

STZ Series SPD

Surge-Trap®

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:

- Type 1 SPD for service entrance and facility-wide protection
- Ideal for new construction bid projects and specification as well as existing facility retrofit
- Designed with the industry leading Mersen TPMOV® Technology (internally fused)
- Standard features include LED phase loss indication, EMI/RFI filter, surge counter with reset, dry contacts and audible alarm with silence button
- Field replaceable SPD module
- SPD module can be rotated 90 degrees depending on desired cable entry location
- Available with or without disconnect switch
- For use in ANSI/UL Type 1 or 2 SPD installations
- Up to 10 Modes of Protection (L-N, L-L, L-G, N-G)
- 15-year warranty

RATINGS:

- **Volts (U_n):** 240-480VAC
- **Nominal Discharge Current Rating (I_n):** 20kA
- **Surge Capacity (per phase):** 100, 200, 300, 450kA
- **Short-Circuit Current Rating (SCCR):** 200kA
- **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



GENERAL PRODUCT SPECIFICATIONS

Mounting:	Mounting feet	Relative Humidity Range:	0 to 95% non-condensing
Wiring:	Wire Lugs for 6-10 AWG copper	Visual LED End-of-Life Indicator:	Green = 67 to 100% Life Yellow = 34 to 66% Life Red = 0 to 33% Life
Enclosure:	NEMA 4 or NEMA 4X stainless steel	Frequency:	50-60Hz
Flammability:	UL94-5VA		
Operating & Storage Temperature:	-40°C to +85°C		

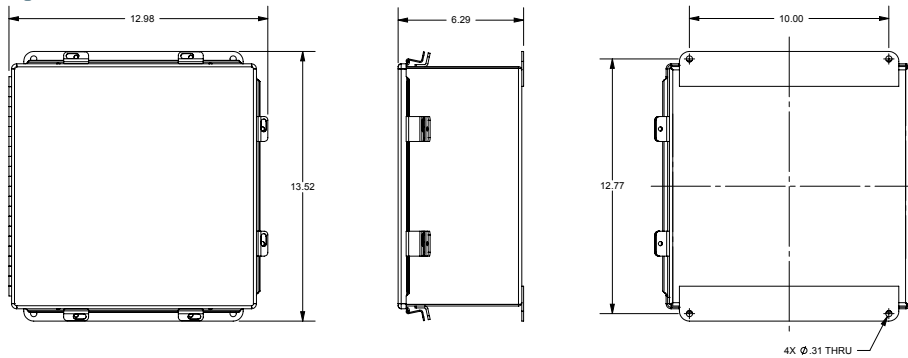
CATALOG NUMBER (INCLUDES SUFFIXES*)	SYSTEM VOLTAGE AND CONFIGURATION	I _n	MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV, U _c)				VOLTAGE PROTECTION RATING (VPR) (UL 1449, 6kA, 3kV)			
			L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
STZ240S...	240/120V Split Phase	20kA	150	150	300	150	700	700	1000	700
STZ208Y...	208/120V 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 Number Selector (Don't see what you need? Please contact the factory)

STZ Model Series	480Y Voltage and System Configuration	30 Surge Capacity	B Package	1 Enclosure	T Disconnect
STZ	240S: 240/120V Split 208Y: 208/120V WYE 480Y: 480/277V WYE 240D: 240V DELTA 480D: 480V DELTA & HRG WYE	10: 100kA 20: 200kA 30: 300kA 45: 450kA	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 Q: Field-replaceable unit	BLANK: None T: UL98 Switch thru the door handle U: UL98 Switch for field-replaceable unit

Dimensions and Mounting Configurations

Without Disconnect Switch
12x12 Enclosure



With Disconnect Switch
16x12 Enclosure

