

# Commercial/Light Industrial Modular Surge Protective Device

## MST SERIES

The patent pending MST Series is a modular, parallel installed, SPD (surge protection device) designed for commercial, industrial and residential applications. Models are available for all standard electrical services and provide 100kA of surge energy handling per phase. This rating is 10 times the energy handling of the IEEE's highest Category C location rating of 10kA/20kV using an 8x20 $\mu$ s waveform. All models carry a 100kA rms symmetrical fault current rating making expensive disconnects and/or costly replacement fuses unnecessary.

MST units incorporate a replaceable MT protection module that is completely self-contained with fusing and diagnostic circuitry. The MT module can be replaced in the field, thereby eliminating the need to remove the entire unit from service. Replacement modules include the entire operating unit including all phases, all modes, the fuses and even the diagnostics.



NEMA 4X Polycarbonate Housing Shown

Product Specifications		Notes
Max Surge Current	100kA per phase	
Short Circuit Current*	100kA RMS Symmetrical Amps	
Housing Rating	NEMA 3R, 4, 4X or 12	
Fusing	Coordinated Surge and Thermal	
Operating Frequency	50/60 Hz	
Operating Altitude	-200 ft. to +15,000 ft.	
Diagnostics	Red LED	
Safety Standards	UL 1449 3rd Ed. (Sept. 2009)	
I <sub>n</sub> *	10/20kA	

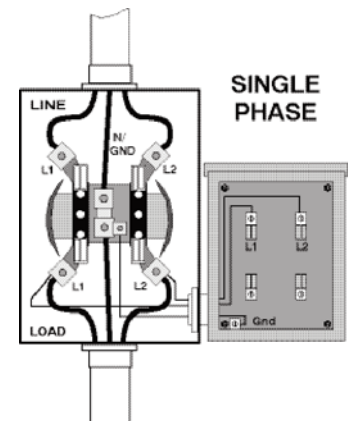
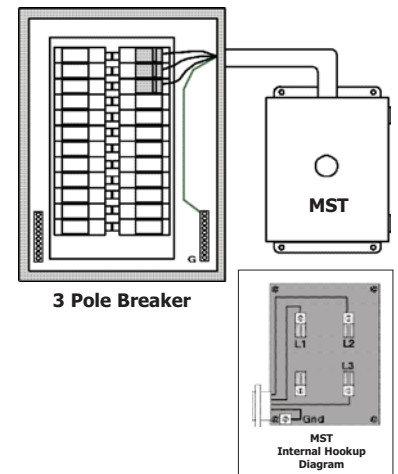
\*Required by UL 1449 3rd Edition

NEMA Rating	Dimensions	Weight
NEMA 12 & 4	11.5" L x 9" W x 6" D	13 lbs
NEMA 3R	10.25" L x 8.5" W x 6" D	12 lbs
NEMA 4X (Poly)	10" L x 8" W x 4" D	11 lbs

MODEL NUMBER	SERVICE VOLTAGE	VPR
MSTXXX-120-SP-0-XX	Split Phase 3 Wire + Gnd	600 Volts
MSTXXX-120-3W-0-XX	3 Phase Wye, 4 Wire + Gnd	600 Volts
MSTXXX-120-3H-0-XX	High Leg Delta, 4 Wire + Gnd	600/1000 Volts
MSTXXX-240-3D-0-XX	3 Phase Delta, 3 Wire + Gnd	1000 Volts
MSTXXX-220-3W-0-XX	3 Phase Wye, 4 Wire + Gnd	1000 Volts
MSTXXX-230-3W-0-XX	3 Phase Wye, 4 Wire + Gnd	1000 Volts
MSTXXX-277-3W-0-XX	3 Phase Wye, 4 Wire + Gnd	1000 Volts
MSTXXX-480-3D-0-XX	3 Phase Delta, 3 Wire + Gnd	1500 Volts

Replace XXX with desired kA rating per phase: 050 for 50 kA or 100 for 100 kA  
 Replace XX with 3R, 12, POL (4X NonMetallic) or SS (Stainless) for desired NEMA Enclosure

### Typical Installations



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