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County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142

**Nominal data**

|                               |                   |      |      |
|-------------------------------|-------------------|------|------|
| Type                          | W2S130-BM03-01    |      |      |
| Motor                         | M2S052-CA         |      |      |
| 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 (rpm)                   | min <sup>-1</sup> | 2700 | 3050 |
| Power input                   | W                 | 47   | 46   |
| Current draw                  | A                 | 0.31 | 0.27 |
| Min. ambient temperature      | °C                | -25  | -25  |
| Max. ambient temperature      | °C                | 50   | 70   |
| Starting current              | A                 | 0.45 | 0.40 |

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

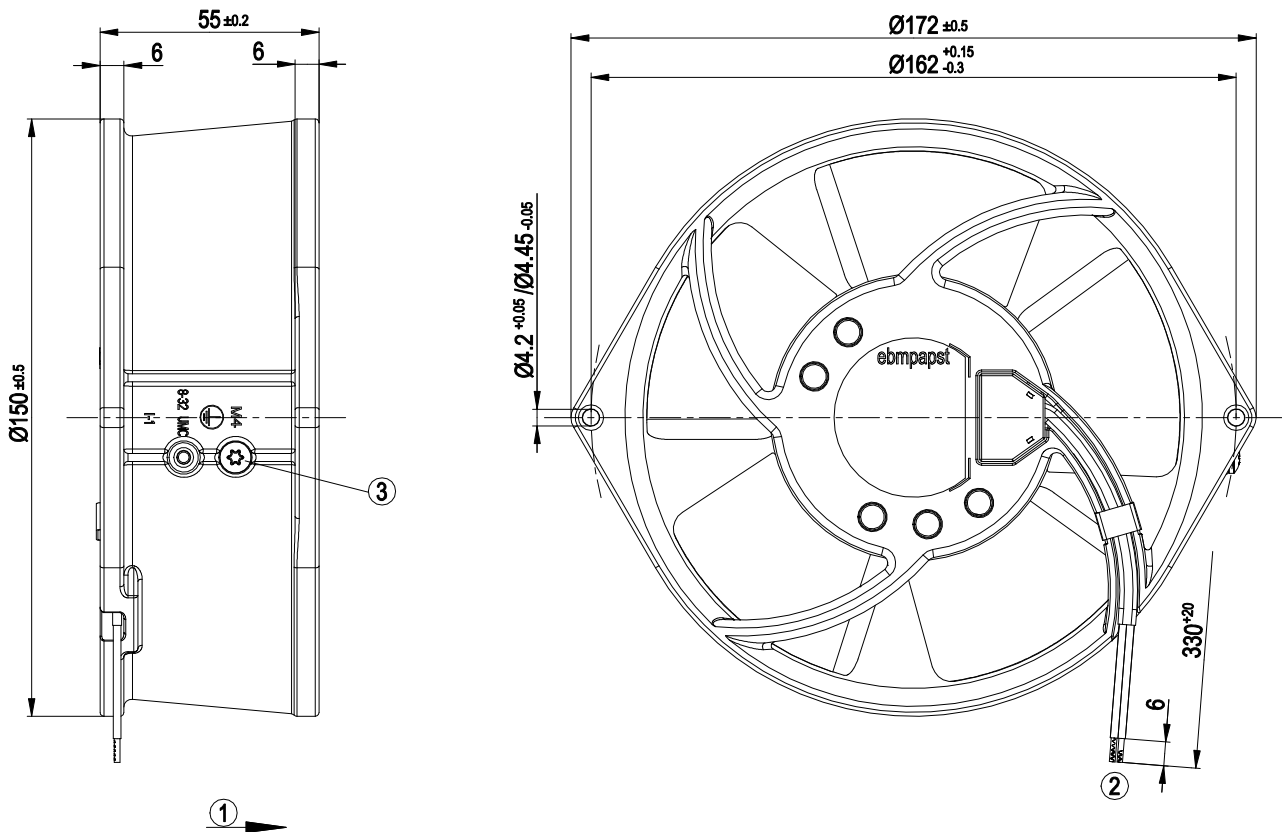


## Technical features

|                                                                    |                                                   |
|--------------------------------------------------------------------|---------------------------------------------------|
| Mass                                                               | 1.1 kg                                            |
| Size                                                               | 130 mm                                            |
| Surface of rotor                                                   | Coated in black                                   |
| Material of blades                                                 | Sheet steel, coated in black                      |
| Housing material                                                   | Die-cast aluminum, coated in black                |
| Number of blades                                                   | 5                                                 |
| Direction of air flow                                              | "A"                                               |
| 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                                         |
| Motor protection                                                   | Thermal overload protector (TOP) wired internally |
| Protection class                                                   | I (if protective earth is connected by customer)  |
| Product conforming to standard                                     | EN 60335-1; CE                                    |
| Approval                                                           | CCC; CSA C22.2 No.113; EAC; UL 507; VDE           |

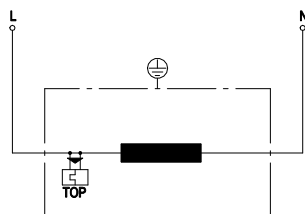


## Product drawing



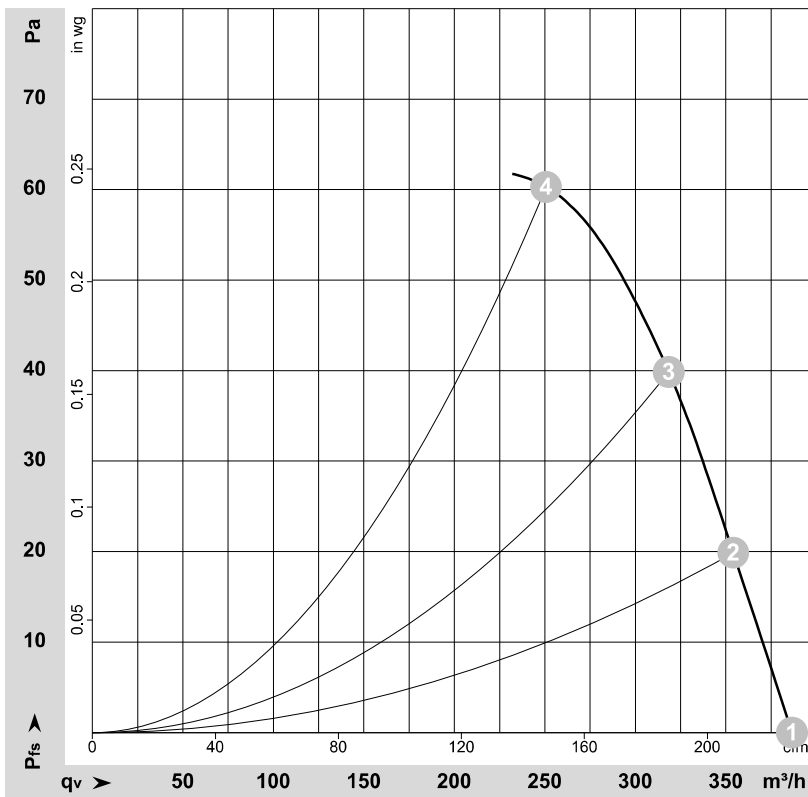
|   |                                                   |
|---|---------------------------------------------------|
| 1 | Direction of air flow "A"                         |
| 2 | Connection line AWG20, 2x brass lead tips crimped |
| 3 | M4 screw for fastening earth conductor            |

## Connection screen



|     |                              |
|-----|------------------------------|
| L   | = black                      |
| N   | = black                      |
| TOP | = Thermal overload protector |

## Charts: Air flow 50 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-57321-1

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.

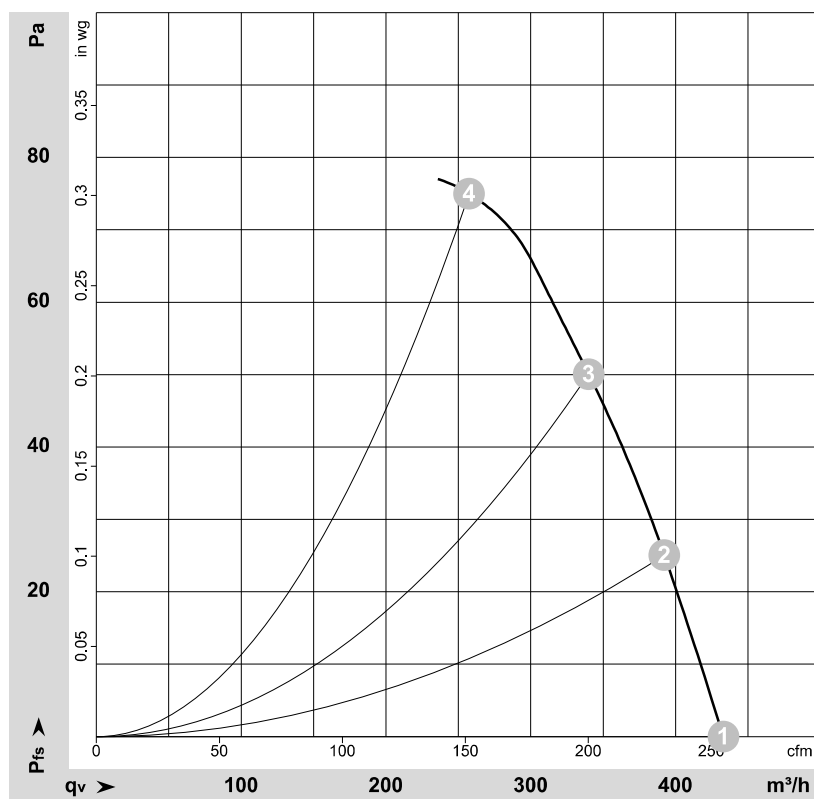
## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | qv                | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m <sup>3</sup> /h | Pa              |
| 1 | 230 | 50 | 2700              | 47             | 0.31 | 385               | 0               |
| 2 | 230 | 50 | 2735              | 50             | 0.33 | 355               | 20              |
| 3 | 230 | 50 | 2730              | 51             | 0.33 | 320               | 40              |
| 4 | 230 | 50 | 2710              | 51             | 0.33 | 250               | 60              |

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



## Charts: Air flow 60 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-57322-1

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 | 3050              | 46             | 0.27 | 435  | 0               |
| 2 | 230 | 60 | 3035              | 50             | 0.28 | 390  | 25              |
| 3 | 230 | 60 | 2975              | 51             | 0.29 | 340  | 50              |
| 4 | 230 | 60 | 2940              | 52             | 0.29 | 255  | 75              |

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

