

# Surge-Trap<sup>®</sup> Type 1 XP Series SPD

The Surge-Trap<sup>®</sup> Type 1 XP Series offers advanced performance over other products. The XP meets requirements for UL1449 Fourth Edition and has been designed to be as compact as possible while offering advanced protection. The XP features TPMOV<sup>®</sup> technology inside making it the safest product available. Installation can be done on the line or load side of a panel. The XP is the perfect fit from service entrance all the way down to an important machine specific control panel.

## Features/Highlights:

- UL 1449 Listed, Type 1 SPD
- Can be installed line-side or load-side of main disconnect
- 20kA Nominal discharge current
- 200kA SCCRs (most models)
- UL 96A Lightning Protection Master Label compliant (20kA, In)
- Pre-wired with 3' (1m) of #10 AWG conductor
- Voltage specific design – highly configurable
- All MOV suppression elements monitored
- NEMA 4X enclosure
- Ten-year warranty
- Phase-loss monitoring (toggles LED and dry contacts)

## Applications:

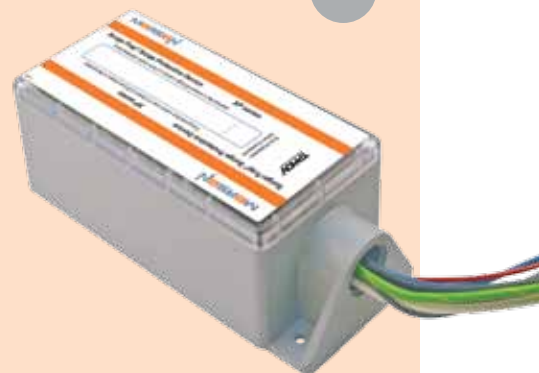
- AC Distribution
- Power supplies
- Drive Protection
- Fire Alarms
- Control Panels
- Telecommunications
- Residential
- IT / Data centers

## Mounting:

- ¾" threaded hub
- Direct mounting feet

## General Product Specifications

Maximum Discharge Current	100kA
Visual End of Life Indicator	GREEN = OK, OUT = REPLACE
Relative Humidity Range	0 to 95% non-condensing
Frequency	47 - 63 Hz
Response Time	< 1 ns
Operating and Storage Temperature	- 40°C to + 85°C
Wiring Method	Pre-wired with 3' (1m) 10 AWG conductors
Dimensions	8" x 3" x 3" (203mm x 76mm x 76mm)
Weight	3 lbs (1.4 kg)



## Ratings:

### Max Discharge Current

: 100kA per phase

**Volts** : 120V to 600V AC

### Nominal discharge current

: 20kA (most models)

**SCCR** : 200kA (most models)

### Operating & storage temp

: -40°C to +85°C

### Wiring Size

: 3' (1m) #10AWG  
integral leads

### Enclosure

: NEMA 4X Polycarbonate

## Approvals:

- UL 1449 Fourth Edition Listed, File E210793
- RoHS Compliant
- IEC 61643, CE
- Burn-In tested prior to shipment
- UL 96A Lightning Protection Master Label (@ 20kA I<sub>n</sub>, most models)

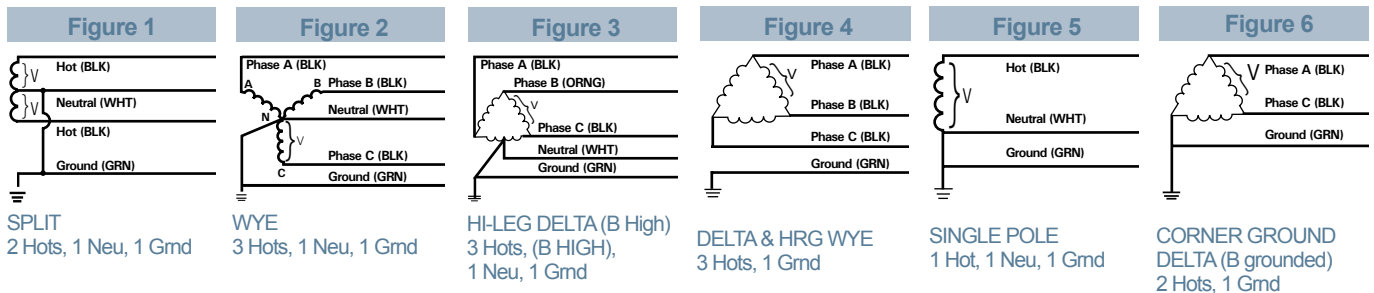


# Surge-Trap<sup>®</sup> Type 1 XP Series SPD

## Catalog - Ordering System

STXP	System Voltage	S	Surge Rating	Enclosure	Options
STXP	<b>Common System Configurations</b>	S	100	4X	Blank A = Audible Alarms & Dry Contacts E = Remote Indicator (on 6 ft. cable) L = Deletes L-N protection G = Deletes L-G protection N = Deletes N-G protection
	01 = 240/120V Split Phase - 1Φ 3W+Grnd (Fig 1)				
	02 = 208Y/120V Wye - 3Φ 4W+Grnd (Fig 2)				
	03 = 240/120V High Leg Delta (B High) (Fig 3)				
	04 = 480Y/277V Wye - 3Φ 4W+Grnd (Fig 2)				
	05 = 480V Delta - 3Φ 3W+Grnd (Fig 4) & HRG Wye				
	08 = 600Y/347V Wye -3Φ 4W+Grnd (Fig 2)				
	<b>Other System Configurations Available</b>				
	06 = 240V Delta - 3Φ 3W+Grnd (Fig 4)				
	07 = 380Y/220V Wye - 3Φ 4W+Grnd (Fig 2)				
	09 = 600V Delta - 3Φ 3W+Grnd (Fig 4) & HRG Wye				
	11 = 120V Single Phase (Fig 5)				
	12 = 240V Single Phase (Fig 5) - Not split phase				
	13 = 127V Single Phase (Fig 5)				
	14 = 300V Single Phase (Fig 5)				
	15 = 254/127V Split Phase - 1Φ 3W+Grnd (Fig 1)				
	16 = 277V Single Phase (Fig 5)				
	17 = 480V Single Phase (1 Hot, 1 Neu, 1 Grnd) (Fig 5)				
	18 = 480/277 2-Pole, (480/240V Split Phase) (Fig 1)				
	21 = 220Y/127V Wye - 3Φ 4W Grnd (Fig 2)				
41 = 520Y/300V Wye- 3Φ 4W+Grnd (Fig 2)					
42 = 415Y/240V Wye-3Φ 4W+Grnd (Fig 2)					
43 = 400Y/230V Wye - 3Φ 4W+Grnd (Fig 2)					
44 = 440Y/250V Wye - 3Φ 4W+Grnd (Fig 2)					
51 = 480V B Corner Grnd Delta, 3Φ 3W+Grnd (Fig 6)					
61 = 240V B Corner Grnd Delta, 3Φ 3W+Grnd (Fig 6)					
91 = 600V B Corner Grnd Delta, 3Φ 3W+Grnd (Fig 6)					
<b>Example</b>	<b>STXP05S1004XE</b>				
STXP	05	S	100	4X	E

## Wiring Diagrams



## Performance Data

Common North American Systems	UL 1449 Voltage Protection Ratings (VPR)				In	SCCR	MCOV
	L-N	L-G	N-G	L-L			
01 = 240/120V Split Phase	600	700	500	1000	20kA	100kA	150
02 = 208Y/120V 3Ø Wye	600	700	500	1000	20kA	200kA	150
03 = 240Y/120V B High Leg Delta	600/1200	700/1200	500	1000	20kA	200kA	150 / 320
04 = 480Y/277V 3Ø Wye	1200	1200	1000	1800	20kA	200kA	320
05 = 480V 3Ø Delta	-	1800	-	1800	10kA	200kA	552
08 = 600Y/347V 3Ø Wye	1500	1500	1500	2500	10kA	200kA	420

## Available Accessories (order separately)

FMKITC = Flush mount kit.

RM = Remote monitor