INSTRUMENT TRANSFORMERS

VOZ-75BE and VOZ-11BE
Outdoor voltage transformers

The VOZ-75BE and VOZ-11BE voltage transformers are designed for outdoor metering and relaying applications.

Product features
- 8.7 and 15 kV, outdoor
- 75 kV and 110 kV BIL, 60 Hertz
- Electrical clearances:
  - Strike: 13.4” (340 mm)
  - Creep: 30.8” (782 mm)
- Minimum operating temperature: -50° C
- Approximate weight: 83 lbs. (38 kg)

Application
The VOZ-75BE and VOZ-11BE voltage transformers are designed for metering and relaying applications.

Industry leading performance
An enhanced creep distance provides outstanding flashover resistance and increased surface area for better heat dissipation. Encapsulated in the advanced HCEP (hydrophobic cycloaliphatic epoxy) material, these units provide unparalleled performance in outdoor applications, including wet, polluted, or coastal environments.

Enhanced revenue grade metering
These units deliver enhanced accuracy over a wide load swing and are a great fit for variable load applications. Accuracy is guaranteed to be 0.3% from 5% of rated current through the rated current, and 0.15% from the rated current through the rating factor.

Class 0.15 enhanced revenue grade
Class 0.3 revenue grade

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 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 VOZ-75BE and VOZ-11BE can be mounted in upright or cantilever 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
These units meet or exceed all requirements of IEEE C57.13-2016 and can be tested to other standards as requested.

Dimensions (inches [mm])

![Dimensions Diagram]

Selection guide

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<th>Primary voltage</th>
<th>Secondary voltage</th>
<th>Winding ratio</th>
<th>Metering accuracy</th>
<th>Thermal rating at 30°C</th>
<th>Rated voltage factor (RVF)*</th>
<th>Style number</th>
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<tr>
<td>VOZ-75BE</td>
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<tr>
<td>2400/4160Y</td>
<td>120</td>
<td>20:1</td>
<td>0.15Y</td>
<td>1500</td>
<td>1.1</td>
<td>E-923A641G01</td>
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<tr>
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<td>120</td>
<td>35:1</td>
<td>0.15Y</td>
<td>1500</td>
<td>1.1</td>
<td>E-923A641G02</td>
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<tr>
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<td>120</td>
<td>40:1</td>
<td>0.15Y</td>
<td>1500</td>
<td>1.1</td>
<td>E-923A641G03</td>
</tr>
<tr>
<td>7200/7200Y</td>
<td>120</td>
<td>60:1</td>
<td>0.15Y</td>
<td>1500</td>
<td>1.1</td>
<td>E-923A641G04</td>
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| VOZ-11BE        |                   |               |                   |                        |                             |             |
| 7200/12470Y     | 120               | 60:1          | 0.15Y             | 1500                   | 1.1                         | E-923A641G05|
| 7620/13200Y     | 120               | 63.5:1        | 0.15Y             | 1500                   | 1.1                         | E-923A641G06|
| 8400/14560Y     | 120               | 70:1          | 0.15Y             | 1500                   | 1.1                         | E-923A641G07|
| 12000/12000Y    | 120               | 100:1         | 0.15Y             | 1500                   | 1.1                         | E-923A641G08|
| 13200/13200Y    | 120               | 110:1         | 0.15Y             | 1500                   | 1.1                         | E-923A641G09|
| 14400/14400Y    | 120               | 120:1         | 0.15Y             | 1500                   | 1.1                         | E-923A641G10|

* RVF for 8 hours

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