

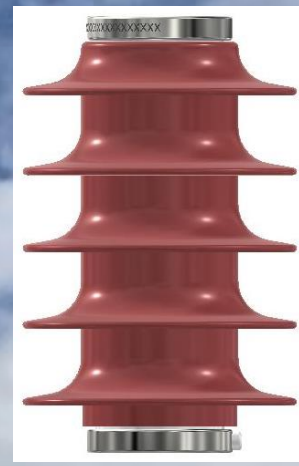
Ultra Fast Surge Arrester – EMProve®

Description

The EMProve® is a device that will shunt to ground more than 97% of a high current pulse caused by an E1 electromagnetic directed energy event possibly many miles away. These pulses can occur within a fraction of a cycle and are beyond the capability of ordinary lightning surge protectors. With the addition of a suitable Faraday type enclosure, protection could even be afforded from a high altitude nuclear electromagnetic pulse (EMP). Under normal conditions, the EMProve® acts as an open circuit drawing less than 11µA at 60 Hz.



Indoor



Outdoor

Applications

The EMProve® is ideally suited to provide protection for...

- High value assets.
- Components that have a long replacement lead time or are even obsolete.
- Processes with high consequence of loss such as industrial, utility, and critical infrastructure including offshore wind farms.
- Ancillary downstream internal tower components.

Advantages

- Energy security
- Economical
- Long life
- Low maintenance
- Complements standard lightning arresters
- Remains active after a lightning strike

Installation

- Locate within 1 meter of asset to be protected.
- Mount from each phase and neutral to ground using the two NEMA 3/8"-18 mounting holes on each end.
- Do not use as a structural member for other equipment.

Ask about our OEM program

The EMProve® may be mounted at your facility for a fractional overall cost to protect equipment such as generators, turbines, compressors, condensers, fans, switchgear and transformers. Contact ufsa@nwsignal.com for engineering support.

Specifications

	<u>UFSA06E1-x</u>	<u>UFSA10E1-x</u>	<u>UFSA15E1-x</u>	<u>UFSA18E1-x</u>	<u>UFSA48E1-2</u>	<u>UFSA72E1-2</u>
Device Class	Intermediate	Intermediate	Intermediate	Intermediate	Station	Station
Voltage Class	6 kV	10 kV	15 kV	18 Kv	48 kV	72 kV
MCOV	5.1 kV	8.4 kV	12.7 kV	15.3 kV	39 kV	57 kV
Bypass Current Rating	2500 A [1]	2500 A [1]	2500 A [1]	2500 A	5000 A	5000 A
Housing BIL Rating	110 kV [2]	110 kV [2]	110 kV [2]	110 kV	250 kV [4]	350 kV [4]
Diameter (indoor/outdoor)	3"/5.64"	3"/5.64"	3"/5.64"	3"/5.64"	5.64" (outdoor)	5.64" (outdoor)
Length	9" [3]	9"	9"	9"	24" [4]	34" [4]
Weight (indoor/outdoor)	5.5 lb / 6.8 lb	5.5 lb / 6.8 lb	5.5 lb / 6.8 lb	5.5 lb / 6.8 lb	12 lb [4]	18 lb [4]

[1] Tested in excess of 5000 A

[2] Tested to 130 kV

[3] Custom shorter lengths are available

[4] Estimated values

Your Favored Supplier offered by



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SUGGESTED MOUNTING LOCATIONS

