

MPT SERIES

Transient Voltage Surge Suppression for ... Service Entrance & Main Distribution Panels

The **MPT Series** is a modular Transient Protection System that provides heavy-duty surge protection and filtering for industrial and commercial sites against the harmful affects of transient energies induced on AC power lines.

The MPT's unique modular construction allows it to deliver low clamping voltages while safely handling large surge currents. Configured for parallel installation, units cost nothing to maintain and are easy to upgrade while in service. All models have a 25kA rms symmetrical fault current rating and are rated for application on service panels greater than 400 Amps.

On-board diagnostics include a front panel display equipped with LED indicators that continuously monitor the operational status of the entire unit. An audio alarm is standard with switch positions for test, disable and enable and a set of NO/NC dry contacts are provided as an interface for remote monitoring. A Surge Counter and a Remote Monitor are available options.

The surge suppression and filtering capabilities of the **MPT Series** are provided through MTI's, UL Recognized, replaceable protection modules (RPMs). Utilizing large diameter (40mm) MOV technology and patented (U.S. Patent # 4866560) thermal overload protection.

PRODUCT FEATURES

- UL 1449, 2nd Edition, Listed*
- Patented Integrated Thermal Overload Protection*
- Field Replaceable (RPM Series) Protection Modules UL 1449 2nd Edition Recognized Components*
- Low Impedance Construction Provides Low Clamping*
- Fault Current Rating: 25kA rms symmetrical*
- Optional Filtering Listed to UL 1283, 3rd Edition*
- Fast Economical Parallel Installation*
- Form C (NO/NC) Dry Contacts Standard*
- Available Surge Counter Option*
- Available Remote Monitor Option*
- Front Panel Diagnostics with LEDs and Alarm*
- Comprehensive 5 Year Warranty*
- Shipping Weight=22-25lbs*

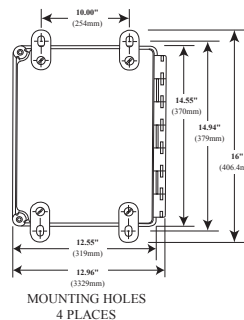
Specification Sheet

Shown with
NEMA 4
Enclosure
Option



MOUNTING INFORMATION

[Figure #1: MPT Front View]



After determining a position to mount the device, that will minimize the length of connecting wires, drill a hole in the enclosure for the conduit to run wires from the distribution panel to the connecting lugs inside the SPD. Installation is simplified if the wires enter the enclosure, at the top of the enclosure. Securely mount the TVSS unit using 1/4-20 bolts in the four (4) mounting holes provided in the enclosure's mounting flanges.

PERFORMANCE

- Maximum Surge Current (8/20us waveform): 160kA, 240kA or 320kA per phase(based on specific model number)**
- Operating Frequency: 47/63Hz**
- RFI/EMI Noise Filtering: -50dB @ 100KHz (MIL-STD-220A)**
- Operating Temperature Range: -40⁰ to +85⁰ C**
- Operating Humidity Range: 0 to 95% (Non-Condensing)**

Ordering Information:

| MODEL NUMBER | SERVICE VOLTAGE | MCOV | CLAMP VOLTAGE RATINGS Per UL 1449 2nd Edition | | | |
|-----------------|--------------------------------|------------|---|----------|-------|-------|
| | | | L-N | L-G | N-G | L-L |
| MPTXXX/120-10-O | 120 volt Single \bar{y} | 150Vac | 400V | 400V | 700V | N/A |
| MPTXXX/240-10-O | 240 Volt Single \bar{y} | 320Vac | 800V | 800V | 1500V | N/A |
| MPTXXX/120-SP-O | 120/240 Volt Split \bar{y} | 150Vac | 400V | 400V | 700V | 800V |
| MPTXXX/120-3W-O | 120/208 Volt 3 \bar{y} Wye | 150Vac | 400V | 400V | 700V | 800V |
| MPTXXX/120-HL-O | 120/240 Volt 3 \bar{y} Delta | 150/320Vac | 400/800V | 400/800V | 700V | 1500V |
| MPTXXX/240-3D-O | 240 Volt 3 \bar{y} Delta | 320Vac | N/A | 800V | N/A | 1500V |
| MPTXXX/220-3W-O | 220/380 Volt 3 \bar{y} Wye | 350Vac | 800V | 800V | 1500V | 1500V |
| MPTXXX/230-3W-O | 230/400 Volt 3 \bar{y} Wye | 330Vac | 800V | 800V | 1500V | 1500V |
| MPTXXX/240-3W-O | 240/415 Volt 3 \bar{y} Wye | 330Vac | 800V | 800V | 1500V | 1500V |
| MPTXXX/277-3W-O | 277/480 Volt 3 \bar{y} Wye | 320Vac | 800V | 800V | 1500V | 1500V |
| MPTXXX/480-3D-O | 480 Volt 3 \bar{y} Delta | 550Vac | N/A | 1500V | N/A | 2500V |

- NOTES:**
1. Replace XXX with desired kA rating, per phase: 160 for 160kA, 240 for 240kA or 320 for 320kA.
 2. Replace O with F at the end of the part number if filtering is required.
 3. Place /SC at the end of the part number for the Surge Counter option.



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