Types VOZ-75, VOZ-11, and VOY-11
Outdoor voltage transformers

Product features
- 8.7 and 15 kV, outdoor
- 75 and 110 kV BIL, 60 Hertz
- Primary volts: 2400 - 14400
- Electrical clearances:
  Strike: 11.5" (292 mm)
  Creep: 28.2" (716 mm)
- Approximate weight: 75 lbs (34 kg)

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

Construction features
The primary and secondary coils are wound using special winding and shielding techniques for improved voltage stress distribution. Each coil is carefully insulated with mylar film to provide a high dielectric medium between layers. The completed winding structure and double-loop cores are assembled 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-resistant properties while maintaining physical strength. The hydrophobic surface properties of HCEP ensure highly reliable performance in wet, humid, or polluted 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 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-75, VOZ-11, and VOY-11 units 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
These units can be tested to all applicable IEEE, CSA, or IEC standards as requested.
Unit dimensions

Types VOZ-75, VOZ-11, or VOY-11

Baseplate dimensions

Optional accessories
These units are designed for mounting on poles or substation structures, with high voltage bushings in either vertical or horizontal positions. When mounted with high voltage bushings in a horizontal plane, it is recommended that this plane be parallel to the ground and not one bushing above the other. This precaution prevents formation of ice and snow which could cause flashover between bushings.

- Vertical mounting with mounting brackets & back-up plates:
  Mounting bracket: 463C035G02
  Back-up plate: 28D2876G01
- Vertical mounting with mounting brackets and hangers:
  Mounting bracket: 463C035G02
  Hangers: 261A233G01
- Vertical mounting with channel brackets for tandem mounting of voltage and current transformers:
  Channel bracket: 332B955G02
- Horizontal mounting with hangers:
  Hangers: 261A233G01

Selection guide

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Thermal rating at 30°C: 1500
Rated voltage factor (RVF): 1.1
For 50 Hz styles, contact the factory.
Additional styles available upon request. Contact your ABB sales representative or call +1-252-827-3212 for more information.

For more information please contact:

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