

# Surge Protective Devices

Transient Voltage Surge Suppressor (TVSS)

Class 1310



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5 SURGE PROTECTIVE DEVICES



## Modular and Non-Modular Devices

Suitable for use in service entrance locations: Meets requirements of ANSI/IEEE C62.41 and C62.45, UL 1449 Second Edition, and UL Category Section 37.3 (25 kA test).

- Extended 10 year product warranty
- Standard product protection modes L-N, L-G, L-L, and N-G
- Audible alarm with enable/disable switch and dry contacts
- Standard internal 200 kAIR surge rated fusing, 200k short circuit current rating
- EMA/EBA indicator LEDs; normal (green) and fault condition (red) for each phase
- HWA indicator LEDs; normal (ON); and fault condition (OFF) for each phase

Service Voltage	Peak Surge Current Rating per Phase (kA)	NEMA 1/3R/12 (Outdoor)	Price	NEMA 4X Stainless Steel	Price
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### EMA Series Modular Device (one replaceable module per phase)

Supplied with audible alarm, alarm enable/disable switch and dry contacts

120/240 1Ø3W +G	120	TVS1EMA12A( )	\$ 3031.	TVS1EMA12S( )	\$3976.
	160	TVS1EMA16A( )	3331.	TVS1EMA16S( )	4276.
	240	TVS1EMA24A( )	4947.	TVS1EMA24S( )	5892.
	320	TVS1EMA32A( )	6641.	...	...
	480	TVS1EMA48A( )	9865.	...	...
120/208 3Ø4W Wye +G ▲	120	TVS2EMA12A( )	3173.	TVS2EMA12S( )	4118.
	160	TVS2EMA16A( )	3487.	TVS2EMA16S( )	4432.
	240	TVS2EMA24A( )	5188.	TVS2EMA24S( )	6133.
	320	TVS2EMA32A( )	6954.	...	...
	480	TVS2EMA48A( )	10348.	...	...
120/240 3Ø4W High Leg Delta +G	120	TVS3EMA12A( )	3173.	TVS3EMA12S( )	4118.
	160	TVS3EMA16A( )	3487.	TVS3EMA16S( )	4432.
	240	TVS3EMA24A( )	5188.	TVS3EMA24S( )	6133.
	320	TVS3EMA32A( )	6954.	...	...
	480	TVS3EMA48A( )	10348.	...	...
277/480 3Ø4W Wye +G ▲	120	TVS4EMA12A( )	3315.	TVS4EMA12S( )	4260.
	160	TVS4EMA16A( )	3645.	TVS4EMA16S( )	4590.
	240	TVS4EMA24A( )	5431.	TVS4EMA24S( )	6376.
	320	TVS4EMA32A( )	7269.	...	...
	480	TVS4EMA48A( )	10833.	...	...
347/600 3Ø4W Wye +G ▲	120	TVS8EMA12A( )	3480.	TVS8EMA12S( )	4425.
	160	TVS8EMA16A( )	3809.	TVS8EMA16S( )	4754.
	240	TVS8EMA24A( )	5665.	TVS8EMA24S( )	6630.
	320	TVS8EMA32A( )	7599.	...	...
	480	TVS8EMA48A( )	11341.	...	...

### EBA Series Non-Modular Device

Supplied with audible alarm, alarm enable/disable switch and dry contacts

120/240 1Ø3W +G	120	TVS1EBA12A( )	2311.	TVS1EBA12S( )	3256.
	160	TVS1EBA16A( )	2805.	TVS1EBA16S( )	3750.
	240	TVS1EBA24A( )	4193.	TVS1EBA24S( )	5138.
120/208 3Ø4W Wye +G ▲	120	TVS2EBA12A( )	2392.	TVS2EBA12S( )	3337.
	160	TVS2EBA16A( )	2925.	TVS2EBA16S( )	3870.
	240	TVS2EBA24A( )	4350.	TVS2EBA24S( )	5295.
120/240 3Ø4W High Leg Delta +G	120	TVS3EBA12A( )	2392.	TVS3EBA12S( )	3337.
	160	TVS3EBA16A( )	2925.	TVS3EBA16S( )	3870.
	240	TVS3EBA24A( )	4350.	TVS3EBA24S( )	5295.
277/480 3Ø4W Wye +G ▲	120	TVS4EBA12A( )	2495.	TVS4EBA12S( )	3440.
	160	TVS4EBA16A( )	3054.	TVS4EBA16S( )	3999.
	240	TVS4EBA24A( )	4551.	TVS4EBA24S( )	5496.
347/600 3Ø4W Wye +G ▲	120	TVS8EBA12A( )	2603.	TVS8EBA12S( )	3548.
	160	TVS8EBA16A( )	3191.	TVS8EBA16S( )	4136.
	240	TVS8EBA24A( )	4762.	TVS8EBA24S( )	5707.

( ) For options, select and add the appropriate suffix(es) from the listing below:

Description	Price
(I) Integral Disconnect	\$492.
(C) Surge Counter	376.

### HWA Series Non-Modular, Nipple Mounted Device

Supplied with audible alarm and dry contacts, but do not contain an alarm enable/disable switch

Service Voltage	Peak Surge Current Rating per Phase (kA)	NEMA 3R (Outdoor), 4X, 12	Price
120/240 1Ø3W +G	50	TVS1HWA50X	\$1590.
	80	TVS1HWA80X	1773.
	120	TVS1HWA12X	2267.
120/208 3Ø4W Wye +G ▲	50	TVS2HWA50X	1696.
	80	TVS2HWA80X	1873.
	120	TVS2HWA12X	2407.
120/240 3Ø4W High Leg Delta +G	50	TVS3HWA50X	1696.
	80	TVS3HWA80X	1873.
	120	TVS3HWA12X	2407.
277/480 3Ø4W Wye +G ▲	50	TVS4HWA50X	1760.
	80	TVS4HWA80X	1938.
	120	TVS4HWA12X	2498.
347/600 3Ø4W Wye +G ▲	50	TVS8HWA50X	1943.
	80	TVS8HWA80X	2121.
	120	TVS8HWA12X	2681.

▲ Can be used on 4 wire or 3 wire grounded neutral system.

## Option Description

### Integral Disconnect

The integral disconnect provides a mechanical means to electrically isolate the entire surge suppressor before opening the enclosure door to facilitate servicing of the unit's components.

### Surge Counter

The surge counter option displays the combined total number of transient voltage events detected from line to ground, line to line, line to neutral and neutral to ground since the counter was last reset.

### Remote Monitor

This option will display the alarm status of the surge protective device up to 1000 feet from the unit.

### Flush Mounting

Flush mounting collar can be used on 120–240 kA EMA and EBA series devices. Devices with integral disconnect require 20" flush mounting collar.

Description	Catalog No.	Price
Remote Monitor	TVS12RMU	\$525.
12" Flush Mounting Collar	TVS12FMK	630.
20" Flush Mounting Collar	TVS20FMK	735.

DE1B

Discount  
Schedule