

**A4E300-AS72-05**

## AC axial fan

sickle-shaped blades (S series)

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### Nominal data

|                             |                   |         |         |
|-----------------------------|-------------------|---------|---------|
| Type                        | A4E300-AS72-05    |         |         |
| Motor                       | M4E068-CF         |         |         |
| Phase                       |                   | 1~      | 1~      |
| Nominal voltage             | VAC               | 230     | 230     |
| Frequency                   | Hz                | 50      | 60      |
| Method of obtaining data    |                   | ml      | ml      |
| Valid for approval/standard |                   | CE      | CE      |
| Speed (rpm)                 | min <sup>-1</sup> | 1320    | 1500    |
| Power consumption           | W                 | 72      | 90      |
| Current draw                | A                 | 0.32    | 0.4     |
| Capacitor                   | µF                | 2       | 2       |
| Capacitor voltage           | VDB               | 400     | 400     |
| Capacitor standard          |                   | S0 (CE) | S0 (CE) |
| Max. back pressure          | Pa                | 60      | 60      |
| Min. ambient temperature    | °C                | -40     | -40     |
| Max. ambient temperature    | °C                | 50      | 50      |
| Starting current            | A                 | 0.6     | 0.57    |

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



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## Technical description

|                                                                            |                                                       |
|----------------------------------------------------------------------------|-------------------------------------------------------|
| Weight                                                                     | 1.9 kg                                                |
| Fan size                                                                   | 300 mm                                                |
| Motor size                                                                 | 68                                                    |
| Rotor surface                                                              | Painted black                                         |
| Blade material                                                             | PP plastic                                            |
| Number of blades                                                           | 5                                                     |
| Airflow direction                                                          | A                                                     |
| Direction of rotation                                                      | Clockwise, viewed toward rotor                        |
| Degree of protection                                                       | IP44                                                  |
| Degree of protection                                                       | Installation- and position-dependent                  |
| Insulation class                                                           | «B»                                                   |
| Moisture (F) / Environmental (H) protection class                          | F2-2; H1+                                             |
| Max. permitted ambient temp. for motor (transport/storage)                 | + 70 °C                                               |
| Min. permitted ambient temp. for motor (transport/storage)                 | - 40 °C                                               |
| Installation position                                                      | Shaft horizontal                                      |
| Condensation drainage holes                                                | —                                                     |
| Mode                                                                       | S1                                                    |
| Motor bearing                                                              | Ball bearing with low-temperature lubricant           |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | < 0,75 mA                                             |
| Motor protection                                                           | Thermal overload protector (TOP) internally connected |
| With cable                                                                 | Variable                                              |
| Protection class                                                           | I (with customer connection of protective earth)      |
| Conformity with standards                                                  | EN 60335-1; CE                                        |

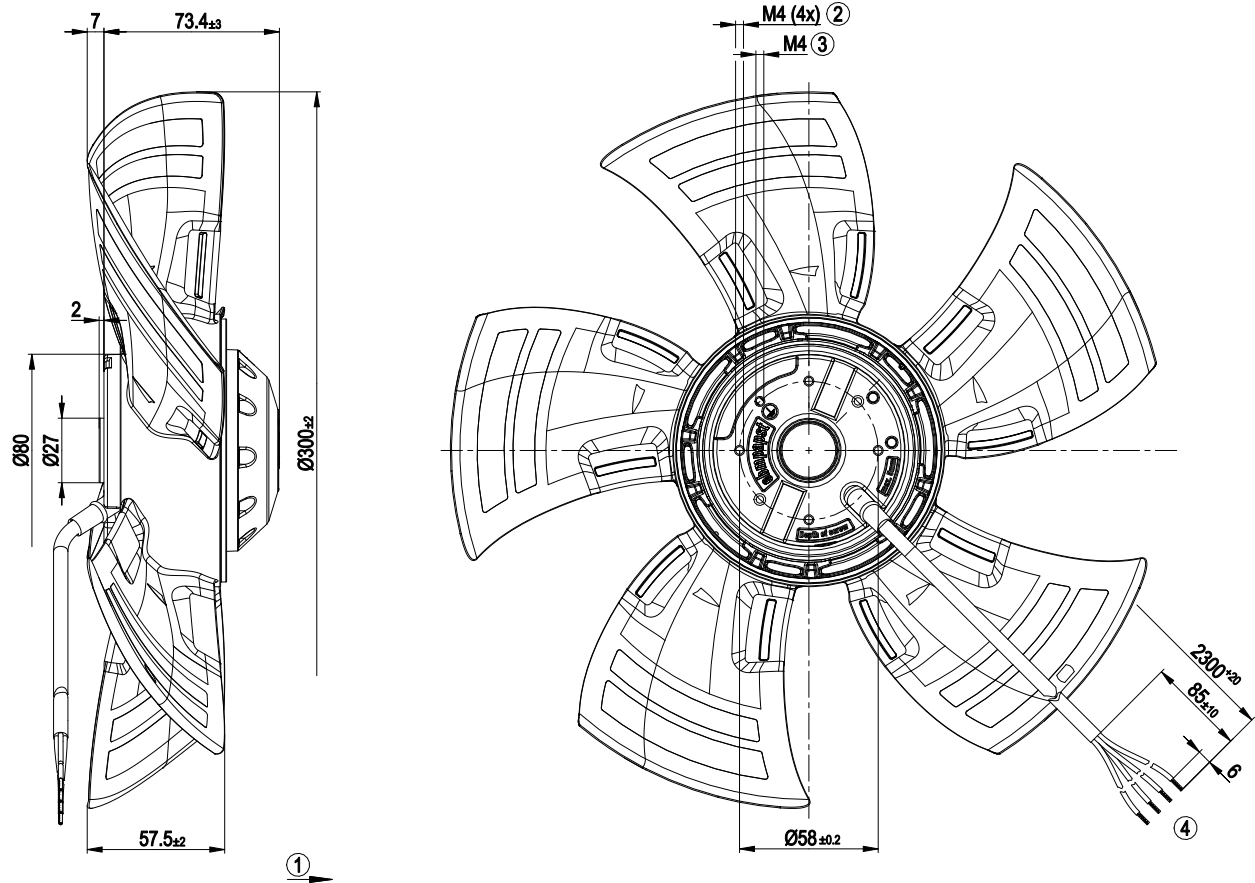


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## Product drawing



|   |                                                                 |
|---|-----------------------------------------------------------------|
| 1 | Air flow direction "A"                                          |
| 2 | Max. clearance for screw 5 mm                                   |
| 3 | Max. clearance for screw 5 mm                                   |
| 4 | Connection line silicone 4G 0.5 mm², 4 crimped wire end sleeves |

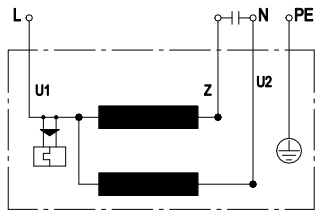


ebm

pa

ost

Connection diagram



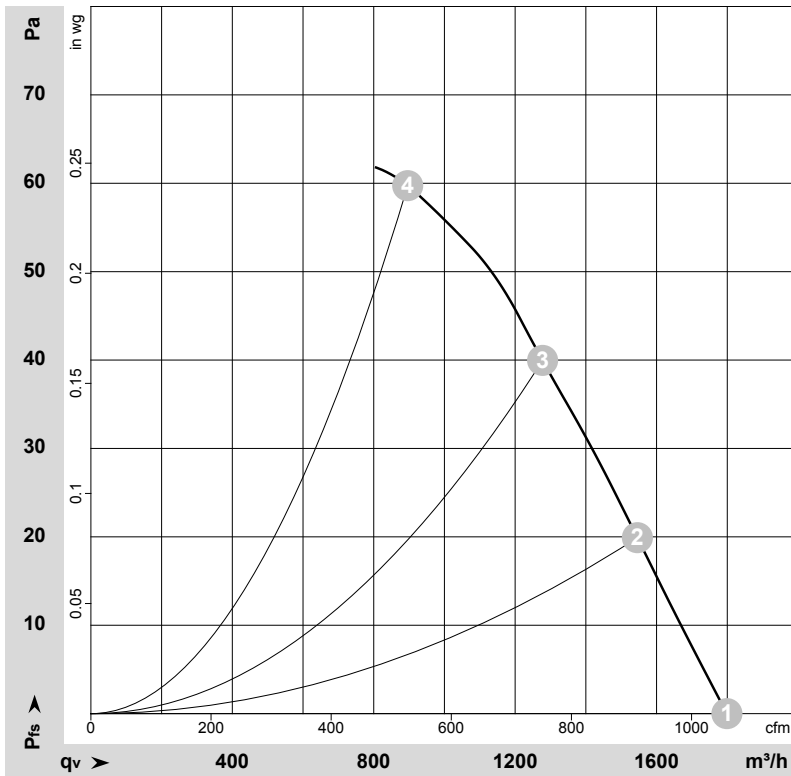
|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |



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## Curves: Air performance 50 Hz



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

Measurement: LU-112383-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters must be checked in the installed unit.

## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | LpA <sub>in</sub> | LwA <sub>in</sub> | q <sub>v</sub> | P <sub>fs</sub> | q <sub>v</sub> | P <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-------------------|----------------|-----------------|----------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | dB(A)             | dB(A)             | m³/h           | Pa              | cfm            | in. wg          |
| 1 | 230 | 50 | 1385              | 60             | 0.28 | 53                | 60                | 1800           | 0               | 1060           | 0.00            |
| 2 | 230 | 50 | 1365              | 63             | 0.28 | 52                | 59                | 1545           | 20              | 910            | 0.08            |
| 3 | 230 | 50 | 1355              | 66             | 0.29 | 51                | 58                | 1280           | 40              | 750            | 0.16            |
| 4 | 230 | 50 | 1320              | 72             | 0.32 | 53                | 61                | 895            | 60              | 525            | 0.24            |

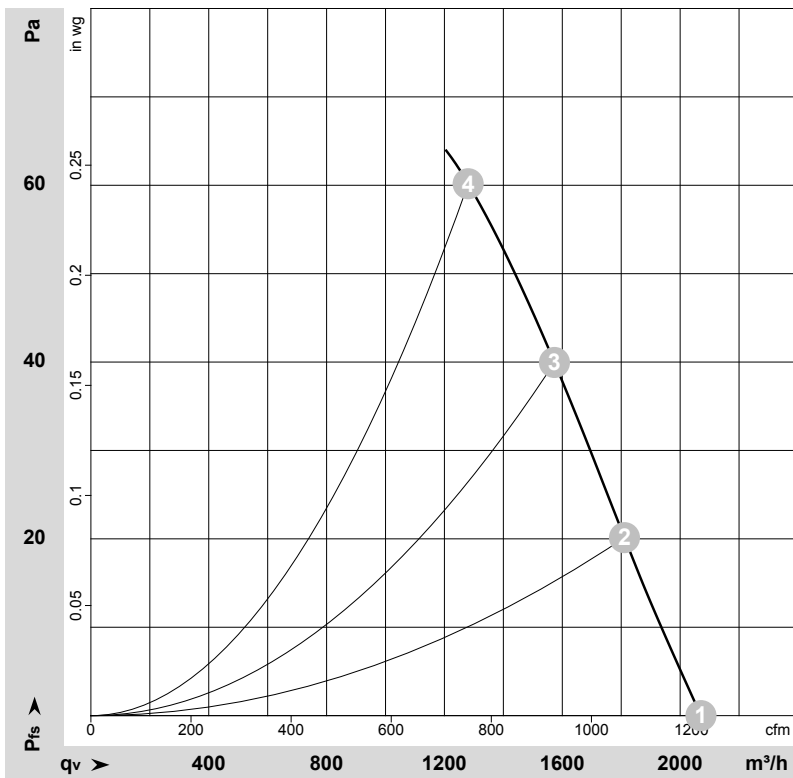
U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Intake sound pressure level  
 LwA<sub>in</sub> = Intake sound power level · q<sub>v</sub> = Air flow · p<sub>s</sub> = Pressure increase



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## Curves: Air performance 60 Hz



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

Measurement: LU-112387-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters must be checked in the installed unit.

## Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | LpA <sub>in</sub> | LwA <sub>in</sub> | q <sub>v</sub> | P <sub>fs</sub> | q <sub>v</sub> | P <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-------------------|----------------|-----------------|----------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | dB(A)             | dB(A)             | m³/h           | Pa              | cfm            | in. wg          |
| 1 | 230 | 60 | 1595              | 78             | 0.34 | 56                | 63                | 2070           | 0               | 1220           | 0.00            |
| 2 | 230 | 60 | 1560              | 83             | 0.36 | 55                | 62                | 1810           | 20              | 1065           | 0.08            |
| 3 | 230 | 60 | 1535              | 86             | 0.37 | 55                | 62                | 1575           | 40              | 925            | 0.16            |
| 4 | 230 | 60 | 1500              | 90             | 0.40 | 55                | 62                | 1280           | 60              | 755            | 0.24            |

U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Intake sound pressure level  
 LwA<sub>in</sub> = Intake sound power level · q<sub>v</sub> = Air flow · p = Pressure increase

