**D4E133-DL33-L8**

# AC centrifugal fan

forward curved, dual inlet

with housing (flange)

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## Nominal data

| | |
|---|---|
| **Type** | **D4E133-DL33-L8** |
| **Motor** | **M4E068-CF** |

| | | |
|---|---|---|
| Phase | | 1~ |
| Nominal voltage | VAC | 115 |
| Frequency | Hz | 60 |
| Type of data definition | | fa |
| Valid for approval / standard | | CE |
| Speed (rpm) | $min^{-1}$ | 1350 |
| Power input | W | 95 |
| Current draw | A | 0.83 |
| Motor capacitor | µF | 7 |
| Capacitor voltage | VDB | 250 |
| Capacitor standard | | S2 (CE) |
| Min. back pressure | Pa | 0 |
| Min. ambient temperature | °C | -25 |
| Max. ambient temperature | °C | 55 |
| Starting current | A | 1.04 |

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** | 3.1 kg |
| **Size** | 133 mm |
| **Surface of rotor** | Uncoated |
| **Material of impeller** | PA plastic, galvanised round sheet-metal plate |
| **Housing material** | Sheet steel, galvanised |
| **Material of guard grille** | Steel, coated in white aluminium plastic (RAL 9006) |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Type of protection** | IP 44; Depending on installation and position |
| **Insulation class** | "B" |
| **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 |
| **Electrical leads** | With plug; Via terminal box, integrated capacitor connected via terminal box |
| **Motor protection** | Thermal overload protector (TOP) wired internally |
| **Cable exit** | Variable |
| **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** | CE |
| **Approval** | CSA C22.2 No.100; UL 1004-1 |



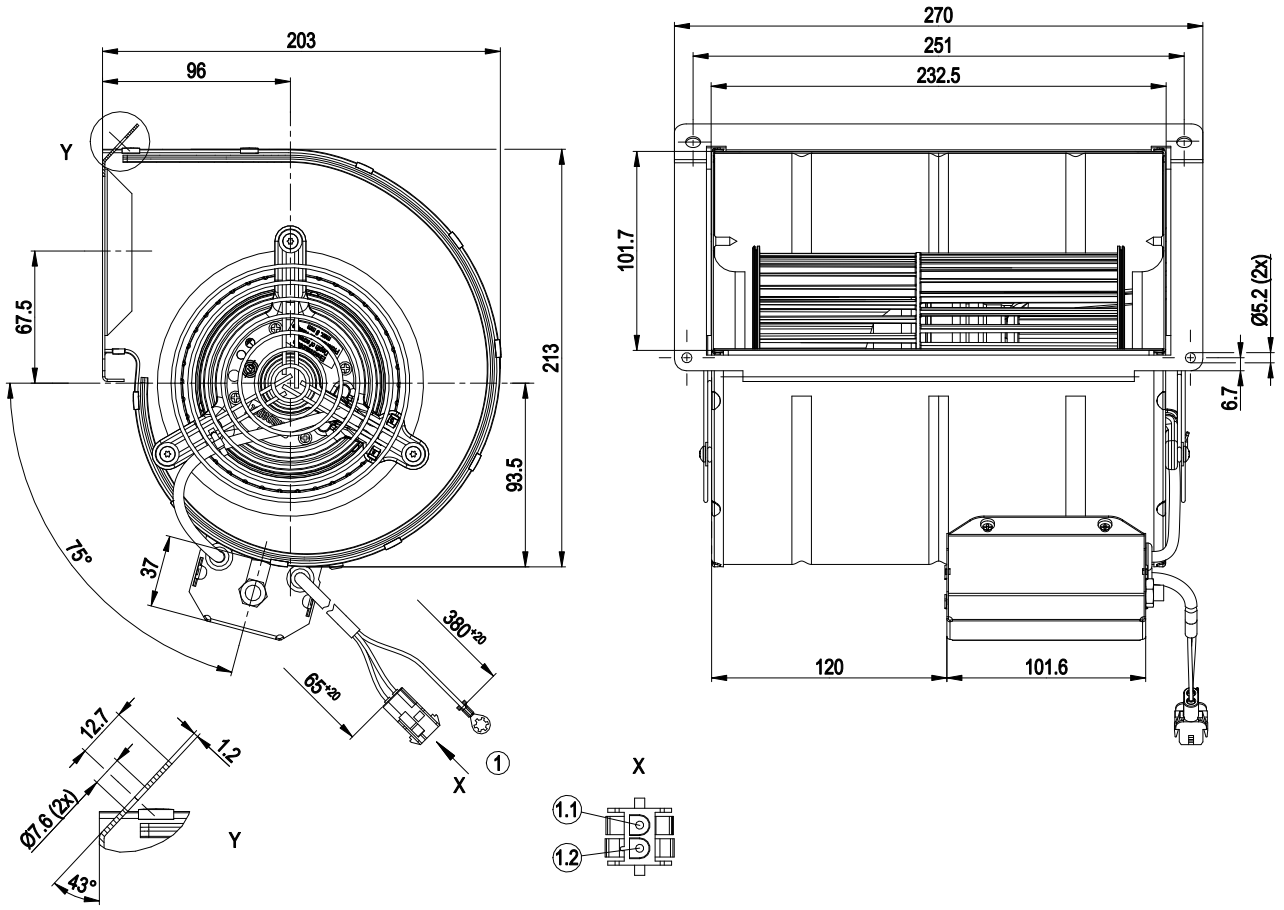
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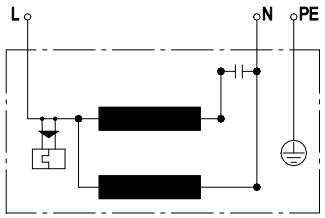
with housing (flange)

## Product drawing




| | |
|---|---|
| 1 | Connection line PVC AWG20, Tyco 2-pole connector housing 1586856-1, 2x Tyco plug pin 926887-1, 1x contact stud Ø 5.3 |
| 1.1 | L (blue) |
| 1.2 | N (black) |

## Connection screen




| | | | | | |
|---|---|---|---|---|---|
| L | blue | N | black | PE | green/yellow |



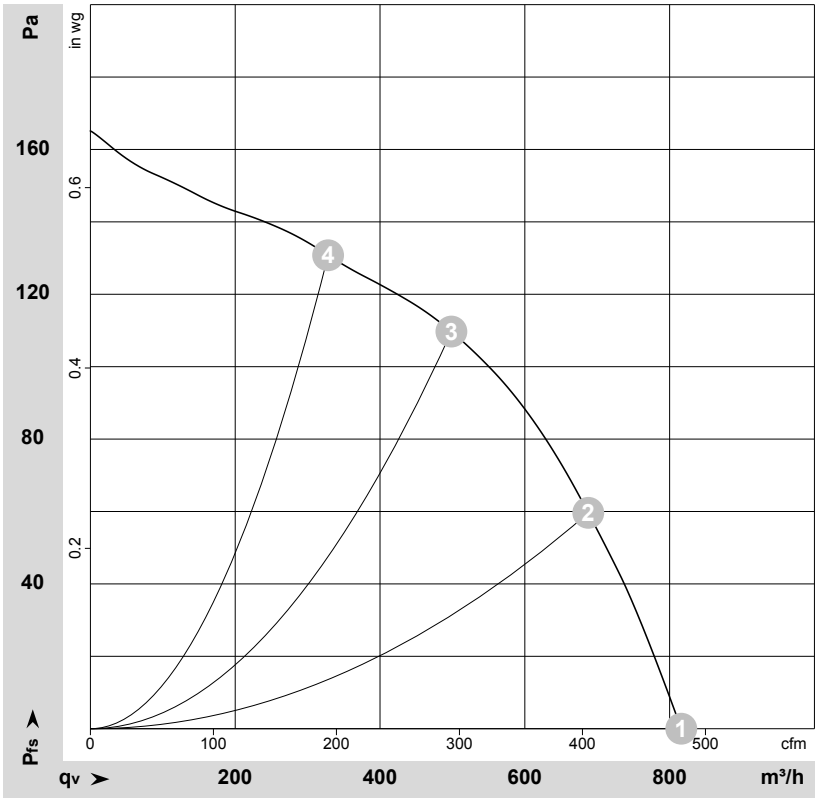
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## Charts: Air flow 60 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-167160-1

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 | 115 | 60 | 1350 | 95 | 0.83 | 815 | 0 | 480 | 0.00 |
| 2 | 115 | 60 | 1485 | 86 | 0.75 | 690 | 60 | 405 | 0.24 |
| 3 | 115 | 60 | 1600 | 75 | 0.65 | 500 | 110 | 295 | 0.44 |
| 4 | 115 | 60 | 1660 | 68 | 0.60 | 330 | 130 | 195 | 0.52 |

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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