



Surge Protection Information

Surge Information Tool

What is a Surge Protective Device?

• A surge protector acts as a shield to deflect harmful surges to ground, away from critical equipment.

Why is Surge Protection needed?

- Prevents catastrophic damage that can cause long term downtime
- Filters out "mini-surges" that shorten equipment life

Determining if surge protection is needed:

- 1. Do you get frequent lightning storms?
- 2. Does your power flicker during thunderstorms?
- 3. Does equipment in your facility wear out prematurely?
- 4. Do you have vital equipment that could take days to repair if damaged by an electrical surge?

Common Misconceptions

- 1. We have not had damage from a surge
 - It's not if, it's when
 - Surge protection is insurance against a future threat
- 2. Our equipment is plugged into surge strips
 - Surge strips are neither designed for large events nor long term operation
- 3. It's expensive
 - How much would the repair expense of critical equipment cost?
 - How long would it take to repair and what would that downtime cost you?

Where is Surge Protection Installed?

- 1. *Service Entrance* The point of entry for utility power. A unit installed here protects the facility from a large external event, such as lightning or grid switching.
- 2. *Mid-Level Distribution* Closer to the critical piece of equipment. A unit installed here protects from internally generated surges and isolates the critical equipment from faults.
- 3. *Panel Board Distribution* Installing surge protection on this equipment will extend its longevity by cleaning up mini surges that reduce equipment life.



What is the typical equipment?

- 1. Service Entrance
 - Typical voltage is 480/277VAC
 - Recommended model
 - JSP 400kA-240kA
- 2. Mid-Level Distribution
 - Typical voltage is 208/120VAC
 - Recommended models
 - JSP 240kA-120kA
 - Surgitron I Series
- 3. Panel Board Distribution
 - Voltage varies
 - Recommended models
 - JSP 120kA-60kA
 - TransEnd 80kA–25kA

How is it installed?

Surge protection can be easily hard wired to the appropriate switch gear panel by an electrician. The installation takes between 1-2 hours.

Warranty

- 3–10 years (model dependent) warranty
- · Replacement even if unit sacrifices itself because of a surge event

Additional product information:

www.tnbpowersolutions.com/joslynsurge

