# SURGE-TRAP® STZ SERIES EXTERNAL SPD

#### SURGE PROTECTIVE DEVICE

NEMA DEVICES FOR ANSI/UL 1449 TYPE 1 AND 2 APPLICATIONS



The Mersen flagship for facility-wide protection, The Surge-Trap® Type 1 STZ Series features surge capacities up to 450kA designed with Mersen's industry leading TPMOV® technology inside making it the safest and most reliable product on the market. Options include surge counter, through-the-door disconnect switch, audible alarm, dry contact, and EMI/RFI filtering. This external SPD can be installed on the line or load side of the service entrance.

### FEATURES AND BENEFITS:

- Ideal for new construction bid projects and specification as well as existing facility retrofit
- Available with accessory **Option A** for basic features (LED status indicators) and **Option B** for standard features (EMI/RFI filter, surge counter, Audible alarm and dry contacts)
- Replaceable SPD Module which can be rotated 90 degrees depending on desired cable entry location
- Up to 10 Modes of Protection (L-N, L-L, L-G, N-G)
- 15-year warranty

 Nominal Discharge Current Rating (I\_): 20kA

Volts (U\_): 120-480VAC

RATINGS:

- Surge Capacity (per phase): 100, 150, 200, 300, 450kA
- Short-Circuit Current Rating (SCCR): 200kA
- Optional EMI/RFI Filter: Up to -50dB from 10kHz to 100MHz

## APPROVALS:

- ANSI/UL 1449 4th Edition, Type 1 SPD, File E210793
- CSA C22.2, Type 1 SPD
- ANSI/IEEE C62.41.1, C62.41.2, C62.45
- UL96A Lightning Protection
- RoHS Compliant



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5			gs for 6-10 AWG copper or NEMA 4X stainless steel VA			Relative Humidity Range: Visual LED End-of-Life Indicator: Frequency:			0 to 95% non-condensing Green = 67 to 100% Life Yellow = 34 to 66% Life Red = 0 to 33% Life 50-60Hz			
CATALOG NUMBER (INCLUDES	SYSTEM V AND CON	OLTAGE	I <sub>n</sub>		M CONTIN E (MCOV, U				TAGE PROTECTION RATING (VPR) 1449, 6kA, 3kV)			
SUFFIXES*)				L-N	L-G	L-L	N-G*	L-N	L-G	L-L	N-G*	
STZ240S	240/120V Split Phase		20kA	150	150	300	150	700	700	1000	700	
STZ120D	120V 3-Phase DELTA		20kA	-	150	300	-	-	700	1000	-	
STZ208Y	208/120V 3-Phase WYE		20kA	150	150	300	150	700	700	1000	700	
STZ480Y	480/277V 3-Phase WYE		20kA	320	320	640	150	1200	1200	2000	700	
STZ240D	240V 3-Phase DELTA		20kA	-	320	640	-	-	1200	2000	-	
STZ480D	480V 3-Phase DELTA & HRG WYE		20kA	-	550	1100	-	-	1800	3000	-	
*Part Numbe	er Selector (Dor	i't see what you nee	d? Pleas	e contact the	factory)							
STZ		480Y		30		В		1		Т		
Model	Series	Voltage and Sys Configuratio		Surge (	Capacity	Pac	kage	Encl	osure	Dis	connect	
STZ		2405: 240/120V Split 120D: 120V DELTA 208Y: 208/120V WYE 480Y: 480/277V WYE 240D: 240V DELTA 480D: 480V DELTA & HRG WYE		10: 100kA 15: 150kA 20: 200kA 30: 300kA 45: 450kA		Phase Lo B: Standard LED Statu Phase Lo Audible A Form C D EMI/RFI F	A: Basic LED Status Indicators Phase Loss Indication B: Standard LED Status Indicators Phase Loss Indication Audible Alarm Form C Dry Contacts EMI/RFI Filter Surge Counter		1: NEMA 1/12/3R/4 X: NEMA 4X		T: UL98 Switch thru the door handle BLANK: None	

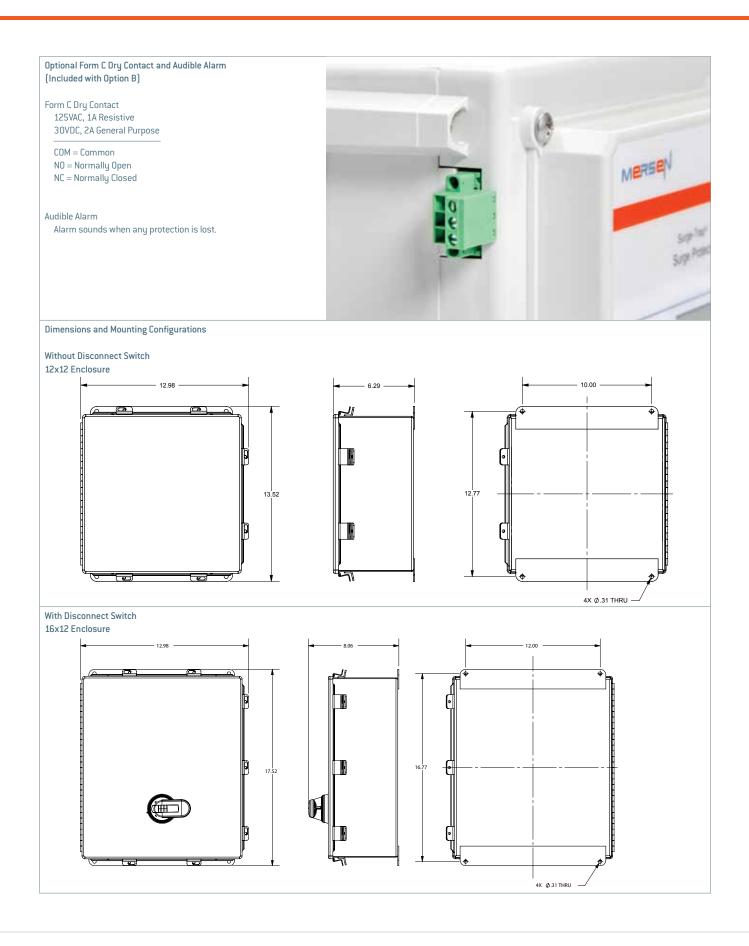




Note: Images above show HMI mounted on Internal SPD (STZ-R Series). For the STZ External SPD, HMI will be mounted on the enclosure door.



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