

Surge-Trap® STXP Series

Surge Protective Device

SURGE PROTECTION

PANEL MOUNT SPD FOR UL 1449 TYPE 1 AND 2 APPLICATIONS



The Surge-Trap Type 1 STXP Series offers a balance of redundant surge protection in a compact form factor with flexible installation options. Catalog numbers in this series can be panel mounted or side mounted, and have a separate optional flush mount cover. Additionally, the STXP series has options for remote indication and comes standard with LED indication on each phase. The STXP series incorporates TPMOV® technology for maximum safety and does not require additional overcurrent protection. Suitable for installation on both the line and load side of a panel, the STXP is ideal for everything from service entrances to machine-specific control panels.

Technical Data Overview	
Surge Current Rating (I_{\max})	100kA – Per Phase
System Voltage	120VAC - 600VAC
Nominal discharge current (I_n - 8x20 μ s)	20kA
Short Circuit Current Rating (SCCR)	200kA
Nominal power frequency	50 Hz or 60 Hz
Response Time	Less than 1 nanosecond (one per phase)
Mounting	Female Threaded Mounting Hub 3/4" – 14 Includes sealing locking washer. Mounting feet with 0.125" diameter holes.
Wiring	Pre-wired 36" (1m) 10AWG
Enclosure	NEMA 4X Non-metallic
Flammability	UL 94-5VA
Operating & Storage Temperature	-40°F (-40°C) to +185°F (85°C)
Relative Humidity Range	0 to 95% non-condensing
Visual Status Indicator	LED per Phase Green = Functional / OUT = Replace

FEATURES/BENEFITS

- Designed with industry leading Mersen TPMOV technology
- Fits 3/4" knockouts with 36" cable leads for easy installation
- Up to 10 modes of protection
- 10-year manufacturer's warranty

APPLICATIONS

- Service entrance at low to medium risk exposure level
- Commercial and Industrial Distribution Panels
- Control Panels

APPROVALS/STANDARDS

- ANSI/UL 1449 5th 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



CATALOG NUMBERS AND ELECTRICAL CHARACTERISTICS

Catalog Number (Includes suffixes*)	System Voltage and Configuration	I _o	Maximum Continuous Operating Voltage (MCOV)				Voltage Protection Rating (VPR)			
			L-N	L-G	L-L	N-G*	L-N	L-G	L-L	N-G**
STXP120P10	120V Single Phase	20kA	150	150	-	150	700	700	-	600
STXP240P10	240V Single Phase	20kA	320	320	-	150	1200	1200	-	700
STXP240S10	240/120V Split Phase	20kA	150	150	300	150	700	700	1000	600
STXP480S10	480/240V Split Phase	20kA	320	320	640	150	1200	1200	2000	600
STXP208Y10	208/120V 3-Phase WYE	20kA	150	150	300	150	700	700	1000	600
STXP380Y10	380/220V 3-Phase WYE	20kA	320	320	640	150	1200	1200	2000	600
STXP480Y10	480/277V 3-Phase WYE	20kA	320	320	640	150	1200	1200	2000	600
STXP600Y10	600/347V 3-Phase WYE	20kA	420	420	840	275	1200	1500	2000	1000
STXP240D10	240V 3-Phase DELTA	20kA	-	320	640	-	-	1200	2000	-
STXP480D10	480V 3-Phase DELTA & HRG WYE	20kA	-	550	1100	-	-	1800	3000	-
STXP600D05 (50kA)	600V 3-Phase DELTA	20kA	-	690	840	-	-	2000	2500	-
STXP480B10	480V B Corner Ground DELTA	20kA	-	690	840	-	-	2000	2500	-
High-Leg Delta Configuration			L-N / HL-N	L-G / HL-G	L-L / HL-L	N-G	L-N / HL-N	L-G / HL-G	L-L / HL-L	N-G
STXP240H10	240/120V High-Leg DELTA	20kA	150/320	150/320	300/470	150	600/1200	700/1200	1000/1000	500
STXP480H05 (50kA)	480/240V High-Leg DELTA	20kA	320/550	320/550	640/870	320	1200/1800	1200/1800	1800/2500	1000

*Suffix "N" at the end of the part number for N-G protection. N-G protection is suggested downstream of N-G bonding when the unit is installed > 10' (3m) from service entrance or transformer. Without "N" option for installation of SPD at or near service entrance or transformer < 10' (3m) [N-G Bonded does not require N-G protection].

OPTIONAL FEATURES

**Form C Dry Contact and Audible Alarm

Adding the suffix "A" at the end of the part number, will include Form C Dry Contacts and Audible Alarm.

- Audible Alarm: Alarm sounds when any protection is lost
- Dry Contact Specification:
 - 125VAC, 1A Resistive
 - 30VDC, 2A General Purpose
 - Prewired 36" - 18AWG cable



Flush-Mount Plate

Part Number STXPFMK: STXP Flush Mount Kit. Includes (1) mounting plate and (3) mounting screws for connecting plate to the STXP housing. Screws for mounting plate to the wall are not supplied. Plate outer dimensions are 4.5" x 8.5".

DIMENSIONS

3/4" - 14 Fitting and Locknut not supplied

