

Types VOY-20 and VOY-20G Outdoor voltage transformers

Product features

- 36 kV outdoor, 200 kV BIL, 60 Hertz
- Electrical clearances:
 - VOY-20:
 - Strike: 16.0" (406 mm)
 - Creep: 27.25" (692 mm)
 - VOY-20G:
 - Strike: 16.0" (406 mm)
 - Creep: 27.5" (698 mm)

Application

Types VOY-20 and VOY-20G outdoor voltage transformers are designed for solid-state relaying and electronic metering where the burden of the device is negligible.

Construction features

The layer wound and shielded high voltage winding is designed to withstand continuous operation at 1.9 times the line-to-ground voltage level when applied on a 36 kV, 250 kV BIL system. The core and coil assembly is cast under a vacuum in a polyurethane resin formulated for outdoor service.

Terminals

The primary line terminals are electro-tin plated copper and accommodate #10 to 250 MCM conductors. The H2 neutral terminal of the VOY-20G is insulated to withstand a 19 kV test level and can be disconnected from the external ground cable for power factor measurement.

Secondary terminals are clamp-type and are sized for #14 through #3 wire. A ground terminal is also provided for grounding the secondary circuit at the transformer.

Junction box

The molded 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 easily be 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-20 and VOY-20G can be mounted in the upright or cantilever positions.

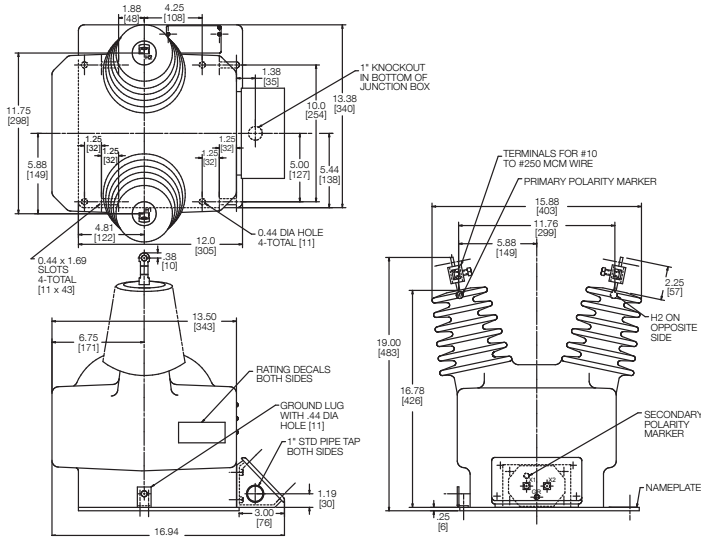
Test reports

IEEE 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-20

(Approximate weight: 148 lbs.)

For more information please contact:

ABB Inc. Medium Voltage Distribution Components

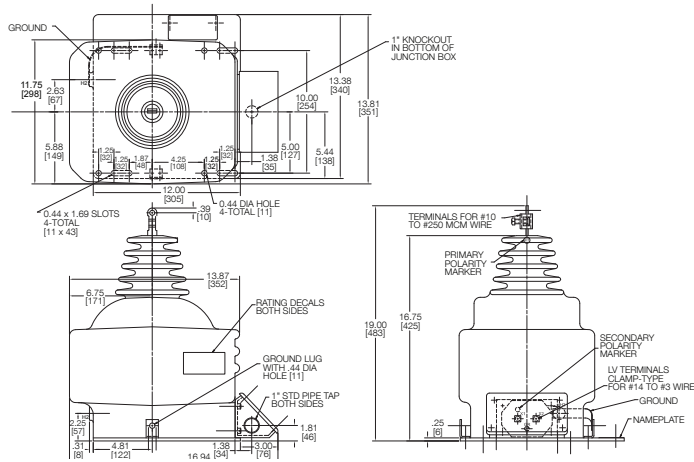
3022 NC 43 North
Pinetops, NC 27864

USA

Phone: +1 252 827 3212

Fax: +1 252 827 4286

www.abb.com/mediumvoltage



Type VOY-20G

(Approximate weight: 142 lbs.)

Note:

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document. We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction—in whole or in parts—is forbidden without ABB's prior written consent.

Copyright 2013 ABB.

All rights reserved.

Selection guide

Primary voltage	Winding ratio	IEEE metering accuracy	Thermal rating	Style number
VOY-20				
27600/27600Y	240:1	0.3 W, X, M, Y	1000	7881A82G03
34500/34500Y	275:1	0.3 W, X, M, Y	1000	7881A82G04
VOY-20G				
20125/34500GY	175/300:1	0.3 W, X, M, Y	1000	7526A55G01

+ Thermal rating at 30° C

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