

# 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<br>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="#">STXR120P05</a>  | \$151.00 | 120V single phase                                                                                                                            | 1.45<br>[23.2]    | 20kA  | 150                                     | —   | —    | —   | 700                             | —    | —    | —    |
| <a href="#">STXR240S05</a>  | \$188.00 | 240/120V split phase                                                                                                                         |                   |       | 150                                     | —   | 300  | —   | 700                             | —    | 1200 | —    |
| <a href="#">STXR208Y05N</a> | \$206.00 | 208/120V 3-Phase WYE                                                                                                                         |                   |       | 150                                     | 300 | 300  | 150 | 700                             | 1200 | 1200 | 600  |
| <a href="#">STXR480Y05N</a> | \$230.00 | 480/277V 3-Phase WYE                                                                                                                         |                   |       | 320                                     | 470 | 640  | 150 | 1200                            | 1800 | 2000 | 700  |
| <a href="#">STXR600Y05N</a> | \$288.00 | 600/347V 3-Phase WYE                                                                                                                         |                   |       | 420                                     | 690 | 840  | 270 | 1500                            | 2500 | 2500 | 1000 |
| <a href="#">STXR240D05</a>  | \$209.00 | 240V 3-Phase DELTA                                                                                                                           |                   |       | —                                       | 320 | 640  | —   | —                               | 1200 | 2000 | —    |
| <a href="#">STXR480D05</a>  | \$209.00 | 480V 3-Phase DELTA                                                                                                                           |                   | 10kA  | —                                       | 550 | 1100 | —   | —                               | 1800 | 3000 | —    |
| <a href="#">STXRM BK</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]. |                   |       |                                         |     |      |     |                                 |      |      |      |



**STXRM BK**

# STXR Series Surge Protective Devices

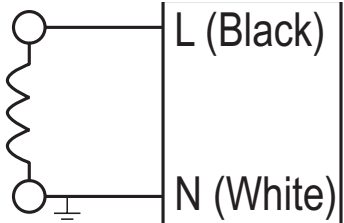
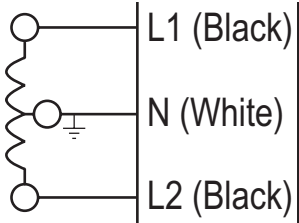
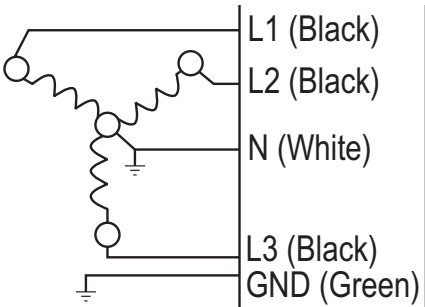
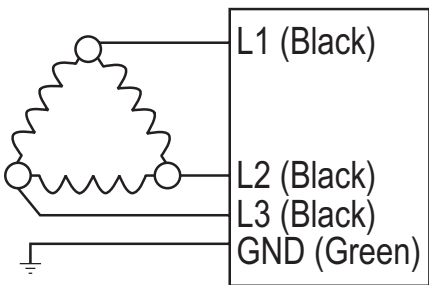
## Technical Specifications

| 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.

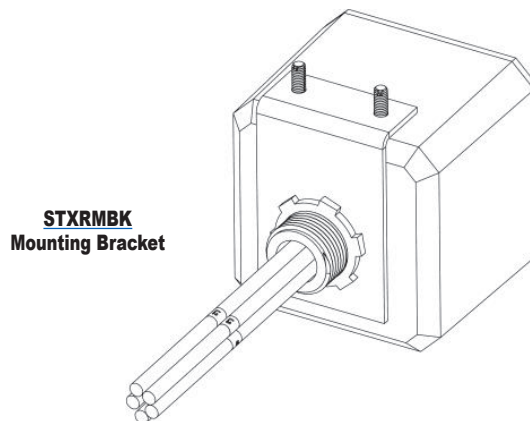
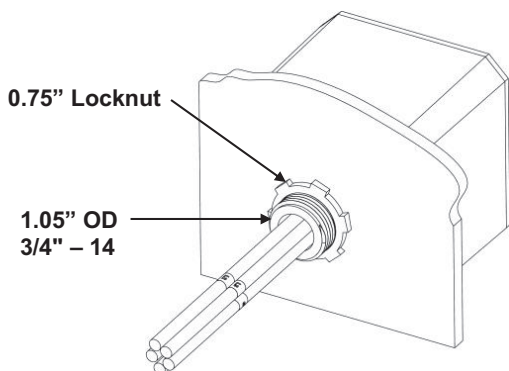
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

## Wiring

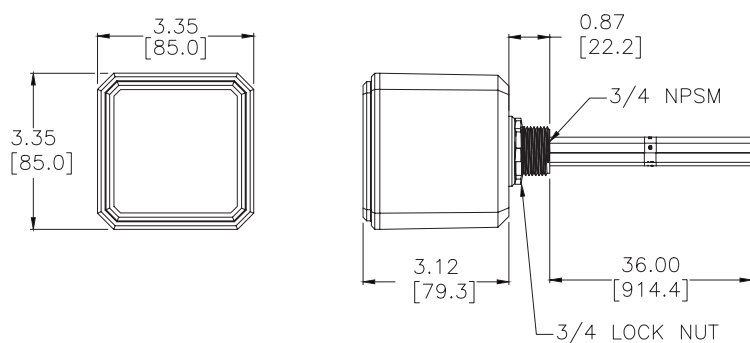
| STXR120P05                                                                                                                                                                                                   | STXR240S05                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Single Phase, 2-Wire</b></p>  <p>L (Black)<br/>N (White)</p>                                                        | <p><b>Split Phase, 3-Wire</b></p>  <p>L1 (Black)<br/>N (White)<br/>L2 (Black)</p>                             |
| STXR208Y05N, STXR480Y05N, STXR600Y05N                                                                                                                                                                        | STXR240D05, STXR480D05                                                                                                                                                                            |
| <p><b>3-Phase WYE, 4-Wire + Ground</b></p>  <p>L1 (Black)<br/>L2 (Black)<br/>N (White)<br/>L3 (Black)<br/>GND (Green)</p> | <p><b>3-Phase DELTA, 3-Wire + Ground</b></p>  <p>L1 (Black)<br/>L2 (Black)<br/>L3 (Black)<br/>GND (Green)</p> |

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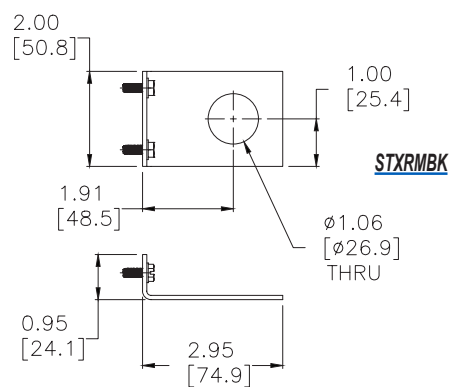
## Mounting



## Dimensions (in [mm])



STXR Series Type 1 Surge Protective Devices



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