

Type VOY-60

Outdoor voltage transformer



The VOY-60 outdoor voltage transformer designed for metering and relaying on 5 kV circuits.

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

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.

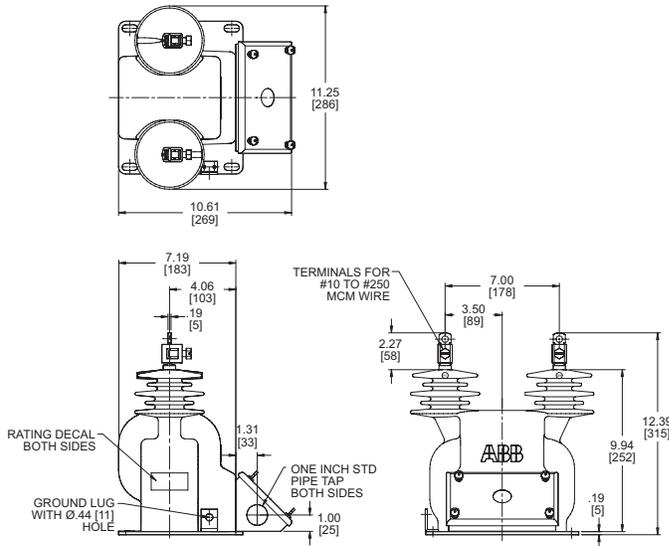
Test reports

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

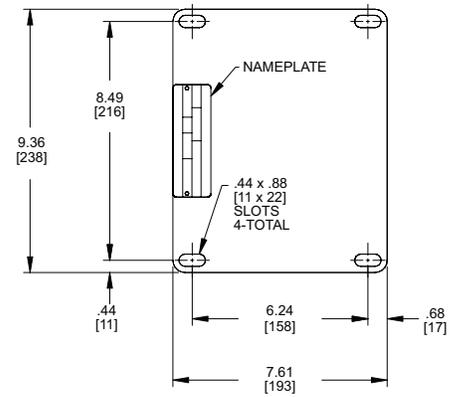
Standards

This unit meets or exceeds all requirements of IEEE C57.13-2016 and can be tested to other standards as requested.

Unit dimensions (inches [mm])



Baseplate dimensions (inches [mm])



Selection guide

Primary voltage	Secondary voltage	Winding ratio	Rated voltage factor	Style number
2400/4160Y	120	20:1	1.1	E-7525A85G01
4200/4200Y	120	35:1	1.1	E-7525A85G02
4800/4800Y	120	40:1	1.1	E-7525A85G03

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.