

Surge-Trap[®] Type 1 XT Series SPD

The Surge-Trap[®] Type 1 XT Series offers Advanced Technology. It utilizes large block 50kA Thermally Protected MOV's. With line or load side installation flexibility, this unit is a great fit from the service entrance all the way down to each distribution and/or branch panel.

Features/Highlights:

- UL 1449 Fourth Edition Listed
- Type 1 SPD – All UL required OCP & safety coordination included inside
- Can be installed line-side or load-side of main disconnect
- 20kA Nominal discharge current
- 200kA SCCR (most models)
- UL 96A Lightning Protection Master Label compliant (20kA, In)
- NEMA 4X polycarbonate enclosure – UL 746C(f1) & UL 94-5VA
- TPMOV[®] Technology Inside
- All MOV suppression elements monitored
- Filtering - AC sinewave tracking filter with EMI/RFI filtering up to -50dB from 10khz to 100mhz
- Phase-loss monitoring (toggles LED and dry contacts)
- Ten-year Warranty

Applications:

- Service Entrance
- AC Distribution
- Power supplies
- Drive Protection
- Large Control Panels
- Telecommunications
- IT / Data centers

Mounting:

- Direct Mounting Feet

General Product Specifications

Maximum Discharge Current	100kA or 200kA
Visual End of Life Indicator	GREEN = OK, RED = 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	#8-10 AWG field wired
Dimensions	6" x 6" x 4" (152mm x 152mm x 102mm)
Weight	5 lbs (2.3 kg)



Ratings:

Max Discharge Current

- : 100kA per phase
- : 200kA 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

- : #8-10 AWG field wired

Enclosure

- : NEMA 4X Polycarbonate

Approvals:

- UL 1449 Fourth Edition Listed, File E210793
- UL 1283
- RoHS Compliant
- IEC 61643, CE
- Burn-In tested prior to shipment
- UL 96A Lightning Protection Master Label (@20kA I_n, most models)

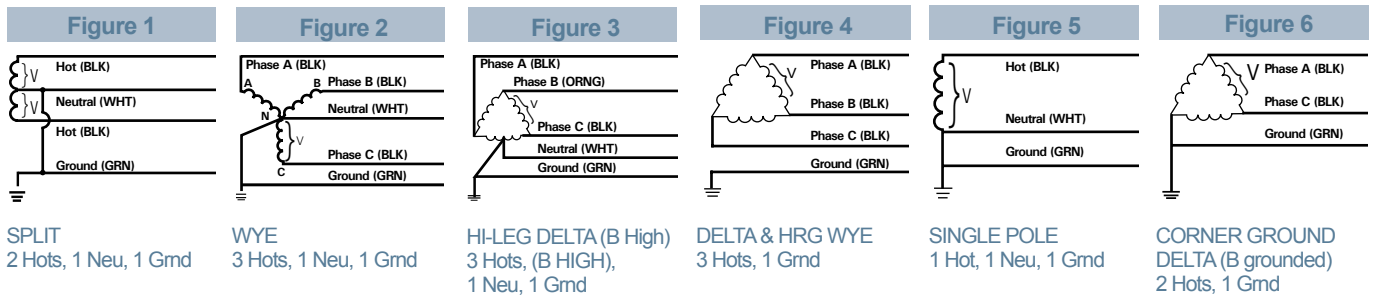


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Catalog Numbers - Ordering System

STXT	System Voltage	S	Surge Rating	Enclosure	Options					
STXT	Common System Configurations 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)	S	100 200	4X	Blank A = Audible Alarms & Dry Contacts E = Remote Indicator (6ft cable) L = Deletes L-N protection G = Deletes L-G protection N = Deletes N-G protection R = Alternate lead length					
	Other System Configurations Available 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)									
	Example STXP					04	S	200	4X	A

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	700	700	600	1000	20kA	100kA	150
02	=	208Y/120V 3Ø Wye	700	700	600	1000	20kA	200kA	150
03	=	240Y/120V B High Leg Delta	700/1200	700/1200	600	1000/2000	20kA	200kA	150 / 320
04	=	480Y/277V 3Ø Wye	1200	1200	1200	2000	20kA	200kA	320
05	=	480V 3Ø Delta	-	1800	-	2000	10kA	200kA	550
08	=	600Y/347V 3Ø Wye	1500	1500	1500	2500	10kA	200kA	420

Available Accessories (order separately)

FMKITC = Flush mount kit
RM = Remote monitor

For the most current product performance data visit ep.mersen.com and use catalog search.