

A4D350-AA06-01

AC axial fan

straight blades (A series)



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Nominal data

| | | | | | |
|-----------------------------|-------------------|------|------|------|------|
| Type | A4D350-AA06-01 | | | | |
| Motor | M4D068-EC | | | | |
| Phase | | 3~ | 3~ | 3~ | 3~ |
| Nominal voltage | VAC | 230 | 230 | 400 | 400 |
| Wiring | | Δ | Δ | Y | Y |
| Frequency | Hz | 50 | 60 | 50 | 60 |
| Method of obtaining data | | fa | fa | fa | fa |
| Valid for approval/standard | | - | - | - | - |
| Speed (rpm) | min ⁻¹ | 1420 | 1620 | 1420 | 1620 |
| Power consumption | W | 145 | 190 | 145 | 190 |
| Current draw | A | 0.68 | 0.62 | 0.39 | 0.36 |
| Max. back pressure | Pa | 150 | 150 | 150 | 150 |
| Max. back pressure | in. wg | 0.6 | 0.6 | 0.6 | 0.6 |
| Min. ambient temperature | °C | -25 | -25 | -25 | -25 |
| Max. ambient temperature | °C | 50 | 50 | 50 | 50 |

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

Data according to Commission Regulation (EU) 327/2011

| | | Actual | Req. 2015 | | |
|-----------------------------------|---|--------|-----------|-------------------------------|------------------------|
| 01 Overall efficiency η_{es} | % | 28.5 | 28.5 | 09 Power consumption P_e | kW 0.15 |
| 02 Measurement category | | A | | 09 Air flow q_v | m ³ /h 2015 |
| 03 Efficiency category | | Static | | 09 Pressure increase p_{fs} | Pa 75 |
| 04 Efficiency grade N | | 40 | 40 | 10 Speed (rpm) n | min ⁻¹ 1390 |
| 05 Variable speed drive | | No | | 11 Specific ratio* | 1.00 |

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_g / 100\,000\text{ Pa}$

LU-64797



AC axial fan

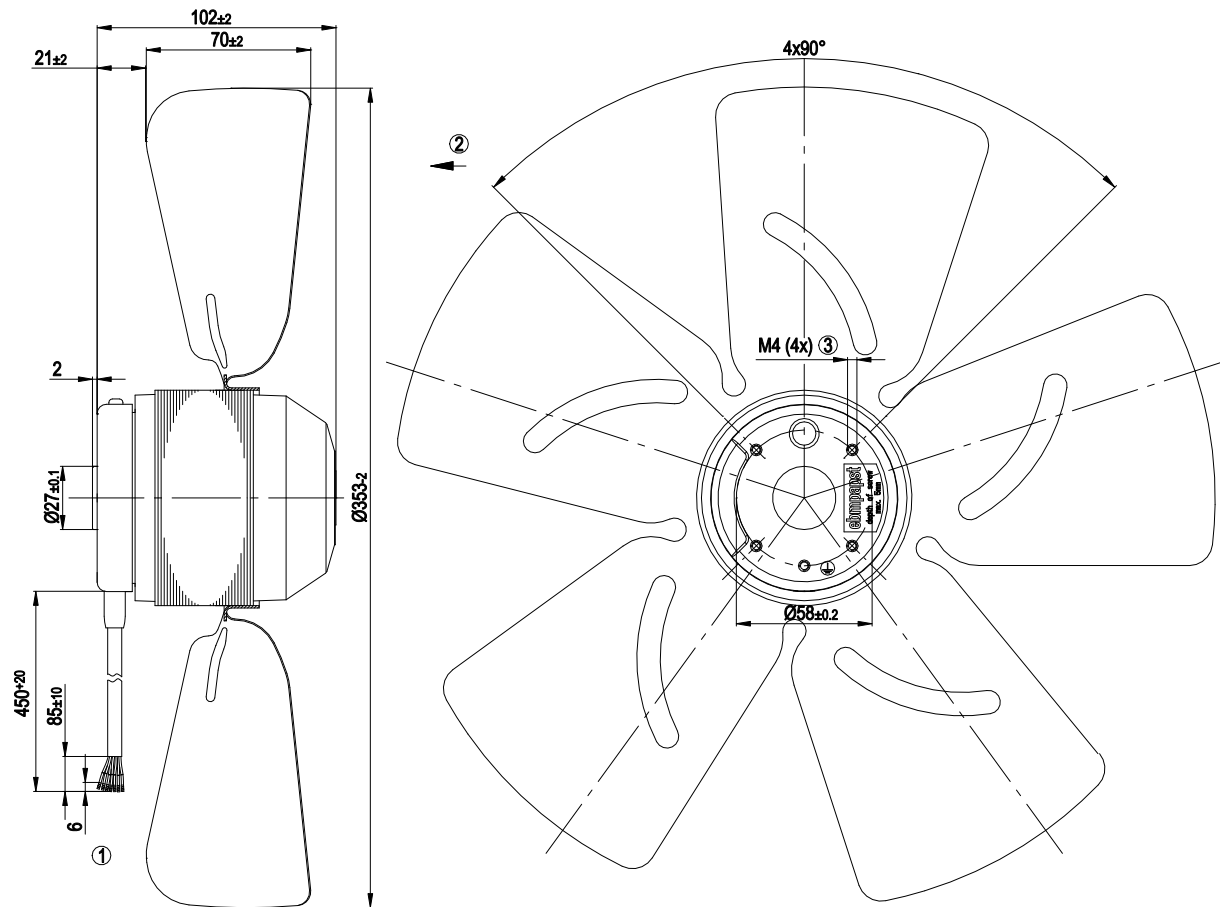
straight blades (A series)

Technical description

| | |
|--|--|
| Weight | 3.1 kg |
| Fan size | 350 mm |
| Rotor surface | Painted black |
| Impeller 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) | + 80 °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 |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | < 0.75 mA |
| With cable | Lateral |
| Protection class | I (with customer connection of protective earth) |
| Conformity with standards | EN 60335-1 |
| Approval | EAC |

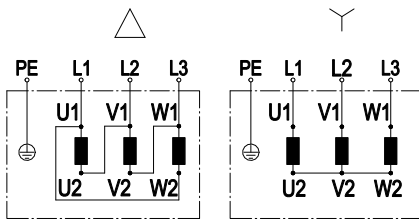


Product drawing



| | |
|---|---|
| 1 | Cable PVC 7G 0.5 mm ² , 7x crimped splices |
| 2 | Direction of air flow "V" |
| 3 | Max. clearance for screw 5 mm |

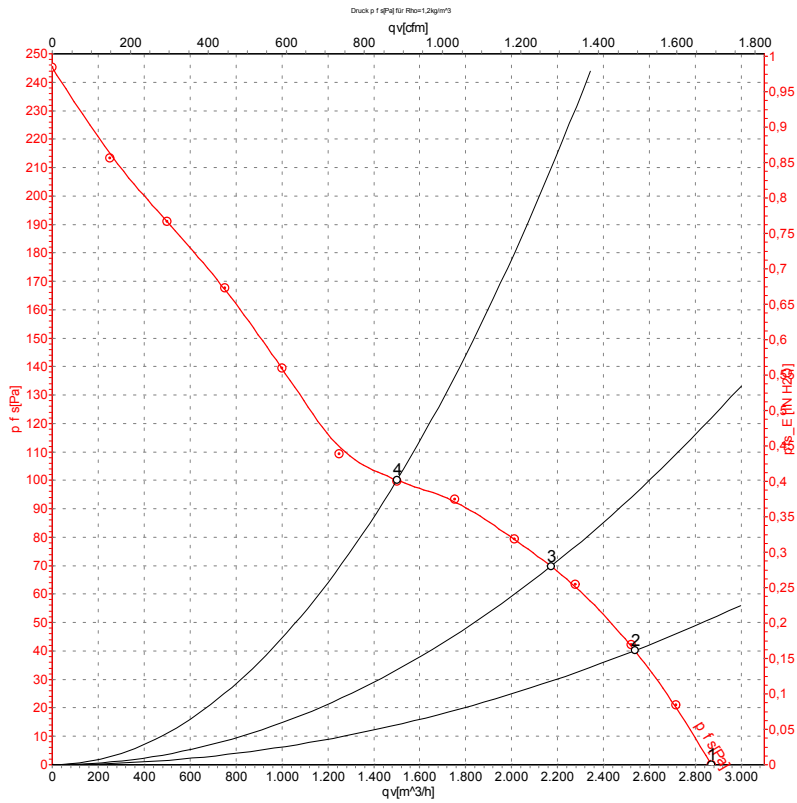
Connection diagram



Change of rotation direction by reversing two phases

| | | | | | |
|----|-------------------|----|------------------|----|-----------------|
| | Three-phase motor | Δ | Delta connection | Y | Star connection |
| L1 | = U1 = black | L2 | = V1 = blue | L3 | = W1 = brown |
| U2 | green | V2 | white | W2 | yellow |
| PE | green/yellow | | | | |

Curves: Air performance 50 Hz



Measurement: LU-64797-1

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 have to be checked on the installed unit.

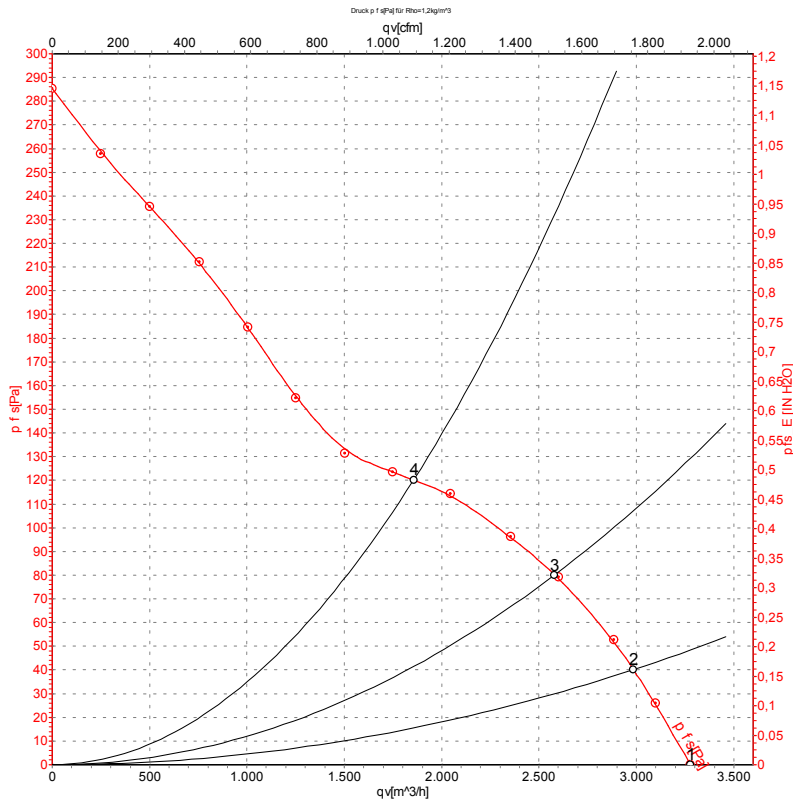
Measured values

| | U | f | n | P _e | I | q _v | p _{fs} | q _v | p _{fs} |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|----------------|-----------------|
| | V | Hz | min ⁻¹ | W | A | m ³ /h | Pa | cfm | in. wg |
| 1 | 400 | 50 | 1420 | 128 | 0.39 | 2870 | 0 | 1690 | 0.00 |
| 2 | 400 | 50 | 1405 | 141 | 0.40 | 2535 | 40 | 1495 | 0.16 |
| 3 | 400 | 50 | 1395 | 150 | 0.41 | 2170 | 70 | 1280 | 0.28 |
| 4 | 400 | 50 | 1385 | 158 | 0.41 | 1500 | 100 | 885 | 0.40 |

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



Curves: Air performance 60 Hz



Measurement: LU-64798-1

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 have to be checked on the installed unit.

Measured values

| | U | f | n | P _e | I | q _v | P _{is} | q _v | P _{is} |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|----------------|-----------------|
| | V | Hz | min ⁻¹ | W | A | m ³ /h | Pa | cfm | in. wg |
| 1 | 400 | 60 | 1620 | 169 | 0.36 | 3280 | 0 | 1930 | 0.00 |
| 2 | 400 | 60 | 1605 | 185 | 0.36 | 2985 | 40 | 1755 | 0.16 |
| 3 | 400 | 60 | 1580 | 202 | 0.38 | 2580 | 80 | 1520 | 0.32 |
| 4 | 400 | 60 | 1560 | 217 | 0.39 | 1855 | 120 | 1090 | 0.48 |

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · P_{is} = Pressure increase

