Three Phase Surge Arrester 277/480 VRMS

TES 277SE
Commercial/Industrial

DESCRIPTION

Introducing the TES 2277SE Surge Arrester, installed at wattmeter, service entry or weatherhead locations for commercial and industrial applications. The TES 277SE 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.

APPLICATIONS

Three Phase 277 VAC Surge Arrester for commercial and industrial usage. Installed at distribution indoor panel, safely clamps and dissipates AC line high voltage current impulse going to a residential, apartment or light industrial building.

FEATURES

UL1449 4th ed. surge suppressor with thermal protection designed to open in the event of over heating due to an abnormal over-voltage or temporary overvoltage (TOV) and will interrupt any abnormal current that may be encountered.

- Compact Size
- UL1449 4th approved
- Quick thermal response and perfect circuit cutoff function due to special thermal disconnector design with intemal arc extinguishing device (Patent)
- Wide operating temperature range and high reliability
- Low leakage current
- Application in the AC mains, service entrance, and heavy industrial etc
- SCCR up to 100 KAtms without external fuse or CB
- 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
- MCOV 150

ELECTRICAL-ENVIRONMENTAL SPECIFICATIONS

UL1449 4th ed. surge suppressor with thermal protection designed to open in the event of over heating due to an abnormal over-voltage or temporary overvoltage (TOV) and will interrupt any abnormal current that may be encountered.

Type 1 SPD

VOLTAGE:

277/480 VRMS, 3 WIRE & GROUND

THREE PHASE, 50/60HZ, MCOV 320V

VOLTAGE PROTECTION RATING - VPR

L-L 2000V, L-G 2000

NOMINAL DISCHARGE CURRENT (In) 10 KA

SHORT CIRCUIT CURRENT RATING

SCCR 100 KA

TYPE 3R ENCLOSURE

End of Life Failure Mode While in overvoltage induced thermal runaway, apply 7 KA at operating voltage. Surge arrester must fail safe without faulting the AC line. No arcing allowed.	Surge arrester fails safe– surge element punctures, safety fuse opens, LED turns off, no fire, slight puff of smoke out connector wiring opening. AC line not faulted. No arcing.
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	Chemical resistance
Enclosure Dimensions	5.12″ X 5.12″ X 3.90″
Recommended "Hole Size" for Mounting Connector	1.12″

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