AC axial fans

AC axial fan overview
AC axial fans
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Technical information

Product line
The renowned ebm-papst AC fans are used when DC voltage is not available. The AC range of fans is based on experience gained from decades of development know-how, millions of units in series production, and the innovation competence of a world-wide technology pioneer.

In this catalog, we offer you the broad spectrum of our AC fans. In addition to complete systems, you will also find fans without external housing. They offer economic benefits whenever the air duct design can be integrated in the respective device.

Variety of sizes
AC fans are available in a variety of sizes with either air exhaust or air intake over struts. Silent running models with sleeve bearings. Electrical connection with plug connection or external exposed connection wires are available.

Shaded-pole or capacitor motors
Fan drives by shaded-pole or capacitor motors, most of which incorporate the world-famous ebm-papst external rotor principle. The fan blades are directly attached to the external rotor of the external rotor motor. This construction combining high performance with profitability.

Flat built AC fans
ebm-papst also has AC fans with a particularly flat construction and an internal rotor motor. Their advantage: quick start to full speed. A plastic impeller and the smaller and lighter internal rotor motor result in lower rotational inertia.

Bearings
AC fans with sleeve bearings are powered by Class E insulated motors. Fans with ball bearings are equipped with Class B, E, or F insulated motors.

Degree of protection
All ebm-papst fans conform to the requirements of IP 20. IP 54 / IP 65 and special degrees of protection are available on request.

AC voltage
The line of AC fans for Euro voltage according to IEC 60038 (230 V ± 10 %) is also available in 115 V.

Frequencies
AC fans can be operated at frequencies of 50 or 60 Hz. In this case, their technical data changes accordingly.

Capacitor
Fans driven by capacitor external motors provide particularly high operating efficiency. Generally, the required motor run capacitor is already integrated in the fan housing.

Overloading
Almost all AC fans are protected against overloading (e. g. due to locked rotor) – either impedance protected (marked “Impedance protected” or “Z. P.”) or equipped with a thermal switch (marked “Thermally protected” or “Th. P.”). The model designation of these fans ends with “S”.

Technical data changes accordingly.
### Overview of air performance

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>mm</th>
<th>Series</th>
<th>Air flow m³/h</th>
<th>P</th>
<th>Speed signal</th>
<th>Moisture protection</th>
<th>Sleeve bearings</th>
<th>Ball bearings</th>
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Subject to change

### Overview of technically feasible designs

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<th>Series</th>
<th>VDE, UL, CSADimensions</th>
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Subject to change

• available — not yet available  ■ Sleeve bearings  ■ Ball bearings
- **Material:** Housing: Die-cast aluminum
  Impeller: painted sheet steel

- **Direction of air flow:** Exhaust over struts

- **Direction of rotation:** Clockwise, looking towards rotor

- **Connection:** Via 2 single wires

- **Weight:**
  - 490 g

- **Note:**
  Please note our new ACmaxx series.
  With identical mounting dimensions and voltages, this series achieves greater energy efficiency.
  See page 188.

### Series 8000 N

<table>
<thead>
<tr>
<th>Type</th>
<th>m³/h</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>Frequency</th>
<th>Sound pressure level</th>
<th>Sound power level</th>
<th>Slipper sleeve bearing</th>
<th>Ball bearing</th>
<th>Power consumption</th>
<th>Nominal speed</th>
<th>Temperature range</th>
<th>Service life L10 at 40 °C</th>
<th>at T max</th>
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### Fan type

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**Nominal data:**
- **Air performance measured according to:** ISO 5801.
- **Installation category A, without contact protection.**
- **Noise:** Total sound power level $L_{WA}$ ISO 10300 measured on a hemisphere with a radius of 2 m.
- **Sound pressure level $L_{PA}$ measured at 1 m distance from fan axis.**
- The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
- In the event of deviation from the standard configuration, the parameters must be checked after installation!
- **Possible special versions:** (See page 12)
  - Moisture protection
  - Salt spray protection
  - Degree of protection: IP 54 / IP 65

### Subject to change

### Nominal data

- **Nominal speed:**
  - 1 750 rpm
  - 2 150 rpm
  - 2 700 rpm
  - 2 800 rpm
  - 3 200 rpm
  - 3 300 rpm

- **Nominal speed:**
  - 1 950 rpm
  - 2 500 rpm
  - 3 200 rpm
  - 3 300 rpm

- **Nominal speed:**
  - 1 750 rpm
  - 2 150 rpm
  - 2 700 rpm
  - 2 800 rpm
  - 3 300 rpm

Air performance measured according to ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level $L_{WA}$ ISO 10300 measured on a hemisphere with a radius of 2 m.
Sound pressure level $L_{PA}$ measured at 1 m distance from fan axis.

The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

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Subject to change
AC axial fans

Max. 47 m³/h

Ø 76 x 37 mm

- Material: Impeller: Die-cast aluminum
  Mounting bracket: Metal
- Direction of air flow: Exhaust over mounting bracket
- Direction of rotation: Clockwise, looking towards rotor
- Connection: Via 2 single wires
- Weight: 370 g
- Possible special versions:
  (See page 12)
  - Moisture protection
  - Salt spray protection
  - Degree of protection: IP 54 / IP 65

Series 8000 TV

<table>
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<th>Air flow</th>
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<th>Frequency</th>
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<th>Power consumption</th>
<th>Nominal speed</th>
<th>Temperature range</th>
<th>Service life L10 at 40 °C</th>
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Subject to change

The air flow and sound level of fans without external housing depend on the installation conditions.
The stated air flow and noise have been measured with an orifice 76.5 mm Ø at a distance of approx. 17 mm from the mounting bracket.
The air flow capacity of fan series 8000 N is achievable because of the exceptionally favorable installation conditions. The noise in the optimal operating range can be measured for these fans only in a specific application.
Max. 70 m³/h

AC axial fans

- Material: Housing: Die-cast aluminum
  Impeller: Mineral-reinforced PA plastic

- Direction of air flow: Exhaust over struts

- Direction of rotation: Counterclockwise, looking towards rotor

- Connection: Via 2 flat plugs 2.8 x 0.5 mm grounding lug for M4

- Weight: 280 g

- Note: Please note our new ACmaxx series.
  With identical mounting dimensions and voltages, this series achieves greater energy efficiency.
  See page 189.

- Possible special versions:
  (See page 12)
  - Moisture protection

Series 3900

Nominal data

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<th>Bel(A)</th>
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</table>

Subject to change

Air performance measured according to ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level LWA ISO 10300 measured on a hemisphere with a radius of 2 m.
Sound pressure level LpA measured at 1 m distance from fan axis.
The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions

Finger guards from p. 242
Cables P. 255
Max. 89 m³/h

AC axial fans

- **Material:** Housing: Die-cast aluminum
- **Impeller:** painted sheet steel
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Clockwise.
- **Connection:** Via 2 single wires grounding lug for M4 x 8
- **Weight:** 420 g

- **Possible special versions:** (See page 12)
  - Moisture protection
  - Salt spray protection
  - Degree of protection: IP 54 / IP 65

**Note:** Please note our new ACmaxx series.
With identical mounting dimensions and voltages, this series achieves greater energy efficiency.
See page 189.

### Series 3000

#### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>m³/h</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>dB(A)</th>
<th>Bel(A)</th>
<th>Watts</th>
<th>rpm³</th>
<th>°C</th>
<th>Hours</th>
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<td>55 000 / 25 000</td>
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</table>

Subject to change

#### Fan type

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<th>Fan type</th>
<th>Length &quot;L&quot;</th>
<th>Connection wires</th>
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</thead>
<tbody>
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<td>With sleeve bearings</td>
<td>310 mm long</td>
<td>AWG 18, TR 64</td>
</tr>
<tr>
<td>With ball bearings</td>
<td>310 mm long</td>
<td>AWG 18</td>
</tr>
</tbody>
</table>

Air performance measured according to ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level LWA ISO 103002 measured on a hemisphere with a radius of 2 m.
Sound pressure level LpA measured at 1 m distance from fan axis.
The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions
Air performance measured according to:
ISO 5801.
Installation category A, without contact protection.
Noise:
Total sound power level $L_{WA}$ ISO 10300-2
measured on a hemisphere with a radius of 2 m.
Sound pressure level $L_{PA}$ measured at 1 m distance
from fan axis.
The values given are applicable only under the specified
measuring conditions and may differ depending on the
installation conditions.
In the event of deviation from the standard configuration,
the parameters must be checked after installation!
For detailed information see
http://www.ebmpapst.com/general conditions

### Possible special versions:
(See page 12)
- Moisture protection

### Material:
Housing: Die-cast aluminum
Impeller: Mineral-reinforced PA plastic

### Direction of air flow:
Exhaust over struts

### Direction of rotation:
Counterclockwise, looking towards rotor

### Connection:
Via 2 flat plugs 2.8 x 0.5 mm grounding lug for M4

### Weight:
320 g

### Note:
Please note our new ACmaxx series.
With identical mounting dimensions and voltages, this
series achieves greater energy efficiency.
See page 192.

## Series 9900

<table>
<thead>
<tr>
<th>Type</th>
<th>m³/h</th>
<th>cfm</th>
<th>Nominal voltage</th>
<th>Frequency</th>
<th>Sound pressure level</th>
<th>Sound power level</th>
<th>Side seal bearing</th>
<th>Ball bearing</th>
<th>Power consumption</th>
<th>Nominal speed</th>
<th>Temperature range</th>
<th>Service life (L₁₀)</th>
<th>at $T_{max}$</th>
<th>Curve</th>
</tr>
</thead>
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<tr>
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<td>4.4</td>
<td>9.5</td>
<td>1850</td>
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<td>35</td>
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<td>52 500 / 25 000</td>
<td>(6)</td>
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</table>

Subject to change
AC axial fans

Max. 180 m³/h

- Material: Housing: Die-cast aluminum
- Direction of air flow: Intake over struts
- Direction of rotation: Clockwise, looking towards rotor
- Connection: Via 2 flat plugs 2.8 x 0.5 mm grounding lug for M4
- Weight: 550 g
- Note: Please note our new ACmaxx series. With identical mounting dimensions and voltages, this series achieves greater energy efficiency. See page 192.

Available as an option:
- Versions with reinforced mounting flanges and exposed external single wires.
- Possible special versions:
  - Speed signal
  - Moisture protection
  - Salt spray protection
  - Degree of protection: IP 54 / IP 65

Series 4000 N

<table>
<thead>
<tr>
<th>Type</th>
<th>m³/h</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>dB(A)</th>
<th>Bel(A)</th>
<th>Watts</th>
<th>rpm¹</th>
<th>°C</th>
<th>Hours at Tₘ₉₀</th>
<th>Hours at Tₘ₆₀</th>
<th>Curve</th>
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Subject to change

Air performance measured according to ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level LWA ISO 103002 measured on a hemisphere with a radius of 2 m.
Sound pressure level LpA measured at 1 m distance from fan axis.
The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions
Air performance measured according to: ISO 5801. Installation category A, without contact protection.

Noise: Total sound power level $L_{WA}$ ISO 10300 measured on a hemisphere with a radius of 2 m.

Sound pressure level $L_{pA}$ measured at 1 m distance from fan axis.

The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.

In the event of deviation from the standard configuration, the parameters must be checked after installation!

For detailed information see http://www.ebmpapst.com/general conditions

Subject to change

### Possible special versions:

- Speed signal
- Moisture protection
- Salt spray protection
- Degree of protection: IP 54 / IP 65

Series 4000 Z

<table>
<thead>
<tr>
<th>Type</th>
<th>Air flow m³/h</th>
<th>Air flow cfm</th>
<th>Nominal voltage VAC</th>
<th>Frequency Hz</th>
<th>Sound pressure level dB(A)</th>
<th>Sound power level Bel(A)</th>
<th>Ball bearing</th>
<th>Power consumption Watts</th>
<th>Nominal speed rpm⁻¹</th>
<th>Temperature range °C</th>
<th>Service life L₁₀ at 40°C Hours</th>
<th>at T max Hours</th>
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<tbody>
<tr>
<td>4850 Z</td>
<td>100</td>
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<td>230</td>
<td>50</td>
<td>26</td>
<td>4.0</td>
<td></td>
<td>13.0</td>
<td>1 700</td>
<td>-10...+65</td>
<td>50 000 / 27 500</td>
<td>1700</td>
</tr>
<tr>
<td>4856 Z</td>
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<td>13.0</td>
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<td></td>
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<td>1 900</td>
<td>-10...+65</td>
<td>50 000 / 27 500</td>
<td>1900</td>
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<tr>
<td>4586 Z</td>
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<td>230</td>
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<td>50</td>
<td>40</td>
<td>5.3</td>
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<td>-10...+50</td>
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<tr>
<td>4656 Z</td>
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<td>230</td>
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Subject to change

### Nominal data

<table>
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<th>Type</th>
<th>m³/h</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>dB(A)</th>
<th>Bel(A)</th>
<th>Watts</th>
<th>rpm⁻¹</th>
<th>°C</th>
<th>Hours</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>4850 Z</td>
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<td>4.3</td>
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<td>-10</td>
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<td>1 900</td>
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<tr>
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<td>-10</td>
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<td>3 100</td>
<td>-10</td>
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<tr>
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<td>115</td>
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<td>5.6</td>
<td>18.0</td>
<td>3 100</td>
<td>-40</td>
<td>40 000</td>
<td>15 000</td>
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</tbody>
</table>

Subject to change

### Material:
- Housing: Die-cast aluminum
- Impeller: painted sheet steel

### Direction of air flow:
- Exhaust over struts

### Direction of rotation:
- Clockwise, looking towards rotor

### Connection:
- Via 2 flat plugs 2.8 x 0.5 mm grounding lug for M4 x 8

### Weight:
- 540 g

### Note:
Please note our new ACmaxx series. With identical mounting dimensions and voltages, this series achieves greater energy efficiency. See page 192.

### Finger guards
from p. 242

### Cables
P. 255
AC axial fans
Ø 108 x 37 mm

- Material: Impeller: Die-cast aluminum
  Mounting bracket: Metal

- Direction of air flow: Exhaust over mounting bracket

- Direction of rotation: Clockwise, looking towards rotor

- Connection: Via 2 single wires

- Weight: 430 g

**Series 4600 TZ**

<table>
<thead>
<tr>
<th>Type</th>
<th>Air flow</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>dB(A)</th>
<th>Watts</th>
<th>rpm</th>
<th>°C</th>
<th>Hours</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>73.6</td>
<td>230</td>
<td>50</td>
<td>42</td>
<td>□</td>
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<td>-10...+50</td>
<td>37 500 / 30 000</td>
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<td>4656 TZ</td>
<td>125</td>
<td>73.6</td>
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<td>50</td>
<td>42</td>
<td>■</td>
<td>19.0</td>
<td>2 600</td>
<td>-40...+65</td>
<td>37 500 / 20 000</td>
</tr>
<tr>
<td>4600 TZ</td>
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<td>82.4</td>
<td>115</td>
<td>60</td>
<td>45</td>
<td>□</td>
<td>18.0</td>
<td>2 950</td>
<td>-10...+50</td>
<td>40 000 / 32 500</td>
</tr>
<tr>
<td>4606 TZ</td>
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<td>115</td>
<td>60</td>
<td>45</td>
<td>■</td>
<td>18.0</td>
<td>2 950</td>
<td>-40...+75</td>
<td>40 000 / 17 500</td>
</tr>
</tbody>
</table>

Subject to change

The air flow and sound level of fans without external housing depends on the installation conditions. The stated air flow and noise have been measured with an orifice 109 mm Ø at a distance of approx. 17 mm from the mounting bracket. The air flow capacity of fan series 4000 Z is achievable because of the exceptionally favorable installation conditions. The noise in the optimal operating range can be measured for these fans only in a specific application.

**Fan type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Connection wires</th>
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<tbody>
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<td>AWG 22, TR 32</td>
</tr>
<tr>
<td>4656 TZ</td>
<td>4606 TZ</td>
</tr>
</tbody>
</table>

- Possible special versions: (See page 12)
  - Moisture protection
  - Salt spray protection
  - Degree of protection: IP 54 / IP 65
Max. 206 m³/h

AC axial fans

- Material: Housing: Die-cast aluminum
- Impeller: GRP\(^1\) (PA)
- Direction of air flow: Exhaust over struts
- Direction of rotation: Counterclockwise, looking towards rotor
- Connection: Via 2 flat plugs 2.8 x 0.8 mm grounding lug for M4 x 6
- Weight: 570 g

Possible special versions:
(See page 12)
- Moisture protection

### Series 5900

<table>
<thead>
<tr>
<th>Type</th>
<th>Air flow</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>Sound pressure level</th>
<th>Sound power level</th>
<th>Power consumption</th>
<th>Nominal speed</th>
<th>Temperature range</th>
<th>Service life L10 at 40 °C</th>
<th>aiT max</th>
<th>Curve</th>
</tr>
</thead>
<tbody>
<tr>
<td>5988</td>
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<td>35 000 / 20 000</td>
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<td></td>
</tr>
<tr>
<td>5950</td>
<td>180</td>
<td>106</td>
<td>230</td>
<td>50</td>
<td>43</td>
<td>5.4</td>
<td>18.0</td>
<td>2 700</td>
<td>-20...+50</td>
<td>40 000 / 32 500</td>
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<td>5958</td>
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<td>4.9</td>
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<td>2 500</td>
<td>-30...+55</td>
<td>35 000 / 20 000</td>
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<td>3 050</td>
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<td>206</td>
<td>121</td>
<td>115</td>
<td>60</td>
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<td>5.8</td>
<td>17.0</td>
<td>3 100</td>
<td>-30...+75</td>
<td>42 500 / 20 000</td>
<td></td>
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</tbody>
</table>

Subject to change

1) Fiberglass-reinforced plastic

Air performance measured according to ISO 5801, Installation category A, without contact protection.
Noise: Total sound power level L\(\text{WA,ISO}\) 103002 measured on a hemisphere with a radius of 2 m.
Sound pressure level L\(\text{pA}\) measured at 1 m distance from fan axis.
The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions
Max. 270 m³/h

AC axial fans

- **Material:** Housing: Die-cast aluminum
- **Direction of air flow:** Impeller: painted sheet steel
- **Direction of rotation:** Exhaust over struts
- **Connection:** Counterclockwise, looking towards rotor
- **Weight:** Via 2 flat plugs 2.8 x 0.5 mm grounding lug for M4 x 8
- **Possible special versions:**
  - Moisture protection
  - Salt spray protection
  - Degree of protection: IP 54

### Series 5600

<table>
<thead>
<tr>
<th>Type</th>
<th>Air flow m³/h</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>dB(A)</th>
<th>Belt(A)</th>
<th>Watts</th>
<th>rpm</th>
<th>°C</th>
<th>Hours at T10</th>
<th>Hours at Tmax</th>
<th>Curve</th>
</tr>
</thead>
<tbody>
<tr>
<td>5656 S</td>
<td>235</td>
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<td>230</td>
<td>50</td>
<td>46</td>
<td>5.9</td>
<td>30.0</td>
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<td>270</td>
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<td>115</td>
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<td>50</td>
<td>6.2</td>
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<td>-35...+80</td>
<td>47 500 / 20 000</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Subject to change

Air performance measured according to ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level predicted according to ISO 10303-2 measured on a hemisphere with a radius of 2 m.
Sound pressure level measured at 1 m distance from fan axis.
The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
In the event of deviation from the standard configuration, the parameters must be checked after installation.
For detailed information see http://www.ebmpapst.com/general conditions.

- **Material:** Housing: Die-cast aluminum
- **Impeller:** Painted sheet steel
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counterclockwise, looking towards rotor
- **Connection:** Via 2 flat plugs 2.8 x 0.5 mm grounding lug for M4 x 8
- **Weight:** 800 g

---

Subject to change

Finger guards from p. 242
Cables P. 255

2016-01
Information
DC axial fans
DC fans - specials
ACmaxx / EC fans
AC axial fans
DC centrifugal fans
Accessories
Representatives
Air performance measured according to: ISO 5801. Installation category A, without contact protection.

- **Material:** Housing: Die-cast aluminum
  Impeller: painted sheet steel
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counterclockwise, looking towards rotor
- **Connection:** Via 2 flat plugs 2.8 x 0.5 mm grounding lug for M4 x 8
- **Weight:** 900 g
- **Note:** Please note our new ACmaxx series. With identical mounting dimensions and voltages, this series achieves greater energy efficiency. See pages 194, 196, and 198.

### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Air flow m³/h</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>dB(A)</th>
<th>Bel(A)</th>
<th>Watts</th>
<th>rpm⁻¹</th>
<th>°C</th>
<th>Hours</th>
<th>Hours</th>
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<td>51</td>
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<td>380</td>
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<td>56</td>
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<td>3350</td>
<td>-25...+65</td>
<td>55 000/18 000</td>
<td></td>
</tr>
</tbody>
</table>

Subject to change

![AC axial fans](150 x 172 x 38 mm)

- **Finger guards**: from p. 242
- **Cables**: P. 255

Air performance measured according to ISO 5801. Installation category A, without contact protection. Noise: Total sound power level $L_{WA}$ ISO 10300 measured on a hemisphere with a radius of 2 m. Sound pressure level $L_{pA}$ measured at 1 m distance from fan axis.

The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.

In the event of deviation from the standard configuration, the parameters must be checked after installation!

For detailed information see: http://www.ebmpapst.com/general conditions
Max. 380 m³/h

AC axial fans
Ø 150 x 55 mm

- **Material:** Housing: Die-cast aluminum
- **Impeller:** Painted sheet steel
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counterclockwise, looking towards rotor
- **Connection:** Via 2 single wires with wire end splices grounding lug for M4 x 8
- **Weight:** 1.1 kg
- **Note:** Please note our new ACmaxx series. With identical mounting dimensions and voltages, this series achieves greater energy efficiency. See page 194.

Series 7800

<table>
<thead>
<tr>
<th>Nominal data</th>
<th>m³/h</th>
<th>cfm</th>
<th>VAC</th>
<th>Hz</th>
<th>dB(A)</th>
<th>Bel(A)</th>
<th>Watts</th>
<th>rpm</th>
<th>°C</th>
<th>Hours</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Type</td>
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<td>7856 ES</td>
<td>325</td>
<td>191</td>
<td>230</td>
<td>50</td>
<td>49</td>
<td>6.0</td>
<td>45.0</td>
<td>2000</td>
<td>-25...+70</td>
<td>60 000</td>
<td>30 000</td>
</tr>
<tr>
<td>7805 ES</td>
<td>380</td>
<td>224</td>
<td>115</td>
<td>60</td>
<td>53</td>
<td>6.4</td>
<td>38.0</td>
<td>3250</td>
<td>-25...+70</td>
<td>60 000</td>
<td>47 500</td>
</tr>
<tr>
<td>7806 ES</td>
<td>380</td>
<td>224</td>
<td>115</td>
<td>60</td>
<td>53</td>
<td>6.4</td>
<td>38.0</td>
<td>3250</td>
<td>-25...+90</td>
<td>60 000</td>
<td>15 000</td>
</tr>
</tbody>
</table>

Subject to change

Air performance measured according to ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level $L_{WA}$ ISO 10300 measured on a hemisphere with a radius of 2 m.
Sound pressure level $L_{PA}$ measured at 1 m distance from fan axis.
The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see http://www.ebmpapst.com/general conditions.

Finger guards from p. 242
Air performance measured according to: ISO 5801. Installation category A, without contact protection.

Noise: Total sound power level $L_{WA}$ ISO 10300 measured on a hemisphere with a radius of 2 m.

Sound pressure level $L_{pA}$ measured at 1 m distance from fan axis.

The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.

In the event of deviation from the standard configuration, the parameters must be checked after installation!

For detailed information see http://www.ebmpapst.com/general conditions.

---

### Series 7400

<table>
<thead>
<tr>
<th>Type</th>
<th>Air flow $m^3/h$</th>
<th>Air flow cfm</th>
<th>Nominal voltage VAC</th>
<th>Frequency Hz</th>
<th>Sound pressure level $dB(A)$</th>
<th>Sound power level $Bel(A)$</th>
<th>Sinter sleeve bearings</th>
<th>Ball bearings</th>
<th>Power consumption Watts</th>
<th>Nominal speed $rpm^{-1}$</th>
<th>Temperature range $^°C$</th>
<th>Service life L10 at $40^°C$ Hours</th>
<th>at $T_{max}$ Hours</th>
<th>Curve</th>
</tr>
</thead>
<tbody>
<tr>
<td>7450 ES</td>
<td>380</td>
<td>224</td>
<td>230</td>
<td>50</td>
<td>60</td>
<td>6.8</td>
<td>■</td>
<td>■</td>
<td>47.0</td>
<td>2 700</td>
<td>-25...+50</td>
<td>63 000 / 50 000</td>
<td>■</td>
<td></td>
</tr>
<tr>
<td>7400 ES</td>
<td>425</td>
<td>250</td>
<td>115</td>
<td>60</td>
<td>62</td>
<td>6.9</td>
<td>■</td>
<td>■</td>
<td>46.0</td>
<td>3 050</td>
<td>-25...+70</td>
<td>50 000 / 24 000</td>
<td>■</td>
<td></td>
</tr>
</tbody>
</table>

Subject to change
### AC axial fans

**Ø 172 x 51 mm**

- **Material:** Housing: Die-cast aluminum
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counterclockwise, looking towards rotor
- **Connection:** Via 2 flat plugs 2.8 x 0.5 mm grounding lug for M4 x 6
- **Weight:** 1.0 kg
- **Note:** Please note our new ACmaxx series. With identical mounting dimensions and voltages, this series achieves greater energy efficiency. See pages 196 and 198.

### Series 6000

#### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Air flow m³/h</th>
<th>Air flow cfm</th>
<th>Nominal voltage VAC</th>
<th>Frequency Hz</th>
<th>Sound pressure level dB(A)</th>
<th>Sound power level Bel(A)</th>
<th>Watts</th>
<th>rpm⁻¹</th>
<th>°C</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>6058 ES</td>
<td>375</td>
<td>221</td>
<td>230</td>
<td>50</td>
<td>55</td>
<td>5.9</td>
<td>24.0</td>
<td>2 800</td>
<td>-25...+70</td>
<td>62 000 / 31 000</td>
<td></td>
</tr>
<tr>
<td>6078 ES</td>
<td>420</td>
<td>247</td>
<td>230</td>
<td>50</td>
<td>54</td>
<td>6.3</td>
<td>26.0</td>
<td>2 800</td>
<td>-65...+60</td>
<td>62 000 / 39 000</td>
<td></td>
</tr>
<tr>
<td>6008 ES</td>
<td>440</td>
<td>259</td>
<td>115</td>
<td>60</td>
<td>60</td>
<td>6.4</td>
<td>26.0</td>
<td>3 300</td>
<td>-25...+70</td>
<td>57 000 / 28 000</td>
<td></td>
</tr>
<tr>
<td>6028 ES</td>
<td>500</td>
<td>284</td>
<td>115</td>
<td>60</td>
<td>58</td>
<td>6.7</td>
<td>29.0</td>
<td>3 300</td>
<td>-25...+75</td>
<td>57 000 / 22 000</td>
<td></td>
</tr>
</tbody>
</table>

Subject to change

---

Air performance measured according to ISO 5801. Installation category A, without contact protection. Noise: Total sound power level LWA (ISO 10300) measured on a hemisphere with a radius of 2 m. Sound pressure level LpA measured at 1 m distance from fan axis.

The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.

In the event of deviation from the standard configuration, the parameters must be checked after installation!

For detailed information see http://www.ebmpapst.com/general conditions
Max. 1000 m³/h

- **Material:**
  Housing: Die-cast-aluminum
  Impeller: Sheet steel, painted black
  Rotor: Painted black

- **Number of blades:** 7

- **Direction of air flow:** "V"

- **Degree of protection:** IP 44, depending on installation and position

- **Insulation class:** "B"

- **Installation position:** Any

- **Condensation drainage holes:** None

- **Mode of operation:** Continuous operation (S1)

- **Bearings:** Maintenance-free ball bearings

---

### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>VAC</th>
<th>Hz</th>
<th>m³/h</th>
<th>rpm⁻¹</th>
<th>W</th>
<th>A</th>
<th>F/VDB</th>
<th>dB(A)</th>
<th>Pa</th>
<th>°C</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W2E 200-HK86-01</td>
<td>M2E 068-BF</td>
<td>1~115</td>
<td>50</td>
<td>880</td>
<td>2550</td>
<td>64</td>
<td>0.58</td>
<td>5.0/220</td>
<td>80</td>
<td>-25...+60</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1~115</td>
<td>60</td>
<td>1000</td>
<td>2800</td>
<td>80</td>
<td>0.70</td>
<td>5.0/220</td>
<td>95</td>
<td>-25...+65</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>W2E 200-HK38-01</td>
<td>M2E 068-BF</td>
<td>1~230</td>
<td>50</td>
<td>880</td>
<td>2550</td>
<td>64</td>
<td>0.29</td>
<td>1.5/450</td>
<td>80</td>
<td>-25...+60</td>
<td>2.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1~230</td>
<td>60</td>
<td>1000</td>
<td>2800</td>
<td>80</td>
<td>0.35</td>
<td>1.5/450</td>
<td>95</td>
<td>-25...+65</td>
<td>2.1</td>
<td></td>
</tr>
</tbody>
</table>

Subject to change

### Curves:

Air performance measured according to ISO 5801, Installation category A. For detailed information on the measurement setup, contact ebm-papst. Suction-side noise levels: LWA according to ISO 13347, LpA measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation! For detailed information see [http://www.ebmpapst.com/general conditions](http://www.ebmpapst.com/general conditions)
- **Motor protection:** Thermal overload protector (TOP) connected internally
- **Touch current:** < 0.75 mA acc. to IEC 60990 (test circuit, illustration 4)
- **Cable exit:** Variable
- **Electrical hookup:** Via terminal strips, capacitor connected
- **Protection class:** I (with customer connection to grounding conductor)
- **Conformity with standard(s):** EN 60335-1, CE
- **Approvals:**
  - EAC, UL 507, VDE, CSA C22.2 no. 113, CCC
  - EAC, UL 2111, VDE, CSA C22.2 no. 113, CCC

![Diagram of the fan assembly](image-url)
**AC axial fans**

- **Material:**
  - Housing: Die-cast-aluminum
  - Impeller: PP plastic
  - Rotor: Painted black
- **Number of blades:** 7
- **Direction of air flow:** "V"
- **Direction of rotation:** Counterclockwise, looking towards rotor
- **Degree of protection:** IP 44, depending on installation and position
- **Insulation class:** "F"
- **Installation position:** Any
- **Condensation drainage holes:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

**Nominal data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>VAC</th>
<th>Hz</th>
<th>m³/h</th>
<th>rpm⁻¹</th>
<th>W</th>
<th>A</th>
<th>F/VDB</th>
<th>dB(A)</th>
<th>Pa</th>
<th>°C</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W2E 250-HP06-01</td>
<td>M2E 068-CF</td>
<td>1~115</td>
<td>50</td>
<td>1740</td>
<td>2375</td>
<td>125</td>
<td>1.10</td>
<td>12/320</td>
<td>70</td>
<td>100</td>
<td>-25...+50</td>
<td>2.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1~115</td>
<td>60</td>
<td>1880</td>
<td>2350</td>
<td>165</td>
<td>1.45</td>
<td>12/320</td>
<td>72</td>
<td>110</td>
<td>-25...+45</td>
<td>2.7</td>
</tr>
<tr>
<td>W2E 250-HP06-01</td>
<td>M2E 068-CF</td>
<td>1~230</td>
<td>50</td>
<td>1695</td>
<td>2320</td>
<td>125</td>
<td>0.55</td>
<td>3.0/400</td>
<td>70</td>
<td>100</td>
<td>-25...+60</td>
<td>2.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1~230</td>
<td>60</td>
<td>1840</td>
<td>2300</td>
<td>160</td>
<td>0.71</td>
<td>3.0/400</td>
<td>71</td>
<td>110</td>
<td>-25...+50</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Subject to change

(1) Nominal data in operating point with maximum load and 115/230 VAC

Air performance measured according to: ISO 5801, Installation category A. For detailed information on the measurement setup, contact ebm-papst. Suction-side noise levels: L₁₀A according to ISO 13347, L₁₀A measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation! For detailed information see http://www.ebmpapst.com/general conditions
Motor protection: Thermal overload protector (TOP) connected internally
Touch current: < 0.75 mA acc. to IEC 60990 (test circuit, illustration 4)
Cable exit: Variable
Electrical hookup: Via terminal strips, capacitor connected
Protection class: I (with customer connection to grounding conductor)
Conformity with standard(s): EN 60335-1, CE
Approvals: UL 2111, CSA C22.2 no. 77
EAC, UL 2111, CSA C22.2 no. 77
Max. 830 m³/h

AC diagonal module
Ø 200 mm

- **Material:**
  - Housing: PA plastic
  - Support bracket: PA plastic
  - Impeller: PA plastic
  - Rotor: Painted black

- **Number of blades:** 7
- **Direction of air flow:** “V”, single inlet
- **Direction of rotation:** Clockwise, looking towards rotor
- **Degree of protection:** IP 44, depending on installation and position
- **Insulation class:** “F”
- **Installation position:** Any
- **Condensation drainage holes:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>VAC</th>
<th>Hz</th>
<th>m³/h</th>
<th>rpm⁻¹</th>
<th>W</th>
<th>A</th>
<th>µF/VDB</th>
<th>dB(A)</th>
<th>Pa</th>
<th>°C</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>K2E 200-AA12 -01</td>
<td>M2E 068-CF</td>
<td>1~ 115</td>
<td>50</td>
<td>760</td>
<td>2650</td>
<td>64</td>
<td>6.0/250</td>
<td>70</td>
<td>200</td>
<td>-25..+65</td>
<td>2.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1~ 115</td>
<td>60</td>
<td>830</td>
<td>2910</td>
<td>88</td>
<td>6.0/250</td>
<td>72</td>
<td>240</td>
<td>-25..+65</td>
<td>2.1</td>
<td></td>
</tr>
</tbody>
</table>

Subject to change

### Curves:

- 50 Hz
- 60 Hz

### Air performance measured according to ISO 5801. Installation category A, without contact protection. Suction-side noise levels: LWA

Air performance measured according to ISO 5801. Installation category A, without contact protection. Suction-side noise levels: LWA.

---

2016-01  224
- **Motor protection:** Thermal overload protector (TOP) connected internally
- **Touch current:** < 0.75 mA acc. to IEC 60990 (test circuit, illustration 4)
- **Cable exit:** Lateral
- **Electrical hookup:** Via connector
- **Protection class:** I (with customer connection to grounding conductor)
- **Conformity with standard(s):** EN 60335-1, CE
- **Approvals:** UL 2111, CSA C22.2 no. 77

Coded plug system
Universal Mate-N-Lok
Connector shell: AMP 350 780-1
3x plug pins: AMP 926 885-1
Mating connector (not included in scope of delivery):
Connector shell: AMP 350 779-4
3x sockets: AMP 926 884-1

X view

1 = not used
2 = N + capacitor
3 = L
4 = PE
AC diagonal module
Ø 200 mm

- **Material:**
  - Housing: PA plastic
  - Support bracket: PA plastic
  - Impeller: PA plastic
  - Rotor: Painted black

- **Number of blades:** 7
- **Direction of air flow:** “V”, single inlet
- **Direction of rotation:** Clockwise, looking towards rotor
- **Degree of protection:** IP 44, depending on installation and position
- **Insulation class:** “F”
- **Installation position:** Any
- **Condensation drainage holes:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>VAC (Hz)</th>
<th>Frequency (Hz)</th>
<th>Air flow (m³/h)</th>
<th>Nominal speed (rpm⁻¹)</th>
<th>Power consumption (W)</th>
<th>Input current (A)</th>
<th>Sound power level (dB(A))</th>
<th>Max. back-pressure (Pa)</th>
<th>Admissible amb. temp. (°C)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K2E 200-AA52 -02</td>
<td>M2E068-CF</td>
<td>1~ 230 50 765 2650 65; 0.30 2.0/400</td>
<td>70</td>
<td>-25..+80</td>
<td>2.1</td>
<td>p. 263 / A1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subject to change

---

Air performance measured according to ISO 5801. Installation category A, without contact protection. Suction-side noise levels: $L_{WA}$ according to ISO 13347. $L_{WA}$ measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation! For detailed information see [http://www.ebmpapst.com/general_conditions](http://www.ebmpapst.com/general_conditions)
- **Motor protection:** Thermal overload protector (TOP) connected internally
- **Touch current:** < 0.75 mA acc. to IEC 60990 (test circuit, illustration 4)
- **Cable exit:** Lateral
- **Electrical hookup:** Via connector
- **Protection class:** I (with customer connection to grounding conductor)
- **Conformity with standard(s):** EN 60335-1, CE
- **Approvals:** UL 2111, CSA C22.2 no. 77

---

Coded plug system
Universal Mate-N-Lok
Connector shell: AMP 350 780-1
3x plug pins: AMP 926 885-1
Mating connector (not included in scope of delivery):
Connector shell: AMP 350 779-4
3x sockets: AMP 926 884-1

---

1 = not used
2 = N + capacitor
3 = L
4 = PE

---

Connection diagrams
P. 263
Max. **880 m³/h**

**AC diagonal module**

Ø 200 mm

- **Material:**
  - Housing: PA plastic
  - Support bracket: PA plastic
  - Impeller: PA plastic
  - Rotor: Painted black

- **Number of blades:** 7

- **Direction of air flow:** "V", single inlet

- **Direction of rotation:** Clockwise, looking towards rotor

- **Degree of protection:** IP 44, depending on installation and position

- **Insulation class:** “F”

- **Installation position:** Any

- **Condensation drainage holes:** None

- **Mode of operation:** Continuous operation (S1)

- **Bearings:** Maintenance-free ball bearings

### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>VAC</th>
<th>Hz</th>
<th>m³/h</th>
<th>rpm⁻¹</th>
<th>W</th>
<th>A</th>
<th>µF/VDB</th>
<th>dB(A)</th>
<th>Pa</th>
<th>°C</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>K2D 200-AA02 -02</td>
<td>M2D068-CF</td>
<td>2700</td>
<td>50</td>
<td>780</td>
<td>2700</td>
<td>65</td>
<td>0.15</td>
<td>—</td>
<td>71</td>
<td>210</td>
<td>-25..+75</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2695</td>
<td>60</td>
<td>880</td>
<td>3050</td>
<td>90</td>
<td>0.16</td>
<td>—</td>
<td>73</td>
<td>260</td>
<td>-25..+75</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Subject to change

Air performance measured according to ISO 5801. Installation category A, without contact protection. Suction-side noise levels: $L_{WA}$ according to ISO 13347, $L_A$ measured at 1 m distance from fan axis. The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked after installation! For detailed information see http://www.ebmpapst.com/general conditions.
- Motor protection: thermal overload protector wired internally
- Touch current: < 0.75 mA acc. to IEC 60990 (test circuit, illustration 4)
- Cable exit: Lateral
- Electrical hookup: Via connector
- Protection class: I (with customer connection to grounding conductor)
- Conformity with standard(s): EN 60335-1, CE

Coded plug system
Universal Mate-N-Lok
Connector shell: AMP 350 780-1
4 x plug pins: AMP 926 885-1
Mating connector (not included in scope of delivery):
Connector shell: AMP 350 779-4
4x sockets: AMP 926 884-1

1 = L3
2 = L1
3 = L2
4 = PE