



HWA Series

HWA Surge Protective Devices

SurgeLogic™ HWA surge protective devices are compact, nipple-mounted parallel-connected surge suppressors that come in a variety of voltage configurations, including Delta. A surge suppression path is provided for each mode, and the product is rated NEMA Type 4X. Internal diagnostics continuously monitor the device status.

US and Canadian UL® Listed as a Type 2 SPD to UL 1449 and UL 1283 standards. Complies with requirements of NEC® Article 285 and CSA C22.2 No. 8-M1986 as appropriate. Complies with UL 96A 12th Edition Master Label requirements for Lightning Protection Systems.

- LEDs indicate operational status
- Short circuit current rating 200 kA
- Suitable for indoor and outdoor applications (NEMA Type 4X rated)
- Convenient side-nipple mounting
- Compact design provides easy mounting inside or outside the equipment cabinets
- -54 dB EMI/RFI filtering
- Sine wave tracking
- Audible alarm indicates loss of suppression (does not contain alarm enable/disable switch)
- Dry contacts
- Optional flush-mount kit TVSHWAFMK

Table 6.7: HWA Surge Protective Devices

| Service Voltage | Peak Surge Current Rating per Phase (kA) | NEMA 4X Cat. No. |
|--|--|------------------|
| 120/240 V, 1-phase, 3-wire + ground [1] | 50 | TVS1HWA50X |
| | 80 | TVS1HWA80X |
| | 100 | TVS1HWA10X |
| 208Y/120 V, 3-phase, 4-wire + ground [2] [3] [1] | 50 | TVS2HWA50X |
| | 80 | TVS2HWA80X |
| | 100 | TVS2HWA10X |
| 240/120 V, 3-phase, 4-wire + ground [1] High-leg Delta | 50 | TVS3HWA50X |
| | 80 | TVS3HWA80X |
| | 100 | TVS3HWA10X |
| 240 V, 3-phase, 3-wire + ground Delta | 50 | TVS6HWA50X |
| | 80 | TVS6HWA80X |
| | 100 | TVS6HWA10X |
| 480Y/277 V, 3-phase, 4-wire + ground [2] [4] [1] | 50 | TVS4HWA50X |
| | 80 | TVS4HWA80X |
| | 100 | TVS4HWA10X |
| 480 V, 3-phase, 3-wire + ground Delta | 50 | TVS5HWA50X |
| | 80 | TVS5HWA80X |
| | 100 | TVS5HWA10X |
| 600Y/347 V, 3-phase, 4-wire + ground [1] | 50 | TVS8HWA50X |
| | 80 | TVS8HWA80X |
| | 100 | TVS8HWA10X |
| 600 V, 3-phase, 3-wire + ground Delta | 50 | TVS9HWA50X |
| | 80 | TVS9HWA80X |
| | 100 | TVS9HWA10X |

XR Surge Protective Devices

The XR SPD provides high-quality surge suppression in a compact and versatile package. This product is ideal for panel builders as well as manufacturers and integrators of instrumentation cabinets for industrial, commercial, and residential applications for single-phase power systems.

US and Canadian UL® Listed as Type 1 SPD to the UL 1449 standard. Complies with requirements of NEC® Article 285, CSA 233.1-87, and CSA C22.2 No. 8-M1986 as appropriate.



XR Series

- LEDs indicate operational status
- Short circuit current rating 25 kA
- Convenient side nipple mounting
- Suitable for indoor and outdoor applications (NEMA Type 4X rated)
- Optional flush mount kit TVSXRFMK

Table 6.8: XR Nipple-Mounted Surge Protective Devices

| System Voltage | Peak Surge Current Rating per Phase (kA) | Cat. No. |
|-------------------------------------|--|-------------|
| 120/240 V, 1-phase, 3-wire + ground | 50 | TVS120XR50S |
| | 80 | TVS120XR80S |

[1] Do not use on ungrounded systems. Systems must be solidly grounded.
 [2] Can be used on 4-wire or 3-wire grounded wye systems with or without neutral.
 [3] 208Y/120 series also applies to the following voltage 220Y/127.
 [4] 480Y/277 series applies to the following voltages 380Y/220, 400Y/230, and 415Y/240.