

# AC centrifugal fan

forward curved, dual inlet  
with housing (without flange)

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## Nominal data

|                               |                   |      |      |      |
|-------------------------------|-------------------|------|------|------|
| Type                          | D2E133-AM47-01    |      |      |      |
| Motor                         | M2E068-DF         |      |      |      |
| Phase                         |                   | 1~   | 1~   | 1~   |
| Nominal voltage               | VAC               | 230  | 230  | 230  |
| Frequency                     | Hz                | 50   | 50   | 60   |
| Type of data definition       |                   | ml   | fa   | ml   |
| Valid for approval / standard |                   | CE   | CE   | CE   |
| Speed                         | min <sup>-1</sup> | 1900 | 1500 | 1800 |
| Power input                   | W                 | 164  | 190  | 200  |
| Current draw                  | A                 | 0.72 | 0.84 | 0.88 |
| Motor capacitor               | μF                | 3    | 3    | 3    |
| Capacitor voltage             | VDB               | 450  | 450  | 450  |
| Min. back pressure            | Pa                | 100  | 0    | 100  |
| Min. ambient temperature      | °C                | -25  | -25  | -25  |
| Max. ambient temperature      | °C                | 55   | 35   | 25   |
| Starting current              | A                 | 0.9  | 0.9  | 0.9  |

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

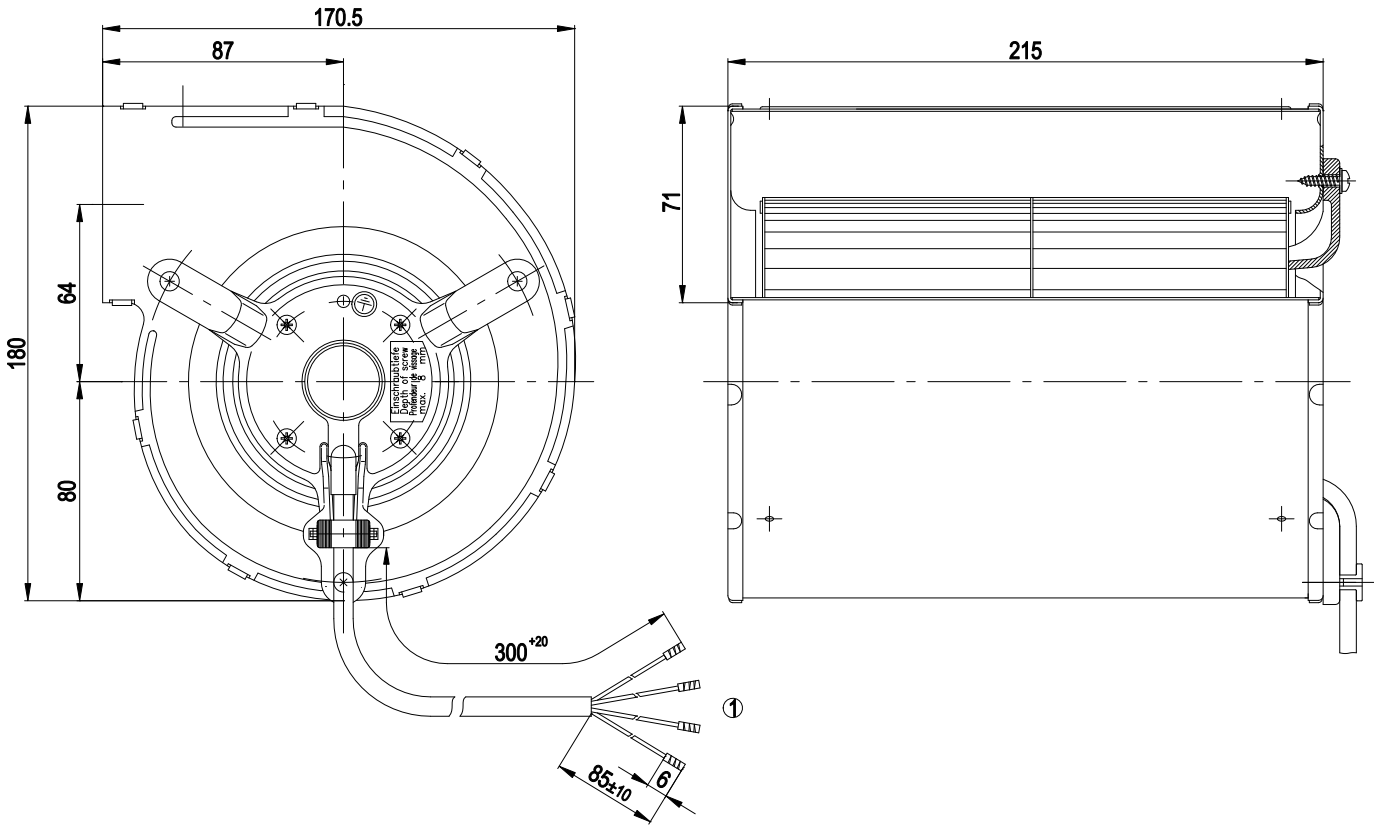
|                                                                    |                                                   |
|--------------------------------------------------------------------|---------------------------------------------------|
| Mass                                                               | 3.48 kg                                           |
| Size                                                               | 133 mm                                            |
| Surface of rotor                                                   | Partially cast in aluminium                       |
| Material of impeller                                               | Sheet steel, hot-galvanised                       |
| Housing material                                                   | Sheet steel, hot-galvanised                       |
| Motor suspension                                                   | Motor mounted via brackets on one side            |
| Direction of rotation                                              | Clockwise, seen on rotor                          |
| Type of protection                                                 | IP 44; Depending on installation and position     |
| Insulation class                                                   | "B"                                               |
| Humidity class                                                     | F0                                                |
| 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 |
| Cable exit                                                         | Axial                                             |
| Protection class                                                   | I (if protective earth is connected by customer)  |
| Product conforming to standard                                     | EN 60335-1; CE                                    |
| Approval                                                           | CCC                                               |



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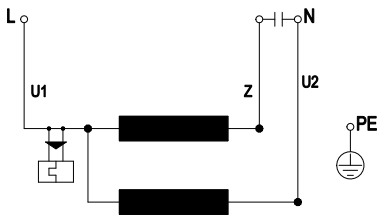
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## Product drawing



1 Connection line PVC, 4x brass lead tips crimped

## Connection screen



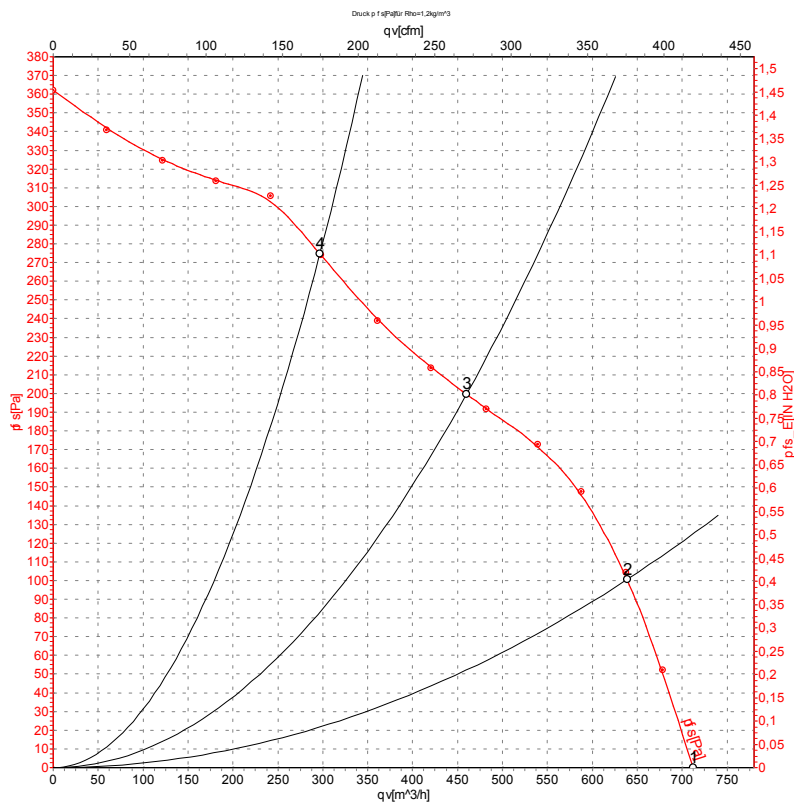
|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |



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## Charts: Air flow 50 Hz



Measurement: LU-105263

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: L<sub>WA</sub> measured as per ISO 13347 /  
L<sub>pA</sub> 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 <sub>e</sub> | I    | qv   | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1 | 230 | 50 | 1500              | 190            | 0.84 | 710  | 0               |
| 2 | 230 | 50 | 1890              | 164            | 0.72 | 640  | 100             |
| 3 | 230 | 50 | 2310              | 141            | 0.61 | 460  | 200             |
| 4 | 230 | 50 | 2570              | 118            | 0.52 | 295  | 275             |

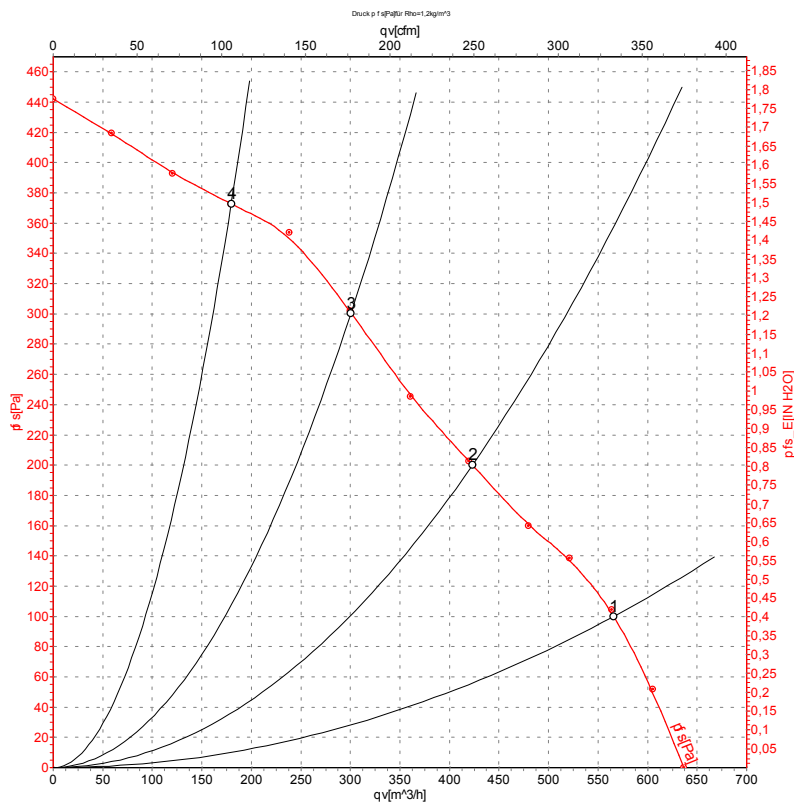
U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase



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## Charts: Air flow 60 Hz



Measurement: LU-105265

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: L<sub>WA</sub> measured as per ISO 13347 /  
L<sub>pA</sub> 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 <sub>e</sub> | I    | qv   | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1 | 230 | 60 | 1800              | 200            | 0.88 | 565  | 100             |
| 2 | 230 | 60 | 2310              | 181            | 0.78 | 425  | 200             |
| 3 | 230 | 60 | 2685              | 170            | 0.74 | 300  | 300             |
| 4 | 230 | 60 | 2945              | 159            | 0.70 | 180  | 375             |

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase

