

# MPT Series

## Modular Commercial & Industrial SPD with Diagnostics Panel

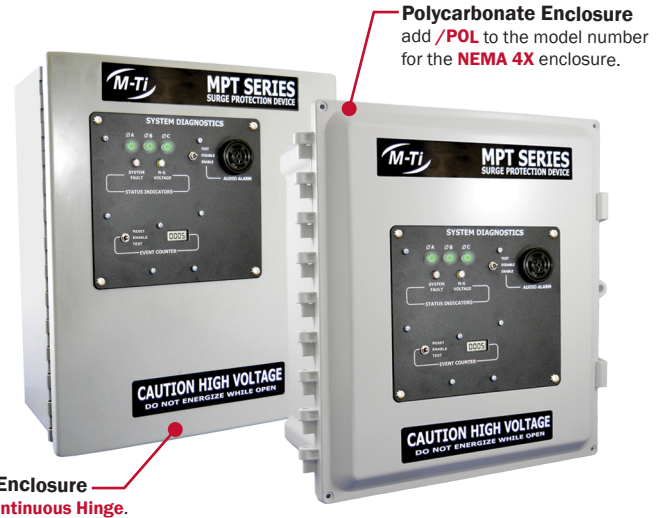


The **MPT Series** is a **100% modular** Surge Protection System providing high-energy protection and optional RF filtering for Commercial, Industrial and Remote Site applications. These panel units provide superior control over transients by delivering low clamping voltages combined with **high surge energy handling capabilities**. They are configured for quick and easy parallel installation.

Models are available for all standard electrical services and provide up to 300kA of surge energy handling per phase. This rating is **30 times the energy handling of the IEEE's highest Category C location** rating of 10kA/20kV using an 8x20μs waveform. All models carry a 100kA RMS symmetrical fault current rating making expensive disconnects and/or costly replacement fuses unnecessary.

**On-board diagnostics** include a front panel display equipped with LED indicators that continuously monitor the operational status of the entire unit. An Audible Alarm is standard with switch positions for test, disable and enable. A **Surge Counter** and a set of NO/NC dry contacts are also standard. Internal filtering and a remote monitor are available options.

All Models are rated for Type 1 or Type 2 service locations and are available with surge ratings from **100kA to 300kA** per phase.

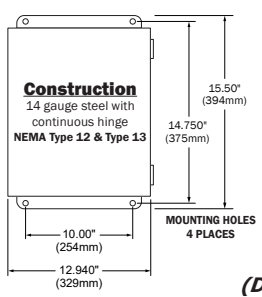
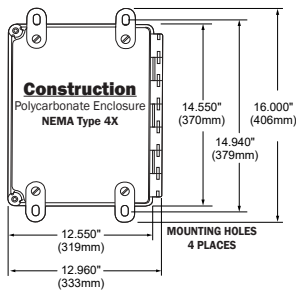


Polycarbonate Enclosure add /POL to the model number for the **NEMA 4X** enclosure.

Steel Enclosure with **Continuous Hinge**.

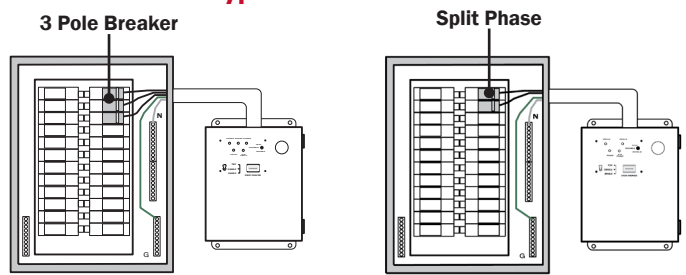


### Dimensions



(Diagrams not drawn to scale)

### Typical Installations



### Product Specifications

Max Surge Current (8/20) $I_{max}$	<b>300 kA per Phase</b>	Fusing	<b>Surge/ Thermal</b>
Short-Circuit Current Rating (SCCR)	<b>100 kA RMS Symmetrical</b>	Response Time	<b>&lt; 1 Nanosecond</b>
Repetitive Impulse Rating ( $I_n$ )	<b>20 kA*</b>	Listings & Certifications	<b>Listed to ANSI/UL 1449</b>
On/Off Status ♦	<b>LEDs, Audible Alarm</b>	Warranty	<b>10 Year Limited Product Warranty</b>
Housing Rating	<b>NEMA 4, 4X, 12</b>	Connector Method	<b>Hardwired</b>
Most Current Industry Standards	<b>ANSI/UL 1449</b>	Relative Humidity	<b>95% noncondensing</b>
Surge Technology	<b>MOV</b>	Feedback	<b>Surge Counter</b>
Operating Temperature	<b>-40 °F to +140 °F (-40 °C to +60 °C)</b>	Remote Alarm Contacts	<b>NO/NC/C, Isolated Form C</b>
Operating Frequency	<b>47-63 Hz (50/60 Hz Typ.)</b>	Remote Alarm contact capability (Nominal Volts/ Nominal Amps)	<b>AC: 125V/0.5A DC: 30V/1.0A</b>

\* Devices that are rated 480V delta have a 10kA  $I_n$   
 ♦ See **Installation Guide** for detailed instruction on reading On/Off Status

Model Number	Service Voltage	MCOV	L-N	L-G	N-G	L-L
MPTXXX/120-10-#1	120V Single Phase, 2 Wire + Gnd	150V	700V	700V	700V	-
MPTXXX/120-3H-0-1	120/240 Volt 3 Phase HL Delta	150/320V	700/1000V	700/1000V	700V	1500/1800V
MPTXXX/120-3W-#1	120/208V 3 Phase Wye, 4 Wire + Gnd	150V	700V	700V	700V	1500V
MPTXXX/120-SP-#1	120/240V Split Phase, 3 Wire + Gnd	150V	700V	700V	700V	1500V
MPTXXX/220-3W-#1	220/380 Volt, 3 Phase Wye	320V	700V	700V	700V	1500V
MPTXXX/230-3W-#1	230/400 Volt, 3 Phase Wye	320V	700V	700V	700V	1500V
MPTXXX/240-3D-0-1	240V 3 Phase Delta, 3 Wire + Gnd	320V	-	1000V	-	2000V
MPTXXX/240-3W-#1	240/415 Volt, 3 Phase Wye	320V	700V	700V	700V	1500V
MPTXXX/277-3W-#1	277/480V 3 Phase Wye, 4 Wire + Gnd	320V	1000V	1000V	1000V	2000V
MPTXXX/480-3D-0-1	480V 3 Phase Delta, 3 Wire + Gnd	520V	-	1800V	-	4000V

1. Replace XXX with: desired kA rating per phase: 100 for 100kA or 200 for 200kA or 300 for 300kA.
2. Replace # with: F if filtering is required (available option on WYE Models only).
3. Add: /RM at the end of the Model Number for the Remote Monitoring option.
4. **ENCLOSURE HOUSING OPTIONS:** Add /POL to the end of the Model Number for NEMA 4X Polycarbonate or /SS for NEMA 4 Stainless Steel or /WP for Weatherproof.