The success of our HyBlade® series continues:

Axial fans with one-of-a-kind HyBlade® technology have been expanded by adding sizes 300 to 450 mm and are now available in all sizes from 300 to 900 mm.

In the process, the one-piece, glass fibre-reinforced plastic impellers have been further optimised in terms of aerodynamics. Thus, the noise behaviour was improved even more and impeller efficiency was increased.

For the drive, you can choose between tried and true AC asynchronous motors and high-efficiency GreenTech EC motors. Furthermore, you can choose between two different control configurations: one with two fixed speed stages or one with the familiar continuous control option via a combined 0-10V/PWM control input.

Here, the 2-stage designs are laid out so that the small stage corresponds to its AC counterpart in terms of air performance. The large stage then offers additional increases in air performance beyond that. This opens entirely new prospects, such as in refrigeration system applications.

Since the electronics have been completely integrated into the motor, our axial fans using GreenTech EC technology have precisely the same mounting dimension as their AC counterparts and thus are able to replace them without cost-intensive renovations.

The advantages at a glance
- High efficiency due to HyBlade® axial impellers and new GreenTech EC motors
- Reduced noise
- Compact design
- Mechanical compatibility of AC and EC
- GreenTech EC fans alternatively controlled with two speeds or continuous
- Compliance with ErP specifications* (please note individual designation)

*ErP: Energy related Product – defined minimum requirements for fans in accordance with the EcoDesign directive for fans with a drive output of 125 W or higher.
Sustainability is at the centre of our thoughts and actions. Out of conviction!

Eco-friendliness and sustainability have always been at the core of our thoughts and actions. For decades, we have worked according to the simple but strict creed of our co-founder Gerhard Sturm: “Each new product we develop has to be better than the last one in terms of economy and ecology.” GreenTech is the ultimate expression of our corporate philosophy.
**GreenTech is acknowledged and certified.**

Every step in our chain of production meets the stringent standards of environmental specialists and the public. The 2008 Environmental Prize of Baden-Wuerttemberg, the Green Award 2009, the Energy Efficiency Award 2009 of the dena – to give just a few examples – testify to this. The environmental advantage gained in the performance of the products developed from our GreenTech philosophy can also be measured in the fulfilment of the most stringent energy and environmental standards. In many instances, our products are already well below the thresholds energy legislation will impose a few years from now – several times over.

**GreenTech is eco-friendly production.**

GreenTech also stands for maximum energy efficiency in our production processes. There, the intelligent use of industrial waste heat and groundwater cooling, photovoltaics and, of course, our own cooling and ventilation technology are of the utmost importance. Our most modern plant, for instance, consumes 91% less energy than currently specified and required. In this way, our products contribute to protecting the environment, from their origin to their recyclable packaging.

**GreenTech is pro-active development.**

Even in the design phase, the materials and processes we use are optimised for the greatest possible eco-friendliness, energy balance and – wherever possible – recyclability. We continually improve the material and performance of our products, as well as the flow and noise characteristics. At the same time, we significantly reduce energy consumption. Close co-operation with universities and scientific institutes and the professorship we endow in the area of power engineering and regenerative energies allows us to profit from the latest research findings in these fields – and at the same time ensure highly qualified young academics.

**Our customers profit from this every day.**

The heart of GreenTech is future-oriented EC technology from ebm-papst. The EC technology at the core of our most efficient motors and fans allows efficiency of up to 90%, saves energy at a very high level, significantly extends service life and makes our products maintenance-free. These values pay off not only for the environment, but every cent also pays off for the user! All ebm-papst products – even those for which GreenTech EC technology does not (yet) make sense from an application viewpoint – feature the greatest possible connection of economy and ecology.
EC axial fans - HyBlade® Ø 300-450
EC axial fans - HyBlade®
Ø 300

- **Material:** Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  Blades: Plastic PP
  Rotor: Surface passivated
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** “B”
- **Mounting position:** Any
- **Condensate discharge holes:** None, open rotor
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Technical features and electr. connection

#### Nominal data

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>*3G 300</td>
<td>M3G 055-CF</td>
<td>1~ 200-240</td>
<td>50/60</td>
<td>1500</td>
<td>85</td>
<td>0,74</td>
<td>85</td>
<td>-25..+60</td>
<td>1,30</td>
<td>2 Speed stages</td>
<td>p. 56 / H3</td>
</tr>
<tr>
<td>*3G 300</td>
<td>M3G 055-DF</td>
<td>1~ 200-240</td>
<td>50/60</td>
<td>1750</td>
<td>120</td>
<td>1,00</td>
<td>100</td>
<td>-25..+40</td>
<td>1,50</td>
<td>2 Speed stages</td>
<td>p. 56 / H3</td>
</tr>
<tr>
<td>*3G 300</td>
<td>M3G 074-CF</td>
<td>1~ 200-240</td>
<td>50/60</td>
<td>2050</td>
<td>168</td>
<td>1,35</td>
<td>135</td>
<td>-25..+60</td>
<td>1,98</td>
<td>2 Speed stages</td>
<td>p. 56 / H3</td>
</tr>
<tr>
<td>*3G 300</td>
<td>M3G 055-CF</td>
<td>1~ 200-240</td>
<td>50/60</td>
<td>1500</td>
<td>85</td>
<td>0,74</td>
<td>85</td>
<td>-25..+60</td>
<td>1,35</td>
<td>Speed-controlled</td>
<td>p. 57 / H4</td>
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<td>1~ 200-240</td>
<td>50/60</td>
<td>1660</td>
<td>98</td>
<td>0,80</td>
<td>80</td>
<td>-25..+60</td>
<td>1,55</td>
<td>Speed-controlled</td>
<td>p. 57 / H4</td>
</tr>
<tr>
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<td>M3G 074-CF</td>
<td>1~ 200-240</td>
<td>50/60</td>
<td>2050</td>
<td>168</td>
<td>1,35</td>
<td>135</td>
<td>-25..+60</td>
<td>1,98</td>
<td>Speed-controlled</td>
<td>p. 57 / H4</td>
</tr>
</tbody>
</table>

subject to alterations

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

### Curves (2 Speed stages)

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<tr>
<th></th>
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<tbody>
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<td>72</td>
<td>0,63</td>
<td>63</td>
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<tr>
<td>1600</td>
<td>78</td>
<td>0,87</td>
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<td>1565</td>
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<tr>
<td>1500</td>
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<td>64</td>
</tr>
<tr>
<td>1485</td>
<td>52</td>
<td>0,48</td>
<td>60</td>
</tr>
<tr>
<td>1440</td>
<td>56</td>
<td>0,51</td>
<td>60</td>
</tr>
<tr>
<td>1410</td>
<td>59</td>
<td>0,53</td>
<td>60</td>
</tr>
<tr>
<td>1365</td>
<td>65</td>
<td>0,59</td>
<td>62</td>
</tr>
<tr>
<td>1820</td>
<td>96</td>
<td>0,86</td>
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<tr>
<td>1775</td>
<td>105</td>
<td>0,94</td>
<td>67</td>
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<tr>
<td>1750</td>
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<td>1385</td>
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<td>2145</td>
<td>168</td>
<td>1,35</td>
<td>71</td>
</tr>
<tr>
<td>2050</td>
<td>168</td>
<td>1,35</td>
<td>72</td>
</tr>
<tr>
<td>1910</td>
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<td>65</td>
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<tr>
<td>1790</td>
<td>112</td>
<td>0,91</td>
<td>66</td>
</tr>
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</table>

Air performance measured as per: ISO 5801,
Installation category A,
in ebm-papst full nozzle
and without protection against accidental contact
Suction side noise levels:
LwA as per ISO 13347,
LwA measured at 1 m distance to fan axis
The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.
With any deviation to the standard setup, the specific values have to be checked and re-reviewed once installed or fitted!

For detailed information see page 62 ff.
**Technical features:** See electrical connections p. 60 ff.

**EMC:** Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to EN 61000-3-2/3
Interference emission acc. to EN 61000-6-3 (household environment)
On account of the installation conditions, ferritic damping in the connection line may be required for the application.

**Leakage current:** < 3.5 mA acc. to EN 60335-1

**Cable exit:** Variable

**Terminal box design:** Electrical connection via terminal strip

**Protection class:** I

**Product conforming to standards:** EN 60335-1; CE

**Approvals:** VDE, cURus on request

---

**Curves (Speed-controlled)**

<table>
<thead>
<tr>
<th>Direction of air flow</th>
<th>Without attachments</th>
<th>With full round nozzle</th>
<th>With guard grille for short nozzle and mounted terminal box</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;V&quot;</td>
<td>W3G 300-CV11 -30</td>
<td>S3G 300-AK13 -30</td>
<td>S3G 300-AK13 -30</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>W3G 300-CV13 -32</td>
<td>S3G 300-AK13 -32</td>
<td>S3G 300-AK13 -32</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>W3G 300-CV13 -32</td>
<td>S3G 300-AK13 -32</td>
<td>S3G 300-AK13 -32</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>W3G 300-AK13 -30</td>
<td>S3G 300-AK13 -30</td>
<td>S3G 300-AK13 -30</td>
</tr>
</tbody>
</table>

**Direction of air flow A** on request  
*Terminal box design: Electrical connection via terminal strip*

**Suction-side noise levels:**

- $L_{WA}$ as per ISO 13347,
- $L_{pA}$ measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.

---

**Drawings**

p. 10 ff.  

**Electr. connections**

p. 56/57
**EC axial fans - HyBlade®**

Ø 300 with motor M3G 055, 2 Speed stages, drawings for direction of air flow "V"
EC axial fans - HyBlade®
Ø 300 with motor M3G 055, Speed-controlled, drawings for direction of air flow "V"

**Without attachments**

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 300-AK13 -03</td>
<td>1.35</td>
</tr>
</tbody>
</table>

**With full round nozzle**

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 300-CK13 -32</td>
<td>3.35</td>
</tr>
</tbody>
</table>

**With guard grille for short nozzle**

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 300-AK13 -32</td>
<td>2.35</td>
</tr>
<tr>
<td>S3G 300-AK13 -52*</td>
<td>2.50</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 306 mm

Internal diameter of the wall ring at least 306 mm

Internal diameter of the wall ring at least 306 mm

Internal diameter of the wall ring at least 306 mm

Cable diameter: 7.5 mm

Tightening torque: 0.8 Nm ± 0.15 Nm

*Type with terminal box:
EC axial fans - HyBlade®
Ø 300 with motor M3G 055, 2 Speed stages, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 300-AL11-01</td>
<td>1.50</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 306 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 300-CL11-30</td>
<td>3.55</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 306 mm

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 300-AL11-30</td>
<td>2.50</td>
</tr>
<tr>
<td>S3G 300-AL11-50*</td>
<td>2.85</td>
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</tbody>
</table>

*Type with terminal box:

- Tightening torque: 0,8 Nm ± 0,15 Nm
- Cable diameter: 7,5 mm
- Tightening torque: 2,0 Nm ± 0,3 Nm
EC axial fans - HyBlade®
Ø 300 with motor M3G 055, Speed-controlled, drawings for direction of air flow "V"

<table>
<thead>
<tr>
<th>Without attachments</th>
<th>Type</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A3G 300-AL11-03</td>
<td>1.55 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>With full round nozzle</th>
<th>Type</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>W3G 300-CL11-32</td>
<td>3.60 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>With guard grille for short nozzle</th>
<th>Type</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S3G 300-AL11-32</td>
<td>2.55 kg</td>
</tr>
<tr>
<td></td>
<td>S3G 300-AL11-52*</td>
<td>2.70 kg</td>
</tr>
</tbody>
</table>

*Type with terminal box:
- Tightening torque: 0,8 Nm ± 0,15 Nm
- Cable diameter: 7.5 mm
- Tightening torque: 2,0 Nm ± 0,3 Nm

Internal diameter of the wall ring at least 306 mm
**EC axial fans - HyBlade®**

Ø 300 with motor M3G 074, 2 Speed stages, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 300-AN02 -01</td>
<td>1.86</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 306 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 300-CN02 -30</td>
<td>4.00</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 300-AN02 -30</td>
<td>2.93</td>
</tr>
<tr>
<td>S3G 300-AN02 -50*</td>
<td>3.08</td>
</tr>
</tbody>
</table>

*Type with terminal box:

- Tightening torque: 0.8 Nm ± 0.15 Nm
- Cable diameter: 7.5 mm
- Tightening torque: 2.0 Nm ± 0.3 Nm
EC axial fans - HyBlade®
Ø 300 with motor M3G 074, Speed-controlled, drawings for direction of air flow "V"

Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 300-AN02 -03</td>
<td>1.88</td>
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Internal diameter of the wall ring at least 306 mm

With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 300-CN02 -32</td>
<td>4.00</td>
</tr>
</tbody>
</table>

With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 300-AN02 -32</td>
<td>2.93</td>
</tr>
<tr>
<td>S3G 300-AN02 -52*</td>
<td>3.08</td>
</tr>
</tbody>
</table>

*Tightening torque: 0.8 Nm ± 0.15 Nm

*Cable diameter: 7.5 mm

Tightening torque: 2.0 Nm ± 0.3 Nm
EC axial fans - HyBlade®
Ø 350

- **Material:** Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  Blades: Plastic PP
  Rotor: Surface passivated
  Electronics enclosure: Die-cast aluminium

- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** “B”
- **Mounting position:** Any
- **Condensate discharge holes:** None, open rotor
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

---

### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>Voltage range</th>
<th>Frequency</th>
<th>Speed</th>
<th>Max. input power</th>
<th>Max. current draw</th>
<th>Max. back pressure</th>
<th>Perm. amb. temp.</th>
<th>Mass without attachments</th>
<th>2-speed stages / 0-10 V</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>3G 350</em></td>
<td>M3G 055-DF</td>
<td>1 – 200-240</td>
<td>50/60</td>
<td>1115</td>
<td>85</td>
<td>0,73</td>
<td>60</td>
<td>-25..+60</td>
<td>1,63</td>
<td>p. 56 / H3)</td>
</tr>
<tr>
<td><em>3G 350</em></td>
<td>M3G 074-CF</td>
<td>1 – 200-240</td>
<td>50/60</td>
<td>1480</td>
<td>165</td>
<td>1,35</td>
<td>100</td>
<td>-25..+60</td>
<td>2,20</td>
<td>p. 56 / H3)</td>
</tr>
<tr>
<td><em>3G 350</em></td>
<td>M3G 055-DF</td>
<td>1 – 200-240</td>
<td>50/60</td>
<td>1115</td>
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<td>0,73</td>
<td>60</td>
<td>-25..+60</td>
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<td>Speed-controlled</td>
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<td><em>3G 350</em></td>
<td>M3G 074-CF</td>
<td>1 – 200-240</td>
<td>50/60</td>
<td>1480</td>
<td>165</td>
<td>1,35</td>
<td>100</td>
<td>-25..+60</td>
<td>2,20</td>
<td>Speed-controlled</td>
</tr>
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</table>

(subject to alterations)

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

---

### Curves (2 Speed stages)

<table>
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<tr>
<th>rpm</th>
<th>P&lt;sub&gt;n&lt;/sub&gt;</th>
<th>I</th>
<th>LWA</th>
<th>dB(A)</th>
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<tbody>
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<td>1215</td>
<td>74</td>
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<td>65</td>
<td></td>
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<tr>
<td>1190</td>
<td>80</td>
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<td>63</td>
<td></td>
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<tr>
<td>1160</td>
<td>84</td>
<td>0,70</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>1115</td>
<td>85</td>
<td>0,73</td>
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<tr>
<td>915</td>
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<td>41</td>
<td>0,40</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>1575</td>
<td>141</td>
<td>1,15</td>
<td>71</td>
<td></td>
</tr>
<tr>
<td>1555</td>
<td>152</td>
<td>1,23</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>1530</td>
<td>161</td>
<td>1,31</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>1480</td>
<td>165</td>
<td>1,35</td>
<td>67</td>
<td></td>
</tr>
<tr>
<td>1395</td>
<td>98</td>
<td>0,82</td>
<td>68</td>
<td></td>
</tr>
<tr>
<td>1375</td>
<td>106</td>
<td>0,88</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>1355</td>
<td>114</td>
<td>0,96</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>1340</td>
<td>122</td>
<td>1,03</td>
<td>64</td>
<td></td>
</tr>
</tbody>
</table>

Air performance measured as per: ISO 5801,
Installation category A,
in ebm-papst full nozzle
and without protection against accidental contact

Suction-side noise levels:
LWA as per ISO 13347,
lWA measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and re-viewed once installed or fitted!

For detailed information see page 62 ff.
- **Technical features:** See electrical connections p. 60 ff.
- **EMC:** Interference immunity acc. to EN 61000-6-2 (industrial environment)
  Harmonics acc. to EN 61000-3-2/3
  Interference emission acc. to EN 61000-6-3 (household environment)
  On account of the installation conditions, ferritic damping in the connection line may be required for the application.
- **Leakage current:** < 3.5 mA acc. to EN 60335-1
- **Cable exit:** Variable
- **Terminal box design:** Electrical connection via terminal strip
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1; CE
- **Approvals:** VDE, cURus on request

### Curves (Speed-controlled)

<table>
<thead>
<tr>
<th>Direction of air flow</th>
<th>Without attachments</th>
<th>With full round nozzle</th>
<th>With guard grille for short nozzle and mounted terminal box</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;V&quot;</td>
<td>A3G 350-AG03 -01</td>
<td>W3G350-CG03 -30</td>
<td>S3G 350-AG03 -50*</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A3G 350-AN01 -01</td>
<td>W3G350-CN01 -30</td>
<td>S3G 350-AN01 -50*</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A3G 350-AG03 -03</td>
<td>W3G350-CG03 -32</td>
<td>S3G 350-AG03 -52*</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A3G 350-AN01 -03</td>
<td>W3G350-CN01 -32</td>
<td>S3G 350-AN01 -52*</td>
</tr>
</tbody>
</table>

Direction of air flow "A" on request    *Terminal box design: Electrical connection via terminal strip

---

**Air performance measured as per ISO 5801,**
Installation category A,
in ebm-papst full nozzle and without protection against accidental contact

**Suction-side noise levels:**
LWA as per ISO 13347,
LpA measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and re-viewed once installed or fitted!

For detailed information see page 62 ff.

---

**Curves (Speed-controlled)**

<table>
<thead>
<tr>
<th>n rpm</th>
<th>Pₚ W</th>
<th>I A</th>
<th>LWA dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1215</td>
<td>74</td>
<td>0,63</td>
<td>65</td>
</tr>
<tr>
<td>1190</td>
<td>80</td>
<td>0,67</td>
<td>63</td>
</tr>
<tr>
<td>1180</td>
<td>84</td>
<td>0,70</td>
<td>60</td>
</tr>
<tr>
<td>1115</td>
<td>85</td>
<td>0,73</td>
<td>58</td>
</tr>
<tr>
<td>1575</td>
<td>141</td>
<td>1,15</td>
<td>71</td>
</tr>
<tr>
<td>1555</td>
<td>152</td>
<td>1,23</td>
<td>69</td>
</tr>
<tr>
<td>1530</td>
<td>161</td>
<td>1,31</td>
<td>66</td>
</tr>
<tr>
<td>1480</td>
<td>165</td>
<td>1,35</td>
<td>67</td>
</tr>
</tbody>
</table>

---

**Technical features:**
See electrical connections p. 60 ff.

**EMC:**
Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to EN 61000-3-2/3
Interference emission acc. to EN 61000-6-3 (household environment)
On account of the installation conditions, ferritic damping in the connection line may be required for the application.

**Leakage current:** < 3.5 mA acc. to EN 60335-1

**Cable exit:** Variable

**Terminal box design:**
Electrical connection via terminal strip

**Protection class:** I

**Product conforming to standards:**
EN 60335-1; CE

**Approvals:**
VDE, cURus on request
## EC axial fans - HyBlade®

Ø 350 with motor M3G 055, 2 Speed stages, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 350-AG03 -01</td>
<td>1.83</td>
</tr>
</tbody>
</table>

**Internal diameter of the wall ring at least 358 mm**

### With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 350-CG03 -30</td>
<td>4.55</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 350-AG03 -30</td>
<td>3.15</td>
</tr>
<tr>
<td>S3G 350-A003 -50*</td>
<td>3.30</td>
</tr>
</tbody>
</table>

*Type with terminal box:

- **Tightening torque:** 0.8 Nm ± 0.15 Nm
- **Cable diameter:** 7.5 mm
- **Tightening torque:** 2.0 Nm ± 0.3 Nm
**EC axial fans - HyBlade®**

Ø 350 with motor M3G 055, Speed-controlled, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 350-AG03 -03</td>
<td>1.83</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 358 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 350-CG03 -32</td>
<td>4.55</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 350-AG03 -32</td>
<td>3.15</td>
</tr>
<tr>
<td>S3G 350-A003 -52*</td>
<td>3.30</td>
</tr>
</tbody>
</table>

Type with terminal box:

- **Tightening torque**: 0.8 Nm ± 0.15 Nm
- **Cable diameter**: 7.5 mm
- **Tightening torque**: 2.0 Nm ± 0.3 Nm

---

* **Type with terminal box:**

**Tightening torque**: 0.8 Nm ± 0.15 Nm

**Cable diameter**: 7.5 mm

**Tightening torque**: 2.0 Nm ± 0.3 Nm
EC axial fans - HyBlade®
Ø 350 with motor M3G 074, 2 Speed stages, drawings for direction of air flow "V"

<table>
<thead>
<tr>
<th>Without attachments</th>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A3G 350-AN01 -01</td>
<td>2.20</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 358 mm

<table>
<thead>
<tr>
<th>With full round nozzle</th>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>W3G 350-CN01 -30</td>
<td>5.10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>With guard grille for short nozzle</th>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S3G 350-AN01 -30</td>
<td>3.70</td>
</tr>
<tr>
<td></td>
<td>S3G 350-AN01 -50*</td>
<td>3.85</td>
</tr>
</tbody>
</table>

*Type with terminal box:

Tightening torque: 0.8 Nm ± 0.15 Nm
Cable diameter: 7.5 mm
Tightening torque: 2.0 Nm ± 0.3 Nm
EC axial fans - HyBlade®
Ø 350 with motor M3G 074, Speed-controlled, drawings for direction of air flow "V"

<table>
<thead>
<tr>
<th>Without attachments</th>
<th>Type</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 350-AN01 -03</td>
<td>2,20</td>
<td></td>
</tr>
</tbody>
</table>

Without attachments

<table>
<thead>
<tr>
<th>With full round nozzle</th>
<th>Type</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 350-CN01 -32</td>
<td>5,10</td>
<td></td>
</tr>
</tbody>
</table>

With full round nozzle

<table>
<thead>
<tr>
<th>With guard grille for short nozzle</th>
<th>Type</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 350-AN01 -32</td>
<td>3,70</td>
<td></td>
</tr>
<tr>
<td>S3G 350-AN01 -52*</td>
<td>3,85</td>
<td></td>
</tr>
</tbody>
</table>

With guard grille for short nozzle

*Type with terminal box:
- Tightening torque: 0,8 Nm ± 0,15 Nm
- Cable diameter: 7,5 mm
- Tightening torque: 2,0 Nm ± 0,3 Nm

Internal diameter of the wall ring at least 358 mm

*brass lead tips crimped

Depth of screw max. 10 mm

Depth of screw max. 5 mm

Internal diameter of the wall ring at least 358 mm

Max. 5 mm

Max. 10 mm

Volts ±10

21
EC axial fans - HyBlade®
Ø 400

- **Material:** Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  Blades: Plastic PP
  Rotor: Surface passivated; Surface coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54; IP 54 (acc. to EN 60529)
- **Insulation class:** "B"
- **Mounting position:** Any; Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharge holes:** None, open rotor; Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>Nominal voltage range V</th>
<th>Frequency Hz</th>
<th>Speed rpm</th>
<th>Max. input power W</th>
<th>Max. current draw A</th>
<th>Max. back pressure Pa</th>
<th>Perm. amb. temp. °C</th>
<th>Mass without attachments kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>*3G 400</td>
<td>M3G 074-CF</td>
<td>1– 200-240</td>
<td>50/60</td>
<td>1080</td>
<td>1,15</td>
<td>75</td>
<td>-25...+60</td>
<td>2,3</td>
<td></td>
</tr>
<tr>
<td>*3G 400</td>
<td>M3G 074-CF</td>
<td>1– 200-240</td>
<td>50/60</td>
<td>1080</td>
<td>1,15</td>
<td>75</td>
<td>-25...+60</td>
<td>2,3</td>
<td></td>
</tr>
<tr>
<td>*3G 400</td>
<td>M3G 084-FA</td>
<td>1– 200-277</td>
<td>50/60</td>
<td>1630</td>
<td>2,60</td>
<td>160</td>
<td>-25...+60</td>
<td>4,7</td>
<td></td>
</tr>
</tbody>
</table>

subject to alterations

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

### Technical features and electr. connection

- **2 Speed stages / 0-10 V**

### Curves (2 Speed stages)

<table>
<thead>
<tr>
<th>n rpm</th>
<th>P&lt;sub&gt;e&lt;/sub&gt; W</th>
<th>I A</th>
<th>L&lt;sub&gt;WA&lt;/sub&gt; dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1135</td>
<td>116</td>
<td>0,87</td>
<td>69</td>
</tr>
<tr>
<td>1115</td>
<td>128</td>
<td>1,05</td>
<td>67</td>
</tr>
<tr>
<td>1100</td>
<td>131</td>
<td>1,07</td>
<td>64</td>
</tr>
<tr>
<td>1086</td>
<td>140</td>
<td>1,15</td>
<td>67</td>
</tr>
<tr>
<td>930</td>
<td>64</td>
<td>0,80</td>
<td>65</td>
</tr>
<tr>
<td>915</td>
<td>69</td>
<td>0,61</td>
<td>63</td>
</tr>
<tr>
<td>905</td>
<td>73</td>
<td>0,64</td>
<td>59</td>
</tr>
<tr>
<td>890</td>
<td>78</td>
<td>0,69</td>
<td>63</td>
</tr>
</tbody>
</table>

Air performance measured as per: ISO 5801,
Installation category A,
in ebm-papst full nozzle
and without protection against accidental contact

Suction-side noise levels:
L<sub>WA</sub> as per ISO 13347,
L<sub>WA</sub> measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and re-viewed once installed or fitted!

For detailed information see page 62 ff.
- Technical features: See electrical connections p. 60 ff.
- EMC: Interference immunity acc. to EN 61000-6-2 (industrial environment)
  Harmonics acc. to EN 61000-3-2/3
  Interference emission acc. to EN 61000-6-3 (household environment)
  On account of the installation conditions, ferritic damping in the connection line may be required for the application.
- Leakage current: < 3,5 mA; acc. to EN 60335-1; acc. to EN 61800-5-1
- Cable exit: Variable
- Terminal box design: Electrical connection via terminal strip
- Protection class: l; acc. to EN 61800-5-1
- Product conforming to standards: VDE, cURus on request; CSA; UL
- Approvals: VDE, cURus on request; CSA; UL

### Curves (Speed-controlled)

<table>
<thead>
<tr>
<th>q'</th>
<th>n</th>
<th>P_e</th>
<th>I</th>
<th>LWA dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4000</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>5000</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Air performance measured as per: ISO 5801,
Installation category A,
in ebm-papst full nozzle and without protection against accidental contact
Suction-side noise levels:
$L_{WA}$ as per ISO 13347,
$L_{WA}$ measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
EC axial fans - HyBlade®
Ø 400 with motor M3G 074, 2 Speed stages, drawings for direction of air flow "V"

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass</th>
<th>Type</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without attachments</td>
<td></td>
<td>A3G 400-AN04 -01</td>
<td>2,3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>W3G 400-CN04 -30</td>
<td>6,1</td>
</tr>
<tr>
<td>With full round nozzle</td>
<td></td>
<td>S3G 400-AN04 -30</td>
<td>4,10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S3G 400-AN04 -50*</td>
<td>4,25</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 400 mm

Internal diameter of the wall ring at least 400 mm
**EC axial fans - HyBlade®**

Ø 400 with motor M3G 074, Speed-controlled, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 400-AN04 -03</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 400 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 400-CN04 -32</td>
<td>6.1</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 400-AN04 -32</td>
<td>4.10</td>
</tr>
<tr>
<td>S3G 400-AN04 -52*</td>
<td>4.25</td>
</tr>
</tbody>
</table>

*Type with terminal box:

Tightening torque: 0.8 Nm ± 0.15 Nm
Cable diameter: 7.5 mm
Tightening torque: 2.0 Nm ± 0.3 Nm
EC axial fans - HyBlade®
Ø 400 with motor M3G 084, Speed-controlled, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 400-AC22 -51</td>
<td>4.7</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 400 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 400-CC22 -51</td>
<td>8.5</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 400-LC22 -51</td>
<td>6.40</td>
</tr>
<tr>
<td>S3G 400-LC22 -59*</td>
<td>6.55</td>
</tr>
</tbody>
</table>

*Type with terminal box: Tightening torque: 1.5 Nm ± 0.2 Nm

Internal diameter of the wall ring at least 400 mm

Cable diameter: min. 4 mm, max. 10 mm
Tightening torque: 2.5 Nm ± 0.4 Nm
EC axial fans - HyBlade®
Ø 450

- **Material:**
  - Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  - Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  - Blades: Plastic PP
  - Rotor: Surface passivated; Surface coated in black
  - Electronics enclosure: Die-cast aluminium

- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** ☀ ☀ IP 54; ☀ ☀ IP 54 (acc. to EN 60529)
- **Insulation class:** “B”
- **Mounting position:** ☀ ☀ Any; Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharge holes:** ☀ ☀ None, open rotor; Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>Voltage range</th>
<th>Frequency</th>
<th>Speed</th>
<th>Max. input power</th>
<th>Max. current draw</th>
<th>Max. back pressure</th>
<th>Mass without attachments</th>
<th>2-speed / 0-10 V</th>
<th>Technical features and elect. connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>*3G 450</td>
<td>M3G 074-DF</td>
<td>1~ 200-240</td>
<td>50/60</td>
<td>980</td>
<td>170</td>
<td>1,40</td>
<td>70</td>
<td>-25...+60</td>
<td>2,7</td>
<td>2 Speed stages p. 56 / H3)</td>
</tr>
<tr>
<td>*3G 450</td>
<td>M3G 074-DF</td>
<td>1~ 200-240</td>
<td>50/60</td>
<td>980</td>
<td>170</td>
<td>1,40</td>
<td>70</td>
<td>-25...+60</td>
<td>2,7</td>
<td>Speed-controlled p. 57 / H4)</td>
</tr>
<tr>
<td>*3G 450</td>
<td>M3G 084-FA</td>
<td>1~ 200-277</td>
<td>50/60</td>
<td>1300</td>
<td>345</td>
<td>2,20</td>
<td>125</td>
<td>-25...+60</td>
<td>4,8</td>
<td>Speed-controlled p. 58 / K1)</td>
</tr>
</tbody>
</table>

*subject to alterations*

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

### Curves (2 Speed stages)

<table>
<thead>
<tr>
<th>n rpm</th>
<th>W</th>
<th>I A</th>
<th>LWA dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Air performance measured as per: ISO 5801,
Installation category A,
in ebm-papst full nozzle
and without protection against accidental contact

Suction-side noise levels:
LWA as per ISO 13347,
LWA measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
- **Technical features**: See electrical connections p. 60 ff.
- **EMC**: Interference immunity acc. to EN 61000-6-2 (industrial environment)
  Harmonics acc. to EN 61000-3-2/3
  Interference emission acc. to EN 61000-6-3 (household environment)
  On account of the installation conditions, ferritic damping in the connection line may be required for the application.
- **Leakage current**: $< 3.5 \text{ mA}$ acc. to EN 60335-1; $\geq 3 \text{ A}$ acc. to EN 61800-5-1
- **Cable exit**: Variable
- **Terminal box design**: Electrical connection via terminal strip
- **Protection class**: I; $\geq 3 \text{ A}$ acc. to EN 61800-5-1
- **Product conforming to standards**: EN 60335-1; EN 61800-5-1
- **Approvals**: VDE, cURus on request; CSA; UL

### Curves (Speed-controlled)

<table>
<thead>
<tr>
<th>Direction of air flow</th>
<th>Without attachments</th>
<th>With full round nozzle</th>
<th>With guard grille for short nozzle and mounted terminal box</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;V&quot;</td>
<td>A3G 450-A002 -01</td>
<td>W3G 450-C002 -30</td>
<td>S3G 450-A002 -30</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A3G 450-A002 -03</td>
<td>W3G 450-C002 -32</td>
<td>S3G 450-A002 -32</td>
</tr>
</tbody>
</table>

Direction of air flow “A” on request   *Terminal box design: Electrical connection via terminal strip

<table>
<thead>
<tr>
<th>n (rpm)</th>
<th>$P_r$ (W)</th>
<th>$I$ (A)</th>
<th>$L_{WA}$(dB(A))</th>
</tr>
</thead>
<tbody>
<tr>
<td>1110</td>
<td>170</td>
<td>1.36</td>
<td>66</td>
</tr>
<tr>
<td>1055</td>
<td>170</td>
<td>1.37</td>
<td>63</td>
</tr>
<tr>
<td>1030</td>
<td>170</td>
<td>1.38</td>
<td>61</td>
</tr>
<tr>
<td>980</td>
<td>170</td>
<td>1.40</td>
<td>60</td>
</tr>
<tr>
<td>1310</td>
<td>270</td>
<td>1.72</td>
<td>71</td>
</tr>
<tr>
<td>1300</td>
<td>298</td>
<td>1.91</td>
<td>68</td>
</tr>
<tr>
<td>1300</td>
<td>326</td>
<td>2.07</td>
<td>65</td>
</tr>
<tr>
<td>1300</td>
<td>345</td>
<td>2.20</td>
<td>67</td>
</tr>
</tbody>
</table>

- Air performance measured as per ISO 5801.
- Installation category A.
- In ebm-papst full nozzle and without protection against accidental contact.
- Suction-side noise levels:
  - $L_{WA}$ as per ISO 13347.
  - $L_{WA}$ measured at 1 m distance to fan axis.

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
EC axial fans - HyBlade®
Ø 450 with motor M3G 074, 2 Speed stages, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 450-A002 -01</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 454 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 450-C002 -30</td>
<td>7.4</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 450-A002 -30</td>
<td>4.80</td>
</tr>
<tr>
<td>S3G 450-A002 -50*</td>
<td>4.95</td>
</tr>
</tbody>
</table>

*Type with terminal box:

- Cable diameter: 7.5 mm
- Tightening torque: 2.0 Nm ± 0.3 Nm

*Type with terminal box:

- Tightening torque: 0.8 Nm ± 0.15 Nm
EC axial fans - HyBlade®
Ø 450 with motor M3G 074, Speed-controlled, drawings for direction of air flow "V"

Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 450-A002 -03</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 454 mm

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 450-C002 -32</td>
<td>7.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 450-A002 -32</td>
<td>4.80</td>
</tr>
<tr>
<td>S3G 450-A002 -52*</td>
<td>4.95</td>
</tr>
</tbody>
</table>

*Type with terminal box:

Internal diameter of the wall ring at least 454 mm

Cable diameter: 7.5 mm
Tightening torque: 0.8 Nm ± 0.15 Nm
Tightening torque: 2.0 Nm ± 0.3 Nm

With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 450-C002 -32</td>
<td>7.4</td>
</tr>
</tbody>
</table>

With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 450-A002 -32</td>
<td>4.80</td>
</tr>
<tr>
<td>S3G 450-A002 -52*</td>
<td>4.95</td>
</tr>
</tbody>
</table>

*Type with terminal box:

Internal diameter of the wall ring at least 454 mm

Cable diameter: 7.5 mm
Tightening torque: 0.8 Nm ± 0.15 Nm
Tightening torque: 2.0 Nm ± 0.3 Nm
EC axial fans - HyBlade®
Ø 450 with motor M3G 084, Speed-controlled, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3G 450-AC28-51</td>
<td>4.8</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 454 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3G 450-CC28-51</td>
<td>9.5</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Type</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3G 450-LC28-51</td>
<td>6.80</td>
</tr>
<tr>
<td>S3G 450-LC28-59*</td>
<td>6.95</td>
</tr>
</tbody>
</table>

Cable diameter: min. 4 mm, max. 10 mm
Tightening torque: 2.5 Nm ± 0.4 Nm

*Type with terminal box:
Tightening torque: 1.5 Nm ± 0.2 Nm
AC axial fans - HyBlade® Ø 300-450
**AC axial fans - HyBlade®**

**Ø 300**

- **Material:** Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  Blades: ① ② ③ ④ ⑤ Plastic PP; ① ② ③ ④ ⑤ Sheet steel, coated in black
  Rotor: Surface coated in black

- **Number of blades:** 5

- **Direction of rotation:** Counter-clockwise, seen on rotor

- **Type of protection:** IP 44, depending on installation and position (acc. to EN 60034-5)

- **Insulation class:** "F"; "B"

- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request

- **Condensate discharge holes:** Rotor-side

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

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

---

**Nominal data**

<table>
<thead>
<tr>
<th>Typ</th>
<th>Motor</th>
<th>Curve</th>
<th>Nominal voltage</th>
<th>Frequency</th>
<th>Speed</th>
<th>Input power</th>
<th>Current draw</th>
<th>Capacitor</th>
<th>Max. back pressure</th>
<th>Perm. ambient temp.</th>
<th>Mass without attachments</th>
<th>Electr. connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>*2D 300(2)</td>
<td>M2D 074-DF</td>
<td>① ②</td>
<td>3~230/400</td>
<td>50</td>
<td>2580</td>
<td>210</td>
<td>0,62/0,36</td>
<td>---</td>
<td>200</td>
<td>-25...+75</td>
<td>3,1</td>
<td>p. 61 / C1,C2</td>
</tr>
<tr>
<td>*4D 300(12)</td>
<td>M4D 068-CF</td>
<td>③ ④</td>
<td>3~230/400</td>
<td>60</td>
<td>2750</td>
<td>300</td>
<td>0,84/0,48</td>
<td>---</td>
<td>125</td>
<td>-25...+40</td>
<td>3,1</td>
<td>p. 61 / C1,C2</td>
</tr>
<tr>
<td>*2E 300</td>
<td>M2E 074-DF</td>
<td>⑤ ⑥</td>
<td>1~230</td>
<td>60</td>
<td>2700</td>
<td>80</td>
<td>0,62/0,40</td>
<td>1,00</td>
<td>125</td>
<td>-25...+50</td>
<td>3,1</td>
<td>p. 60 / A1</td>
</tr>
<tr>
<td>*4E 300(1)</td>
<td>M4E 068-CF</td>
<td>⑦ ⑧</td>
<td>1~230</td>
<td>60</td>
<td>1440</td>
<td>70</td>
<td>0,26/0,15</td>
<td>1,10</td>
<td>70</td>
<td>-25...+55</td>
<td>1,6</td>
<td>p. 60 / A1</td>
</tr>
</tbody>
</table>

subject to alterations

(1) Nominal data in operating point with maximum load and 230 or 400 VAC
(2) 230 VAC Y / 400 VAC Y

---

**Curves**

- Air performance measured as per ISO 5801,
  Installation category A,
  in ebm-papst full nozzle and without protection against accidental contact

- Suction side: Noise levels:
  LWA as per ISO 13347,
  LpA measured at 1 m distance to fan axis

- The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

- With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
- **Motor protection:** TOP wired internally
- **Leakage current:** < 0.75 mA acc. to EN 60335-1
- **Cable exit:** Variable
- **Terminal box design:** Electrical connection via terminal strip
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1; CE
- **Approvals:** VDE, cURus on request

### Air Performance

<table>
<thead>
<tr>
<th>Direction of air flow</th>
<th>Without attachments</th>
<th>With full round nozzle</th>
<th>With guard grille for short nozzle and mounted terminal box</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;V&quot;</td>
<td>A2D 300-AP02 -01</td>
<td>W2D 300-CP02 -30</td>
<td>S2D 300-AP02 -50*</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A4D 300-AS34 -01</td>
<td>W4D 300-CS34 -30</td>
<td>S4D 300-AS34 -50*</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A2E 300-AP02 -01</td>
<td>W2E 300-CP02 -30</td>
<td>S2E 300-AP02 -50*</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A4E 300-AS72 -01</td>
<td>W4E 300-CS72 -30</td>
<td>S4E 300-AS72 -50*</td>
</tr>
</tbody>
</table>

Direction of air flow "A" on request  
*Terminal box design: Electrical connection via terminal strip

(3) Device is outfitted with a P0 capacitor. EN 60335-1 is to be observed for the end application!

### Curves

Air performance measured as per ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact.

Suction-side noise levels:  
Lₕₐ as per ISO 13347, Lₕₐ measured at 1 m distance to fan axis.

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
AC axial fans - HyBlade®
Ø 300 with motor M4* 068, drawings for direction of air flow "V"

<table>
<thead>
<tr>
<th>Without attachments</th>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4D 300-AS34 -01</td>
<td>1.6</td>
<td></td>
</tr>
<tr>
<td>A4E 300-AS72 -01</td>
<td>2.7</td>
<td></td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 306 mm

<table>
<thead>
<tr>
<th>With full round nozzle</th>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W4D 300-CS34 -30</td>
<td>3.85</td>
<td></td>
</tr>
<tr>
<td>W4E 300-CS72 -30</td>
<td>4.1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>With guard grille for short nozzle</th>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4D 300-AS34 -30</td>
<td>2.60</td>
<td></td>
</tr>
<tr>
<td>S4E 300-AS72 -30</td>
<td>2.85</td>
<td></td>
</tr>
<tr>
<td>S4D 300-AS34 -50*</td>
<td>2.75</td>
<td></td>
</tr>
<tr>
<td>S4E 300-AS72 -50*</td>
<td>3.80</td>
<td></td>
</tr>
</tbody>
</table>

*Type with terminal box:
- Tightening torque: 0.7 Nm ± 0.2 Nm
- Cable diameter: max. 7.5 mm
- Tightening torque: 1.3 Nm ± 0.2 Nm

Internal diameter of the wall ring at least 306 mm
## AC axial fans

Ø 300 with motor M2* 074, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2D 300-AP02 -01</td>
<td>3,1</td>
</tr>
<tr>
<td>A2E 300-AP02 -01</td>
<td>3,1</td>
</tr>
</tbody>
</table>

- Internal diameter of the wall ring at least 306 mm
- Brass lead tips crimped
- Depth of screw max. 10 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W2D 300-CP02 -30</td>
<td>5,2</td>
</tr>
<tr>
<td>W2E 300-CP02 -30</td>
<td>5,2</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2D 300-AP02 -30</td>
<td>4,10</td>
</tr>
<tr>
<td>S2E 300-AP02 -30</td>
<td>4,10</td>
</tr>
<tr>
<td>S2D 300-AP02 -50*</td>
<td>4,25</td>
</tr>
<tr>
<td>S2E 300-AP02 -50*</td>
<td>4,25</td>
</tr>
</tbody>
</table>

*Type with terminal box:

- Internal diameter of the wall ring at least 306 mm
- Cable diameter: max. 7.5 mm
- Tightening torque: 0.7 Nm ± 0.2 Nm

**Typ** **Mass**

<table>
<thead>
<tr>
<th><strong>Typ</strong></th>
<th><strong>Mass</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>kg</strong></td>
<td></td>
</tr>
</tbody>
</table>

39
AC axial fans - HyBlade®
Ø 350

- **Material**: Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  Blades: Plastic PP
  Rotor: Surface coated in black
- **Number of blades**: 5
- **Direction of rotation**: Counter-clockwise, seen on rotor
- **Type of protection**: IP 44, depending on installation and position (acc. to EN 60034-5)
- **Insulation class**: B
- **Mounting position**: Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharge holes**: Rotor-side
- **Mode of operation**: Continuous operation (S1)
- **Bearings**: Maintenance-free ball bearings

### Nominal data

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>4D 350</em></td>
<td>M4D 074-DF</td>
<td>1</td>
<td>3~230/400</td>
<td>50</td>
<td>1370</td>
<td>170</td>
<td>0,64/0,37</td>
<td>---</td>
<td>90</td>
<td>-25 to +65</td>
<td>3,5</td>
<td>p. 61 / C1, C2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>3~230/400</td>
<td>60</td>
<td>1520</td>
<td>230</td>
<td>0,70/0,40</td>
<td>---</td>
<td>90</td>
<td>-25 to +55</td>
<td>3,5</td>
<td></td>
</tr>
<tr>
<td><em>4E 350</em></td>
<td>M4E 074-DF</td>
<td>1</td>
<td>1~230</td>
<td>50</td>
<td>1340</td>
<td>165</td>
<td>0,73</td>
<td>4,0/400</td>
<td>90</td>
<td>-25 to +65</td>
<td>3,5</td>
<td>p. 60 / A1</td>
</tr>
<tr>
<td><em>6E 350</em></td>
<td>M6E 074-DF</td>
<td>2</td>
<td>1~230</td>
<td>60</td>
<td>1020</td>
<td>95</td>
<td>0,42</td>
<td>2,0/400</td>
<td>50</td>
<td>-25 to +65</td>
<td>3,5</td>
<td>p. 60 / A1</td>
</tr>
</tbody>
</table>

subject to alterations

### Curves

- **Air performance measured as per**: ISO 5801, Installation category A, in ebm-papst full nozzle, and without protection against accidental contact.
- **Suction-side noise levels**: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis.
- The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.
- With any deviation from the standard setup, the specific values have to be checked and re-viewed once installed or fitted!
- For detailed information, see page 62 ff.

- **50 Hz**
- **60 Hz**
Motor protection: TOP wired internally
Leakage current: < 0.75 mA acc. to EN 60335-1
Cable exit: Variable
Terminal box design: Electrical connection via terminal strip
Protection class: I
Product conforming to standards: EN 60335-1; CE
Approvals: VDE, cURus on request

Direction of air flow

<table>
<thead>
<tr>
<th>Without attachments</th>
<th>With full round nozzle</th>
<th>With guard grille for short nozzle and mounted terminal box</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;V&quot;</td>
<td>A4D 350-AN08 -01</td>
<td>S4D 350-AN08 -30</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A4E 350-AN02 -01</td>
<td>S4E 350-AN02 -30</td>
</tr>
<tr>
<td>&quot;V&quot;</td>
<td>A6E 350-AN24 -01</td>
<td>S6E 350-AN24 -30</td>
</tr>
</tbody>
</table>

Curves

Air performance measured as per ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact

Suction side noise levels:
LWA as per ISO 13347, LpA measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and re-viewed once installed or fitted!

For detailed information see page 62 ff.

Drawings p. 42
Capacitors p. 54 ff.
Electrical connections p. 60/61
**AC axial fans - HyBlade®**

Ø 350 with motor M** 074, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4D 350-AN08 -01</td>
<td>3,5</td>
</tr>
<tr>
<td>A4E 350-AN02 -01</td>
<td>3,5</td>
</tr>
<tr>
<td>A6E 350-AN24 -01</td>
<td>3,5</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 358 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W4D 350-CN08 -30</td>
<td>6,4</td>
</tr>
<tr>
<td>W4E 350-CN02 -30</td>
<td>6,4</td>
</tr>
<tr>
<td>W6E 350-CN24 -30</td>
<td>6,5</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4D 350-AN08 -30</td>
<td>5,00</td>
</tr>
<tr>
<td>S4E 350-AN02 -30</td>
<td>5,00</td>
</tr>
<tr>
<td>S6E 350-AN24 -30</td>
<td>5,00</td>
</tr>
<tr>
<td>S4D 350-AN08 -50*</td>
<td>5,15</td>
</tr>
<tr>
<td>S4E 350-AN02 -50*</td>
<td>5,15</td>
</tr>
<tr>
<td>S6E 350-AN24 -50*</td>
<td>5,15</td>
</tr>
</tbody>
</table>

*Type with terminal box:

- **Tightening torque:** 0,7 Nm ± 0,2 Nm
- **Cable diameter:** max. 7.5 mm
- **Tightening torque:** 1,3 Nm ± 0,2 Nm
AC axial fans - HyBlade®
Ø 400

- **Material:** Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  Blades: Plastic PP; Sheet steel, coated in black
  Rotor: Surface coated in black

- **Number of blades:** 5

- **Direction of rotation:** Counter-clockwise, seen on rotor

- **Type of protection:** IP 44, depending on installation and position (acc. to EN 60034-5)

- **Insulation class:** “F”; “B”

- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request

- **Condensate discharge holes:** Rotor-side

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

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

---

### Nominal data

<table>
<thead>
<tr>
<th>Typ</th>
<th>Motor</th>
<th>Curve</th>
<th>Nominal voltage</th>
<th>Frequency</th>
<th>Speed/rpm</th>
<th>Input power</th>
<th>Current draw</th>
<th>Capacitor</th>
<th>Max. back pressure</th>
<th>Perm. amb. temp.</th>
<th>Mass without attachments</th>
<th>Electr. connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>*4D 400(2)</td>
<td>M4D 074-El</td>
<td>①</td>
<td>3~230/400</td>
<td>50</td>
<td>1450</td>
<td>135</td>
<td>0,76/0,44</td>
<td>---</td>
<td>150</td>
<td>-25...+40</td>
<td>4,2</td>
<td>p. 61 / C1,C2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>②</td>
<td>3~230/400</td>
<td>60</td>
<td>1690</td>
<td>185</td>
<td>0,86/0,39</td>
<td>---</td>
<td>120</td>
<td>-25...+40</td>
<td>4,2</td>
<td></td>
</tr>
<tr>
<td>*4E 400</td>
<td>M4E 074-El</td>
<td>③</td>
<td>1~230</td>
<td>50</td>
<td>1430</td>
<td>160</td>
<td>0,73</td>
<td>6,0/400</td>
<td>150</td>
<td>-25...+40</td>
<td>4,1</td>
<td>p. 60 / A1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>④</td>
<td>1~230</td>
<td>60</td>
<td>1700</td>
<td>240</td>
<td>1,06</td>
<td>6,0/400</td>
<td>75</td>
<td>-25...+40</td>
<td>4,1</td>
<td></td>
</tr>
<tr>
<td>*6E 400(1)</td>
<td>M6E 074-DF</td>
<td>①</td>
<td>1~230</td>
<td>50</td>
<td>870</td>
<td>120</td>
<td>0,53</td>
<td>3,0/400</td>
<td>40</td>
<td>-25...+60</td>
<td>3,7</td>
<td>p. 60 / A1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>②</td>
<td>1~230</td>
<td>60</td>
<td>870</td>
<td>150</td>
<td>0,67</td>
<td>3,0/400</td>
<td>40</td>
<td>-25...+45</td>
<td>3,7</td>
<td></td>
</tr>
</tbody>
</table>

(1) Nominal data in operating point with maximum load and 230 VAC
(2) 230 VAC Δ / 400 VAC Y

---

### Curves

<table>
<thead>
<tr>
<th>Curves</th>
<th>n rpm</th>
<th>P_e W</th>
<th>I A</th>
<th>LWA dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1450</td>
<td>135</td>
<td>0,76/0,44</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>1435</td>
<td>163</td>
<td>0,81/0,47</td>
<td>73</td>
</tr>
<tr>
<td></td>
<td>1420</td>
<td>182</td>
<td>0,85/0,49</td>
<td>72</td>
</tr>
<tr>
<td></td>
<td>1410</td>
<td>203</td>
<td>0,87/0,50</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>1690</td>
<td>185</td>
<td>0,68/0,39</td>
<td>76</td>
</tr>
<tr>
<td></td>
<td>1680</td>
<td>223</td>
<td>0,76/0,45</td>
<td>76</td>
</tr>
<tr>
<td></td>
<td>1635</td>
<td>256</td>
<td>0,85/0,49</td>
<td>76</td>
</tr>
<tr>
<td></td>
<td>1605</td>
<td>290</td>
<td>0,94/0,54</td>
<td>76</td>
</tr>
</tbody>
</table>

Air performance measured as per ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact

Suction-side noise levels: LWA as per ISO 13347, LWA measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
- Motor protection: ⚫ ⚫ ⚫ ⚫ TOP wired internally
- Leakage current: < 0.75 mA acc. to EN 60335-1
- Cable exit: Variable
- Terminal box design: Electrical connection via terminal strip
- Protection class: I
- Product conforming to standards: EN 60335-1; CE
- Approvals: VDE, cURus on request

Curves

<table>
<thead>
<tr>
<th>Air performance measured as per: ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction-side noise levels: $L_{WA}$ as per ISO 13347, $L_{PA}$ measured at 1 m distance to fan axis</td>
</tr>
<tr>
<td>The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.</td>
</tr>
<tr>
<td>With any deviation to the standard setup, the specific values have to be checked and re-viewed once installed or fitted!</td>
</tr>
</tbody>
</table>

For detailed information see page 62 ff.
AC axial fans
Ø 400 with motor M4* 074, drawings for direction of air flow "V"

### Without attachments

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4D 400-AP12 -01</td>
<td>4.2</td>
</tr>
<tr>
<td>A4E 400-AP02 -01</td>
<td>4.1</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 400 mm

### With full round nozzle

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W4D 400-CP12 -30</td>
<td>8.0</td>
</tr>
<tr>
<td>W4E 400-CP02 -30</td>
<td>8.0</td>
</tr>
</tbody>
</table>

### With guard grille for short nozzle

<table>
<thead>
<tr>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4D 400-AP12 -03</td>
<td>5.90</td>
</tr>
<tr>
<td>S4E 400-AP02 -03</td>
<td>5.90</td>
</tr>
<tr>
<td>S4D 400-AP12 -50*</td>
<td>6.05</td>
</tr>
<tr>
<td>S4E 400-AP02 -50*</td>
<td>6.05</td>
</tr>
</tbody>
</table>

*Type with terminal box:

- Tightening torque: 0.7 Nm ± 0.2 Nm
- Cable diameter: max. 7.5 mm
- Tightening torque: 1.3 Nm ± 0.2 Nm
AC axial fans - HyBlade®
Ø 400 with motor M6E 074, drawings for direction of air flow "V"

<table>
<thead>
<tr>
<th>Without attachments</th>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>A6E 400-AN24 -01</td>
<td>3.7</td>
<td></td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 400 mm

<table>
<thead>
<tr>
<th>With full round nozzle</th>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>W6E 400-CN24 -30</td>
<td>7.6</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>With guard grille for short nozzle</th>
<th>Typ</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>S6E 400-AN24 -30</td>
<td>5.40</td>
<td></td>
</tr>
<tr>
<td>S6E 400-AN24 -50*</td>
<td>5.55</td>
<td></td>
</tr>
</tbody>
</table>

*Type with terminal box:
- Tightening torque: 0.7 Nm ± 0.2 Nm
- Cable diameter: max. 7.5 mm
- Tightening torque: 1.3 Nm ± 0.2 Nm
AC axial fans - HyBlade®
Ø 450

- **Material:** Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  Blades: Plastic PP
  Rotor: Surface coated in black
  Terminal box: Plastic ABS

- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharge holes:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

### Nominal data

<table>
<thead>
<tr>
<th>Typ</th>
<th>Motor</th>
<th>VAC Hz</th>
<th>rpm</th>
<th>W</th>
<th>A</th>
<th>pF/VDB</th>
<th>Speed / (m³/h)</th>
<th>Max. input power (W)</th>
<th>Max. current draw (A)</th>
<th>Cap. A μF</th>
<th>Max. back pressure Pa</th>
<th>Perm. amb. temp. °C</th>
<th>Mass without attachments kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>*4D 450</td>
<td>M4D 094-EA</td>
<td>3~400</td>
<td>50</td>
<td>1250</td>
<td>340</td>
<td>0,61</td>
<td>---</td>
<td>120</td>
<td>25...60</td>
<td>---</td>
<td>4,9</td>
<td>72</td>
<td>4,9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>60</td>
<td>25...60</td>
<td>---</td>
<td>72</td>
<td>4,9</td>
<td>72</td>
</tr>
<tr>
<td></td>
<td>M4D 094-HA</td>
<td>3~400</td>
<td>50</td>
<td>1360</td>
<td>415</td>
<td>0,70</td>
<td>---</td>
<td>85</td>
<td>25...50</td>
<td>---</td>
<td>4,9</td>
<td>72</td>
<td>4,9</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td>60</td>
<td>25...50</td>
<td>---</td>
<td>72</td>
<td>4,9</td>
<td>72</td>
</tr>
</tbody>
</table>

subject to alterations

(1) Nominal data in operating point with maximum load and 400 VAC

### Curves

- Air performance measured as per: ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact
- Suction-side noise levels: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis
- The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.
- With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
- **Motor protection:** Design with thermal overload protector
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Electrical connection:** Via terminal box
- **Protection class:** I acc. to EN 61800-5-1
- **Product conforming to standards:** EN 60034-1; CE
- **Approvals:** CCC

### Motor data

| Motor protection: Design with thermal overload protector
| Leakage current: < 3.5 mA acc. to EN 61800-5-1
| Electrical connection: Via terminal box
| Protection class: I acc. to EN 61800-5-1
| Product conforming to standards: EN 60034-1; CE
| Approvals: CCC

---

**Curves**

<table>
<thead>
<tr>
<th>rpm</th>
<th>Ps</th>
<th>I</th>
<th>LWA dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1400</td>
<td>386</td>
<td>0.88</td>
<td>71</td>
</tr>
<tr>
<td>1385</td>
<td>422</td>
<td>0.91</td>
<td>68</td>
</tr>
<tr>
<td>1370</td>
<td>453</td>
<td>0.95</td>
<td>68</td>
</tr>
<tr>
<td>1380</td>
<td>480</td>
<td>0.98</td>
<td>68</td>
</tr>
<tr>
<td>1195</td>
<td>285</td>
<td>0.49</td>
<td>68</td>
</tr>
<tr>
<td>1180</td>
<td>308</td>
<td>0.52</td>
<td>65</td>
</tr>
<tr>
<td>1130</td>
<td>326</td>
<td>0.55</td>
<td>64</td>
</tr>
<tr>
<td>1110</td>
<td>340</td>
<td>0.58</td>
<td>64</td>
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<tr>
<td>1575</td>
<td>580</td>
<td>1.02</td>
<td>73</td>
</tr>
<tr>
<td>1550</td>
<td>620</td>
<td>1.09</td>
<td>71</td>
</tr>
<tr>
<td>1530</td>
<td>657</td>
<td>1.15</td>
<td>70</td>
</tr>
<tr>
<td>1510</td>
<td>690</td>
<td>1.20</td>
<td>70</td>
</tr>
<tr>
<td>1175</td>
<td>375</td>
<td>0.65</td>
<td>67</td>
</tr>
<tr>
<td>1130</td>
<td>388</td>
<td>0.68</td>
<td>64</td>
</tr>
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<td>1095</td>
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<td>63</td>
</tr>
<tr>
<td>1060</td>
<td>400</td>
<td>0.72</td>
<td>62</td>
</tr>
</tbody>
</table>

---

**Direction of air flow**

- Without attachments
- With full round nozzle
- With guard grille for short nozzle

---

**Direction of air flow**

- Without attachments
- With full round nozzle
- With guard grille for short nozzle

---

**Curves**

- Air performance measured as per ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact.
- Suction side noise levels: LWA as per ISO 13347, LpA measured at 1 m distance to fan axis.
- The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.
- With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
AC axial fans - HyBlade®
Ø 450

- Material: Guard grille: Steel, phosphated and coated in black plastic (RAL9005)
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic (RAL9005)
  Blades: Plastic PP
  Rotor: Surface coated in black
  Terminal box: Plastic ABS

- Number of blades: 5
- Direction of rotation: Counter-clockwise, seen on rotor
- Type of protection: IP 54 (acc. to EN 60529)
- Insulation class: "F"
- Mounting position: Shaft horizontal or rotor on bottom; rotor on top on request
- Condensate discharge holes: Rotor-side
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance-free ball bearings

Nominal data

<table>
<thead>
<tr>
<th>Typ</th>
<th>Motor</th>
<th>Curve</th>
<th>Nominal voltage</th>
<th>Frequency</th>
<th>Speed (rpm)</th>
<th>Max. input power (W)</th>
<th>Max. current draw (A)</th>
<th>Capacitor</th>
<th>Max. back pressure</th>
<th>Perm. amb. temp.</th>
<th>Mass without attachments</th>
<th>Elect. connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>*4E 450</td>
<td>M4E 094-EA</td>
<td></td>
<td>1~230</td>
<td>50</td>
<td>1300</td>
<td>350</td>
<td>1,55</td>
<td>8,0/400</td>
<td>120</td>
<td>-25..+55</td>
<td>4,9</td>
<td>p. 60 / A2c</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1~230</td>
<td>60</td>
<td>1490</td>
<td>425</td>
<td>1,87</td>
<td>8,0/400</td>
<td>50</td>
<td>-25..+45</td>
<td>4,9</td>
<td></td>
</tr>
<tr>
<td>*4E 450</td>
<td>M4E 094-HA</td>
<td></td>
<td>1~230</td>
<td>50</td>
<td>1310</td>
<td>490</td>
<td>2,36</td>
<td>10,0/400</td>
<td>125</td>
<td>-25..+65</td>
<td>7,5</td>
<td>p. 60 / A2b</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1~230</td>
<td>60</td>
<td>1390</td>
<td>650</td>
<td>2,96</td>
<td>10,0/400</td>
<td>115</td>
<td>-25..+75</td>
<td>7,5</td>
<td></td>
</tr>
<tr>
<td>*6E 450²</td>
<td>M6E 094-EA</td>
<td></td>
<td>1~230</td>
<td>50</td>
<td>900</td>
<td>190</td>
<td>0,86</td>
<td>5,0/450</td>
<td>60</td>
<td>-25..+65</td>
<td>4,9</td>
<td>p. 60 / A2c</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1~230</td>
<td>60</td>
<td>990</td>
<td>260</td>
<td>1,16</td>
<td>5,0/450</td>
<td>75</td>
<td>-25..+65</td>
<td>4,9</td>
<td></td>
</tr>
</tbody>
</table>

subject to alterations

(1) Nominal data in operating point with maximum load and 230 VAC
(2) ErP2013

Curves

- Air performance measured as per: ISO 5801,
- Installation category A,
- in ebm-papst full nozzle
- and without protection against accidental contact
- Suction-side noise levels:
  - $L_{WA}$ as per ISO 13347,
  - $L_{PA}$ measured at 1 m distance to fan axis
- The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.
- With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
- Motor protection: TOP wired internally
- Leakage current: < 3.5 mA acc. to EN 61800-5-1
- Electrical connection: Via terminal box, capacitor integrated and connected
- Protection class: I acc. to EN 61800-5-1
- Product conforming to standards: EN 60034-1; CE
- Approvals: CCC

**Curves**

<table>
<thead>
<tr>
<th>n (rpm)</th>
<th>P_e (W)</th>
<th>I (A)</th>
<th>LWA (dB(A))</th>
</tr>
</thead>
<tbody>
<tr>
<td>925</td>
<td>171</td>
<td>0.79</td>
<td>61</td>
</tr>
<tr>
<td>915</td>
<td>180</td>
<td>0.82</td>
<td>60</td>
</tr>
<tr>
<td>905</td>
<td>188</td>
<td>0.84</td>
<td>59</td>
</tr>
<tr>
<td>900</td>
<td>190</td>
<td>0.86</td>
<td>59</td>
</tr>
<tr>
<td>1060</td>
<td>241</td>
<td>1.05</td>
<td>64</td>
</tr>
<tr>
<td>1035</td>
<td>251</td>
<td>1.09</td>
<td>63</td>
</tr>
<tr>
<td>1015</td>
<td>260</td>
<td>1.13</td>
<td>62</td>
</tr>
<tr>
<td>990</td>
<td>260</td>
<td>1.16</td>
<td>62</td>
</tr>
</tbody>
</table>

Air performance measured as per ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact.

Suction side noise levels: LWA as per ISO 13347, LWA measured at 1 m distance to fan axis.

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 62 ff.
AC axial fans - HyBlade®
Ø 450 with motor M** 094, drawings for direction of air flow "V"

<table>
<thead>
<tr>
<th>Without attachments</th>
<th>Typ</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A4D 450-AU01 -01</td>
<td>4.9</td>
</tr>
<tr>
<td></td>
<td>A4D 450-A014 -01</td>
<td>7.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>With full round nozzle</th>
<th>Typ</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>W4D 450-CU01 -01</td>
<td>9.6</td>
</tr>
<tr>
<td></td>
<td>W4D 450-C014 -01</td>
<td>12.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>With guard grille for short nozzle</th>
<th>Typ</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S4D 450-AU01 -01</td>
<td>7.2</td>
</tr>
<tr>
<td></td>
<td>S4D 450-A014 -01</td>
<td>10.0</td>
</tr>
</tbody>
</table>

Internal diameter of the wall ring at least 454 mm

---

Kabelverschraubung

---

Depth of screw max. y mm

---

Internal diameter of the wall ring at least 454 mm
AC axial fans - HyBlade®
Ø 450 with motor M4* 094, drawings for direction of air flow "V"

<table>
<thead>
<tr>
<th>Without attachments</th>
<th>Typ</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kg</td>
<td>cm</td>
</tr>
<tr>
<td>A4E 450-A009 -01</td>
<td>7,5</td>
<td>104</td>
</tr>
<tr>
<td>A4E 450-AU03 -01</td>
<td>4,9</td>
<td>77</td>
</tr>
<tr>
<td>A6E 450-AU04 -01</td>
<td>4,9</td>
<td>98</td>
</tr>
</tbody>
</table>

| Internal diameter of the wall ring at least 454 mm |

<table>
<thead>
<tr>
<th>With full round nozzle</th>
<th>Typ</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kg</td>
<td>cm</td>
</tr>
<tr>
<td>W4E 450-C009 -01</td>
<td>12,7</td>
<td>146,5</td>
</tr>
<tr>
<td>W4E 450-CU03 -01</td>
<td>9,6</td>
<td>135</td>
</tr>
<tr>
<td>W6E 450-CU04 -01</td>
<td>9,6</td>
<td>135</td>
</tr>
</tbody>
</table>

| Internal diameter of the wall ring at least 454 mm |

<table>
<thead>
<tr>
<th>With guard grille for short nozzle</th>
<th>Typ</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kg</td>
<td>cm</td>
</tr>
<tr>
<td>S4E 450-A009 -01</td>
<td>10,0</td>
<td>41</td>
</tr>
<tr>
<td>S4E 450-AU03 -01</td>
<td>7,5</td>
<td>24</td>
</tr>
<tr>
<td>S6E 450-AU04 -01</td>
<td>7,0</td>
<td>49</td>
</tr>
</tbody>
</table>
- **Material**: Housing made of thermoplastic resin
- **Connection line**: Multi-lead PVC cable 0.5 mm² with brass lead tips
- **Approval**: VDE according to DIN EN 60252 (VDE 0560/8)
- **Calculated life time**: 400 V; -25 to +85°C; 30,000 hrs; class A 450 V; -25 to +85°C; 10,000 hrs; class B

### MKP motor capacitors P0 (without fuse)

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Capacity</th>
<th>a</th>
<th>b (max.)</th>
<th>c</th>
</tr>
</thead>
<tbody>
<tr>
<td>99283-4-7320</td>
<td>2.0 μF</td>
<td>25-28</td>
<td>58,0</td>
<td>235,0</td>
</tr>
<tr>
<td>99284-4-7320</td>
<td>3.0 μF</td>
<td>25-28</td>
<td>70,0</td>
<td>235,0</td>
</tr>
<tr>
<td>99285-4-7320</td>
<td>4.0 μF</td>
<td>28-32</td>
<td>58,0</td>
<td>235,0</td>
</tr>
<tr>
<td>99286-4-7320</td>
<td>5.0 μF</td>
<td>30-36</td>
<td>70,0</td>
<td>235,0</td>
</tr>
<tr>
<td>99287-4-7320</td>
<td>6.0 μF</td>
<td>30-36</td>
<td>70,0</td>
<td>235,0</td>
</tr>
<tr>
<td>99288-4-7320</td>
<td>8.0 μF</td>
<td>35-40</td>
<td>72,0</td>
<td>235,0</td>
</tr>
<tr>
<td>99289-4-7320</td>
<td>10.0 μF</td>
<td>35-40</td>
<td>72,0</td>
<td>200,0</td>
</tr>
</tbody>
</table>

subject to alterations
Capacitors

- **Material:** Plastic cap, aluminium cup
- **Designation:** FPU or P2 according to IEC 252 (non-flammable, non-explosive, circuit-breaking)
- **Approval:** VDE according to DIN EN 60252 (VDE 0560/8)
- **Calculated life time:**
  - 420 V; -25 to +85°C; 30,000 hrs; class A
  - 470 V; -25 to +85°C; 10,000 hrs; class B
  - 500 V; -25 to +85°C; 3,000 hrs; class C

**MKP motor capacitors FPU or P2 (with fuse)**

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Capacity</th>
<th>a (max.)</th>
<th>b (max.)</th>
<th>c (max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>02156-4-7320</td>
<td>2,0 μF</td>
<td>25,0</td>
<td>77,0</td>
<td>92,0</td>
</tr>
<tr>
<td>02160-4-7320</td>
<td>3,0 μF</td>
<td>30,0</td>
<td>71,0</td>
<td>92,0</td>
</tr>
<tr>
<td>02161-4-7320</td>
<td>4,0 μF</td>
<td>25-30</td>
<td>104,0</td>
<td>135,0</td>
</tr>
<tr>
<td>02162-4-7320</td>
<td>5,0 μF</td>
<td>25-30</td>
<td>104,0</td>
<td>113,0</td>
</tr>
<tr>
<td>02163-4-7320</td>
<td>6,0 μF</td>
<td>30,0</td>
<td>101,0</td>
<td>110,0</td>
</tr>
<tr>
<td>02165-4-7320</td>
<td>8,0 μF</td>
<td>30-35</td>
<td>102,0</td>
<td>111,0</td>
</tr>
<tr>
<td>02166-4-7320</td>
<td>10,0 μF</td>
<td>35,0</td>
<td>96,0</td>
<td>110,0</td>
</tr>
</tbody>
</table>

subject to alterations

- **Pull-off protector:** The housing expands by max. 9 mm. The protector responds to overload by the generated excess pressure snapping off the internal lead in a predetermined breaking point.
- **Mounting:** c is the overall dimension of the capacitor which has to be taken into account when mounting the part. The capacitor design, however, depends on the manufacturer. The expansion (9 mm) is either added to dimension b, or it is already integrated in the capacitor.
**Technical features:**
- Speed adjustment input (230V)
- Electronics / motor overtemperature protection
- Motor current limitation
- Locked rotor protection
- Soft start

**H3) EC motors M3G 055 / M3G 074 (2 Speed stages)**

<table>
<thead>
<tr>
<th>Line</th>
<th>Connection</th>
<th>Colour</th>
<th>Assignment / function</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON10</td>
<td>L</td>
<td>black</td>
<td>Power supply 230 VAC, 50 - 60 Hz, see type plate for voltage range</td>
</tr>
<tr>
<td>CON11</td>
<td>N</td>
<td>blue</td>
<td>Neutral conductor</td>
</tr>
<tr>
<td>CON12</td>
<td>PE</td>
<td>green/yellow</td>
<td>Protective earth</td>
</tr>
<tr>
<td>CON70</td>
<td>SL</td>
<td>brown</td>
<td>Speed selection: switch open = speed 1; switch closed = speed 2</td>
</tr>
</tbody>
</table>
Electrical connections EC

Technical features:
- Control input 0-10 VDC / PWM
- Output 10 VDC max. 1.1 mA
- Tach output
- Electronics / motor overtemperature protection
- Motor current limitation
- Locked rotor protection
- Soft start

H4) EC motors M3G 055 / M3G 074 (Speed-controlled)

### Technical features:
- Control input 0-10 VDC / PWM
- Output 10 VDC max. 1.1 mA
- Tach output
- Electronics / motor overtemperature protection
- Motor current limitation
- Locked rotor protection
- Soft start

### Electrical connections EC (H4)

#### Customer circuit

- **Speed setting**
  - 1-10V
  - 10V -> n = max
  - 1V -> n = min
  - <1V -> n = 0

- **Speed setting with PWM 1-10kHz**
  - 15V
  - Imax=10mA
  - 100% PWM -> n = max
  - 10% PWM -> n = min
  - <10% PWM -> n = 0

#### Connection

- **CON10**
  - L (black)
  - Control input: Power supply 230 VAC, 50 - 60 Hz, see type plate for voltage range

- **CON11**
  - N (blue)
  - Neutral conductor

- **CON12**
  - PE (green/yellow)
  - Protective earth

- **1 GND**
  - blue
  - GND - Connection for control interface

- **2 0-10V PWM**
  - yellow
  - Control input 0 - 10 V or PWM, electrically isolated

- **3 10V/PWM**
  - red
  - Voltage output 10V / 1.1mA, electrically isolated, not short-circuit-proof

- **4 Tach**
  - white
  - Tach output: Open Collector, 1 pulse per revolution, electrically isolated

### Fan / Motor

#### Fan / Motor connections

- **AC1**
  - L (black)
- **AC2**
  - N (blue)
- **PE**
  - green/yellow

#### Diagram

- Diagram showing electrical connections for H4 EC motors M3G 055 / M3G 074 (Speed-controlled)

---

<table>
<thead>
<tr>
<th>Line</th>
<th>Connection</th>
<th>Colour</th>
<th>Assignment / function</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON10</td>
<td>L</td>
<td>black</td>
<td>Power supply 230 VAC, 50 - 60 Hz, see type plate for voltage range</td>
</tr>
<tr>
<td>CON11</td>
<td>N</td>
<td>blue</td>
<td>Neutral conductor</td>
</tr>
<tr>
<td>CON12</td>
<td>PE</td>
<td>green/yellow</td>
<td>Protective earth</td>
</tr>
<tr>
<td>1</td>
<td>GND</td>
<td>blue</td>
<td>GND - Connection for control interface</td>
</tr>
<tr>
<td>2</td>
<td>0-10V PWM</td>
<td>yellow</td>
<td>Control input 0 - 10 V or PWM, electrically isolated</td>
</tr>
<tr>
<td>3</td>
<td>10V/PWM</td>
<td>red</td>
<td>Voltage output 10V / 1.1mA, electrically isolated, not short-circuit-proof</td>
</tr>
<tr>
<td>4</td>
<td>Tach</td>
<td>white</td>
<td>Tach output: Open Collector, 1 pulse per revolution, electrically isolated</td>
</tr>
</tbody>
</table>
K1) EC motors M3G 084 (Speed-controlled)

Technical features:
- Control input 0-10 VDC / PWM
- Output 10 VDC max. 1.1 mA
- Alarm relay
- Electronics / motor overtemperature protection
- Line undervoltage detection
- Motor current limitation
- Soft start

Customer circuit

Line 1
- L black Mains 50/60 Hz, phase
- N blue Mains 50/60 Hz, neutral
- PE green/yellow Protective earth
- NC white1 Alarm relay, break for failure
- COM white2 Alarm relay, COMMON

Line 2
- red +10 V Voltage output +10 V max. 1.1 mA
- yellow 0-10 V / PWM Control input (impedance 100 kΩ)
- blue GND GND
A1) Single-phase capacitor motor
with TOP wired internally

![Diagram of single-phase capacitor motor with TOP wired internally]

- \( U_1 \) = blue
- \( U_2 \) = black
- \( Z \) = brown
- \( \oplus \) = green/yellow

A2b) Single-phase capacitor motor
with connection for external TOP

![Diagram of single-phase capacitor motor with connection for external TOP]

- \( U_1 \) = blue
- \( U_2 \) = black
- \( Z \) = brown
- \( \oplus \) = green/yellow

A2c) Single-phase capacitor motor
without TOP

![Diagram of single-phase capacitor motor without TOP]

- \( U_1 \) = blue
- \( U_2 \) = black
- \( Z \) = brown
- \( \oplus \) = green/yellow

Fans
with terminal box
C1) Delta connection (3~ 230 VAC power line)*
without TOP

U₁ = black
U₂ = green
V₁ = blue
V₂ = white
W₁ = brown
W₂ = yellow
⊕ = green/yellow

C2) Star connection (3~ 400 VAC power line)*
without TOP

U₁ = black
U₂ = green
V₁ = blue
V₂ = white
W₁ = brown
W₂ = yellow
⊕ = green/yellow

F1b) Delta connection*
with TOP

U₁ = black
U₂ = green
V₁ = blue
V₂ = white
W₁ = brown
W₂ = yellow
⊕ = green/yellow

F2b) Star connection*
with TOP

U₁ = black
U₂ = green
V₁ = blue
V₂ = white
W₁ = brown
W₂ = yellow
⊕ = green/yellow

*Direction of rotation is reversed by swapping two line phases.
High standards for all ebm-papst products

Here at ebm-papst, we constantly strive to further improve our products in order to be able to offer you the best possible product for your application. Careful monitoring of the market ensures that technical innovations are reflected in the improvements of our products.

Based on the technical parameters listed below and the ambience you want our product to operate in, we here at ebm-papst can always work out the best solution for your specific application.

General performance parameters

Any deviations from the technical data and parameters described here are listed on the product-specific data sheet.

Type of protection
The type of protection is specified in the product-specific data sheets.

Insulation class
The insulation class is specified in the product-specific data sheets.

Mounting position
The mounting position is specified in the product-specific data sheets.

Condensate discharge holes
Information on the condensate discharge holes is provided in the product-specific data sheets.

Mode of operation
The mode of operation is specified in the product-specific data sheets.

Protection class
The protection class is specified in the product-specific data sheets.

Service life
The service life of ebm-papst products depends on two major factors:

– The service life of the insulation system
– The service life of the bearing system

The service life of the insulation system mainly depends on voltage level, temperature and ambient conditions, such as humidity and condensation. The service life of the bearing system depends mainly on the thermal load on the bearing.

The majority of our products use maintenance-free ball bearings for any mounting position possible. As an option, sleeve bearings can be used, which is indicated on the product-specific data sheet wherever applicable.

The service life L10 of the ball bearings can be taken as approx. 40,000 operating hours at an ambient temperature of 40 °C, yet this estimate can vary according to the actual ambient conditions. We will gladly provide you with a lifetime calculation taking into account your specific operating conditions.

Motor protection / thermal protection

Information on motor protection and thermal protection is provided in the product-specific data sheets. Depending on motor type and field of application, the following protective features are realised:

– Thermal overload protection (TOP), either in-circuit or external
– PTC with electronic diagnostics
– Impedance protection
– Thermal overload protection (TOP) with electronic diagnostics
– Current limitation via electronics

If an external TOP is connected, the customer has to make sure to connect a conventional trigger device for switching it off.

Products without fitted TOP and without protection against improper use, a motor protection complying with the valid standards has to be installed.
Legal and normative directives

The products described in this catalogue are designed, developed and produced in keeping with the standards in place for the relevant product and, if known, the conditions governing the relevant fields of application.

Standards
Information on standards is provided in the product-specific data sheets.

EMC
Information on EMC standards is provided in the product-specific data sheets. Complying with the EMC standards has to be established on the final appliance, as different mounting situations can result in changed EMC properties.

Leakage current
Information on the leakage current is provided in the product-specific data sheets. Measuring is according to IEC 60990.

Approvals
In case you require a specific approval for your ebm-papst product (VDE, UL, GOST, CCC, CSA, etc.) please let us know. Most of our products can be supplied with the relevant approval. Information on existing approvals is provided in the product-specific data sheets.

Mechanical strain / performance parameters
All ebm-papst products are subjected to comprehensive tests complying with the normative specifications. In addition to this, the tests also reflect the vast experience and expertise of ebm-papst.

Vibration test
Vibration tests are carried out in compliance with
– Vibration test in operation according to DIN IEC 68, parts 2-6
– Vibration test at standstill according to DIN IEC 68, parts 2-6

Shock load
Shock load tests are carried out in compliance with
– Shock load according to DIN IEC 68, parts 2-27

Balancing quality
Testing the balancing quality is carried out in compliance with
– Residual imbalance according to DIN ISO 1940
– Standard balancing quality level G 6.3

Should you require a higher balancing quality level for your specific application, please let us know and specify this when ordering your product.

Chemo-physical strain / performance parameters
Should you have questions about chemo-physical strain, please direct them to your ebm-papst contact.

Fields of application, industries and applications
Our products are used in various industries and applications:
Ventilation, air-conditioning and refrigeration technology, clean room technology, automotive and rail technology, medical and laboratory technology, electronics, computer and office technology, telecommunications, household appliances, heating, machines and plants, drive engineering. Our products are not designed for use in the aviation and aerospace industry!

Air performance measurements
All air performance measurements are carried out on suction side and on chamber test beds conforming to the specifications as per ISO 5801 and DIN 24163. The fans under test are installed in the measuring chamber at free air intake and exhaust (installation category A) and are operated at nominal voltage, with AC also at nominal frequency, and without any additional components such as guard grilles.

As required by the standard, the air performance curves correspond to an air density of 1.2 kg/m³.
Measurement conditions for air and noise measurement

ebm-papst products are measured under the following conditions:
- Axial and diagonal fans in direction of rotation “V” in full nozzle and without guard grille
- Backward curved centrifugal fans, free-running and with inlet nozzle
- Forward curved single and dual inlet centrifugal fans with housing

Noise measurements

All noise measurements are carried out in low-reflective test rooms with reverberant floor. Thus the ebm-papst acoustic test chambers meet the requirements of precision class 1 according to DIN EN ISO 3745. For noise measurement, the fans being tested are placed in a reverberant wall and operated at nominal voltage (for AC, also at nominal frequency) without additional attachments such as the guard grille.

Sound pressure level and sound level

All acoustic values are established according to ISO 13347, DIN 45635 and ISO 3744/3745 to accuracy class 2 and given in A-rated form.

When the sound pressure level \( L_p \) is measured, the microphone is on the intake side of the fan being tested, usually at a distance of 1 m on the fan axis.

To measure the sound power level \( L_w \), 10 microphones are distributed over an enveloping surface on the intake side of the fan being tested (see graphic). The sound power level measured can be roughly calculated from the sound pressure level by adding 7 dB.

Measuring configuration as per ISO 13347-3 respectively DIN 45635-38:
- 10 measuring points
- \( d \geq D \)
- \( h = 1.5d \ldots 4.5d \)
- Measurement area \( S = 6d^2 + 7d(h + 1.5d) \)
Adding multiple noise sources with the same level

Adding 2 noise sources with the same volume results in a level increase of approx. 3 dB. The noise characteristics of multiple identical fans can be determined in advance based on the noise values specified in the data sheet. This is shown in the diagram opposite.

**Example:** 8 A3G800 axial fans are on a condenser. According to the data sheet, the sound pressure level of a fan is approximately 75 dB(A). The level increase measured from the diagram is 9 dB. Thus the overall sound level of the installation can be expected to be 84 dB(A).

Adding two noise sources with different levels

The acoustic performance of two different fans can be predetermined based on the sound levels given in the data sheet. This is shown in the diagram opposite.

**Example:** There is an axial fan A3G800 with a sound pressure level of 75 dB(A) at the operating point and an axial fan A3G710 with 71 dB(A) in a ventilation unit. The level difference is 4 dB. The level increase can now be read in the diagram as approx. 1.5 dB. This means that the overall sound level of the unit can be expected to be 76.5 dB(A).

Distance laws

Sound power level is independent of distance to the sound source. In contrast to this, sound pressure level decreases the further away the noise source is. The adjacent diagram shows the decrease in level under far sound field conditions. Far sound field conditions apply whenever the distance between microphone and fan is big when compared to fan diameter and wavelength to be considered. For more information on far sound field, please consult the relevant literature on this complex topic. Per doubling of distance, the level in the far sound field decreases by 6 dB. In the near field of the fan, other correlations apply and the decrease in levels can be considerably smaller. The following example only applies to far sound field conditions and can vary strongly depending on the installation effects:

With an axial fan A3G300, a sound pressure level of 65 dB(A) was measured at a distance of 1 m. According to the adjacent diagram, at a distance of 20 m we would get a reduction by 26 dB, i.e. a sound pressure level of 39 dB(A).
ebm-papst in Germany

Germany

ebm-papst
Mulfingen GmbH & Co. KG
Bachmühle 2
D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

ebm-papst
St. Georgen GmbH & Co. KG
Hermann-Papst-Straße 1
D-78112 St. Georgen
Phone +49 7724 81-0
Fax +49 7724 81-1309
info2@de.ebmpapst.com
www.ebmpapst.com

ebm-papst
Landshut GmbH
Hofmark-Alch-Straße 25
D-84030 Landshut
Phone +49 871 707-0
Fax +49 871 707-465
info3@de.ebmpapst.com
www.ebmpapst.com

Distributors

Frankfurt
R.E.D. Handelsgesellschaft mbH
Gutenbergstraße 3
D-63110 Rodgau - Jügesheim
Phone +49 6106 841-0
Fax +49 6106 841-111
info@red-elektromechanik.de
www.red-elektromechanik.de

Hamburg
Breuell + Hilgenfeldt GmbH
Grützmühlenweg 48
D-22339 Hamburg
Phone +49 40 538092-20
Fax +49 40 538092-84
info@breuell-hilgenfeldt.de
www.breuell-hilgenfeldt.de

Munich
A. Schweiger GmbH
Ohrsstraße 1
D-82054 Gauting
Phone +49 8104 897-0
Fax +49 8104 897-90
info@schweiger-gmbh.de
www.schweiger-gmbh.com

Express Service-Center (1 to 5 pieces)

North
Breuell + Hilgenfeldt GmbH
Grützmühlenweg 48
D-22339 Hamburg
Phone +49 40 538092-20
Fax +49 40 538092-84
ebmpapst@breuell-hilgenfeldt.de

South
HDS Ventiliatoren Vertriebs GmbH
Glaswiesenstraße 1
D-74677 Dörzbach
Phone +49 7937 80355-20
Fax +49 7937 80355-25
info@hds-gmbh.net
www.hds-gmbh.net

Heilbronn / Heidelberg
Dipl.-Ing. Mark Gartner
Gehweg 12
D-74199 Unterheinriet
Phone +49 7130 404569-1
Fax +49 7130 404569-2
Mark.Gartner@de.ebmpapst.com

Kassel
Dipl.-Ing. (FH) Ralph Brück
Hohenrainstraße 3 b
D-35075 Gladenbach
Phone +49 6462 4071-10
Fax +49 6462 4071-11
Ralph.Brueck@de.ebmpapst.com

Koblenz
Winfried Schaefer
Hinter der Kirch 10
D-56767 Uersfeld
Phone +49 2657 16-96
Fax +49 2657 16-76
Winfried.Schaefer@de.ebmpapst.com

Munich
Dipl.-Wirt.-Ing. (FH) Jens Peter
Landsbergerstraße 14
D-86932 Pürgen
Phone +49 8196 99877-54
Fax +49 8196 99877-55
Jens.Peter@de.ebmpapst.com

Nuremberg
Dipl.-Wirt.-Ing. (FH) Axel Resch
Steinfeldstraße 80
D-74626 Bretzfeld
Phone +49 7946 94401-02
Fax +49 7946 94401-03
Axel.Resch@de.ebmpapst.com

Offenburg
Dipl.-Ing. (FH) Ralf Braun
Hubenbeck 21
D-77704 Oberkirch
Phone +49 7802 9822-52
Fax +49 7802 9822-53
Ralf.Braun@de.ebmpapst.com

Ulm
M.Sc. Reinhard Sommerreißer
Am Silbermannpark 10
D-86161 Augsburg
Phone +49 821 6610-7023
Fax +49 821 6610-7024
Reinhard.Sommerreisser@de.ebmpapst.com

Berlin
Dipl.-Ing. (TH) Jens Duchow
Händelstraße 7
D-16341 Panketal
Phone +49 30 944149-62
Fax +49 30 944149-63
Jens.Duchow@de.ebmpapst.com

Bielefeld
Dipl.-Ing. (FH) Wolf-Jürgen Weber
Niehauserweg 13
D-33739 Bielefeld
Phone +49 5206 91732-31
Fax +49 5206 91732-35
Wolf-Jürgen.Weber@de.ebmpapst.com

Dortmund
Dipl.-Ing. (FH) Hans-Joachim Pundt
Auf den Steiner 3
D-59519 Mönchengladbach
Phone +49 2925 800-407
Fax +49 2925 800-408
Hans-Joachim.Pundt@de.ebmpapst.com

Frankfurt
Dipl.-Ing. Christian Kleffmann
Dr.-Hermann-Krause-Straße 23
D-63452 Hanau
Phone +49 6181 1898-12
Fax +49 6181 1898-13
Christian.Kleffmann@de.ebmpapst.com

Halle
Dipl.-Ing. (TU) Michael Hanning
Lerchenbeck 4
D-06198 Saalfeld / OT Lieskau
Phone +49 345 55124-56
Fax +49 345 55124-57
Michael.Hanning@de.ebmpapst.com

Hamburg
Ingenieurbüro Breuelli GmbH
Ing. Dirk Kahl
Elektroingenieur
Grützmühlenweg 48
D-22339 Hamburg
Phone +49 40 538092-19
Fax +49 40 538092-84
Dirk.Kahl@de.ebmpapst.com

express service-center
Europe

Austria
ebm-papst Motoren & Ventilatoren GmbH
Straubingstraße 17
A-4030 Linz
Phone +43 732 321150-0
Fax +43 732 321150-20
info@at.ebmpapst.com
www.ebmpapst.at

Belarus
ebm-papst Bel AgmbH
P.O. Box 117
BY-220138 Minsk
Phone +375 17 3851556
Fax +375 17 3851556
info@by.ebmpapst.com
www.ebmpapst.by

Belgium
ebm-papst Benelux B.V.
Sales office Belgium-Luxemburg
Romeinsestraat 6/0101
Research Park Haasrode
B-3001 Neverlee-Leuven
Phone +32 16 396-200
Fax +32 16 396-220
info@be.ebmpapst.com
www.ebmpapst.be

Bulgaria
ebm-papst Romania S.R.L.
Str. Tarnavei No. 20
RO-500327 Brasov
Phone +40 268 331859
Fax +40 268 312805
dudasludovic@xnet.ro

Croatia
ebm-papst Industries Kft.
Ezred u. 2.
H-1044 Budapest
Phone +36 1 8722-190
Fax +36 1 8722-194
office@hu.ebmpapst.com

Czech Republic / Slovakia
ebm-papst CZ s.r.o.
Kaštanová 34a
CZ-620 00 Brno
Phone +420 544 502-411
Fax +420 547 232-622
info@ebmpapst.cz
www.ebmpapst.cz

Denmark
ebm-papst Denmark ApS
Valensskevej 21
DK-2605 Brøndby
Phone +45 43 631111
Fax +45 43 630505
mail@dk.ebmpapst.com
www.ebmpapst.dk

Estonia
ebm-papst Oy, Eesti Filiaal
Kesk tee 13
Aaviku küla, Jüri Tehnopark
EST-75301 Rae Vald, Harjumaa
Phone +372 65569-78
Fax +372 65569-79
www.ebmpapst.ee

Finland
ebm-papst Oy
Puistotie 1
FIN-02760 Espoo
Phone +358 9 887022-0
Fax +358 9 887022-13
mailbox@ebmpapst.fi
www.ebmpapst.fi

France
ebm-papst sarl
ZI Nord - rue A. Mohtier
BP 62
F-67212 Obernal Cedex
Phone +33 820 326266
Fax +33 82673883
info@fr.ebmpapst.fr
www.ebmpapst.fr

Greece
Helcoma
Th. Rotas & Co 0E
Davaki 65
GR-17672 Kallithea-Attiki
Phone +30 210 9513-705
Fax +30 210 9513-490
contact@helcoma.gr
www.helcoma.gr

Hungary
ebm-papst Industries Kft.
Ezred u. 2.
H-1044 Budapest
Phone +36 1 8722-190
Fax +36 1 8722-194
office@hu.ebmpapst.com

Iceland
RJ Engineers
Stangarhyl 1a
IS-110 Reykjavík
Phone +354 567 8030
Fax +354 567 8015
rj@rj.is
www.rj.is

Ireland
ebm-papst UK Ltd.
Chelmsford Business Park
GB-Chelmsford Essex CM2 5EZ
Phone +44 1245 466336
Fax +44 1245 468555
sales@uk.ebmpapst.com
www.ebmpapst.co.uk

AuBren Limited
Portlaoise Business & Technology Park
Mountrath Road
IRL-Portlaoise, Co. Laois
Phone +353 57 8664343
Fax +353 57 8664346
sales@ie.aubren.com
www.aubren.com

Italy
ebm-papst Srl
Via Cornaggia 108
I-22076 Mozzate (Co)
Phone +39 0331 836201
Fax +39 0331 821510
info@it.ebmpapst.com
www.ebmpapst.it

Macedonia
ebm-papst Industries Kft.
Ezred u. 2.
H-1044 Budapest
Phone +36 1 8722-190
Fax +36 1 8722-194
office@hu.ebmpapst.com
ebm-papst in America and Africa

**America**

**Argentina**
- ebm-papst de Argentina S.A.
- Hernandarias 148 Lomas del Mirador
- Pcia. de Buenos Aires (1752)
- Phone +54 11 46576135
- Fax +54 11 46672092
- ventas@ar.ebmpapst.com
- www.ebmpapst.com.ar

**Brazil**
- ebm-papst Motores Ventiladores Ltda.
- Av. José Giorgi, 301 Galpões B6+B7
- Condomínio Logical Center
- BR-06707-100 Cotia - São Paulo
- Phone +55 11 4613-8700
- Fax +55 11 4777-1456
- vendas@br.ebmpapst.com
- www.ebmpapst.com.br

**Canada**
- ebm-papst Canada Inc.
- 1800 Ironstone Manor, Unit 2
- CDN-Pickering, Ontario, L1W3J9
- Phone +1 905 420-3533
- Fax +1 905 420-3772
- sales@ca.ebmpapst.com
- www.ebmpapst.ca

**Mexico**
- ebm Industrial S. de R.L. de C.V.
- Paseo de Tamarindos 400-A-5° Piso
- Col. Bosques de las Lomas
- MEX-Mexico 05120, D.F.
- Phone +52 55 3300-5144
- Fax +52 55 3300-5243
- sales@mx.ebmpapst.com
- www.ebmpapst.com.mx

**USA**
- ebm-papst Inc.
- P.O. Box 4009
- 100 Hyde Road
- USA-Farmington, CT 06034
- Phone +1 860 674-1515
- Fax +1 860 674-8536
- sales@us.ebmpapst.com
- www.ebmpapst.us
- ebm-papst Automotive & Drives, Inc.
- 3200 Greenfield, Suite 255
- USA- Dearborn, MI 48120
- Phone +1 313 406-8080
- Fax +1 313 406-8081
- automotive@us.ebmpapst.com
- www.ebmpapst-automotive.us

**Africa**

**South Africa**
- ebm-papst South Africa (Pty) Ltd.
- P.O. Box 3124
- 1119 Yacht Avenue
- ZA-2040 Honeydew
- Phone +27 11 794-3434
- Fax +27 11 794-5020
- info@za.ebmpapst.com
- www.ebmpapst.co.za
ebm-papst in Asia and Australia

Asia

China
ebm-papst Ventilator (Shanghai) Co., Ltd.
No. 418, Huajing Road
WaiGaoQiao Free Trade Zone
No. 2001, Yang Gao (N) Road
No. 2001, Yang Gao (N) Road
VRC-200131 Shanghai, P.R. of China
Phone +86 21 5046-0183
Fax +86 21 5046-1119
sales@cn.ebmpapst.com
www.ebmpapst.com.cn

Japan

ebm-papst Industries Japan K.K.
12th Floor, Benex S-3 Bldg.
3-20-8 Shinyokohama, Kohoku-ku
J-222-0033 Yokohama
Phone +81 45 47057-51
Fax +81 45 47057-52
info@jp.ebmpapst.com
www.ebmpapst.jp

Korea
ebm-papst Korea Co. Ltd.
6F, Trutec Bldg.
B 6-2, Digital Media City (DMC)
Sangam-Dong, Mapo-Gu
ROK-Seoul 121-270
Phone +82 2 366213-24
Fax +82 2 366213-26
info@kr.ebmpapst.com
www.ebmpapst.co.kr

Malaysia
ebm-papst Malaysia
Representative Office
Unit 12-2, Jalan USJ Sentral 3
Persiaran Subang, Selangor Darul Ehsan
MAL-47600 Subang Jaya
Phone +60 3 8024-1680
Fax +60 3 8024-8718
salesdept@my.ebmpapst.com

Singapore
ebm-papst SEA Pte. Ltd.
No. 23 Ubi Road 4
#06-00 Olympia Industrial Building
SGP-Singapore 408620
Phone +65 65513789
Fax +65 68428439
salesdept@sg.ebmpapst.com

Thailand
ebm-papst Thailand Co., Ltd.
99/9 Moo 2, Central Chaengwattana Tower
14th Floor, Room 1402
Chaengwattana Road Bangtarad, Pakkret
THA-11120 Nonthaburi
Phone +66 2 8353785-7
Fax +66 2 8353788
salesdept@th.ebmpapst.com

Vietnam
ebm-papst Vietnam
Representative Office
Room #102, 25 Nguyen Van Thu Street
District 1
VN-Ho Chi Minh City
Phone +84 8 39104099
Fax +8 39103070
linh.nguyen@vn.ebmpapst.com

Hong Kong
ebm-papst Hong Kong Ltd.
Unit No. 13.9 / F
Technology Park, 18 On Lai Street
Shiu Lek Yuen, Shatin N.T.
Hong Kong - P.R. of China
Phone +852 2145-8678
Fax +852 2145-7678
info@hk.ebmpapst.com

Indonesia
ebm-papst Indonesia
Representative Office
German Centre, 4th Floor, Suite 4470
RI-15321 Tangerang
Phone +62 21 5376250
Fax +62 21 5388305
salesdept@id.ebmpapst.com

Israel
Polak Bros. Import Agencies Ltd.
9 Hamefasim Street
IL-Kiryat Arie, Petach-Tikva 49514
Phone +972 3 9100300
Fax +972 3 5796679
polak@polak.co.il
www.polak.co.il

India
ebm-papst India Pvt. Ltd.
26/3, G.N.T. Road, Erukkencherry
IND-Chennai-600118
Phone +91 44 25372556
Fax +91 44 25371149
sales@in.ebmpapst.com
www.ebmpapst.in

Indonesia

ebm-papst Indonesia
Representative Office
German Centre, 4th Floor, Suite 4470
RI-15321 Tangerang
Phone +62 21 5376250
Fax +62 21 5388305
salesdept@id.ebmpapst.com

Israel
Polak Bros. Import Agencies Ltd.
9 Hamefasim Street
IL-Kiryat Arie, Petach-Tikva 49514
Phone +972 3 9100300
Fax +972 3 5796679
polak@polak.co.il
www.polak.co.il

Japan

ebm-papst Industries Japan K.K.
12th Floor, Benex S-3 Bldg.
3-20-8 Shinyokohama, Kohoku-ku
J-222-0033 Yokohama
Phone +81 45 47057-51
Fax +81 45 47057-52
info@jp.ebmpapst.com
www.ebmpapst.jp

Korea

ebm-papst Korea Co. Ltd.
6F, Trutec Bldg.
B 6-2, Digital Media City (DMC)
Sangam-Dong, Mapo-Gu
ROK-Seoul 121-270
Phone +82 2 366213-24
Fax +82 2 366213-26
info@kr.ebmpapst.com
www.ebmpapst.co.kr

Malaysia

ebm-papst Malaysia
Representative Office
Unit 12-2, Jalan USJ Sentral 3
Persiaran Subang, Selangor Darul Ehsan
MAL-47600 Subang Jaya
Phone +60 3 8024-1680
Fax +60 3 8024-8718
salesdept@my.ebmpapst.com

Singapore

ebm-papst SEA Pte. Ltd.
No. 23 Ubi Road 4
#06-00 Olympia Industrial Building
SGP-Singapore 408620
Phone +65 65513789
Fax +65 68428439
salesdept@sg.ebmpapst.com

Thailand

ebm-papst Thailand Co., Ltd.
99/9 Moo 2, Central Chaengwattana Tower
14th Floor, Room 1402
Chaengwattana Road Bangtarad, Pakkret
THA-11120 Nonthaburi
Phone +66 2 8353785-7
Fax +66 2 8353788
salesdept@th.ebmpapst.com

Vietnam

ebm-papst Vietnam
Representative Office
Room #102, 25 Nguyen Van Thu Street
District 1
VN-Ho Chi Minh City
Phone +84 8 39104099
Fax +8 39103070
linh.nguyen@vn.ebmpapst.com

United Arab Emirates
ebm-papst Middle East FZE
PO Box 17735
Jebel Ali Free Zone / FZ1 / AP05
UAE-Dubai
Phone +971 4 88606-26
Fax +971 4 88608-27
info@ae.ebmpapst.com
www.ebmpapst.ae

Thailand

ebm-papst Thailand Co., Ltd.
99/9 Moo 2, Central Chaengwattana Tower
14th Floor, Room 1402
Chaengwattana Road Bangtarad, Pakkret
THA-11120 Nonthaburi
Phone +66 2 8353785-7
Fax +66 2 8353788
salesdept@th.ebmpapst.com

Vietnam

ebm-papst Vietnam
Representative Office
Room #102, 25 Nguyen Van Thu Street
District 1
VN-Ho Chi Minh City
Phone +84 8 39104099
Fax +8 39103070
linh.nguyen@vn.ebmpapst.com
Australia

AUS-Laverton North, Victoria, 3026
Phone +61 3 9360-6400
Fax +61 3 9360-6464
sales@ebmpapst.com.au
www.ebmpapst.com.au

New Zealand

NZ-Henderson, Auckland 1230
Phone +64 9 837-1884
Fax +64 9 837-1899
sales@ebmpapst.com.au
www.ebmpapst.com.au