

A4E300-AR26-33 ebmpapst Datasheet

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Nominal data

| | | | |
|-----------------------------|-------------------|---------|---------|
| Type | A4E300-AR26-33 | | |
| Motor | M4E068-CF | | |
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Method of obtaining data | | fa | fa |
| Valid for approval/standard | | CE | CE |
| Speed (rpm) | min ⁻¹ | 1380 | 1570 |
| Power consumption | W | 70 | 95 |
| Current draw | A | 0.32 | 0.42 |
| Capacitor | µF | 2 | 2 |
| Capacitor voltage | VDB | 400 | 400 |
| Capacitor standard | | S2 (CE) | S2 (CE) |
| Max. back pressure | Pa | 60 | 70 |
| Max. back pressure | in. wg | 0.24 | 0.28 |
| Min. ambient temperature | °C | -40 | -40 |
| Max. ambient temperature | °C | 55 | 45 |
| Starting current | A | 0.64 | 0.64 |

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



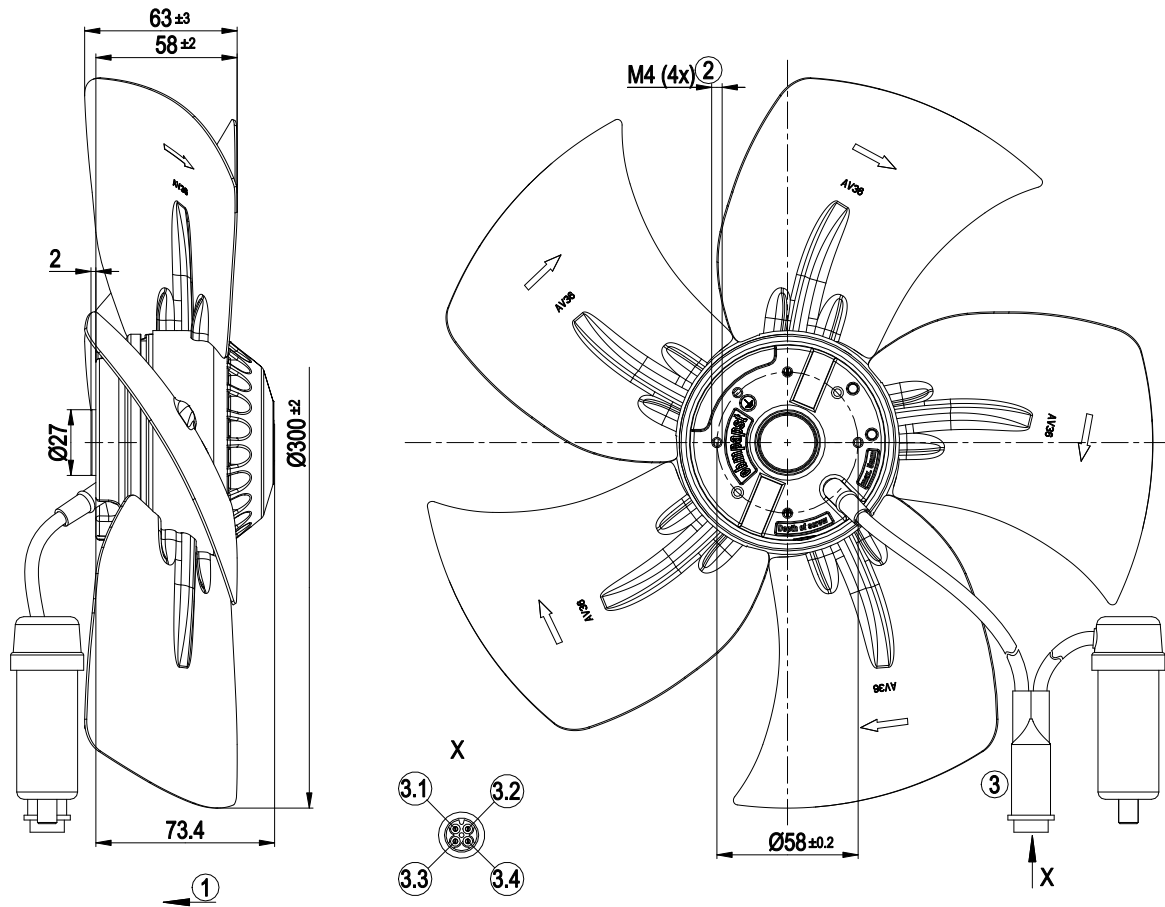
Technical description

| | |
|---|--|
| Weight | 1.92 kg |
| Size | 300 mm |
| Motor size | 68 |
| Rotor surface | Painted black |
| Blade material | Sheet steel, painted black |
| Number of blades | 5 |
| Airflow direction | V |
| Direction of rotation | Counterclockwise, viewed toward rotor |
| Degree of protection | IP44; installation- and position-dependent as per EN 60034-5 |
| Insulation class | "B" |
| Moisture (F) / Environmental (H) protection class | 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 or rotor on bottom; rotor on top on request |
| Condensation drainage holes | On rotor side |
| 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 |
| Electrical hookup | Connector with cable |
| Motor protection | Thermal overload protector (TOP) internally connected |
| With cable | Variable |
| Protection class assignment | I; If a protective earth is connected by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection. |
| Motor capacitor according to EN 60252-1 in safety protection class | S2 |
| Conformity with standards | EN 60335-1; EN 60034-1; EN 60204-1; CE; UKCA |

AC axial fan

sickle-shaped blades (S series), single-intake

Product drawing



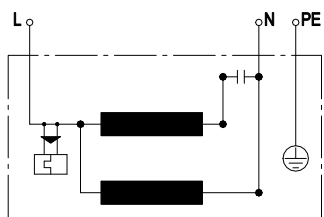
| | |
|-----|--|
| 1 | Airflow direction "V" |
| 2 | Max. clearance for screw 5 mm |
| 3 | Cable silicone 4G 0.5 mm ² , 4-pole connector housing tyco 925075-7, 2x plug pin tyco 163555-6, 2x plug pin tyco 163303-8 |
| 3.1 | brown + capacitor |
| 3.2 | black + capacitor |
| 3.3 | green/yellow |
| 3.4 | blue |



AC axial fan

sickle-shaped blades (S series), single-intake

Connection diagram



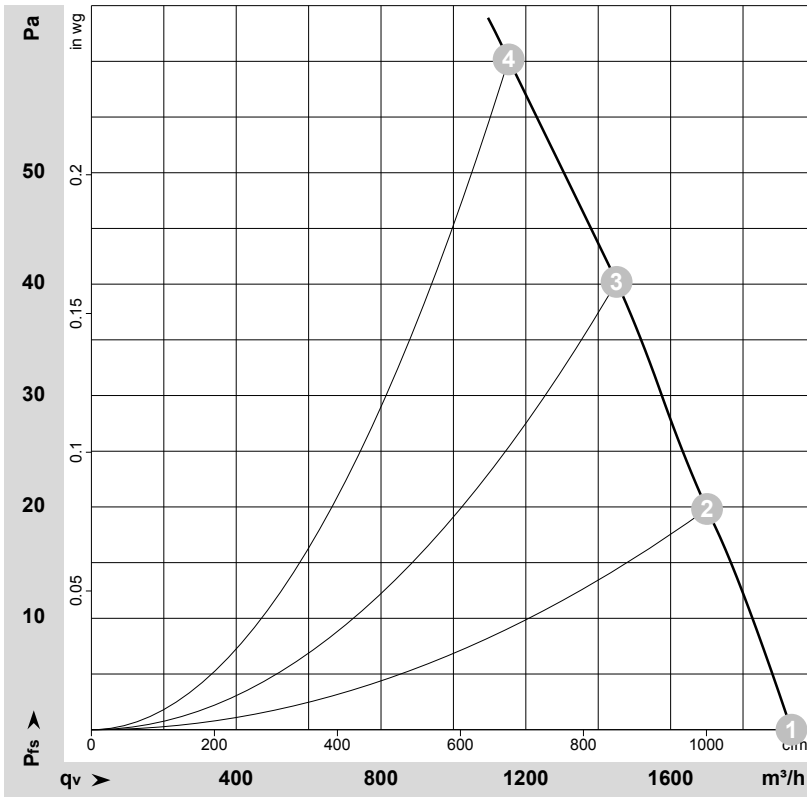
| | | | | | |
|---|------|---|-------|----|--------------|
| L | blue | N | black | PE | green/yellow |
|---|------|---|-------|----|--------------|



AC axial fan

sickle-shaped blades (S series), single-intake

Curves: Air performance 50 Hz



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

Measurement: LU-74683-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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 have to be checked on the installed unit.

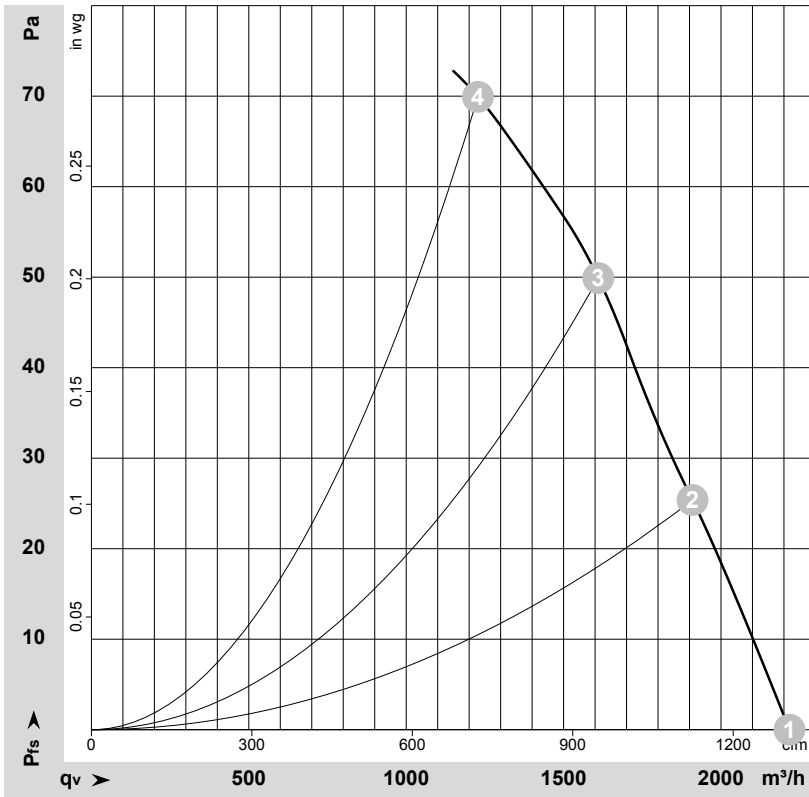
Measured values

| | U | f | n | P _e | I | LpA _{in} | q _v | p _{fs} | q _v | p _{fs} |
|---|-----|----|-------------------|----------------|------|-------------------|-------------------|-----------------|----------------|-----------------|
| | V | Hz | min ⁻¹ | W | A | dB(A) | m ³ /h | Pa | cfm | in. wg |
| 1 | 230 | 50 | 1380 | 70 | 0.32 | 57 | 1935 | 0 | 1140 | 0.00 |
| 2 | 230 | 50 | 1370 | 72 | 0.32 | 57 | 1700 | 20 | 1000 | 0.08 |
| 3 | 230 | 50 | 1355 | 76 | 0.33 | 55 | 1450 | 40 | 855 | 0.16 |
| 4 | 230 | 50 | 1330 | 80 | 0.35 | 52 | 1155 | 60 | 680 | 0.24 |

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · q_v = Air flow · p_{fs} = Pressure increase



Curves: Air performance 60 Hz



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

Measurement: LU-74684-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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 have to be checked on the installed unit.

Measured values

| | U | f | n | P _e | I | LpA _{in} | q _v | P _{fs} | q _v | P _{fs} |
|---|-----|----|-------------------|----------------|------|-------------------|-------------------|-----------------|----------------|-----------------|
| | V | Hz | min ⁻¹ | W | A | dB(A) | m ³ /h | Pa | cfm | in. wg |
| 1 | 230 | 60 | 1570 | 95 | 0.42 | 61 | 2215 | 0 | 1305 | 0.00 |
| 2 | 230 | 60 | 1540 | 99 | 0.43 | 60 | 1910 | 25 | 1125 | 0.10 |
| 3 | 230 | 60 | 1500 | 103 | 0.45 | 58 | 1610 | 50 | 950 | 0.20 |
| 4 | 230 | 60 | 1425 | 109 | 0.47 | 55 | 1230 | 70 | 725 | 0.28 |

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · q_v = Air flow · P_{fs} = Pressure increase

