel, galvanised |
| **Housing material** | Sheet steel, galvanised |
| **Motor suspension** | Motor mounted anti-vibration on both sides |
| **Direction of rotation** | Counter-clockwise, seen on rotor |
| **Type of protection** | IP 22; Depending on installation and position |
| **Insulation class** | "F" |
| **Humidity class** | F2-1 |
| **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) |
| **Product conforming to standard** | EN 60335-1; CE |



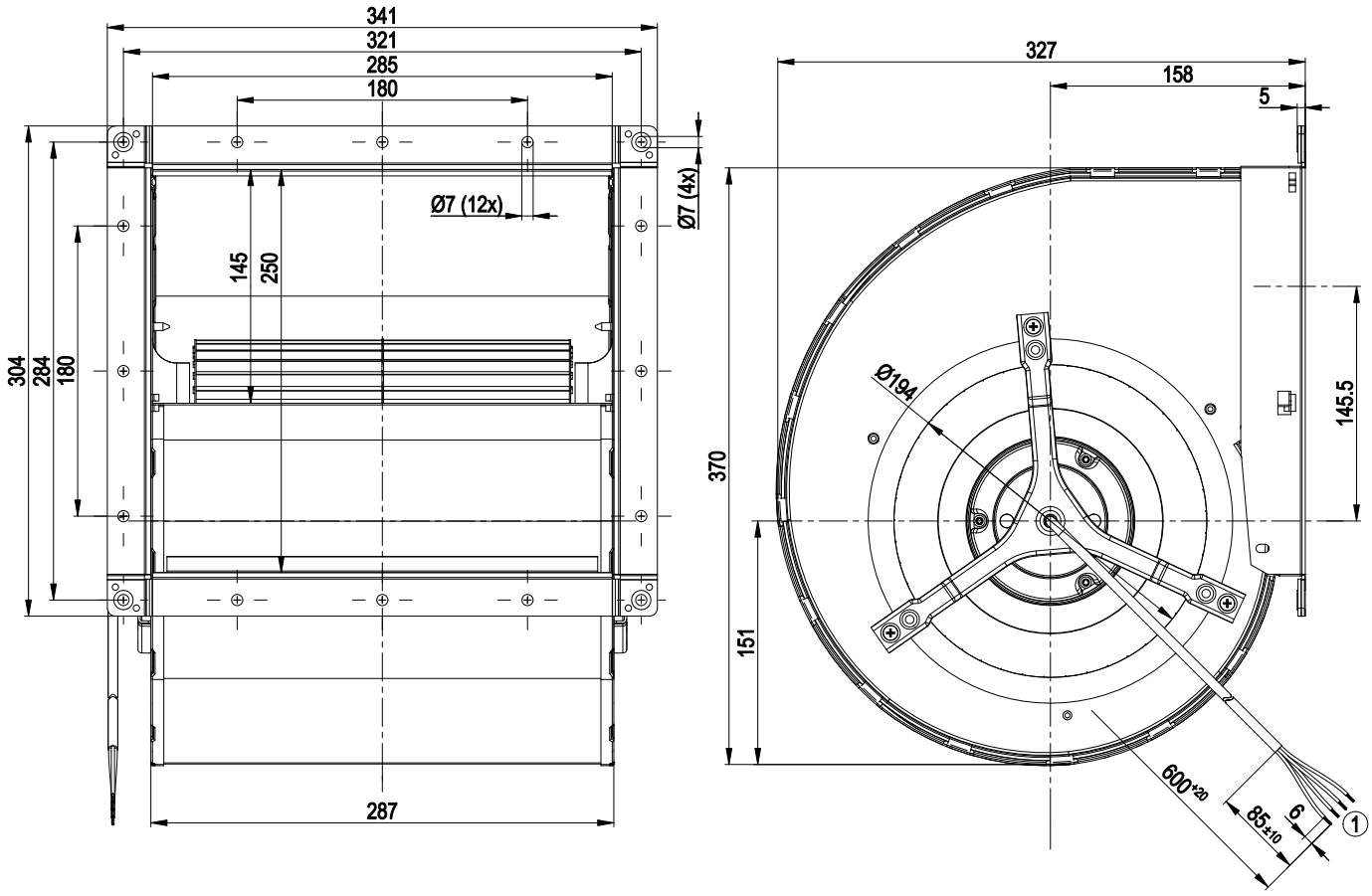
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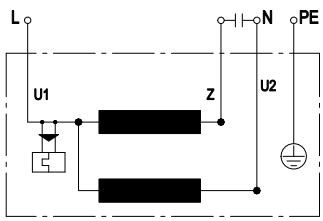
with housing (large flange)

## Product drawing




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

## Connection screen




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



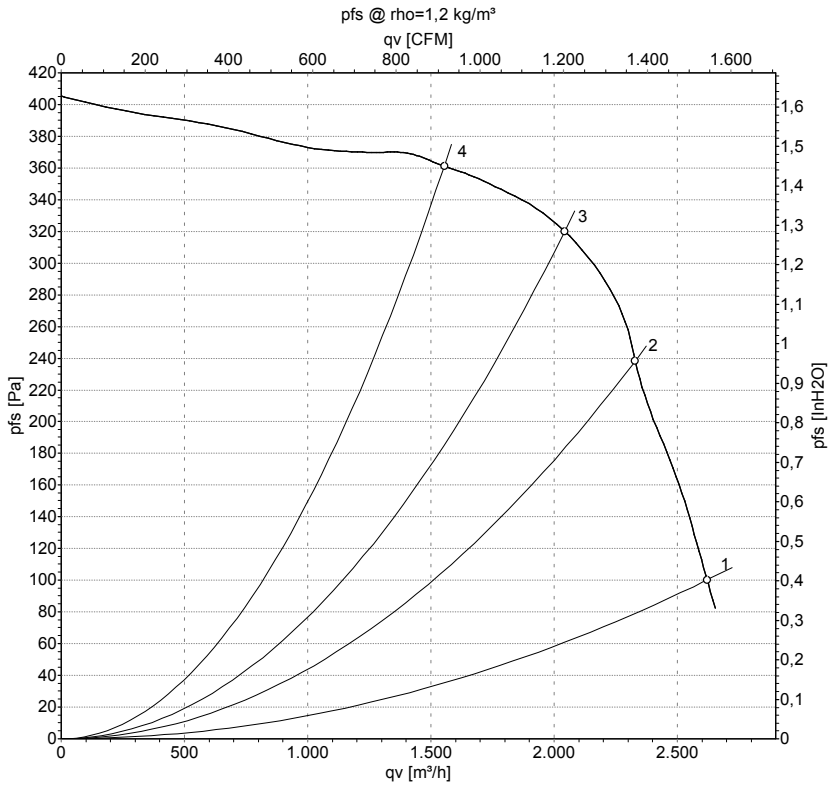
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## Charts: Air flow 50 Hz




Measurement: LU-16418

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 | 220 | 50 | 1150 | 650 | 2.84 | 2620 | 100 |
| 2 | 220 | 50 | 1205 | 593 | 2.73 | 2330 | 240 |
| 3 | 220 | 50 | 1295 | 521 | 2.43 | 2045 | 320 |
| 4 | 220 | 50 | 1360 | 445 | 2.14 | 1555 | 360 |

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



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