

# STXR Series Surge Protective Devices



The most popular range in the STX series offering, the Surge-Trap® Type 1 STXR meets requirements for UL1449 Fourth Edition and is ideal for the replacement of obsolete surge arrestors. The STXR Series SPD feature TPMOV® technology inside making them some of the safest products available. With a small, compact design and line or load installation flexibility the STXR series is the perfect fit for branch panel and/or individual equipment protection. Protect your sensitive equipment from costly downtime or damage with these high performance surge protective devices.



## Features

- Designed with the industry leading Mersen TPMOV® Technology
- LED status indicator (ON = Good, OFF = Replace)
- NEMA 4X enclosure for outdoor or indoor use
- Fits 3/4" knockouts with 3' leads for easy installation
- Optional mounting bracket for surface mount applications
- For use in ANSI/UL Type 1 or 2 SPD installations
- Up to 7 modes of Protection (L-N, L-L, L-G optional, N-G optional)
- 5-year warranty

## Applications

- AC Distribution
- Power supplies
- Drive protection
- Fire alarms
- Control panels
- Telecommunications
- Residential
- IT / Data centers

## Approvals

- ANSI/UL 1449 4th Edition, Type 1 SPD, File E210793
- CSA C22.2, Type 1 SPD, File 162842
- ANSI/IEEE C62.41.1, C62.41.2, C62.45
- UL96A Lightning Protection



## Ratings

- Volts ( $U_n$ ): 120-600VAC
- Nominal Discharge Current Rating ( $I_n$ ): 10 - 20 kA
- Surge Capacity: 50kA
- Short-Circuit Current Rating (SCCR): 200kA

**Mersen STXR Series Type 1 Surge Protective Devices**

Part Number	Price	Description	Weight lb [oz]	$I_n$	Max Continuous Operating Voltage (MCOV)				Voltage Protection Rating (VPR)			
					L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
<a href="#"><u>STXR120P05</u></a>	\$151.00	120V single phase	1.45 [23.2]	20kA	150	—	—	—	700	—	—	—
<a href="#"><u>STXR240S05</u></a>	\$188.00	240/120V split phase			150	—	300	—	700	—	1200	—
<a href="#"><u>STXR208Y05N</u></a>	\$206.00	208/120V 3-Phase WYE			150	300	300	150	700	1200	1200	600
<a href="#"><u>STXR480Y05N</u></a>	\$230.00	480/277V 3-Phase WYE			320	470	640	150	1200	1800	2000	700
<a href="#"><u>STXR600Y05N</u></a>	\$288.00	600/347V 3-Phase WYE			420	690	840	270	1500	2500	2500	1000
<a href="#"><u>STXR240D05</u></a>	\$209.00	240V 3-Phase DELTA			—	320	640	—	—	1200	2000	—
<a href="#"><u>STXR480D05</u></a>	\$209.00	480V 3-Phase DELTA		10kA	—	550	1100	—	—	1800	3000	—
<a href="#"><u>STXRMbk</u></a>	\$23.50	STXR Mounting bracket kit. Includes (1) 90 degree bracket and (2) 10-32 hex/slotted thread-forming mounting screws. Weight 0.05 lb [0.8 oz].										



**STXRMbk**

# STXR Series Surge Protective Devices

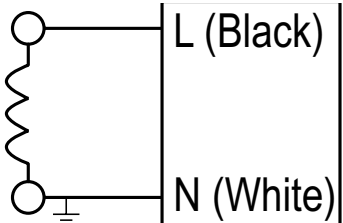
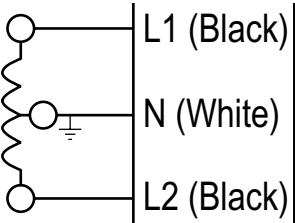
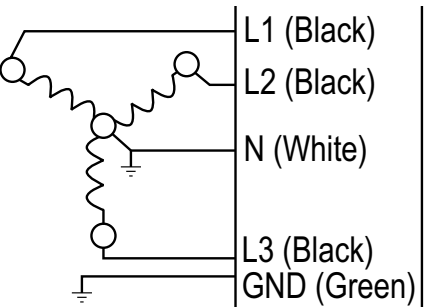
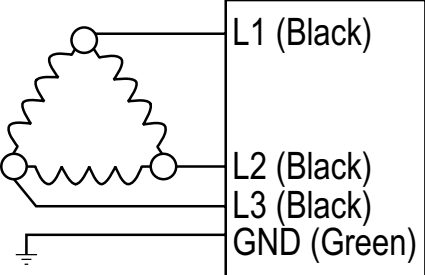
## Technical Specifications

Mersen STXR Series Type 1 Surge Protective Devices General Specifications	
Short circuit current rating (SCCR)	200kA
Nominal discharge current rating ( $I_n$ )	10 - 20 kA
Surge capacity per phase ( $I_{max}$ )	50kA
Frequency	50/60 Hz
Connection method	Parallel, 3' (1m) 10AWG stranded copper
Circuit placement	Lineside or loadside of service overcurrent protective device
Mounting	3/4" - 14 threaded hub (includes locking washer)
Operating temperature	-40°C to +85°C [-40°F to +185°F]
Storage temperature	-40°C to +85°C [-40°F to +185°F]
Enclosure rating	NEMA 4X non-metallic*
Flammability rating	UL 94-5VA
Operating humidity	0 to 95% non-condensing
Maximum operating altitude	16,000 ft
Visual end-of-life indicator	GREEN = OK; OUT = replace
Enclosure material	Polycarbonate
Enclosure cover material	Lexan polycarbonate
Certification and SPD type	UL 1449 and CSA C22.2 Listed Type 1

\*For NEMA 4x installation use appropriate customer supplied gasket, fittings and/or conduit to maintain rating.

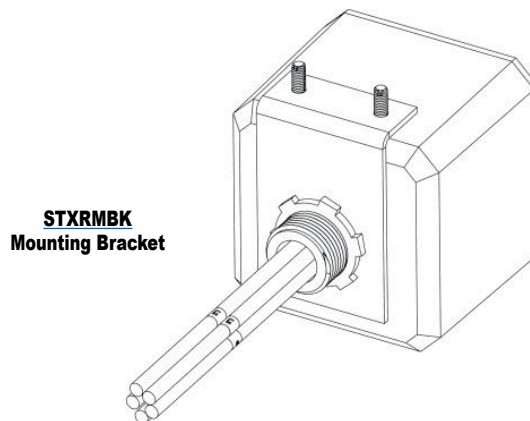
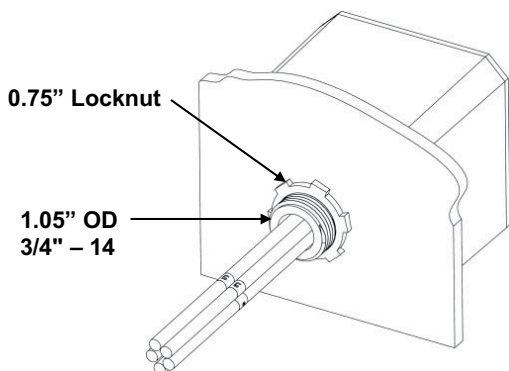
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

## Wiring

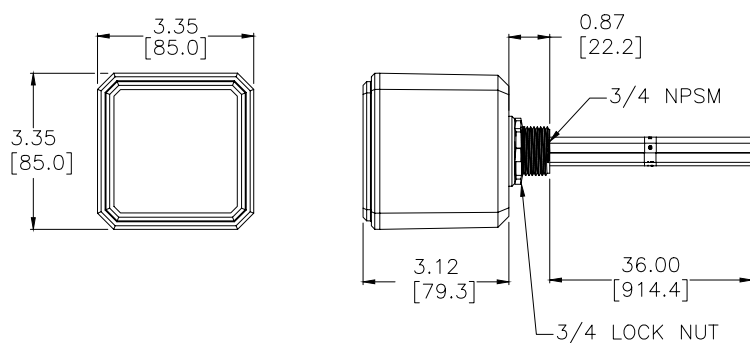
STXR120P05	STXR240S05
<b>Single Phase, 2-Wire</b> 	<b>Split Phase, 3-Wire</b> 
STXR208Y05N, STXR480Y05N, STXR600Y05N	STXR240D05, STXR480D05
<b>3-Phase WYE, 4-Wire + Ground</b> 	<b>3-Phase DELTA, 3-Wire + Ground</b> 

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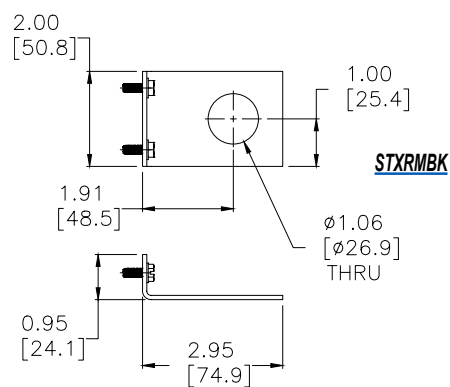
## Mounting



## Dimensions (in [mm])



STXR Series Type 1 Surge Protective Devices



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings