**D3G133-DD10-07**

# EC centrifugal fan

forward curved, dual inlet

with housing (flange)

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ErP2015 EXCEEDS THE NORM

## Nominal data

| | | |
|---|---|---|
| **Type** | **D3G133-DD10-07** | |
| **Motor** | **M3G074-CF** | |
| Nominal voltage | VDC | 110 |
| Nominal voltage range | VDC | 93 .. 127 |
| Type of data definition | | cs |
| Speed | min$^{-1}$ | 2580 |
| Power input | W | 145 |
| Current draw | A | 1.32 |
| Min. back pressure | Pa | 320 |
| 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 | A |
| Efficiency category | Static |
| Variable speed drive | Yes |
| Specific ratio* | 1.01 |

* Specific ratio = 1 + $p_{fs}$ / 100 000 Pa

| | | Actual | Request 2013 | Request 2015 |
|---|---|---|---|---|
| Overall efficiency $\eta_{es}$ | % | 44.6 | 27 | 34 |
| Efficiency grade N | | 54.6 | 37 | 44 |
| Power input $P_e$ | kW | 0.26 | | |
| Air flow $q_v$ | m³/h | 755 | | |
| Pressure increase $p_{fs}$ | Pa | 500 | | |
| Speed n | min$^{-1}$ | 3215 | | |

Data definition with optimum efficiency. LU-36649
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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## Technical features

| | |
|---|---|
| **Mass** | 3.7 kg |
| **Size** | 133 mm |
| **Surface of rotor** | Coated in black |
| **Material of impeller** | Sheet steel, galvanised |
| **Housing material** | Sheet steel, galvanised |
| **Motor suspension** | Motor anti-vibration mounted on one side via brackets |
| **Direction of rotation** | Counter-clockwise, seen on rotor |
| **Type of protection** | IP 42; Depending on installation and position |
| **Insulation class** | "B" |
| **Humidity class** | F5 |
| **Max. permissible ambient motor temp. (transp./ storage)** | +80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | -40 °C |
| **Mounting position** | Shaft horizontal |
| **Condensate discharge holes** | None |
| **Operation mode** | S1 |
| **Motor bearing** | Ball bearing |
| **Motor protection** | Thermal overload protector (TOP) wired internally |
| **Protection class** | I (if protective earth is connected by customer) |



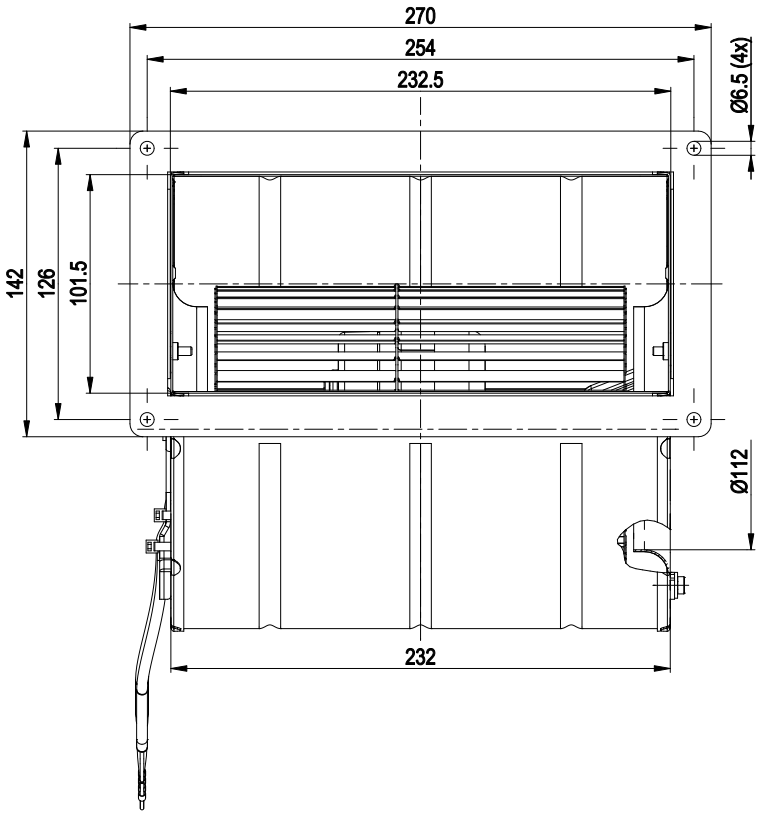
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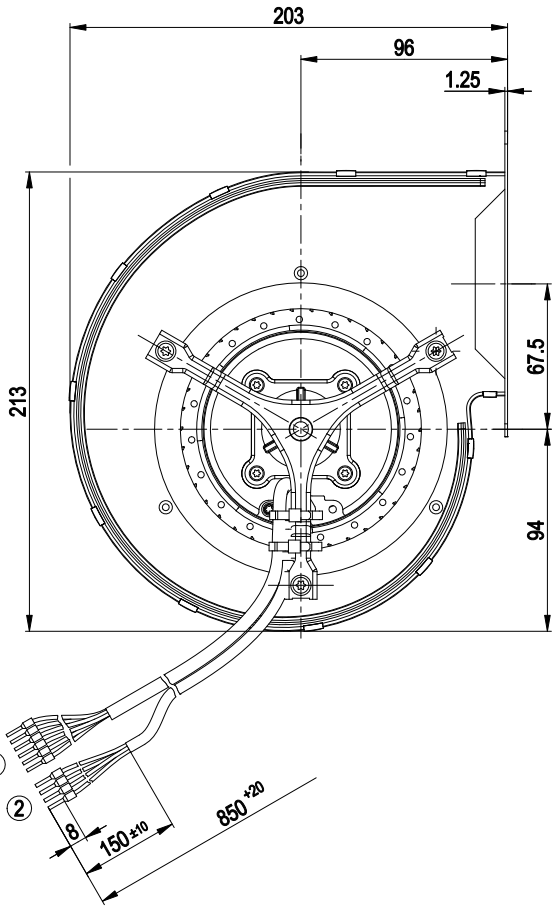
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## Product drawing




| | |
|---|---|
| 1 | Connection line halogen-free XLPE / XLPO 6G 0.5 mm², 6x lead tips crimped |
| 2 | Connection line halogen-free XLPE/XLPO 4G 0.75 mm², 4x crimped core-end sleeves |



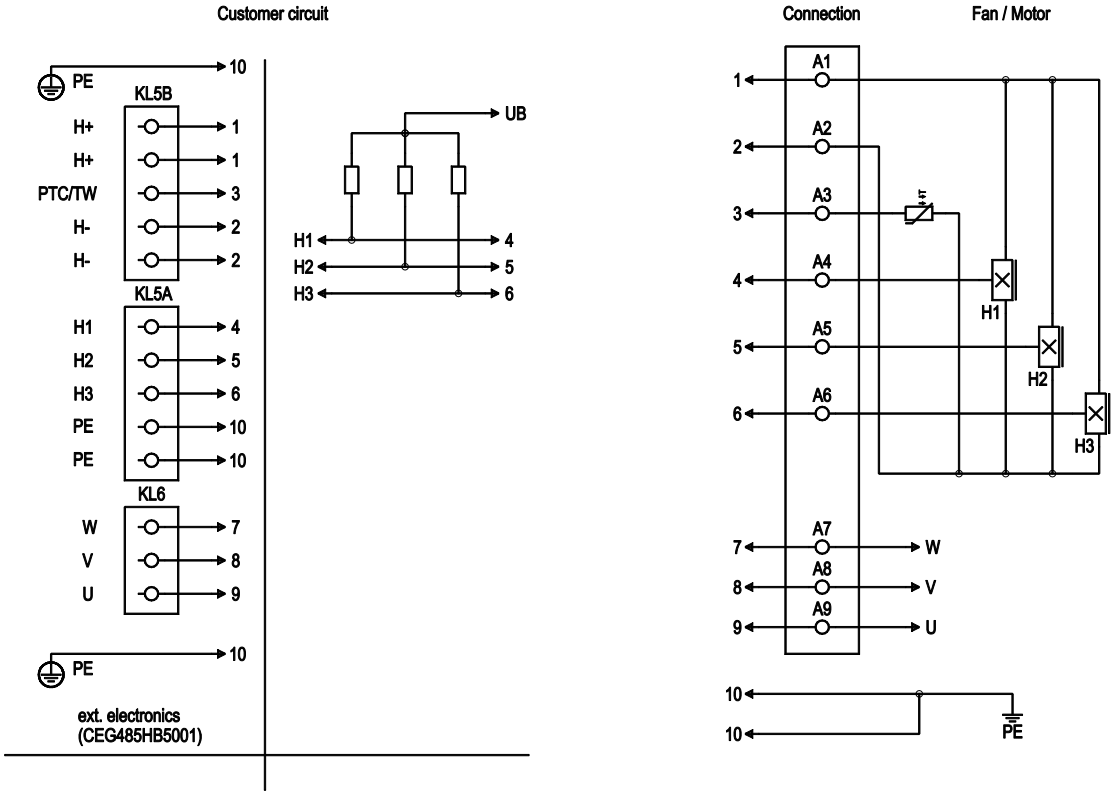
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## Connection screen




| No. | Conn. | Designation | Function / assignment |
|---|---|---|---|
| KL5B | 1 | A1 | + (red) |
| KL5B | 2 | A2 | - (blue) |
| KL5B | 3 | A3 | PTC (black) |
| KL5A | 4 | A4 | Hall 1 (grey) collector open, R to UB 4.5-24 V |
| KL5A | 5 | A5 | Hall 2 (brown) collector open, R to UB 4.5-24 V |
| KL5A | 6 | A6 | Hall 3 (yellow) collector open, R to UB 4.5-24 V |
| KL6 | 7 | A7 | W (brown) |
| KL6 | 8 | A8 | V (blue) |
| KL6 | 9 | A9 | U (black) |
| | 10 | 10 | PE (green/yellow) |



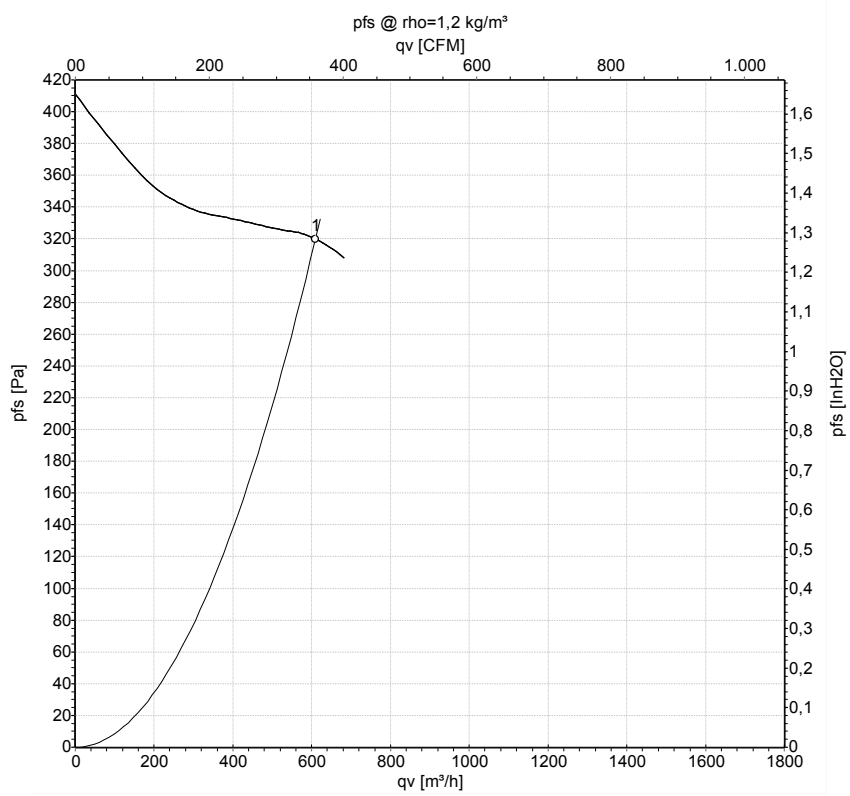
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## Charts: Air flow




Measurement: LU-36013

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 | n | $P_{ed}$ | I | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|
| | V | $min^{-1}$ | W | A | $m^3/h$ | Pa |
| 1 | 110 | 2580 | 145 | 1.32 | 610 | 320 |

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



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