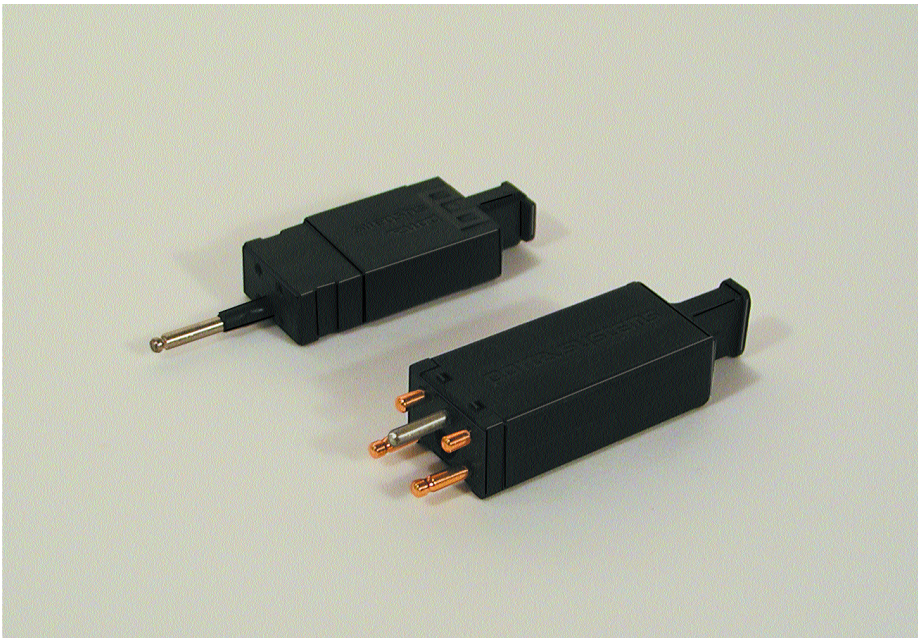
Solid State Protector Modules

Line Protection for Sensitive Voice and Data Equipment

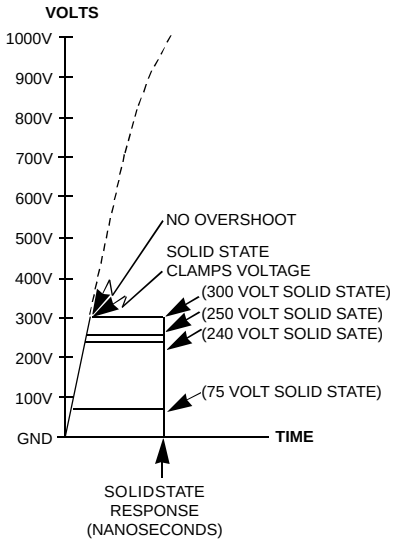
Porta Systems Solid State Protector Modules provide premium high speed protection for sensitive communication and data equipment.

Utilizing today's most advanced technology, the Porta Systems Solid State module provides a response time of less than 5 nanoseconds.

Internal test points allow easy access to the outside plant.



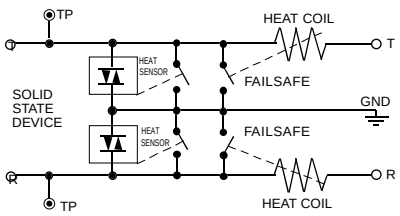
PROTECTION INPUT & OUTPUT WAVEFORM



Features & Benefits

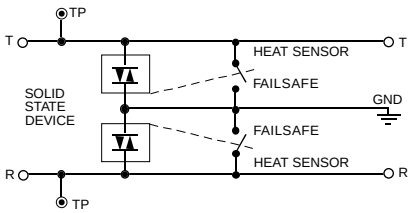
- UL 497 listed for Primary as well as Secondary protection
- Less than 5 nanoseconds response time
- Heat coil (optional) guards against line current
- Detent position facilitates testing
- Reduces service calls and repair costs
- Available in single or five-pin configurations
- Five-pin configuration compatible with other manufacturers' equipment
- Available in 75V, 240V, 250V,or 300V

EQUIVALENT CIRCUIT



MODEL15SCN

EQUIVALENT CIRCUIT



MODEL05SCN

SOLID STATE PROTECTOR MODULES

SPECIFICATIONS:

Electrical

	75 Volt	240 Volt	250 Volt	300 Volt	Test Parameters
DC Breakdown Voltage	60-95V	215-265V	220-300V	265-345V	2000V/Sec max
Impulse Breakdown Voltage	60-95V	215-285V	220-300V	265-360V	100V/µSec max
Clamping Time	<5n Sec	<5n Sec	<5n Sec	<5n Sec	
Capacitance (Maximum)	100 pF	100 pF	100 pF	100 pF	1 Vrms, 1 MHz 50VDC Bias
Surge Endurance Number of Operations is Unlimited	100A/side	100A/side	100A/side	100A/side	10/1000µ Sec surge
Line Series Resistance*	4 ohms max	4 ohms max	4 ohms max	4 ohms max	Line in / Line out
Insulation Resistance (Minimum)	100MΩ	100MΩ	100MΩ	100MΩ	50 VDC 100VDC
DC Holdover at 25°C 52V 135V 150V	260mA N/A N/A	260mA 200mA 140mA	260mA 200mA 140mA	260mA 200mA 140mA	20 mSec max to extinguish

*High resistance heat coil available upon request.

Operating temperature: –13° to + 149°F (–25° to + 65°C)

Heat Coil/Sneak Current specifications:

The device will conduct up to 360 mA indefinitely.
The device will short/open in less than 210 Sec. max. when subjected to 540 mA.
The device will short/open in less than 10 Sec. max. when subjected to 1A or more.

ORDERING INFORMATION:

CONFIGURATION	TYPE	GENERIC	75 VOLT	240 VOLT	250 VOLT	300 VOLT
Single-Pin	Heat Coil	—	15SCN-75V	15SCN-240V	15SCN-250V	15SCN-300V
	Heat Sensor	—	05SCN-75V	05SCN-240V	05SCN-250V	05SCN-300V
Five-Pin	Heat Coil	4B1S	115SCG-75V	115SCG-240V	115SCG-250V	115SCG-300V
	Heat Sensor	3B1S	105SCG-75V	105SCG-240V	105SCG-250V	105SCG-300V

The modules listed above represent our most popular protectors. Contact our Sales Department for other models not shown.

FEATURES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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