

SPPT-120B Series

Medium Duty – Industrial

AC Surge Arrestor/Filter



Features:

- ▶ The SPPT-120B series is ideal for Medium duty applications in branch or local equipment panels.
- ▶ Powerful, high speed transient energy absorption capability exceeding ANSI/IEEE C62.41-1991 Category C3, and IEC/EN 61000-4-5 level 4 recommendations
- ▶ Thermal cut out protection ensures fail (open) and prevents any safety hazard during sustained over-voltages.
- ▶ EMI/RFI filtering and suppression, both common and normal mode, provide the most effective protection.
- ▶ Long life bright LEDs provide continuous indication of power and protection status.
- ▶ Fast response time stops failures due to lightning induced transients, spikes and over-voltage surges on local service panel power lines servicing electronic equipment, while minimizing other electrical noise.
- ▶ Lightning rated internal fuses provide protection for each phase circuit in a fail safe design.
- ▶ Modules available: Single Phase, Split Phase and Three Phase WYE.
- ▶ Hermetically sealed package designed for easy mounting in a standard electrical panel 1/2" knock-out.
- ▶ Automatically resets after each transient. No maintenance is required.
- ▶ Unique long life design exceeds ten (10) years of expected service.

Applications:

The SPPT-120B Series is a general purpose, medium duty industrial suppressor. It should be selected for local service panel protection in areas exposed to severe lightning or powerful inductive field generated transients.

Commonly used in local service panels servicing a building sector where electronic equipment is located, remote control stations, small business power entry or directly on equipment where additional protection is required.

Typical Installation:

Mount the suppressor in any convenient 1/2" knockout in an electrical panel where the indicator LED's can be seen, and connect the wire leads as shown in the diagram (after the electrical breakers or power controls). Installation should be done per local codes by a qualified electrician.

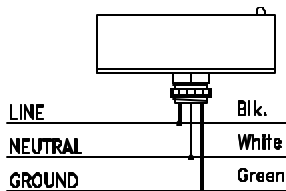
SURGE CONTROL®
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SPPT-120B Series Operating Specifications:

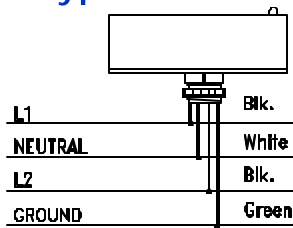
Specifications	SPPT-120B	SPPT-120BD	SPPT-120BY	SPPT-240B	SPPT-240BY
Operating Voltage (VAC)	120 Single Phase	120/240 Split Phase	120/208 3 Phase WYE	220 or 240 Single Phase	220/380 or 240/415 3 Phase WYE
MCOV (Max. Continuous Operating Voltage) VAC	175	160 / 320	175 / 300	320	320 / 554
Maximum Clamping Voltage (L-L) at 100 Amps	N/A	840	840	N/A	1355
Maximum Clamping Voltage (L-N) at 100 Amps	455	455	455	775	840
Maximum Clamping Voltage (N-G) at 100 Amps	455	455	455	455	455
Maximum Transient Voltages *	20 kV	20 kV	20 kV	20 kV	20 kV
Maximum Transient Current / Line *	25 kA	25 kA	25 kA	25 kA	25 kA
Energy Rating ** (Joules)	600	600	600	1146	1146

- Waveforms: 1.2 x 50 μ Sec source voltage, 8 x 20 μ Sec source current, ** 10/1000 μ Sec
- Line Current Rating : Shunt Type—Not Limited in Service Applications
- Operating & Storage Temperature: -40 °C to +65 °C. All specifications at 25 degrees Celsius
- Design Life: Greater than ten (10) years

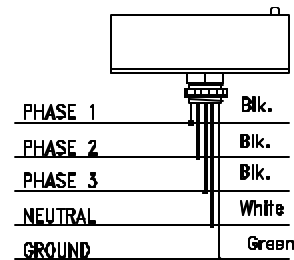
Typical Installation



SINGLE PHASE
120, 220 or 240 VAC

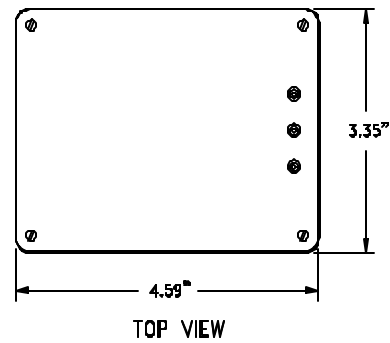
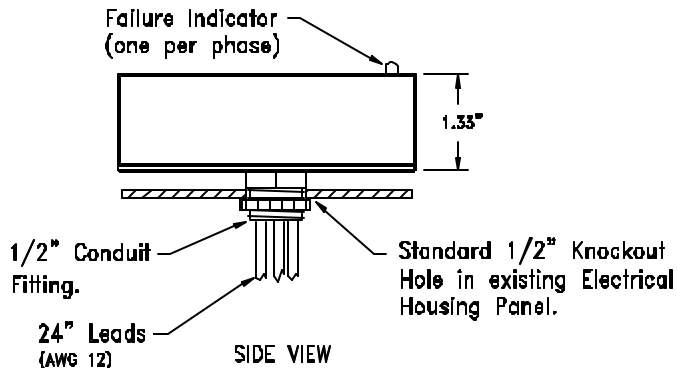


SINGLE (SPLIT) PHASE
120/240 VAC



3 PHASE WYE
120/208 VAC 240/415 VAC
220/380 VAC

Outline Dimensions:



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