

Type VOY-12 Outdoor voltage transformer

Product features

- 25 kV outdoor
- 125 kV BIL, 60 Hertz
- Primary volts: 12000 - 24940
- Electrical clearances:
 - Strike: 11.5" (292 mm)
 - Creep: 28.2" (716 mm)
- Approximate weight: 75 lbs (34 kg)

Application

The VOY-12 outdoor voltage transformer is 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-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 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-12 can be mounted in upright, cantilever, or upside-down positions. Stress relief devices should be used to support cable connections.

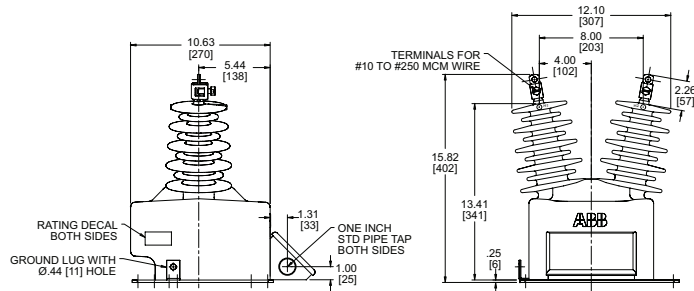
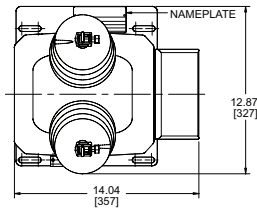
Test reports

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

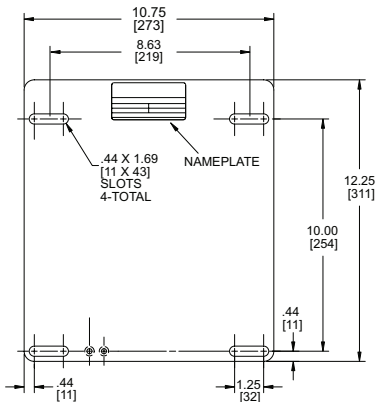
Standards

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

Unit dimensions



Type VOY-12



Baseplate dimensions

Optional accessories

The VOY-12 transformer is 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 might 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

Primary voltage	Secondary voltage	Winding ratio	Metering accuracy	Style number
12000/20780Y	120	100:1	0,3 W, X, M, & Y	E-7525A87G01
14400/24940Y	120	120:1	0,3 W, X, M, & Y	E-7525A87G02
18000/18000Y	120	150:1	0,3 W, X, M, & Y	E-7525A87G03
24000/24000Y	120	200:1	0,3 W, X, M, & Y	E-7525A87G04

Thermal rating at 30° C: 1000

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.

For more information please contact:

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