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**Nominal data**

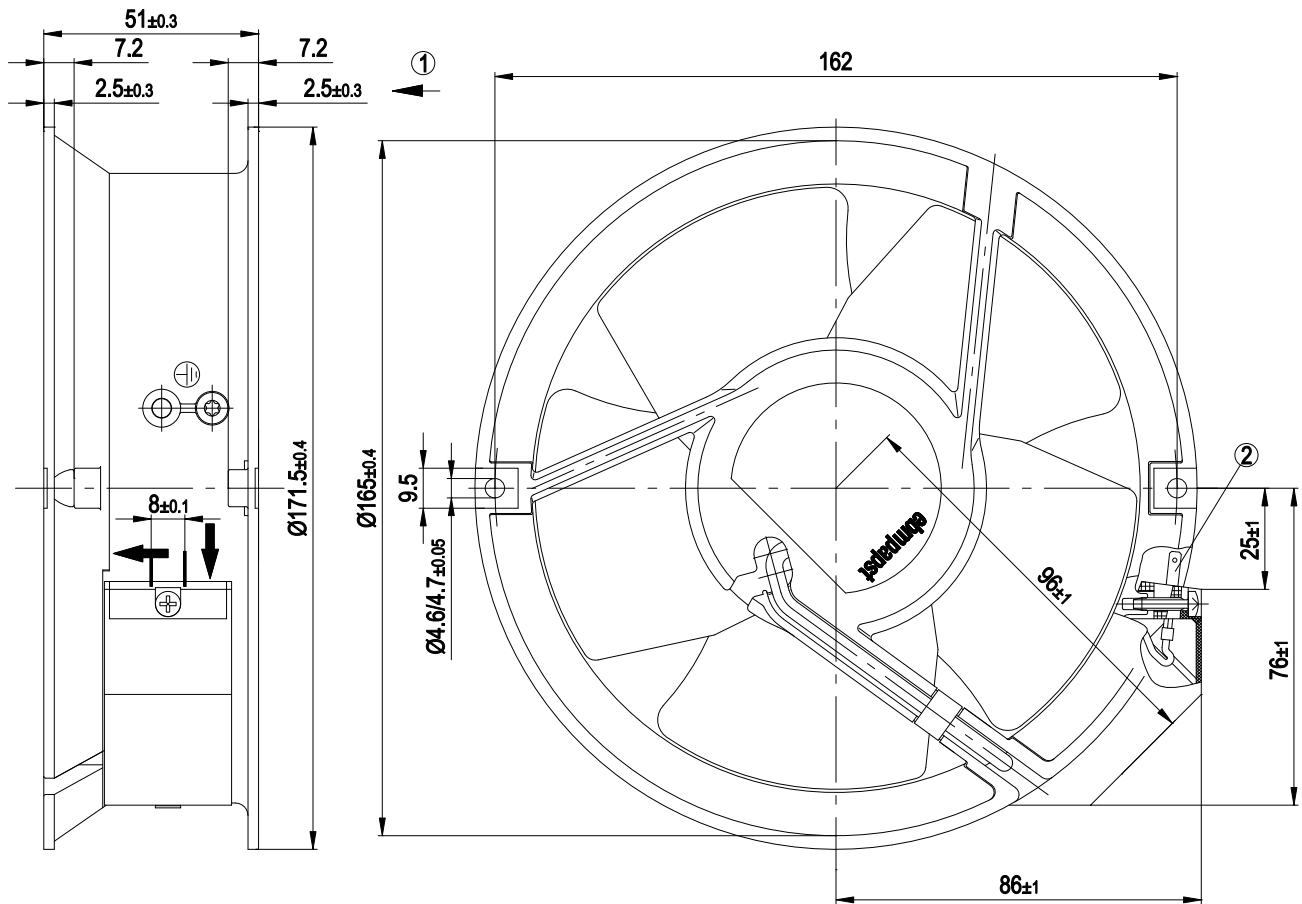
|                               |                      |         |         |
|-------------------------------|----------------------|---------|---------|
| Type                          | W2E143-AB09-01       |         |         |
| Motor                         | M2E052-BF            |         |         |
| Phase                         |                      | 1~      | 1~      |
| Nominal voltage               | [V]                  | 230     | 230     |
| Frequency                     | [Hz]                 | 50      | 60      |
| Type of data definition       |                      | rfa     | rfa     |
| Valid for approval / standard |                      | CE      | UL      |
| Speed                         | [min <sup>-1</sup> ] | 2800    | 3300    |
| Power input                   | [W]                  | 24      | 30      |
| Current draw                  | [A]                  | 0.12    |         |
| Motor capacitor               | [µF]                 | 0.75    | 0.75    |
| Capacitor voltage             | [VDB]                | 400     | 400     |
| Capacitor standard            |                      | P0 (CE) | P0 (CE) |
| Max. ambient temperature      | [°C]                 | 60      | 75      |

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

## Technical features

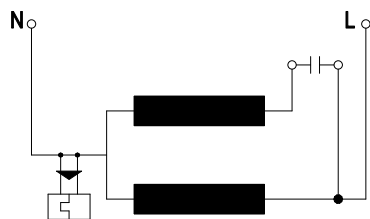
|                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| Leakage current                                         | < 0.75 mA                                         |
| Size                                                    | 143 mm                                            |
| Operation mode                                          | S1                                                |
| Direction of rotation                                   | Counter-clockwise, seen on rotor                  |
| Mounting position                                       | Any                                               |
| Electrical leads                                        | With plug                                         |
| Direction of air flow                                   | "V"                                               |
| Insulation class                                        | "B"                                               |
| Condensate discharge holes                              | None, open rotor                                  |
| Bearing motor                                           | Ball bearing                                      |
| Mass                                                    | 0.91 kg                                           |
| Material of blades                                      | Sheet steel, coated in black                      |
| Material of wall ring                                   | Die-cast aluminium, coated in black               |
| Motor protection                                        | Thermal overload protector (TOP) wired internally |
| Product conforming to standard                          | CE; EN 60335-1                                    |
| Surface of rotor                                        | Rotor open, coated in black                       |
| Number of blades                                        | 5                                                 |
| Type of protection                                      | IP 20                                             |
| Protection class                                        | I (if earth wire is connected by customer)        |
| Max. permissible ambient motor temp. (transp./ storage) | + 80 °C                                           |
| Min. permissible ambient motor temp. (transp./storage)  | - 40 °C                                           |
| Approval                                                | CCC; CSA C22.2 Nr.113; GOST; UL 507; VDE          |

## Product drawing

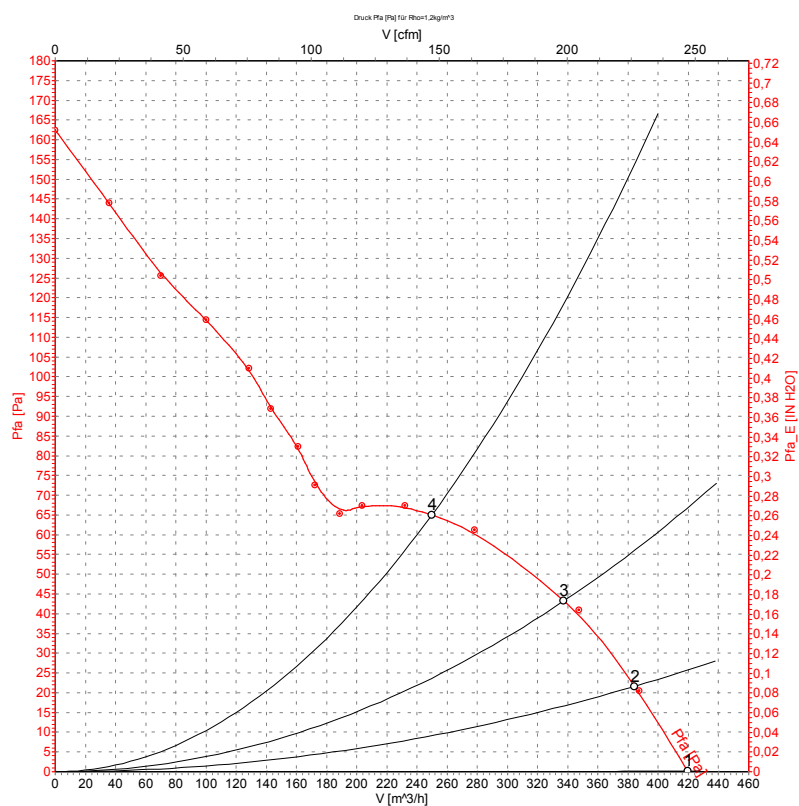


- |   |                                    |
|---|------------------------------------|
| 1 | Direction of air flow "V"          |
| 2 | Blade terminal $2.8 \times 0.5$ mm |

## Connection screen



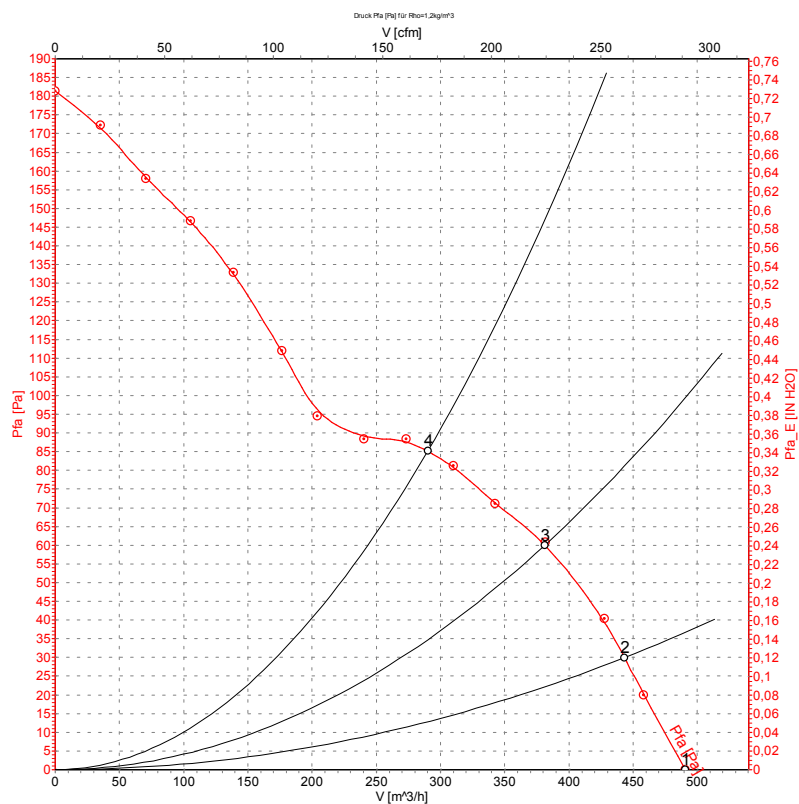
## Charts: Air flow 50 Hz



## 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 | 50   | 2800                 | 24             | 0.12 | 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              |

## Charts: Air flow 60 Hz



## 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   | 3300                 | 30             | 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              |