

# AC centrifugal fan

backward curved, single inlet

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## Nominal data

|                               |                   |      |      |      |
|-------------------------------|-------------------|------|------|------|
| Type                          | R2S133-AE17-43    |      |      |      |
| Motor                         | M2E052-CA         |      |      |      |
| Phase                         |                   | 1~   | 1~   | 1~   |
| Nominal voltage               | VAC               | 230  | 230  | 230  |
| Frequency                     | Hz                | 50   | 60   | 60   |
| Type of data definition       |                   | fa   | fa   | fa   |
| Valid for approval / standard |                   | CE   | CE   | UL   |
| Speed                         | min <sup>-1</sup> | 2650 | 2950 | 2950 |
| Power input                   | W                 | 37   | 36   | 38   |
| Current draw                  | A                 | 0.24 | 0.21 |      |
| Min. back pressure            | Pa                | 0    | 0    | 0    |
| Min. ambient temperature      | °C                | -20  | -20  | -20  |
| Max. ambient temperature      | °C                | 45   | 65   | 65   |
| Starting current              | A                 | 0.35 | 0.3  | 0.3  |

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit  
Subject to alterations



## Technical features

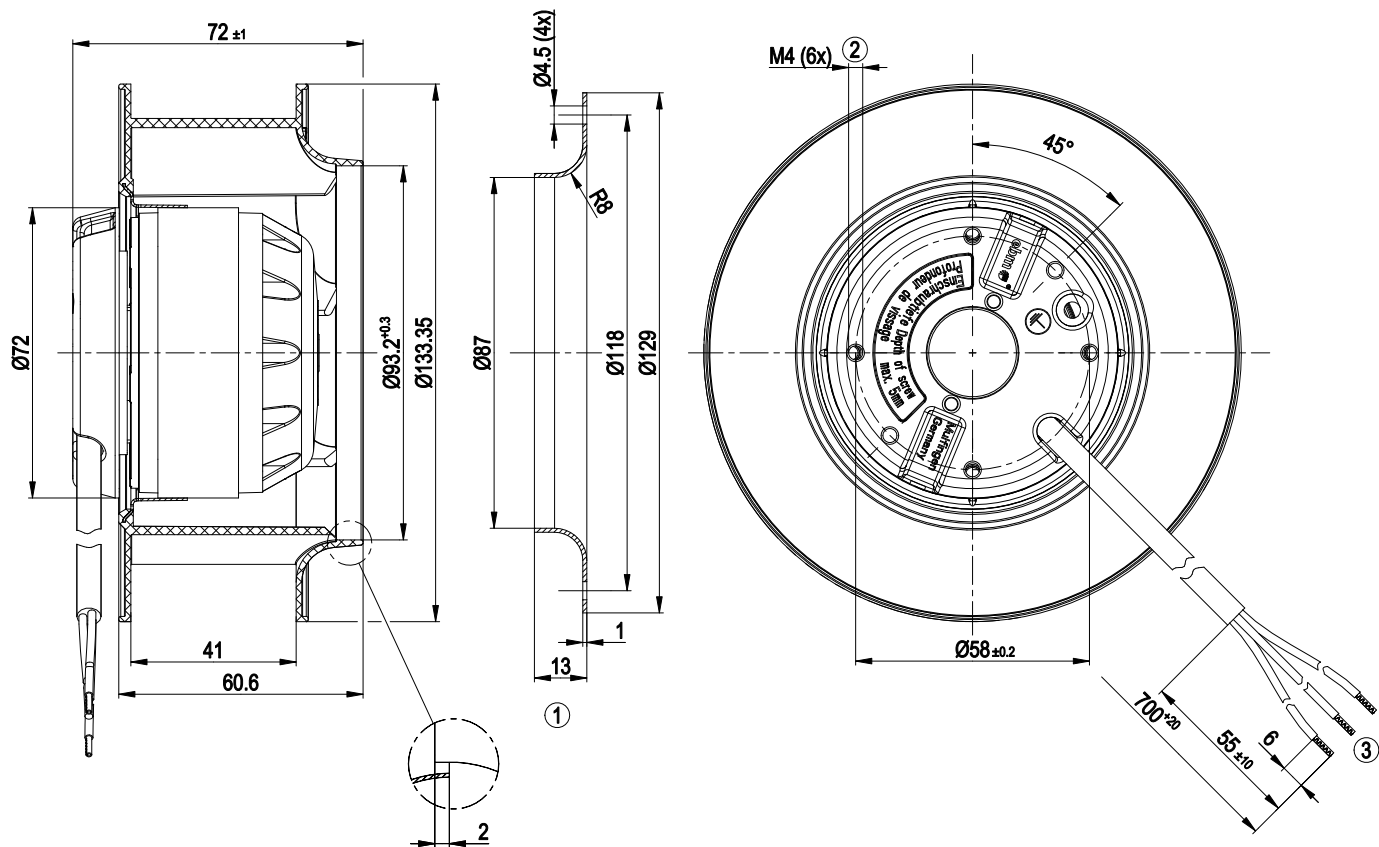
|                                                                    |                                                   |
|--------------------------------------------------------------------|---------------------------------------------------|
| Mass                                                               | 0.7 kg                                            |
| Size                                                               | 133 mm                                            |
| Surface of rotor                                                   | Coated in black                                   |
| Material of impeller                                               | PA plastic                                        |
| Number of blades                                                   | 7                                                 |
| Direction of rotation                                              | Clockwise, seen on rotor                          |
| Type of protection                                                 | IP 44; Depending on installation and position     |
| Insulation class                                                   | "B"                                               |
| Max. permissible ambient motor temp. (transp./ storage)            | + 80 °C                                           |
| Min. permissible ambient motor temp. (transp./storage)             | - 40 °C                                           |
| Mounting position                                                  | Any, horizontal preferred                         |
| Condensate discharge holes                                         | None                                              |
| Operation mode                                                     | S1                                                |
| Motor bearing                                                      | Twin 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                                                         | Variable                                          |
| Protection class                                                   | I (if protective earth is connected by customer)  |
| Product conforming to standard                                     | EN 60335-1; CE                                    |
| Approval                                                           | CCC; CSA C22.2 Nr.77; EAC; UL 2111                |



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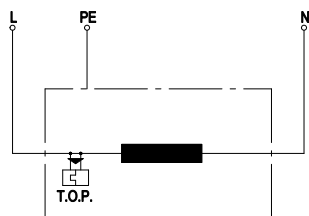
backward curved, single inlet

## Product drawing



- |   |                                                                              |
|---|------------------------------------------------------------------------------|
| 1 | Accessory part: inlet nozzle 09566-2-4013, not included in scope of delivery |
| 2 | Depth of screw max. 5 mm                                                     |
| 3 | Connection line PVC 3G AWG20, 3x lead tips crimped                           |

## Connection screen



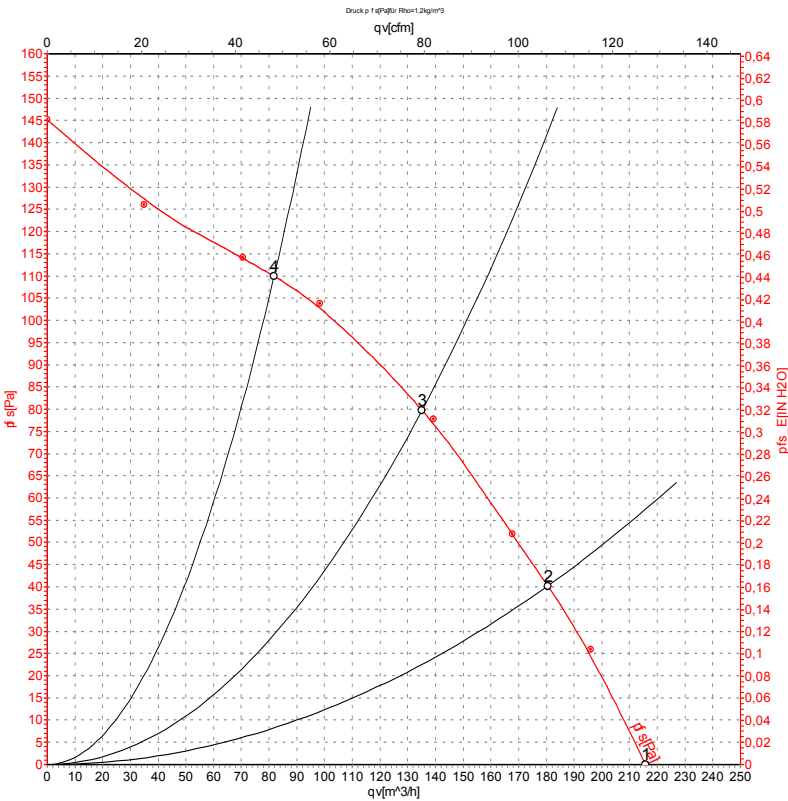
- |     |                              |
|-----|------------------------------|
| L   | = blue                       |
| PE  | = green / yellow             |
| N   | = brown                      |
| TOP | = Thermal overload protector |



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## Charts: Air flow 50 Hz



Measurement: LU-61919

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 | 2650              | 37             | 0.24 | 215  | 0               |
| 2 | 230 | 50 | 2630              | 38             | 0.24 | 180  | 40              |
| 3 | 230 | 50 | 2630              | 37             | 0.24 | 135  | 80              |
| 4 | 230 | 50 | 2655              | 37             | 0.24 | 80   | 110             |

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

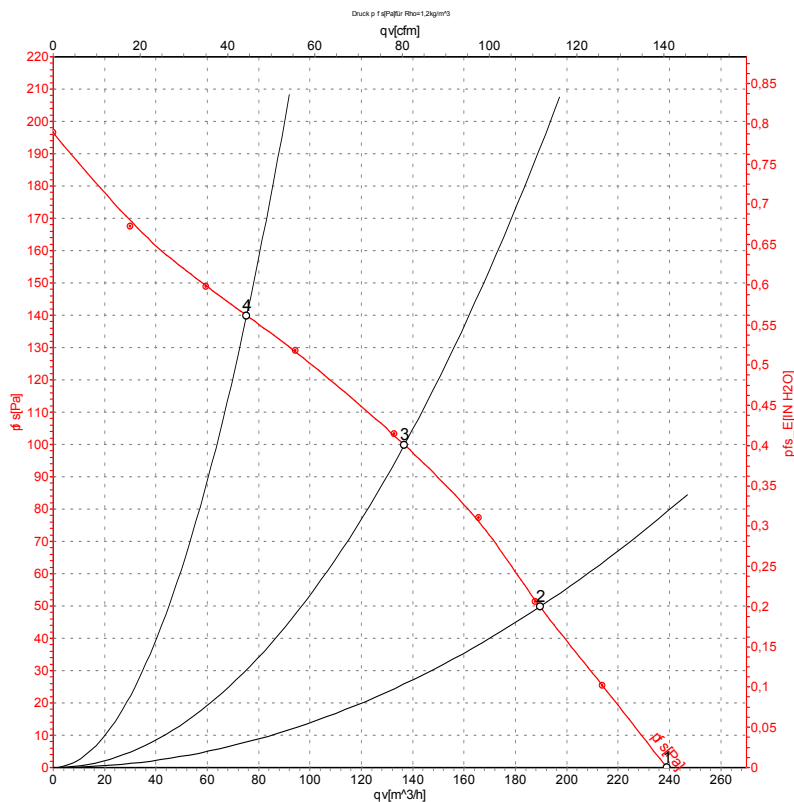


Оформить  
Заказ

# AC centrifugal fan

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## Charts: Air flow 60 Hz



Measurement: LU-61921

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 | 2950              | 36             | 0.21 | 240  | 0               |
| 2 | 230 | 60 | 2810              | 38             | 0.22 | 190  | 50              |
| 3 | 230 | 60 | 2835              | 37             | 0.21 | 135  | 100             |
| 4 | 230 | 60 | 2960              | 35             | 0.21 | 75   | 140             |

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

