

POWER SYSTEMS & CONTROLS



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& CONTROLS
THE POWER IS ON!

PSE/120Y

PSE/277Y

PSE/120/240S



DESCRIPTION

The PSE Series is a non-modular parallel suppressor designed for service entrance or downstream panelboard applications. The PSE is a multi-stage suppression circuit consisting of field proven, fast acting MOVs. A surge suppression path is provided for each mode (L-N or L-L, L-G, N-G) guaranteeing continuous service. Each surge suppression mode is individually fused with thermal cutout to ensure safe operation during severe over-voltages and high fault current conditions. The suppression elements are encapsulated in UL Listed and Patented Ceramgard® providing another level of safety. A filter network is added to provide wave shape smoothing

and a high level of EMI/RFI noise attenuation. On-line diagnostics continuously monitor the unit status and feature redundant LEDs to signal a reduction in surge capacity or loss of a suppression circuit. An audible alarm, dry contacts are included in the standard diagnostic package. All PS&C products are designed and tested in accordance with the recommendations and procedures of ANSI/IEEE C62.41 and C62.45. The PSE is UL 1449 Second Edition Listed, and qualified for service entrance applications under Section 37.3 with short circuit current ratings up to 200,000 rms symmetrical amperes.

FEATURES

Design Features

- Individually Fused Suppression Modes
- Thermal Cutout
- Solid State Bi-directional
- Operational Indicators (LED) to Indicate Loss of Protection or Circuit Fully Operational, including Neutral-to-Ground
- High Energy Parallel Design for Category A, B, and C3 Applications
- AC Tracking Filter with EMI/RFI Filtering Up to -50dB from 100kHz to 100MHz

Design Features (Cont.)

- For External Mounting Next to Panelboards, Switchgear, or Motor Control Centers

Quality

- Five Year Warranty: Unlimited Replacement if Unit Destroyed by Lightning within the Warranty Period.
- Burn-in Tested Prior to Shipment
- Short Circuit Current Rating 200,000 rms Symmetrical Amperes.

Suitable for use on a circuit capable of delivering not more than
200,000 rms Symmetrical Amperes, 600 Volts, maximum.

SPECIFICATIONS

Performance Specifications

- Surge Capacity L-N L-G N-G
 50kA/phase 25k 25k 19.5k
- UL 1449 Second Edition Listed, 1283 Recognized, and CUL
- 200KAIR Rated Fusing
- Less than 1/2 Nanosecond Response Time
- 5000 Category C3 Impulses with <10% Drift

Environmental Specifications

- Relative Humidity Range: 0-95% Non-Condensing
- Operating Frequency: 47 - 63 Hz
- Operating Temperature: -40° C to +60° C
- External Mount NEMA 12 Standard Enclosure (Other NEMA enclosures are available)
- Standard Size: 6"x6"x4" (LxWxD)
- Weight: 8 Lbs.

UL SUPPRESSED VOLTAGE RATING (SVR)

Model	Service Voltage	L-N	L-G	N-G	L-L	MCOV
PSE/120Y	120/208V Three Phase, WYE	400	400	400	700	150
PSE/277Y	277/480V Three Phase, WYE	700	700	600	1200	320
PSE/120/240S	120/240V Split Phase	400	400	330	700	150

STANDARD FEATURES

Audible Alarm: Will sound in the event of an alarm condition. This indicates a problem with the unit which requires further evaluation. There is no test or silence switch, de-energizing the unit will silence the alarm.

Dry Contacts: Monitor each phase providing a summary alarm. The contacts are terminated in a DB-9 connector.