

# Surge Protection

## Power Service Entrance Surge Protection

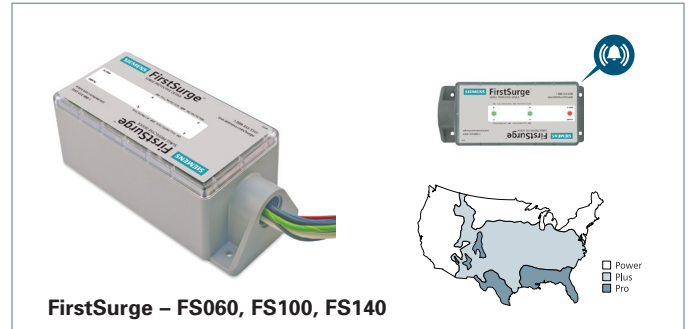
### FirstSurge™ - Power, Plus, or Pro

- 4th Listed, Type 2, Surge Protective Device (SPD)
- Surge Current Capacities:
  - 60,000 A, FirstSurge Power (FS060)
  - 100,000 A, FirstSurge Plus (FS100)
  - 140,000 A, FirstSurge Pro (FS140)
- 3 Stage Commercial Grade Notification:
  - Protection Status LEDs
  - Audible Alarm
  - Flashing Red Service LED
- Ground Reference Monitoring (GRM)
- 10 year product & connected equipment warranty\*

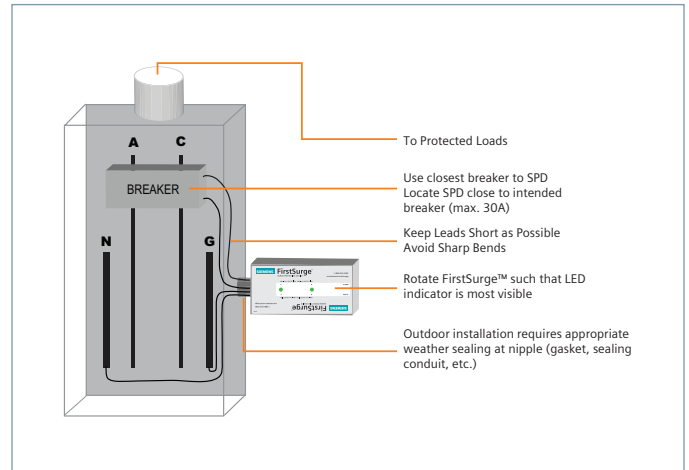
\* See [www.usa.siemens.com/surge](http://www.usa.siemens.com/surge) for warranty terms and conditions.

| Surge Type       | Catalog Number |
|------------------|----------------|
| FirstSurge Power | <b>FS060</b>   |
| FirstSurge Plus  | <b>FS100</b>   |
| FirstSurge Pro   | <b>FS140</b>   |

| AC Surge Protection                 |                                       |
|-------------------------------------|---------------------------------------|
| UL and CSA Listings                 | 1449 4th Edition & CSA 22.2 No. 269.2 |
| Surge Spike Capacity                | 60kA, 100kA, or 140kA                 |
| Line Voltage                        | 120/240 1 Phase 50/60 Hz              |
| UL 1449 4th Edition VPR             | L-N, L-G, N-G: 600 V; L-L: 900V       |
| Rated Voltage (MCOV)                | L-N, L-G, and N-G: 150V; L-L: 300V    |
| Short Circuit Current Rating (SCCR) | 100kA                                 |
| Inominal ( $I_n$ ) Rating           | 20kA                                  |
| Response Time                       | <1 nanosecond                         |
| Enclosure                           | NEMA 4X Indoor and Outdoor Rated      |
| Product Warranty                    | 10 years                              |



FirstSurge – FS060, FS100, FS140



## Type 1 SPD / Surge Arrestor Replacement

### TPS3 03

TPS3 03 is a UL 1449 4th Edition 50 kA Type 1 compact surge protective device that can be used as a replacement secondary surge or lightning arrestors. Having a Type 1 designation allows for flexible electrical system connection location (line or load side) as well as UL 96A compliance (@ 20 kA  $I_n$ ).

#### TPS3 03 Key Features

- UL 1449 4th Edition Listed Type 1
- Type 1 Rated SPD
- 50 kA Per Phase Surge Current
- 20 kA  $I_n$  (Most models)
- 200 kA SCCR (Most models)
- UL 96A Lightning Protection Master Labeling compliant (@ 20 kA)
- Every MOV is monitored
- Mounts external to electrical distribution equipment
  - Recommend for Line Side or Load Side Applications
- Standard compact NEMA 4X polycarbonate enclosure
- Modes of Protection: L-N or L-G and L-L
- Standard Monitoring: LED Indicator
- Dimensions: 3.25" x 3.25" x 3.3" (82.6 mm x 82.6 mm x 83.8 mm)
- Weight: 2 lb. (0.9 kg)
- 2 Year Product Warranty

#### Available Options:

- Dry contacts & Audible Alarm (option "D")



TPS3 03

TPS3 01 DIN RAIL Mounting

### Ordering Information

Catalog # **TPS3** ☐ **03** ☐ ☐ ☐ ☐

|                                                                                                                                                                                                                                                                                                         |                                                          |                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Voltage Code</b><br><b>A</b> = 120/240 V, 1Ø, 3W<br><b>B</b> = 120/240 V, 3Ø, 4W<br><b>C</b> = 120/208 V, 3Ø, 4W<br><b>D</b> = 240 V, 3Ø, 3W<br><b>E</b> = 277/480 V, 3Ø, 4W<br><b>F</b> = 480 V, 3Ø, 3W<br><b>G</b> = 600 V, 3Ø, 3W<br><b>K</b> = 380/220 V, 3Ø, 4W<br><b>L</b> = 600/347 V, 3Ø, 4W | <b>Surge Current (kA)</b><br><b>05</b> = 50 kA per phase | <b>Options</b><br><b>D</b> = Dry contact & audible alarm<br><b>N</b> = Adds N-G Protection |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------|

Example: **TPS3C0305D0** = Type 1 SPD for a 208/120V application with a surge current capacity of 50 kA per phase, in a standard NEMA 4X enclosure with dry contacts and audible alarm option. When an option is not selected, include a **zero (0)** in the field.

Available Accessories: Ordered Separately  
**RMSIE** = Remote monitor