Highlights:

- High Current / High Voltage Air-Core Inductors
- High Energy MOVs
- Dead-Front Safety Terminal Blocks
- Optional Neodymium Magnetic Feet
- Stainless Steel Hardware
- Linen Electrical Grade Micarta Base

600VAC Lightning Protection Unit

The **Model SSS-600VAC-AM** is designed to protect the Power Distribution Transformers whose primaries are connected to the 600VAC power distribution lines that run for miles along the railroad right-of-way. This protection device is equipped with both Line-to-Line and Line-to-Ground Lightning and Surge Protection. It is constructed using High Current / High Voltage Air-Core Inductors designed to prevent winding to winding dielectric breakdown. High Energy MOVs are used in both the Line-to-Line and Line-to-Ground Protection Configurations.

Features:

- High energy MOVs capable of diverting up to 30,000 Amps.
- Energy handling up to 900 Joules.
- Powerful Neodymium magnetic feet; removable if mounted to non-magnetic enclosure, replaced with #8 machine screws.
- Dead-Front safety terminal blocks accept #18 through #6 AWG wire, stranded (preferred) or solid.

Terminal Connections:

- Two input connections for balanced 600 Volt line pair (neither side grounded)
- Two separate connections for earth ground (must be taken to ground separately)
- Two output connections carrying a protected balanced 600 Volt line to a Step-Down Line Transformer

Electrical Specifications:

Nominal Input Voltage = 600VAC

Maximum Input Voltage = 650VAC

Maximum Continuous Throughput Current (Input-to-Output) = 10A continuous

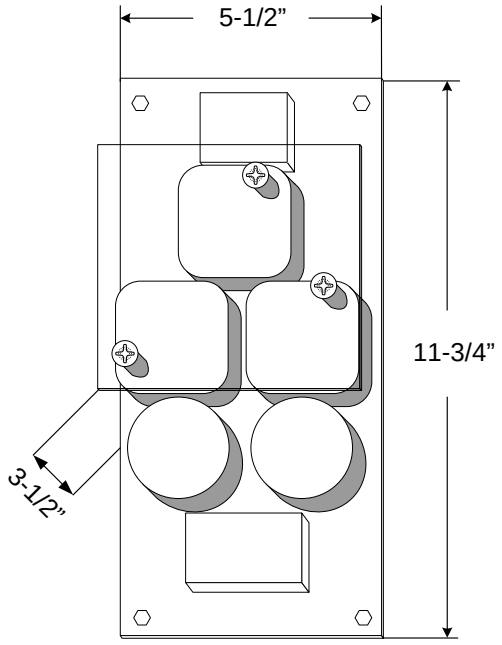
Maximum Clamping Voltage in all modes = 1720 Volts Peak @200A Device Current

Energy Handling Capability in all modes = 900 Joules

Maximum Peak Current Diverted by the MOVs = 30,000A

Insertion Impedance at 60Hz = 0.08 Ohms

Dimensions:



Application Diagram: