

The WS-SERIES has been specifically designed for medium voltage motor and pump applications with simplicity and safety in mind. It's outer shell is a fiberglass Nema rated 3, 3R, 4, 4X, 6, 6P, 12 and 13. The enclosure is then treated and painted with a white epoxy polymer, which reduces operating temperature, and prevents chafing of the fiberglass. This ensures a long performance of the unit. The outside enclosure is silk screened with all pertinent information and warning labels. Zinc hubs are used for connections, which are side-mounted to ensure a long, weather-tight seal. A window is provided to visually monitor "at a glance" whether the unit is operational or not. Mounting feet and a hinged cover with tamper-proof closures are also a standard.

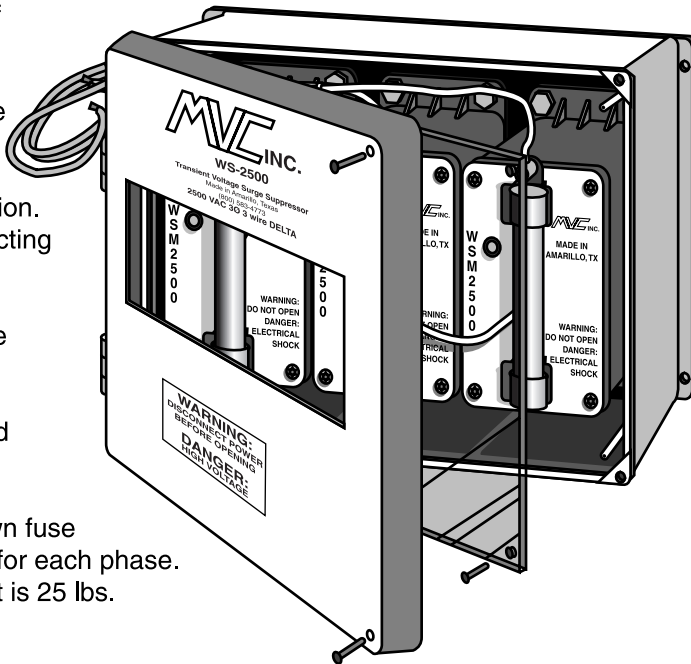
Inside the unit you will also see safety work. A plexiglass safety shield "dead front" is mounted on brass standoffs that have been insulated to ensure safety. Plexiglass is used to allow visual monitoring for safety. The safety shield is hinged at one side to allow easy access to qualified personnel. Behind the safety shield lies the heart of the unit. Here we find a factory-sealed individual AC line suppressor for each phase of the system. Each phase is individually fused, and blown fuse indicators are standard. Each module is easily field-replaceable by qualified personnel, allowing ease of maintenance, both to the personnel and to the pocketbook. Each module is silk-screened with pertinent information, tested, and factory-sealed. All of this is backed up by MVC's excellence in manufacturing of suppressors.

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GENERAL CONSTRUCTION :

- Enclosure is nonconductive, corrosion resistant, and will stand temperatures of -40° to 200° F.
- Electrical components are manufactured specifically for surge suppression.
- Units are fast-acting fused per phase, thereby eliminating code requirement for adding circuit breaker or fused switches at the panel.
- Units have blown fuse indicators, one for each phase.
- Shipping weight is 25 lbs.

BENEFITS OF MVC
Engineered with Correct Fusing – **Standard**
Means of Indication – **Standard**
Not Ground Dependent – **Standard**
UR 1283 Filtering – **Standard**



GENERAL ELECTRICAL CHARACTERISTICS:

- 1) Response time/ component response time is sub-nanosecond.
- 2) Enclosure is rated NEMA 3, 3R, 4, 4X, 6, 6P, 12, and 13.
- 3) Frequency range: 50-400 Hz
- 4) EMI-RFI noise attenuation to 40 db.
- 5) Operating temperature: -40° to 85° C.
- 6) Operating humidity: 1% - 95%.
- 7) Capacitance: 2500 pF per line.
- 8) #12 AWG Strand 15KV Wire

All Units Should be Installed by a Licensed Electrician.

5 YEAR WARRANTY

Made in U.S.A.

Application & Benefits

The WS-Series TVSS's application is on medium voltage motors and pumps. The benefits are that the units protect electrical equipment from external surges due to lightning, grid switching, high wind transients, and inductive load switching. Protects motors and medium voltage controls from internal spikes and surges due to motor starts, stopping, switching, and independent generators. Extends motors, pumps, and control's life. It also reduces maintenance and replacement.

PATENTED

Made in U.S.A.

Model	Size L x W x D	Voltage Application	Maximum Continuous Line Voltage (RMS)	Nominal Clamping Voltage (Peak)	Max Peak Current (8 x 20) sum	Transient Energy (Joules)	Fuses
WS-1500	13 x 11 x 6	1500V 3W Δ	2115	3400	210,000	2.5 meg	.5 amp 2500 to 5000 KVA
WS-2500	13 x 11 x 6	2500V 3W Δ	3525	5800	350,000	2.5 meg	
WS-3600	13 x 11 x 6	3600V 3W Δ	5076	8400	630,000	2.5 meg	
WS-4160	13 x 11 x 6	4160V 3W Δ	5866	9600	630,000	2.5 meg	

WS-SERIES

