- Bearing Type
  Ball Bearings
- Material
  Impeller & Frame : Plastic (UL 94V-0)
  Lead Wires :
  UL 1061 AWG #28 OR Equivalent
  Red Wire Positive(+)  
  Black Wire Negative(-)
  Blue Wire (F00)  
  Yellow Wire Speed Control (PWM)
- Weight : 25g (0.88 oz)

---

### THA 40 x 40 x 20 MM SERIES

#### DIMENSIONS DRAWING

![Dimensions Drawing](image)

#### P & Q CURVE (AT RATED VOLTAGE)

![P & Q Curve](image)

#### MOUNTING PANEL CUTOUT

![Mounting Panel Cutout](image)

---

### MODEL INFORMATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Rated Voltage</th>
<th>Operating Voltage Range</th>
<th>Input Current</th>
<th>Input Power</th>
<th>Speed</th>
<th>Maximum Air Flow</th>
<th>Maximum Air Pressure</th>
<th>Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>THA0412AD</td>
<td>PWM/-F00</td>
<td>12</td>
<td>7.0 to 15.0</td>
<td>0.43</td>
<td>5.16</td>
<td>15600</td>
<td>20.56</td>
<td>35.16</td>
</tr>
</tbody>
</table>

* Function type is optional.
* The max. air flow and the speed are measured in free air; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

http://www.deltaww.com
**Bearing Type**
Ball Bearings

**Material**
Impeller: Plastic (UL 94V-0)
Frame: Die-cast Aluminum

**Lead Wires**:
UL 1061 AWG #24 OR Equivalent
Red Wire Positive (+)
Black Wire Negative (-)
Blue Wire (F00)
Yellow Wire Speed Control (PWM)

**Weight**: 75g (4.237 oz)

---

**THA 40 x 40 x 28 MM SERIES**

### DIMENSIONS DRAWING

- **OUTLET SIDE**: 40.0±0.5 (1.575±0.020), 32.0±0.3 (1.260±0.012)
- **INLET SIDE**: 8-Ø3.5±0.3 (8-0.138±0.012)

### P & Q CURVE (AT RATED VOLTAGE)

**THA0412BN**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Voltage</th>
<th>Operating Voltage Range</th>
<th>Input Current</th>
<th>Input Power</th>
<th>Speed</th>
<th>Maximum Air Flow</th>
<th>Maximum Air Pressure</th>
<th>Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>THA0412BN</td>
<td>12 VDC</td>
<td>7 to 13.2 VDC</td>
<td>0.89 Amp</td>
<td>10.68 Watt</td>
<td>19000</td>
<td>0.836 m³/min</td>
<td>29.52 mmH₂O</td>
<td>59.0</td>
</tr>
</tbody>
</table>

* Function type is optional.
* The max. air flow and the speed are measured in free air; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

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**http://www.deltaww.com**
• Bearing Type
  Ball Bearings
• Material
  Impeller: Plastic (UL 94V-0)
  Frame: Die-cast Aluminum
• Lead Wires:
  UL 1061 AWG #22 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
• Weight: 300g (16.95 oz)

### THA 92 x 92 x 38 MM SERIES

#### DIMENSIONS DRAWING

![Dimensions Drawing](image)

#### P & Q CURVE (AT RATED VOLTAGE)

![P & Q Curve](image)

#### MOUNTING PANEL CUTOUT

![Mounting Panel Cutout](image)

### MODEL | Rated Voltage | Operating Voltage Range | Input Current | Input Power | Speed | Maximum Air Flow | Maximum Air Pressure | Noise |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>PART NO.</td>
<td>FUNCTION</td>
<td>VDC</td>
<td>VDC</td>
<td>Amp</td>
<td>Watt</td>
<td>R.P.M.</td>
<td>CFM</td>
<td>dB-A</td>
</tr>
<tr>
<td>THA0948BE</td>
<td>PWM / -F00</td>
<td>48</td>
<td>30.0 to 60.0</td>
<td>1.40</td>
<td>67.20</td>
<td>9500</td>
<td>5.370</td>
<td>189.67</td>
</tr>
</tbody>
</table>

* Function type is optional.
* The max. air flow and the speed are measured in free air; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.
### THA1248XE

#### DIMENSIONS DRAWING

<table>
<thead>
<tr>
<th>UNIT (INCH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>120.0±0.5(4.724±0.020)</td>
</tr>
<tr>
<td>105.0±0.3(4.134±0.012)</td>
</tr>
<tr>
<td>38.0±0.5(1.496±0.020)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UNIT (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-Ø4.5±0.3</td>
</tr>
<tr>
<td>8-Ø0.177±0.012</td>
</tr>
</tbody>
</table>

#### P & Q CURVE (AT RATED VOLTAGE)

- **Air Pressure vs. Air Flow**
  - **THA1248XE**

#### MOUNTING PANEL CUTOUT

- **Outlet Side**
  - 116.0 (4.567)
  - 105.0 (4.134)

- **Inlet Side**
  - 116.0 (4.567)
  - 105.0 (4.134)

### Specifications

- **Model**: THA1248XE
- **PWM / -F00**
- **Rated Voltage**: 48 VDC
- **Operating Voltage Range**: 36 to 60.0 VDC
- **Input Current**: 2.07 Amp
- **Input Power**: 99.3 Watt
- **Speed**: 7600 R.P.M.
- **Air Flow**: 318.0 m³/min
- **Air Pressure**: 78.5 mmH₂O
- **Noise**: 3.090 dB-A
- **Maximum Air Flow**: 38.0 ± 0.5 (1.496 ± 0.020)
- **Maximum Air Pressure**: 160.0 (6.307)

#### Additional Information

- **Bearing Type**: Ball Bearings
- **Material**:
  - Impeller: Plastic (UL 94V-0)
  - Frame: Die-cast Aluminum
- **Lead Wires**:
  - UL 1007 AWG #24 OR Equivalent
  - Red Wire Positive (+)
  - Black Wire Negative (-)
  - Blue Wire (F00)
  - Yellow Wire Speed Control (PWM)
- **Weight**: 500g (28.25 oz)

#### Notes

- *Function type is optional.*
- *The max. air flow and the speed are measured in free air; max. air pressure is measured at zero air flow.*
- *Noise is measured in anechoic chamber in free air, one meter from intake side.*
- *All readings are typical values at rated voltage.*
- *Specifications are subject to change without notice.*