

# Loadcentres Surge Protection

## Power Service Entrance Surge Protection

### FirstSurge™

#### Total Home Protection

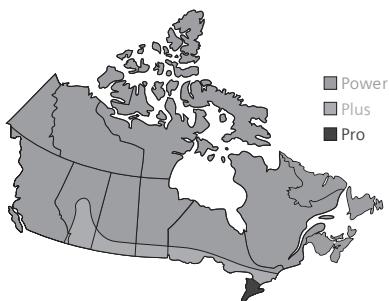
Siemens believes today's residential surge protectors come up short when protecting today's modern home filled with smart appliances and electronics.

This is why we developed our FirstSurge™ commercial class total home surge protectors. These electrical system surge protectors are sized for where you live. They will let you know when there is something wrong or when they are worn out.

Based upon thunderstorm frequency, geographic location, and home size, we developed a surge exposure map correlating with FirstSurge™ current capacities known to provide years of protective service for each shaded area.

#### Sized For Where You Live

Model	Surge Capacity
FirstSurge™ Power	(FS060) 60,000 A
FirstSurge™ Plus	(FS100) 100,000 A
FirstSurge™ Pro	(FS140) 140,000 A



#### Know You're Protected:

#### 3 Stage Commercial Grade Notification

When there is a problem, Siemens FirstSurge™ takes the guesswork out of knowing when it is time to be replaced. What will you see and hear when this occurs?

Audible Alarm: Beeps  
Green LED(s): Extinguish  
Red Service Light: Flashes

#### Ground Reference Monitoring (GRM)

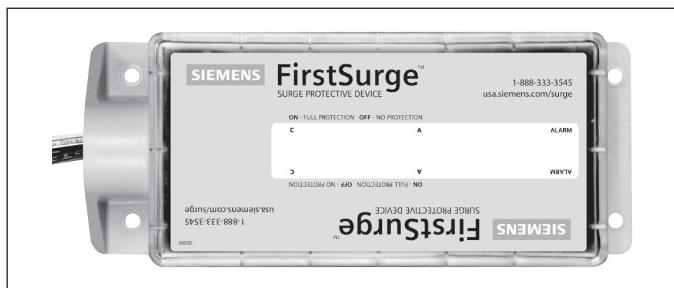
FirstSurge™ is GRM-equipped notifying you a rare safety hazard exists due to a compromised electrical system neutral to ground bond. What will you see and hear when this occurs?

Audible Alarm: Beeps  
Green LED(s): Remains Lit  
Red Service Light: Flashes



• Revised •  
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### Selection



#### Features & Benefits

- UL 1449 Listed, Type 2, Surge Protective Device (SPD)
- Rated for 120/240 split phase panels up to 400A
- Surge Current Capacities:
  - 60,000 A
  - 100,000 A
  - 140,000 A
- 3 Stage Commercial Grade Notification
- Ground Reference Monitoring (GRM)
- Installs onto any brand load center
- Type 4 rated outdoor enclosure
- 10 year product and connected equipment warranty\*

#### Technical Specifications

Surge Spike Capacity	FirstSurge™ Power (FS060) 60,000A FirstSurge™ Plus (FS100) 100,000A FirstSurge™ Pro (FS140) 140,000A
Line Voltage	120/240 Split Phase, 50/60 Hz
UL 1449 3rd Ed VPR	L-N: 600 V L-G: 600 V N-G: 600 V L-L: 900 V
Rated Voltage (MCOV)	150V – L-N, L-G, and N-G; 300V – L-L
Response Time	<1 nanosecond
Enclosure	NEMA 4X Indoor and Outdoor Rated
Selection Information	
FirstSurge™ Power	FS060
FirstSurge™ Plus	FS100
FirstSurge™ Pro	FS140
FirstSurge™ Flush Mount Kit	XMFMKIT

\*See warranty for details

# Loadcentres Surge Protection

## Telephone Service Entrance Surge Protection

Siemens FSPHONE is a 2 pair, hardwired surge protector for telephone, DSL or modem connected electronics in residential and light commercial applications. The FSPHONE protects against electrical power surges that can enter through the main telephone connection and is equipped with a failshort device to permanently ground the telephone line in the event of a power cross.

The FSPHONE is designed for indoor applications or can be mounted inside another weatherproof enclosure for outdoor mounting applications.

The FSPHONE4X consists of the FSPHONE plus a weatherproof enclosure to facilitate indoor or outdoor applications. The enclosure is molded of temperature and humidity resistant thermoplastic to resist cracking and discoloration. The cover can be secured with a tie wrap or similar locking device.

For total home protection please use FirstSurge™ to protect your incoming AC Power lines and FSPHONE to protect your incoming telephone line.

### Features & Benefits

- UL listed
- Hardwired Modem/Fax/DSL protection
- Easy to install
- Exceptionally fast response time
- Low insertion loss
- Available with or without enclosure
- 5-Year product warranty\*



### Technical Specifications

Catastrophic Surge Circuit	Yes
Spike Capacity	200 Amps
Let Through Voltage	<270 V
Overcurrent Protection	Yes
Response Time	<1 nanosecond
Enclosure	Yes

### Agency Approvals & Warranty

UL/cUL Listings	497C
Meets Telcordia (formally Bellcore) GR-974-CORE Requirements for Telecommunications Line Protectors	Yes
Product Warranty	FS140

### Catalogue Number

FSPHONE	2 pair protection module
FSPHONE4X	2 pair protection module & 1 Weatherproof Enclosure
UL Model No. - SATH2	

# Coaxial Service Entrance Surge Protection

Siemens FSCATV shields coaxial connected electronics in residential and light commercial applications against electrical transient damage, including lightning, from entering through the main cable connection.

FSCATV includes a section of coaxial cable with female to female splice for line side application. The Siemens warranty covers product defects for 5 years. To have complete protection for your equipment, home, or business, it is important to protect AC power lines and all data lines the equipment is connected through.

### Features & Benefits

- UL Listed
- Rated for CATV, DSS, TV, VCR, and Cable Modem
- Easy to install
- Standard Female to Female F connector
- Low insertion loss
- Automatic recovery
- 5 Year product warranty\*



### Technical Specifications

Frequency Range	DC thru 1.5 GHz
Catastrophic Surge Circuit	Yes
Spike Capacity	5000 Amps, 8/20 $\mu$ Sec
Impedance	75 Ohms
Overcurrent Protection	Yes
Return Loss	30dB @ 1 GHz
Insertion Loss	<0.1dB

### Agency Approvals & Warranty

UL/cUL Listings	497C
Meets IEEE C62.41.1 Requirements	Yes
Product Warranty	FS140

### Catalogue Number

FSCATV	F-Type Inline Coax Protector
UL Model No. - Surgeassure™ SAVFFF	