

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, able 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

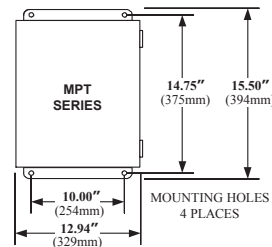
Shipping Weight=22-25lbs

Specification Sheet



MOUNTING INFORMATION

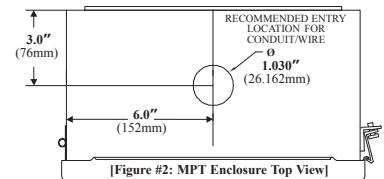
[Figure #1: MPT Front View]



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 (see figure #2) 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.

CONSTRUCTION

14 gauge steel with continuous hinge
UL 50 Type 12 & Type 13
NEMA/IEEMAC Type 12 & Type 13
JIC standard EGP-1-1967
CSA Type 12. IEC 529, IP65



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: -40° to +85° 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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