

Subsurface Rectifier™

F-type variable transformer oil-cooled cathodic protection rectifier

ENERGY & MINING

Description

The Corpro Subsurface Rectifier™ is a Variable Transformer Rectifier and is designed for applications where current requirements are small and it is necessary for the rectifier to be as inconspicuous as possible. The combination of a compact enclosure and economic price make this an ideal rectifier for urban gas and electric distribution companies. The Corpro Subsurface Rectifier™ is variable transformer adjusted to provide constant voltage output control. The rectifier is sealed in its enclosure by using a cover with (8) stainless steel bolts, (1) nitrile gasket; (not shown). It's intended operating environment is underground within an existing water resistant vault or as a standalone. AC power is stepped down and isolated, controlled by the variable transformer, and rectified to a controlled DC output. AC and DC overload and short circuit protection are provided by a one-time fuse before the transformer primary and the transformer secondary. Primary AC/DC surge protection and secondary surge protection is provided by disk-style Metal Oxide Varistors (M.O.Vs).

Rectifier Features

- Mountable in subsurface fiberglass water proof enclosure
- Optional brackets and hardware for wall or pole mounting available
- Convenient test terminals for volt/ampere viewing with handheld meter
- Full-wave silicon rectification
- AC input surge protection
- DC output surge protection
- Secondary AC surge protection
- Transformer constructed to Class "H" (180°C/356°F) temperature requirements with a minimum efficiency of 95%
- All brass/copper hardware finished in electroless nickel plate for superior corrosion prevention
- One-year warranty, from date of purchase against defective components and faulty workmanship



Specifications

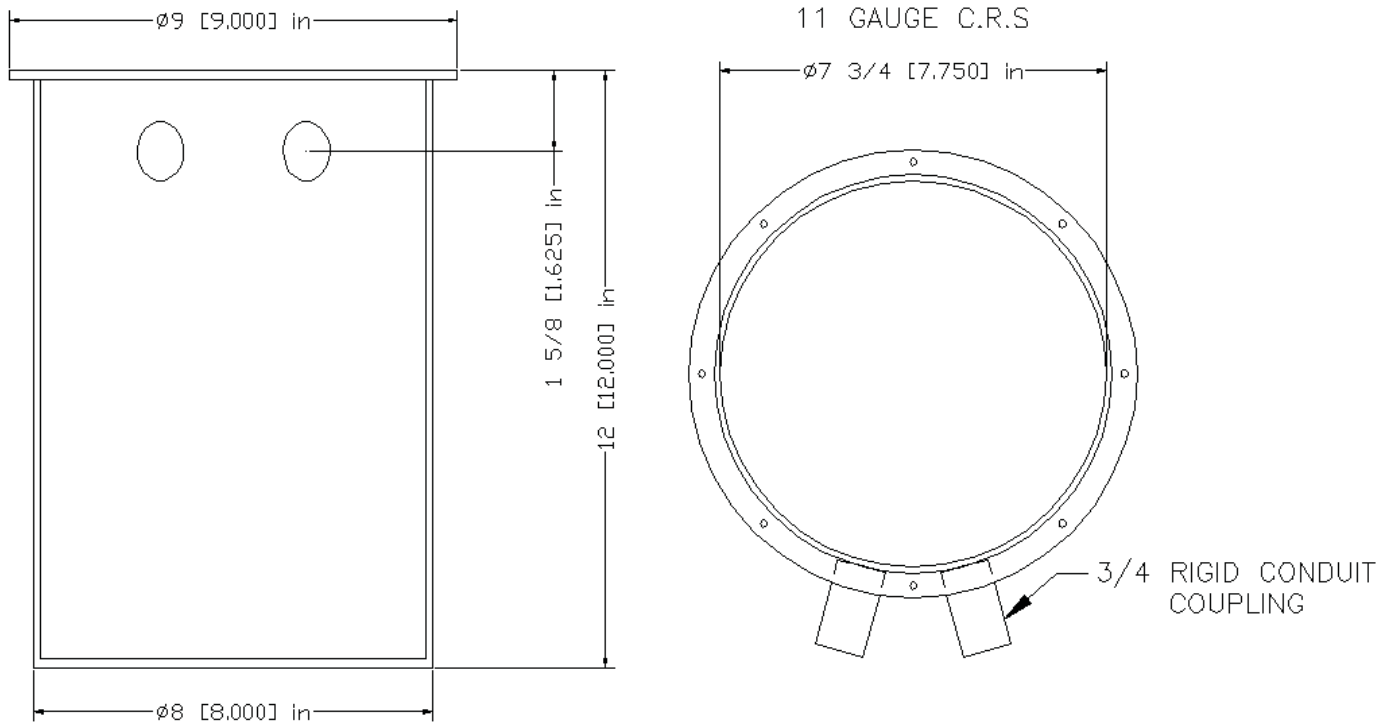
- Single phase inputs: 115 VAC., 60 Cycle Only
- Fused input and secondary circuit protection for full overload and short circuit protection
- Output voltage 20 or 40 volts DC. Output current 5 amperes DC
- Cooling by oil-cooled convection
- Cabinet rated NEMA 4; construction is 11 Ga HRPO steel, with E.C.E (Electroless Nickel Coating) 0.002" thickness, Teflon coated to 0.0005" - 0.001" thickness, finished black
- Stainless steel hardware
- CNC cut, fully engraved front panel, or lamicoid labels. Almost infinite number of output adjustment steps
- Operating ambient: -40° to +45°C (-40° to 113°F)
- Approved to CSA standards

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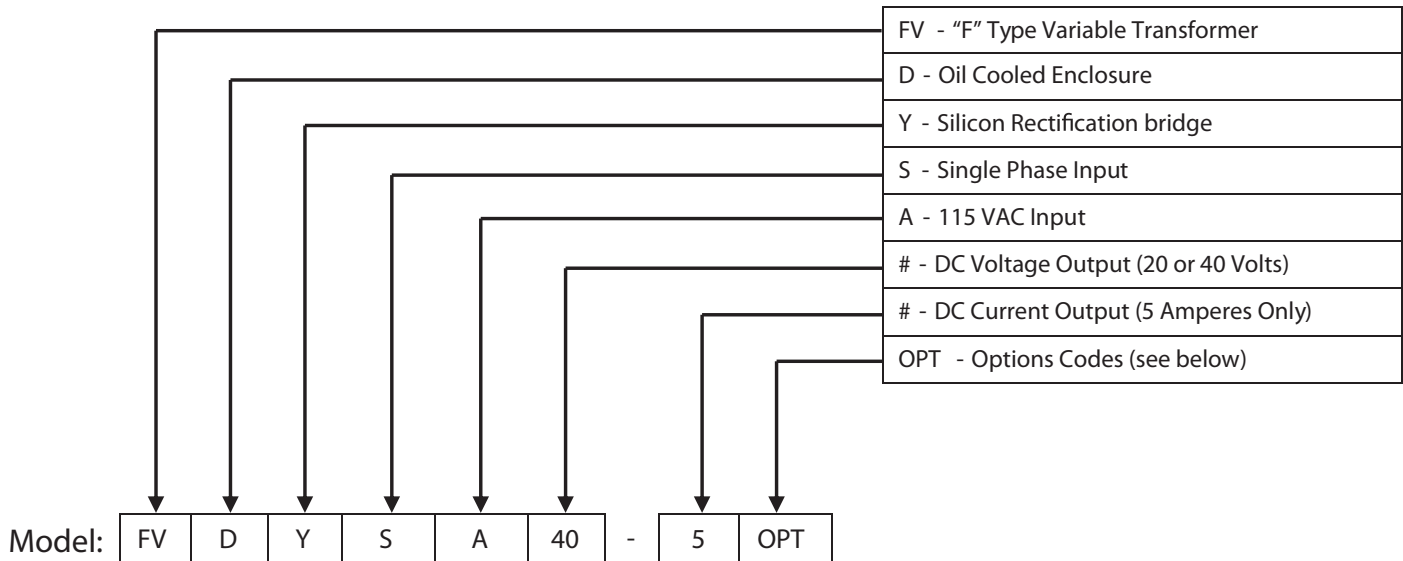
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Enclosure Dimensions



Ordering Guide



Option Code Summary

V - Upgraded Lightning Arresters AC & DC
 (Other options are limited for this series, please consult factory)

corrpro®

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Corrpro Companies, Inc.

800.443.3516 United States
 800.661.8390 Canada
 44.1642.614106 Europe
 966.3.808.9637 Middle East

www.corrpro.com