

# SURGE-TRAP<sup>®</sup> PROTECTION

## SURGE PROTECTION DEVICES

Mersen, an industry pioneer in surge protection technology, has developed a world-class suite of surge protection devices for your entire facility. Surge-Trap SPDs are designed to UL1449 3<sup>rd</sup> Edition standards and feature Mersen's industry leading patented TPMOV<sup>®</sup> technology inside. Providing advanced overvoltage protection to meet today's toughest requirements, you can rely on Mersen's Surge-Trap SPDs for proven and safe facility-wide protection.



### Surge-Trap<sup>®</sup> Pluggable SPD

- Surge Protective Device featuring Mersen's patented TPMOV<sup>®</sup> technology with UL 1449 3<sup>rd</sup> Edition approval
- Two-piece design consists of a 35mm DIN-rail mountable base and plug designed to be easily replaced upon failure without touching the base or the hassle of re-wiring a completely new device
- 200kA SCCR rating, 20kA Nominal Discharge Current Rating



### Surge-Trap<sup>®</sup> Modular SPD

- Surge Protective Device featuring Mersen's patented TPMOV<sup>®</sup> fail safe, no fuse technology
- Single piece, modular design is the original UL1449 3<sup>rd</sup> Edition approved 35mm DIN-rail mountable product in the Surge-Trap<sup>®</sup> Product line
- 200kA SCCR rating, 20kA Nominal Discharge Current Rating



### Surge-Trap<sup>®</sup> Type 1 SPD

- Specifically designed to meet UL1449 3<sup>rd</sup> Edition standards featuring Mersen's industry leading patented TPMOV<sup>®</sup> technology
- Ideal for indoor commercial and residential applications
- Offers an economical replacement for secondary surge arrestors
- Installed either upstream or downstream of the load center



### Surge-Trap<sup>®</sup> Type 1 X-Series SPD's

- Mersen's newest line of UL 1449 3<sup>rd</sup> Edition approved surge protection devices featuring Mersen's industry leading patented TPMOV<sup>®</sup> technology
- All products feature a NEMA 4X enclosure, suitable for both indoor and outdoor applications
- Installed line-side or load-side of the main disconnect



### TPMOV<sup>®</sup>

- Industry leading Thermally Protected Metal Oxide Varistor (TPMOV) technology eliminates common destructive failure modes associated with standard MOV's
- Comprised of a voltage clamping device and a disconnecting apparatus that monitors the status of the metal oxide disk inside the TPMOV, the device is securely disconnected in the event of an overvoltage by an arc shield.
- Designed for a safe disconnect without causing equipment or facility damage as seen with previous generation and less sophisticated MOV's.



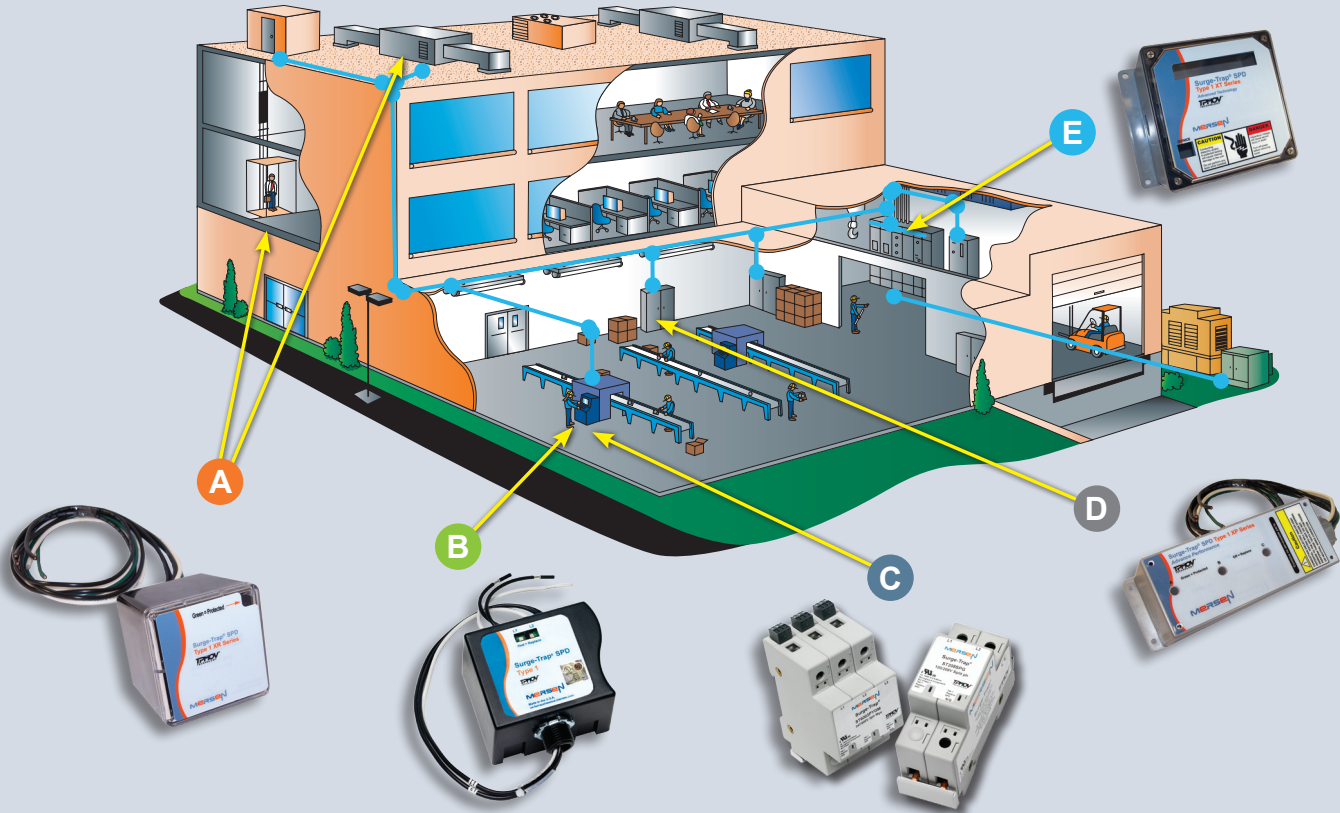
### VSP MOV Protector Fuse

- Surge suppression fuse designed to address the protection of Surge Protection Device systems
- Specifically designs to withstand 8x20uSec surge pulses without opening, allowing the SPD system to react to the surge
- Under AC short circuit conditions, these fuses are extremely current limiting



# SURGE-TRAP<sup>®</sup> PROTECTION

## A SOLUTION FOR EVERY AREA IN YOUR FACILITY



**A** STXR Series, Listed Type 1 SPD

- End use equipment
- HVAC – 4X enclosure

**B** STT2 Series, Listed Type 1 SPD

- End use equipment
- Inside use

**C** ST Series, UL Recognized Type 4 SPD

- Control panels
- OEM based equipment

**D** STXP Series, Listed Type 1 SPD

- Distribution panels
- Motor control, automation control
- Larger equipment, drives

**E** STXT Series, Listed Type 1 SPD

- Service entrance gear
- Main distribution panel board



**Surge-Trap Products can be used in a wide variety of applications, including:**

- AC/DC distribution
- Power supplies
- Industrial automation
- Telecommunications
- Motor controls and starter systems
- Programmable logic controller (PLC)
- Power transfer equipment
- HVAC applications
- AC drives
- UPS systems
- Security systems
- IT / Data centers
- Medical equipment

USA T 978 462 6662 F 978 462 0181 info.nby@mersen.com  
 CANADA T 416 252 9371 F 416 252 6572 sales.tor@mersen.com

[us-ferrazshawmut.mersen.com](http://us-ferrazshawmut.mersen.com)

FERRAZ SHAWMUT IS NOW MERSEN

