

POWERTRIP®

TRANSIENT VOLTAGE SURGE SUPPRESSOR

Model PT-ICPS

**20kA / 40kA Per Mode
with Sinewave Tracking**

The **PowerTrip PT-ICPS series** provide the best transient protection available for a device of its type. These devices are intended for single 120, 240 or 400 VAC circuit applications at locations feeding sensitive/critical equipment. It is extremely effective in limiting transients generated inside the facility and is an absolute must on circuits feeding critical microprocessor based equipment. The 120-15 boasts a 20kA per mode peak surge current rating while the 120-30 and 240-15 and 240-30 and 380-15 units have a robust 40kA per mode rating.

This device features a completely encapsulated Optimal Response Network circuitry for effective and reliable surge suppressio, and requires no special enclosure when used inside an existing enclosure or cabinet.

Description: Series wired, parallel connected transient voltage surge suppressor with encapsulated Optimal Response Network circuitry (20kA or 40kA per mode peak surge current).

Application: Designed for use at ANSI/IEEE Category A with susceptibility up to medium exposure levels to protect sensitive/critical loads fed by a single electrical circuit.

Enclosure: NEMA 4 ABS Composite - UL94-5VA.

Mounting: External mounting feet. DIN rail mounting feet. (DIN optional)

Connection Method: 3-Lug screw terminal strip at both the input and output sides of the device.

Shipping Weight: < 1 lbs.

Circuit Design: Series wired, parallel connected hybrid design incorporating discrete all mode protection and utilizing our encapsulated Optimal Response Network design to provide lowest possible let-through-voltages.

Protection Modes: Dedicated protection components and circuitry for each mode. Discrete L-N (Normal Mode), and Discrete L-G, N-G (Common Mode)

Input Power Frequency: 50-60 Hz

Current and Voltage Configurations: 20, 15, 5 and 3 Amps with various models up to 250 V AC or DC. (Other voltages and configurations available on request)

Max Continuous Operating Current: 3, 5, 15 and 30 amps

Response Time: <1 nanosecond

Circuit Diagnostics: Green LED, normally on.

Circuit Interrupt: External (see installation instructions).

Option Codes: R1 - Remote LED indication, Remove T from model # - Wires instead of terminals.

Warranty: 25 Years Unlimited Free Replacement

KEY FEATURES

- Discrete "All Mode" Circuitry
- Industry Leading Measured Limiting Voltage (let-through) Performance
- Multi-stage Hybrid Optimal Sinewave Tracking™ Circuit
- Independent Verification of Performance and Safety
- Component-Level, Thermal Fusing
- Patent Pending, Internal, Circuit Board Mounted, Over-Current Fusing



MADE IN THE U.S.A.

Model PT-ICPS VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS

Model	MCOV	Mode	*ANSI/IEEE C62.41.1 & C62.41.2 Measured Limiting Voltage Test Categories		
			*A1	*A3	*B3/C1)
PT-ICPS-120-## (## = 3, 5, 15, 20)	150 L-N 150 L-G 150 N-G	L-N L-G N-G	39 (D) 385 (D) 371 (S)	446 (D) 440 (D) 440 (S)	420 (D) 400 (D) 380 (S)
PT-ICPS-240-## (## = 3, 5, 15, 20)	320 L-N 320 L-G 320 N-G	L-N L-G N-G	35 (S) 710 (S) 725 (S)	95(S) 755 (S) 765 (S)	1000 (S) 935 (S) 940 (S)

*Measured Limiting Voltage (Let-Through) Test Environment: Dynamic (D) or Static (S), positive polarity. All voltages are peak ($\pm 10\%$). Time Base is 1ms. 180° phase angle voltages are measured from the zero crossing, 90° phase angle voltages are measured from the positive peak of the sine wave to the positive peak of the surge indicating actual excess voltage let through. All tests were performed with the device connected in series simulating actual installation.

Standard Model Number Section Format

Configuration	Voltage	Amperage
PT-ICPS - Terminals, Sine Wave Tracking	5 to 250 (AC)	20
PT-ICPF - Terminals, Non-Tracking	5 DC to 250 DC	15
S - Wires, Sine Wave Tracking	* Specify DC in model by putting "DC" after the number	5
Add "W" suffix to model# - Wires instead of terminals	** Models may reflect commonly used voltages or increments of 10.	3

Typical Model Number: PT-ICPS120-20 (Sine Wave Tracking, Terminal Connected, 120 VAC, and 20 Amps)

Enclosure Dimensions

Dimensions (in.)	Standard Model
A	5.4000
B	4.000
C	1.800
Type	NEMA 4 (ABS)
Weight	< 1.0 lbs.

