Type VOZ-15
Outdoor voltage transformer

Product features
- 25 kV, outdoor
- 150 kV BIL, 60 Hertz
- Primary volts: 12000 - 24000
- Electrical clearances:
  Strike: 15.25" (387 mm)
  Creep: 38.0" (965 mm)
- Approximate weight: 125 lbs (57 kg)

Application
The VOZ-15 outdoor voltage transformer is used to accurately transform 25 kV system voltages to a secondary voltage for metering and relaying applications, typically 240 or 120 volts.

Construction features
The layer wound and shielded high voltage winding is designed to withstand continuous operation at ratings higher than the line-to-ground voltage level when applied on a 25 kV, 150 kV BIL system. Refer to the Selection Guide for the rated voltage factor (RVF). Two cores placed through and around the windings are 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 properties of HCEP ensure a high level of performance in wet or humid environments.

Terminals
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 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 knockout 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 located screws.

Mounting
The VOZ-15 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.
Unit dimensions

Baseplate dimensions

Selection guide

<table>
<thead>
<tr>
<th>Primary voltage</th>
<th>Secondary voltage</th>
<th>Winding ratio</th>
<th>Metering accuracy</th>
<th>Style number</th>
</tr>
</thead>
<tbody>
<tr>
<td>12000/20780Y</td>
<td>120</td>
<td>100:1</td>
<td>0.3 W,X,M,Y,&amp; Z</td>
<td>E-7525A90G01</td>
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<tr>
<td>14400/24940Y</td>
<td>120</td>
<td>120:1</td>
<td>0.3 W,X,M,Y,&amp; Z</td>
<td>E-7525A90G02</td>
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<tr>
<td>18000/18000Y</td>
<td>120</td>
<td>150:1</td>
<td>0.3 W,X,M,Y,&amp; Z</td>
<td>E-7525A90G03</td>
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<tr>
<td>24000/24000Y</td>
<td>120</td>
<td>200:1</td>
<td>0.3 W,X,M,Y,&amp; Z</td>
<td>E-7525A90G04</td>
</tr>
</tbody>
</table>

Thermal rating at 30°C: 2000
Rated voltage factor (RVF): 1.1

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

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