

Watt Hour Meter Base **Surge Arrester**

TES 240 MSA

Residential/Light Industrial



APPLICATIONS

120 VAC-240 VAC Surge Arrester for residential and light industrial usage. Installed at wattmeter, safely clamps and dissipates lightning induced AC line high voltage current impulses going to a residence, apartment or light industrial building. Also protects against AC line temporary overvoltage conditions. Prevents damage to computers, faxes, copiers, VCRs, TVs, stereos or other AC line powered electronic/ electrical equipment.

DESCRIPTION

Introducing the TES 240 MSA Surge Arrester, installed at wattmeter, locations for residential and light industrial applications. The TES 240 MSA Surge Arrester is specifically designed for long lifetimes even with strong lightning activity and temporary line overvoltage conditions. A tough Surge Arrester for tough line conditions.

FEATURES

- 40,000 Amp peak capability, each 120 VAC leg
- 210 VAC, continuous 5 minutes, temporary overvoltage clamping capability.
- Lowest, reliable voltage clamping level
- Safety fusing, both 120 VAC legs, patented
- LED "unit good" indicators, both 120 VAC legs
- Fire proof and explosion proof polycarbonate glass-fiber reinforced enclosure with matching mounting connector
- Sealed unit except for mounting connector wiring opening
- For less inductance, #10 AWG tinned wires
- Competitive pricing

End of Life Failure Mode

While in overvoltage induced

thermal runaway, apply 7 KA

at 120 VAC. Surge arrester

must fail safe without

arcing allowed.

(550° C or greater)

Thermal Withstand

faulting the AC line. No

Enclosure Flammability

Ultra-Violet Resistance

ELECTRICAL-ENVIRONMENTAL SPECIFICATIONS

Maximum Peak Surge Current

(each 120 VAC leg) 40 KA plus

Maximum Clamping Voltage Level

@40 KA (each 120 VAC leg) 840 VDC

Start Clamping Voltage Level

@1 ma (each 120 VAC leg) 240 VDC

Accelerated Life Test

13 KV, 1.2/50 μsec. open circuit, 5.5 KA, 8/20 µsec. short circuit, 100 surge cycles, 6 secs. apart. No failure or arcing allowed.

Surge Arresters still in excellent tests. No arcing.

Temporary Overvoltage

Continuous, 5 minutes, maximum line voltage without thermal runaway. Must be 185 VAC or greater. condition at end of

Salt-Fog Corrosion Resistance 210 VAC **Enclosure Dimensions**

> Recommended "Hole Size" for Mounting Connector

Surge arrester fails safesurge element punctures, safety fuse opens, LED turns off, no fire, slight puff of smoke out connector wiring opening. AC line not faulted. No arcing.

960° C, UL 94 V1

Good UV stability in tropical conditions

80° C

Very good

2.75" deep X 7" diameter

Form 2S or 12S ring or ringless style