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**Nominal data**

|                               |                   |         |         |
|-------------------------------|-------------------|---------|---------|
| Type                          | W2E143-AB09-06    |         |         |
| Motor                         | M2E052-BF         |         |         |
| Phase                         |                   | 1~      | 1~      |
| Nominal voltage               | VAC               | 230     | 230     |
| Frequency                     | Hz                | 50      | 60      |
| Type of data definition       |                   | fa      | fa      |
| Valid for approval / standard |                   | CE      | CE      |
| Speed                         | min <sup>-1</sup> | 2800    | 3300    |
| Power input                   | W                 | 26      | 29      |
| Current draw                  | A                 | 0.13    | 0.13    |
| Motor capacitor               | µF                | 0.75    | 0.75    |
| Capacitor voltage             | VDB               | 400     | 400     |
| Capacitor standard            |                   | P0 (CE) | P0 (CE) |
| Min. ambient temperature      | °C                | -25     | -25     |
| Max. ambient temperature      | °C                | 60      | 75      |

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

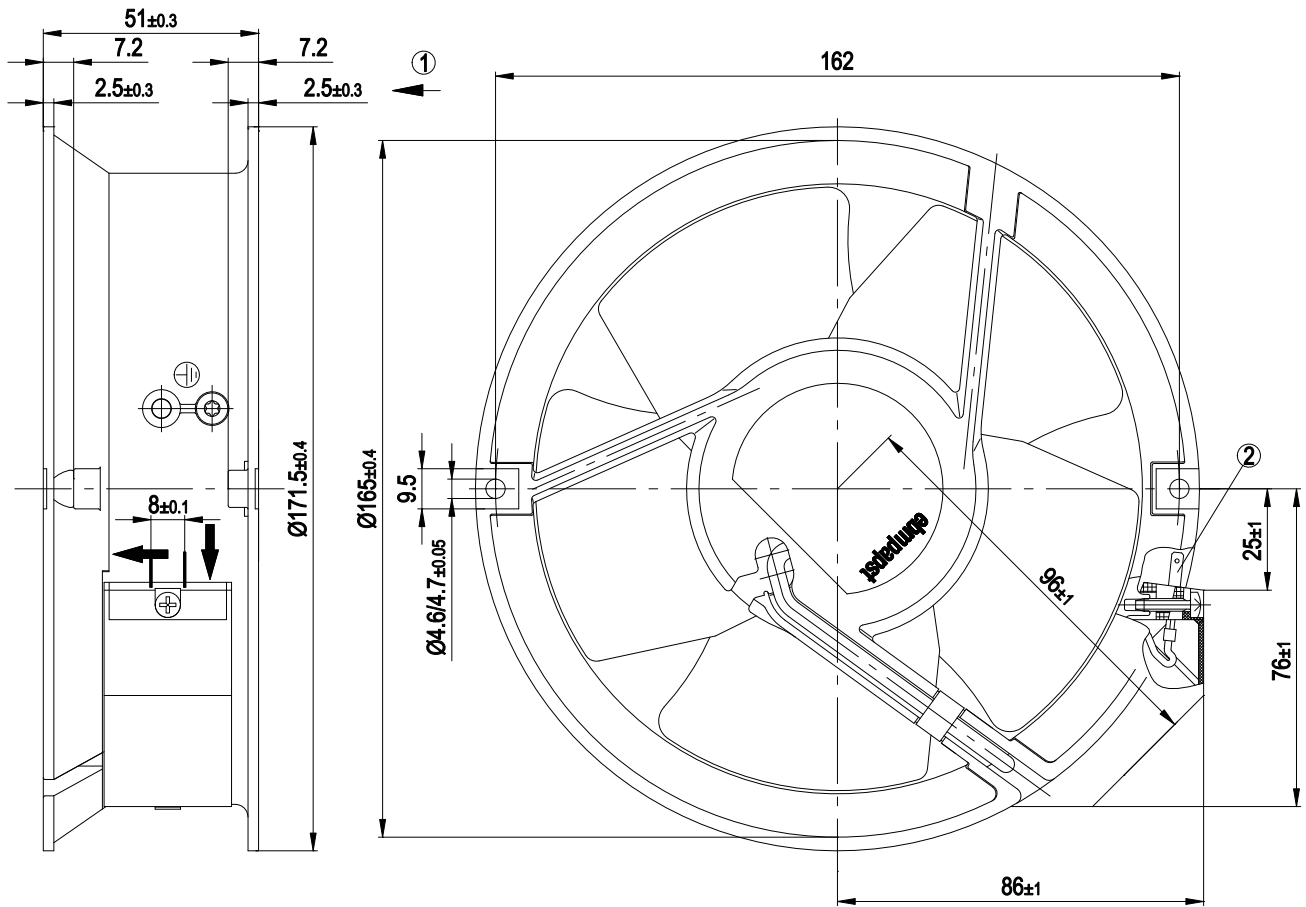


## Technical features

|                                                                    |                                                   |
|--------------------------------------------------------------------|---------------------------------------------------|
| Mass                                                               | 0.92 kg                                           |
| Size                                                               | 143 mm                                            |
| Surface of rotor                                                   | Rotor open, coated in black                       |
| Material of blades                                                 | Sheet steel, coated in black                      |
| Material of wall ring                                              | Die-cast aluminium, coated in black               |
| Number of blades                                                   | 5                                                 |
| Direction of air flow                                              | "V"                                               |
| Direction of rotation                                              | Counter-clockwise, seen on rotor                  |
| Type of protection                                                 | IP 20                                             |
| Insulation class                                                   | "B"                                               |
| 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, open rotor                                  |
| 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                                         |
| Motor protection                                                   | Thermal overload protector (TOP) wired internally |
| Protection class                                                   | I (if earth wire is connected by customer)        |
| Product conforming to standard                                     | EN 60335-1; CE                                    |
| Approval                                                           | CCC; CSA C22.2 Nr.113; UL 507; VDE                |

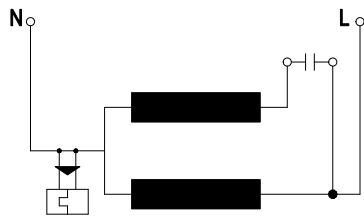


## Product drawing

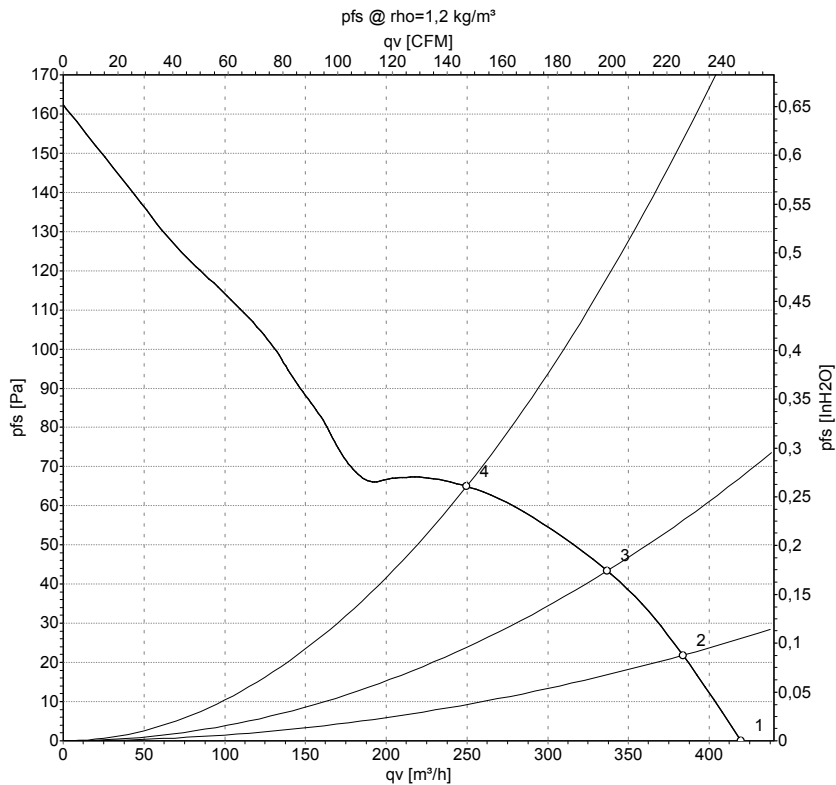


- |   |                                    |
|---|------------------------------------|
| 1 | Direction of air flow "V"          |
| 2 | Blade terminal $2.8 \times 0.5$ mm |

## Connection screen



## Charts: Air flow 50 Hz



Measurement: LU-58509

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.

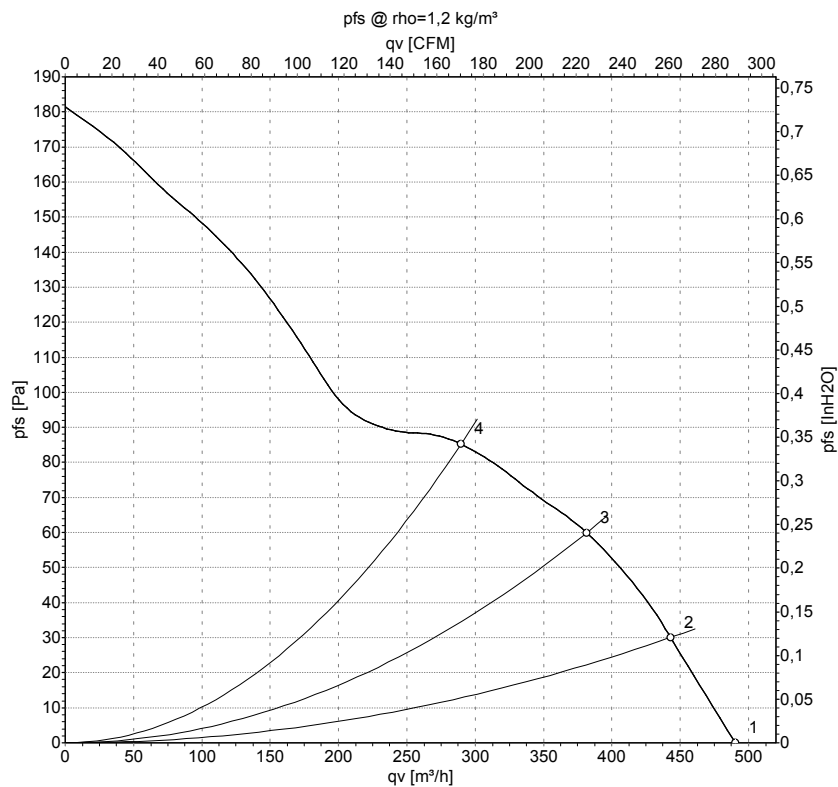
## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | q <sub>v</sub>    | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m <sup>3</sup> /h | Pa              |
| 1 | 230 | 50 | 2800              | 26             | 0.13 | 420               | 0               |
| 2 | 230 | 50 | 2775              | 27             | 0.13 | 385               | 22              |
| 3 | 230 | 50 | 2760              | 27             | 0.13 | 335               | 44              |
| 4 | 230 | 50 | 2745              | 28             | 0.13 | 250               | 65              |

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



## Charts: Air flow 60 Hz



Measurement: LU-58510

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 <sub>e</sub> | I    | qv   | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa              |
| 1 | 230 | 60 | 3300              | 29             | 0.13 | 490  | 0               |
| 2 | 230 | 60 | 3210              | 31             | 0.14 | 445  | 30              |
| 3 | 230 | 60 | 3175              | 32             | 0.14 | 380  | 60              |
| 4 | 230 | 60 | 3140              | 33             | 0.14 | 290  | 85              |

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

