

Electrical power has always been “dirty” with surges, spikes, and other transients. In the past, it was not a major problem. However, with more and more sensitive electronic devices, clean power has now become critical.

Nowadays, every business operation relies heavily on electronic controls to run its computer rooms, data centers, phone systems, and manufacturing equipment. Any electrical disturbance can have a devastating effect: tripping breakers, freezing PLC’s, destroying mission critical UPS’s, servers and computers. All of which can lead to expensive downtime and even complete business failure.

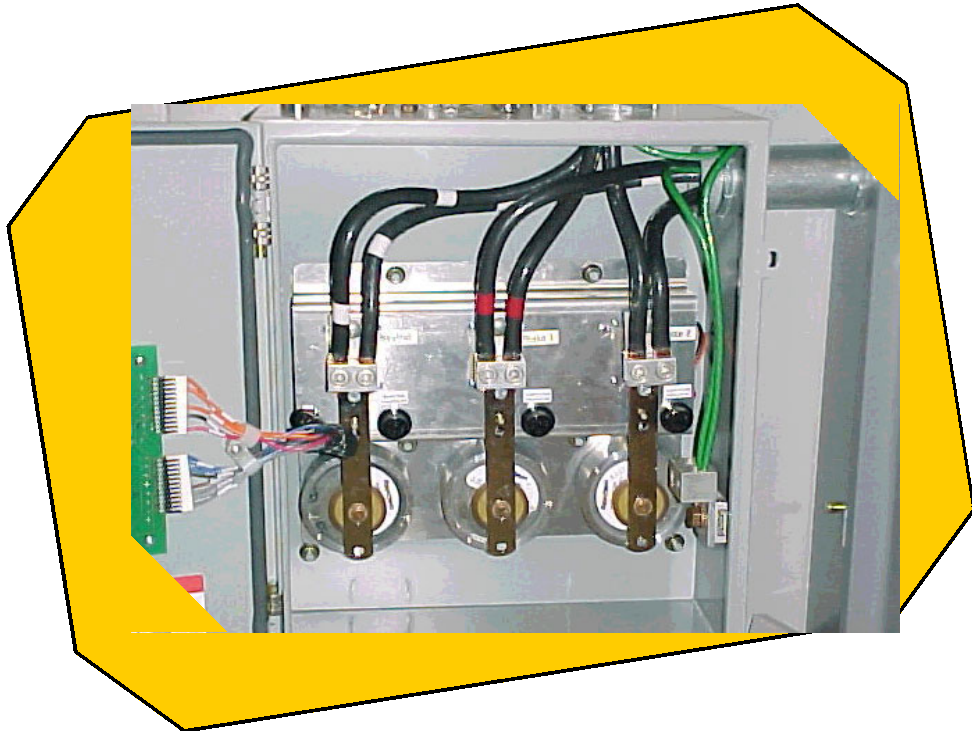
The Surgetronics® TVSS’s offer the ultimate protection against lightning strikes, power line surges, and other transients. They are the only effective way to intercept the transients before they affect your operation.

Due to their robust and unique design, the Surgetronics® products can absorb and dissipate repeated current impulse surges of very high energy without failing. Their “fuseless” and “in-line” installation guarantees exceptional performance and continuous protection: the Surgetronics® TVSS’s *never leave your equipment unprotected.*

All our claims are supported by extensive testing performed in our high current laboratory and confirmed by independent testing.

All our products are UL 1449, second edition listed. They cover all applications from service entrance to branch panel protection of all system voltages up to 600V.

Keyitec offers a 5-year warranty for all its MOV modules (Everprotect® modules). Talk to your Keyitec representative for additional details.



PRODUCT FEATURES:

- “Fuseless” technology guarantees continuous protection. Fuse-protected devices can become disconnected after the first surge and let the second surge go right through your equipment with no protection.
- With its “in-line” installation, the Surgetronics TVSS offers the lowest let-through voltage and assures the maximum protection for your equipment. Any other devices with “parallel” installations will result in a higher let-through voltage and a far less effective protection.
- Testing performed by independent laboratories guarantees the Surgetronics® performance. All our claims can be verified. *Independent testing* assures our customers that in choosing Surgetronics®, they can be confident that they have selected the best.

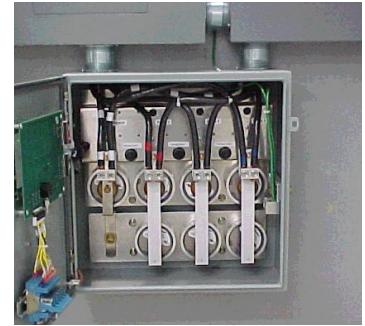
OPTIONS:

- Protection status indication: The unit features LED lights and audible alarm to indicate protection status. Dry contacts for remote status monitoring are provided.
- Surge counter that detects positive and negative surge events. It responds to current flowing through the Everprotect® modules.



Surgetronics®

Transient Voltage Surge Suppressor



Typical Model No. :

Surgetronics 277 - 3Y - A 1 - 7 - 03 - D

Line to Neutral Voltage
120V, 240V, 277V, 347V

Line to Line on Delta Systems

Circuit Type (1P) 1 Single Phase
(2S) 2 Phase (Split), (3Y) 3 Phase WYE
(3D) 3 Phase Delta, (3H) High leg Delta

Housing A (Large Housing: 20"x20"x8")
N (Normal Housing: 20"x16"x8")
M (Medium Housing: 12"x 10" x 8")
S (Small Housing: 8"x 6"x 6")

Class 1 Max. Operating Surge Current, 200kA
per mode, 4" Everprotect MOV module

Class 3 Max. Operating Surge Current, 100kA
per mode, 3" Everprotect MOV module

Everprotect Voltage A= 120, B= 240
C= 277, D= 380

Options 00 = No options
03 = Surge Counter, LED's,
Remote Relays
06 = LED's, Remote Relays

**Number of Everprotect MOV
modules : 2, 3, 4, 7**

Performance and Technical Data:

- **200kA per mode rated units** are capable of surviving the ANSI/IEEE C62.41-1991, 200kA, 8/20µs surge based upon pre- and post-test surge performance. Independent results show less than 2% aging between the pre- and post-strike 6kV/3kA combination wave transient in accordance with NEMA LS1 (compliance requires less than 10%).
- **100kA per mode rated units** are capable of surviving the ANSI/IEEE C62.41-1991, 100kA, 8/20µs surge based upon pre- and post-test surge performance. Independent results show less than 2% aging between the pre- and post-strike 6kV/3kA combination wave transient in accordance with NEMA LS1 (compliance requires less than 10%).
- All units are **UL1449, second edition** listed. All Everprotect® MOV modules are UL Recognized.
- Maximum Continuous Operating Voltage (**MCOV**) **not less than 125%** of nominal voltage.

System	Configuration	Basic Protection Modes	Secondary Protection Modes	Everprotect #
1φ	2W + G	L-G & N-G	L-N	2
1φ	2W + G	L-G, N-G & L-N	-	3
1φ - split	3W + G	L-G, N-G	L-L, L-N	3
3φ - Delta	3W + G	L-G	L-L	3
3φ - Wye	4W + G	L-G, N-G	L-L, L-N	4
3φ - Wye	4W + G	L-G, L-N, N-G	L-L	7

Housing: NEMA type 4		
Everprotect #	Everprotect rating	Surgetronics Enclosure size
4 or 7	200kA	20"x20"x8"
4 or 7	100kA	20"x16"x8"
3	100kA or 200kA	20"x16"x8"
3	100kA or 200kA	12"x10"x8"
2 or 3	100kA	8"x6"x6"

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