



Watt Hour Meter Base Surge Arrester

TES 240 MSA Residential/Light Industrial



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 copper wire
- Competitive pricing

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.

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 μ sec. open circuit, 5.5 KA, 8/20 μ sec. short circuit, 100 surge cycles, 6 secs. apart. No failure or arcing allowed. Surge Arresters still in excellent condition at end of tests. No arcing.

Temporary Overvoltage

Continuous, 5 minutes, maximum line voltage without thermal runaway. Must be 185 VAC or greater. 210 VAC

End of Life Failure Mode

While in overvoltage induced thermal runaway, apply 7 KA at 120 VAC. Surge arrester must fail safe without faulting the AC line. No arcing allowed.

Enclosure Flammability

(550° C or greater) 960° C, UL 94 V1

Ultra-Violet Resistance

Good UV stability in tropical conditions

Thermal Withstand

80° C

Salt-Fog Corrosion Resistance

Very good

Enclosure Dimensions

2.75" deep X 7" diameter

Recommended “Hole Size” for Mounting Connector

Form 2S or 12S ring or ringless style