Product datasheet

ABT7PDU250G

voltage transformer - 230..400 V - 2 x 115 V - 2.5 KVA

Main

Range of product
Phaseo Universal

Product or component type
Safety and isolation transformer

Rated power in VA
2500 VA

Input voltage
230 V AC single phase, terminal(s): N-L1
400 V AC phase to phase, terminal(s): L1-L2

Output voltage
115/230 V AC

Secondary winding
Double

Protective cover
Without

Ambient air temperature for operation
-20...60 °C

Complementary

Input voltage limits
207...253 V
360...440 V

Network frequency limits
47...63 Hz

Input voltage tolerance
+/- 15 V

Efficiency
96 %

Power dissipation in W
104.2 W

Voltage variation at nominal load
0.017 at 230 V
0.0189 at 400 V

Output sustained overvoltage
1.5 % (no load, hot state)

Voltage drop at rated load
1.7 %

No load losses
31.6 W

Short-circuit voltage
0.022

Output protection type
Against overload, protection technology: external
Against overvoltage, protection technology: external
Against short-circuits, protection technology: external

Connections - terminals
Screw type terminals for input connection, connection capacity: 5 x 4 mm² AWG 11
Screw type terminals for input ground connection, connection capacity: 1 x 4 mm² AWG 11
Screw type terminals for output connection, connection capacity: 6 x 10 mm² AWG 6
<table>
<thead>
<tr>
<th><strong>Marking</strong></th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixing mode</strong></td>
<td>By 4 screws, screw(s) Ø = 10 mm on horizontal panel with derating to 90 %&lt;br&gt;By 4 screws, screw(s) Ø = 10 mm on vertical panel, operating position: horizontal&lt;br&gt;By 4 screws, screw(s) Ø = 10 mm on vertical panel, operating position: vertical</td>
</tr>
<tr>
<td><strong>Output coupling</strong></td>
<td>Series by internal jumper&lt;br&gt;Parallel&lt;br&gt;Grounding of secondary</td>
</tr>
<tr>
<td><strong>Operating altitude</strong></td>
<td>3000 m</td>
</tr>
<tr>
<td><strong>Electrical insulation class</strong></td>
<td>Class F</td>
</tr>
<tr>
<td><strong>Product weight</strong></td>
<td>28 kg</td>
</tr>
</tbody>
</table>

**Environment**

| **Product certifications** | EAC<br>UR |
| **Standards** | UL 506 |
| **IP degree of protection** | IP20 |
| **Environmental characteristic** | EMC conforming to EN 62041<br>Safety conforming to EN 61558-1<br>Safety conforming to EN 61558-2-6 |
| **Ambient air temperature for storage** | -40...80 °C |
| **Relative humidity** | 0...95 % during operation |
| **Overvoltage category** | Class I conforming to VDE 0106-1 |
| **Dielectric strength** | 3200 V between input and ground<br>3200 V between output and ground<br>5100 V between input and output |

**Contractual warranty**

| **Warranty period** | 18 months |
## Dimensions

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>c</th>
<th>G</th>
<th>J</th>
<th>Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>193</td>
<td>206</td>
<td>188</td>
<td>150</td>
<td>150</td>
<td>10</td>
</tr>
</tbody>
</table>

Dimensions in in.

<table>
<thead>
<tr>
<th>a</th>
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<th>c</th>
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<th>J</th>
<th>Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.60</td>
<td>8.11</td>
<td>7.40</td>
<td>5.90</td>
<td>5.90</td>
<td>0.39</td>
</tr>
</tbody>
</table>
Internal Scheme

![Internal Scheme Diagram](image-url)
Primary Voltage Wiring
Product datasheet
Connections and Schema

ABT7PDU250G

Secondary Voltage Wiring