



TE/1SSA and TE/4SSA Series Secondary Surge Arrester/SPD



Performance Specifications

- TE/1SSA (120/240)
 - Peak Surge Current: 25,000 Amps (8x20 μ s)
 - MCOV: 175VAC rms (Line to Ground)
- TE/4SSA (277/480)
 - Peak Surge Current: 25,000 Amps (8x20 μ s)
 - MCOV: 550VAC rms (Line to Ground)
- Response Time: <5 Nanoseconds
- Current Drain: <100uA

Environmental Specifications

- Suitable for Indoor and Outdoor Installation
- Operation Temperature: -40° C (-40° F) to +85° C (+185° F)

Standard Configuration

- Enclosure is black molded flame retardent plastic housing which is weatherproof and UV resistant.
- 18” Stranded 12 AWG Color Coded Leads
- Threaded 1/2” NPT Conduit Nipple with Lock Nut
- TE/1SSA Unit Weight: 7.5 ounces
 - Shipping Weight: 8.5 ounces per arrester
6.75 lbs. per carton (12)
28.5 lbs. per case (48)
- TE/4SSA Unit Weight: 8.5 ounces
 - Shipping Weight: 9.5 ounces per arrester
7.5 lbs. per carton (12)
31 lbs. per case (48)

Design Features

- Designed, Manufactured, & Tested consistent with:
 - ANSI: C62.11-1993
 - UL: OWHX Secondary Surge Arrester
 - UL Listed (File #E103120)
- TE/1SSA Commercial and Residential Applications
- TE/4SSA Industrial and Commercial Applications
- Metal Oxide Varistors (MOV) each Line to Neutral/ Ground
- Encapsulation: UL Component Recognized Epoxy Potting Material
- Reliable Solid State Protection
- Automatic Recovery, Self Restoring

Quality

- One Year Warranty
- Maintenance Free
- APT’s Quality Management System is ISO 9001:2000 Certified

Optional Mounting Bracket Available

Model Number	Mounting Bracket Part Number
TE/1SSA TE/4SSA	7438



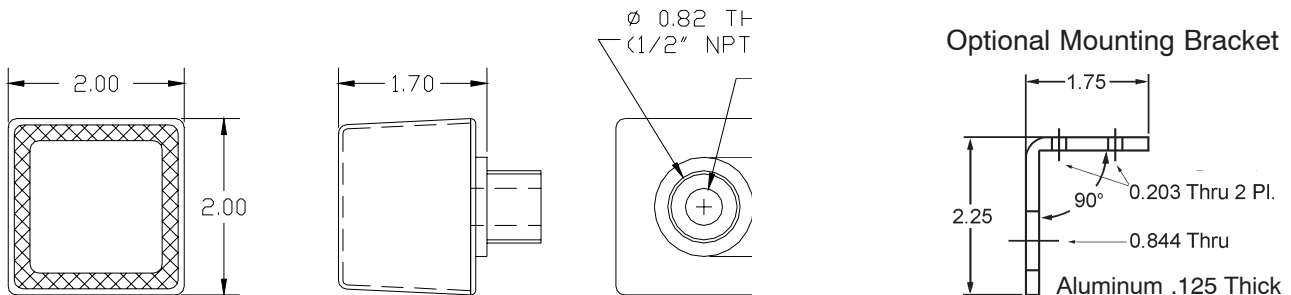
TE/1SSA Single Phase / TE/4SSA Three Phase

Electrical Specifications

Part Number	Service Voltage AC	Phase	Wire Configuration	TYPICAL CLAMP VOLTAGE 8 x 20 μ s Current Wave (Line to Ground)			
				1.5kA	5kA	10kA	20kA
TE/1SSA	120/240 175V Max (RMS)	Split	Line 1 (Black) Line 2 (Black) Neutral/Ground (White)	500V ¹ 600V ²	700V ¹ 975V ²	850V ¹ 1450V ²	1500V ¹ 2700V ²
				1450V ¹ 1550V ²	1650V ¹ 2000V ²	1850V ¹ 2450V ²	2200V ¹ 3950V ²

¹ 1" Lead Length ² 18" Lead Length

Dimensions



Description

The TE/1SSA and TE/4SSA are MOV (Metal Oxide Varistor) based hardwired Secondary Surge Arresters, often referred to as a Lightning Arrester. The device is designed to protect electrical equipment from damaging effects of Spikes (+) and Notches (-) caused by lightning, utility switching, insulation arcing, electrical motor cycling, and other large or sudden changes in electrical power flow on incoming AC power lines.

The TE/1SSA is a two pole, split phase, three wire arrester intended to protect 120/240 VAC systems and has three 18" long, 12 AWG multi-stranded leads that are color coded for ease of installation.

The TE/4SSA is a three pole, three phase, four wire arrester intended to protect 480 VAC systems and has four 18" long, 12 AWG multi-stranded leads that are color coded for ease of installation.

The epoxy encapsulated arrester is designed to be easily installed in any position indoors or outdoors utilizing the integral 1/2" NPT threaded nipple and supplied metal lock nut. The housing is molded from flame retardant plastic that is both weather and UV resistant, and complies with the UL standard for strength and flame resistance properties. The arrester is sealed with UL component recognized epoxy potting compound.

The APT Surge Arrester is ideal protection for outdoor lighting and pole lamps, panelboards, oilfield pumps, workshops, irrigation and sump pumps, refrigeration systems, farm equipment including milking machines and poultry processing equipment, electric motors and controls, heat pumps and air conditioning equipment and many other electrical devices. These devices utilize a single MOV per pole to reduce the potential load balancing/sharing problems during operation.

010501010C-SSA