

SPPT-120A Series

Heavy Duty-Local Panel

AC Power Surge Arrestor/Filter



Features:

- ▶ The SPT-120A Series is a heavy duty surge suppressor ideal for branch and local power panels.
- ▶ Low profile wall mount package allows quick and simple installation adjacent to the local service panel or equipment.
- ▶ 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 safe (open) and prevents any safety hazard during sustained over-voltages.
- ▶ Long life bright LED's provide continuous indication of power and protection status.
- ▶ EMI/RFI filtering and suppression, both common and normal mode, provide the most effective protection.
- ▶ Sub nanosecond 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.
- ▶ Models available: Single Phase, Split Phase and Three Phase WYE.
- ▶ Three phase models include L-L mode protection.
- ▶ Hermetically sealed package for the most severe environments.
- ▶ Automatically resets after each transient. No maintenance is required.
- ▶ Unique long life design exceeds fifteen (15) years of expected service

Applications:

The SPPT-120A Series is a heavy duty industrial suppressor. It should be selected for Local Service Panel protection in areas exposed to the most severe lightning or powerful inductive field generated transients.

Commonly used in Local Service Panels servicing remote control stations, small business, main power entry, communications, control equipment houses, or a building sector where sensitive electronic equipment is located.

See SPPT-D-Series for three phase delta applications.

Typical Installation:

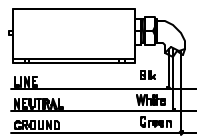
A qualified electrician should complete the installation in the local Service Panel per local codes. Wall mount the SPPT-120A Series adjacent to the service panel in a convenient location. Flexible or rigid conduit should be installed to route the wires into the panel. Connect the Phase, Neutral, and Ground wires after the electrical breakers or power controls. A detailed installation guide is included with each order.

SPPT-120A Series Operating Specifications:

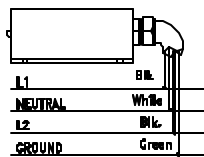
Specifications	SPPT-120A	SPPT-120AD	SPPT-120AY	SPPT-240A	SPPT-240AY	SPPT-277AY
Operating Voltage (VAC)	120 Single Phase	120/240 Split Phase	120/208 3 Phase WYE	220 or 240 Single Phase	220/380 or 240/415 3 Phase WYE	277/480 3 Phase WYE
MCOV (Max. Continuous Operating Voltage) VAC	175	160 / 320	175 / 300	320	320 / 554	385 / 667
Maximum Clamping Voltage (L-L) at 100 Amps	N/A	840	840	N/A	1355	1355
Maximum Clamping Voltage (L-N) at 100 Amps	455	455	455	775	840	840
Maximum Clamping Voltage (N-G) at 100 Amps	455	455	455	455	455	455
Maximum Transient Voltage *	20 KV	20 KV	20 KV	20 KV	20 KV	20 KV
Maximum Transient Current / phase *	30 KA	30 KA	30 KA	30 KA	30 KA	30 KA
Energy Rating ** (Joules)	600	600	600	1146	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

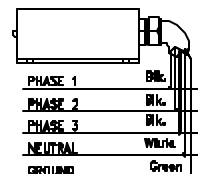
Typical Installation:



SINGLE PHASE
120, 220 or 240 VAC

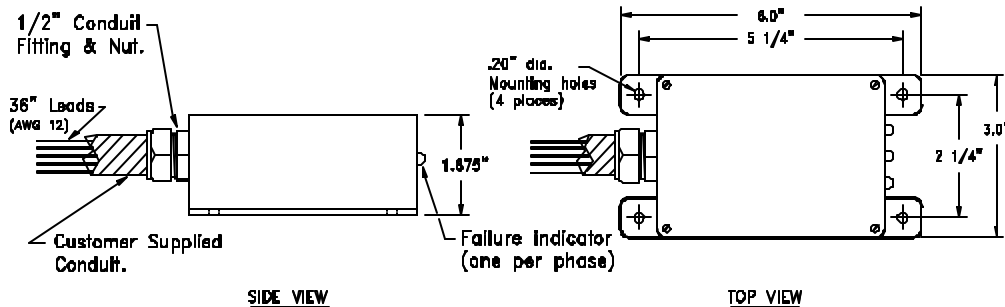


SINGLE (SPLIT) PHASE
120/240 VAC



3 PHASE WYE
120/208 VAC 240/415 VAC
220/380 VAC 277/480 VAC

Outline Dimensions:



SIDE VIEW

TOP VIEW

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