

# AC centrifugal fan

forward curved, dual inlet  
with housing (without flange)

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## Nominal data

|                               |                      |      |      |
|-------------------------------|----------------------|------|------|
| Type                          | D2E133-CI33-56       |      |      |
| Motor                         | M2E068-CF            |      |      |
| Phase                         |                      | 1~   | 1~   |
| Nominal voltage               | [V]                  | 230  | 230  |
| Frequency                     | [Hz]                 | 50   | 60   |
| Type of data definition       |                      | ml   | ml   |
| Valid for approval / standard |                      | CE   | CE   |
| Speed                         | [min <sup>-1</sup> ] | 1700 | 2100 |
| Power input                   | [W]                  | 175  | 190  |
| Current draw                  | [A]                  | 0.77 | 0.84 |
| Motor capacitor               | [µF]                 | 4    | 4    |
| Capacitor voltage             | [VDB]                | 400  | 400  |
| Min. back pressure            | [Pa]                 | 50   | 200  |
| Max. ambient temperature      | [°C]                 | 35   | 25   |

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

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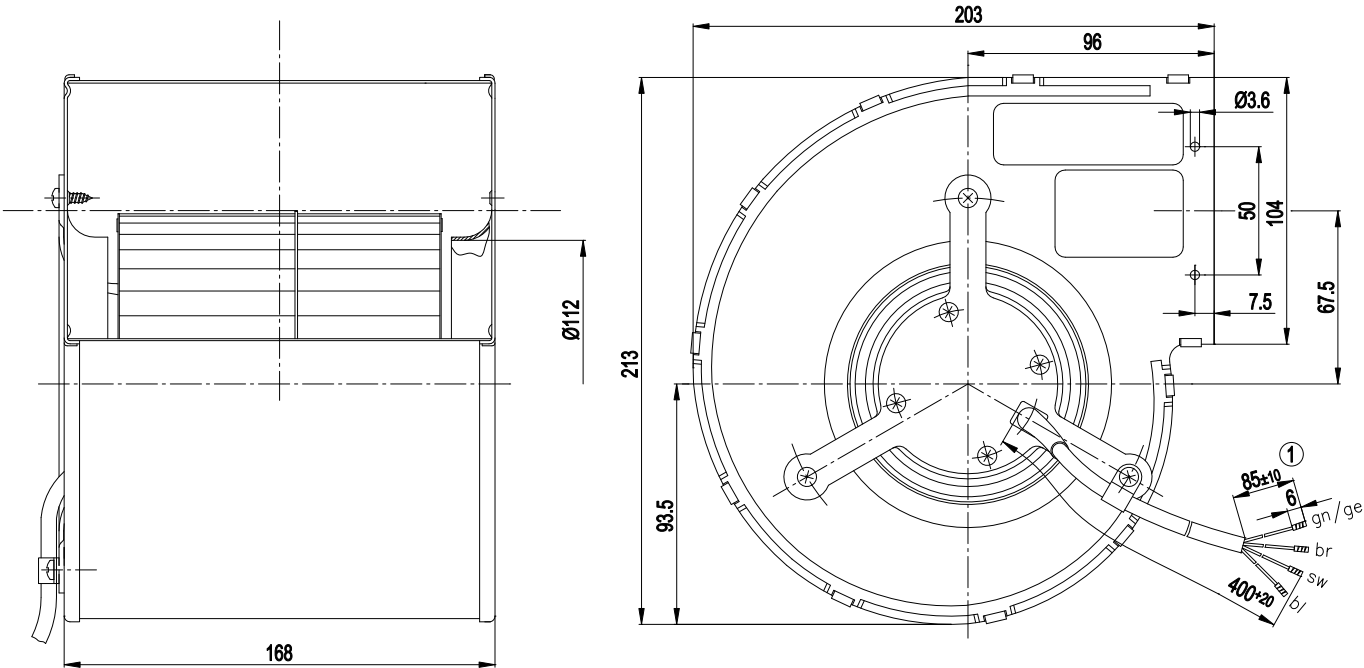
## Technical features

|                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| Leakage current                                         | < 0.75 mA                                         |
| General description                                     | Without flange                                    |
| Size                                                    | 133 mm                                            |
| Operation mode                                          | S1                                                |
| Direction of rotation                                   | Counter-clockwise, seen on rotor                  |
| Mounting position                                       | Any                                               |
| Humidity class                                          | F0                                                |
| Insulation class                                        | "B"                                               |
| Cable exit                                              | Axial                                             |
| Condensate discharge holes                              | None                                              |
| Bearing motor                                           | Ball bearing                                      |
| Mass                                                    | 3.3 kg                                            |
| Housing material                                        | Sheet steel, hot-galvanised                       |
| Material of impeller                                    | Sheet steel, hot-galvanised                       |
| Motor protection                                        | Thermal overload protector (TOP) wired internally |
| Product conforming to standard                          | CE; EN 60335-1                                    |
| Surface of rotor                                        | Partially cast in aluminium                       |
| Type of protection                                      | IP 44; Depending on installation and position     |
| Protection class                                        | I                                                 |
| Max. permissible ambient motor temp. (transp./ storage) | + 80 °C                                           |
| Min. permissible ambient motor temp. (transp./storage)  | - 40 °C                                           |
| Approval                                                | CCC                                               |

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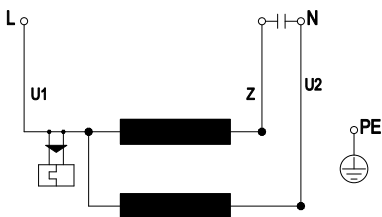
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## Product drawing



1 Connection line PVC 4G 0.5mm<sup>2</sup>, 4x brass lead tips crimped

## Connection screen

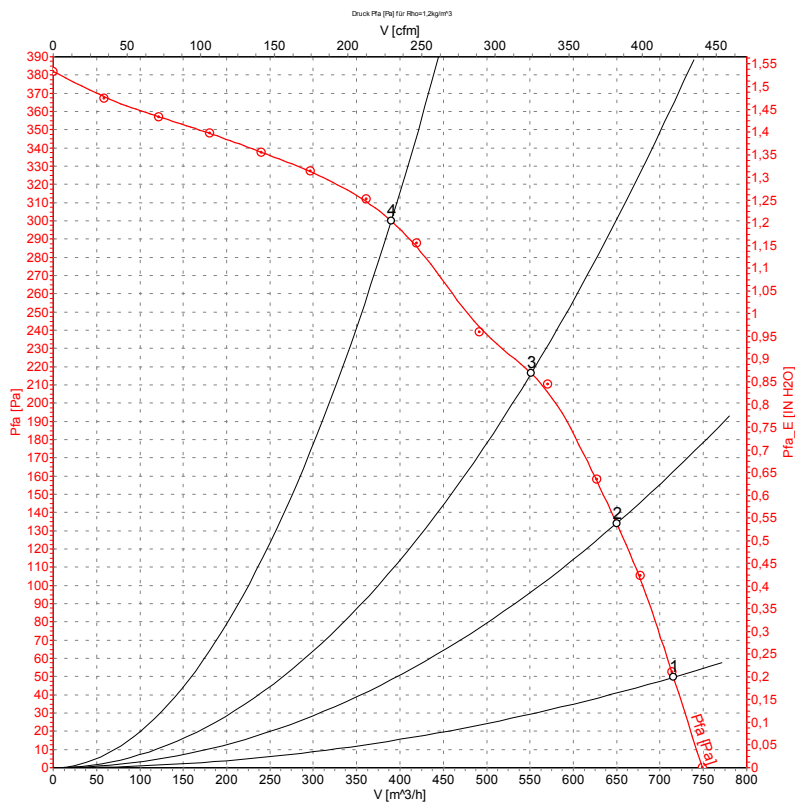


|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |

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## Charts: Air flow 50 Hz



Measurement: LU-105286

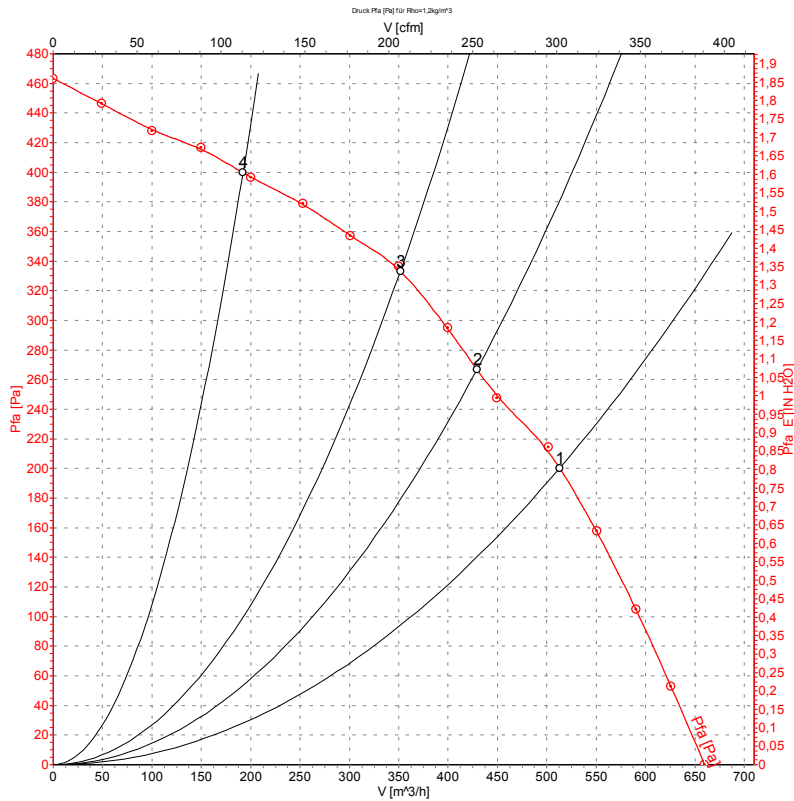
## Measured values

|   | U   | f    | n                    | $P_1$ | I    | $\hat{V}$ | $P_{fa}$ |
|---|-----|------|----------------------|-------|------|-----------|----------|
|   | [V] | [Hz] | [min <sup>-1</sup> ] | [W]   | [A]  | [m³/h]    | [Pa]     |
| 1 | 230 | 50   | 1700                 | 175   | 0.77 | 715       | 50       |
| 2 | 230 | 50   | 1900                 | 159   | 0.69 | 650       | 134      |
| 3 | 230 | 50   | 2150                 | 146   | 0.64 | 550       | 218      |
| 4 | 230 | 50   | 2415                 | 129   | 0.56 | 390       | 300      |

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## Charts: Air flow 60 Hz



Measurement: LU-105290

## Measured values

|   | U   | f    | n                    | P <sub>1</sub> | I    | $\hat{V}$ | P <sub>fa</sub> |
|---|-----|------|----------------------|----------------|------|-----------|-----------------|
|   | [V] | [Hz] | [min <sup>-1</sup> ] | [W]            | [A]  | [m³/h]    | [Pa]            |
| 1 | 230 | 60   | 2100                 | 190            | 0.84 | 515       | 200             |
| 2 | 230 | 60   | 2330                 | 176            | 0.77 | 430       | 267             |
| 3 | 230 | 60   | 2535                 | 171            | 0.75 | 350       | 336             |
| 4 | 230 | 60   | 2805                 | 161            | 0.71 | 190       | 400             |

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