### Instrument transformers

**Type VOY-60**

**Outdoor voltage transformer**

**Product features**
- 5 kV, outdoor
- 60 kV BIL, 60 Hertz
- Primary volts: 2400 - 4800
- Thermal rating: 1000 VA @ 30°C ambient
- Electrical clearances:
  - Strike: 8.0" (203 mm)
  - Creep: 15.8" (401 mm)
- Approximate weight: 40 lbs (18 kg)

**Application**
The VOY-60 outdoor voltage transformer is used for outdoor metering and relaying circuits. It is particularly suitable for pole-top cluster bracket mounting due to its compact and lightweight characteristics.

**Construction features**
The coil assembly is a progressive winding with the high voltage wound directly over the low voltage coil. A core is placed through and around the windings and is protectively cushioned and secured to a support frame.

For insulation and protection, the assembly is cast in hydrophobic cycloaliphatic epoxy (HCEP) using automatic pressure gelation. The HCEP material offers superior arc track, ozone, and ultraviolet-resistive properties while maintaining physical strength. The hydrophobic surface properties of HCEP ensure highly reliable performance in wet, humid, or polluted environments.

**Terminals**
The electro-tin plated copper primary line terminals accommodate #10 to 250 MCM conductors. Clamp-type secondary terminals accommodate #14 through #3 wire. A ground terminal, located below the secondary terminal, is also provided for grounding the secondary circuit at the transformer.

**Junction box**
The junction box has a 1" conduit hub on either end and a knock out for a 1" conduit fitting on the bottom. The box is anchored to the body of the transformer with screws and can be easily detached, simplifying installation and change-out procedures.

**Baseplate**
The base is constructed of corrosion-resistant aluminum and is secured to the encapsulated base support.

**Mounting**
The VOY-60 can be mounted in upright, cantilever, or upside-down positions. Stress relief devices should be used to support cable connections.

**Test reports**
Test reports are stored electronically and can be e-mailed in various formats at the time of shipment.

**Standards**
This unit can be tested to all applicable IEEE, CSA, or IEC standards as requested.
Selection guide

<table>
<thead>
<tr>
<th>Primary voltage</th>
<th>Secondary voltage</th>
<th>Winding ratio</th>
<th>Rated voltage factor</th>
<th>Style number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400/4160Y</td>
<td>120</td>
<td>20:1</td>
<td>1.1</td>
<td>E-7525A85G01</td>
</tr>
<tr>
<td>4200/4200Y</td>
<td>120</td>
<td>35:1</td>
<td>1.1</td>
<td>E-7525A85G02</td>
</tr>
<tr>
<td>4800/4800Y</td>
<td>120</td>
<td>40:1</td>
<td>1.1</td>
<td>E-7525A85G03</td>
</tr>
</tbody>
</table>

IEEE metering accuracy: 0.3 W, X, M, & Y, 1.2 Z

Additional styles available upon request. Contact your ABB sales representative or call +1-252-827-3212 for more information.

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