

# SPU-120

DIN-Rail Mount  
120 VAC 10 Amp

Surge Suppressor  
Electronic Filter



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## Features:

- ▶ Direct wire termination to secure wire clamp terminals, allows quick and simple installation.
- ▶ Protection of a concentrated power line installation is practical due to the vertical universal mounting on any standard DIN-Rail.
- ▶ Designed for measurement and control equipment used in an industrial environment.
- ▶ Exceeds severity Category B of IEEE/ANSI C62.41.2-2002 recommendations.
- ▶ Unique multi-stage design provides the most effective suppression available and requires no additional secondary protection.
- ▶ Automatically resets after each transient. No maintenance is required.
- ▶ Sub nanosecond response time stops failures due to lightning, spikes and over-voltage surges while minimizing other electrical noise.
- ▶ Superior protection at an affordable price.

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## Applications:

The SPU-120 is designed for 120 VAC and up to 10 Amp service to be installed on any standard DIN-Rail. Ideal applications include measurement and control equipment, instrumentation, data processing and telecommunication equipment, etc.

Select the SDP-Series for up to 15 Amps operating current, status indication and enhanced filtering performance.

Select the SPU-420 Series for 2 pair or 4 wire signal/data line protection.

Select the model SPU-420S or SPR-42US Series for single pair (2 wire) applications.

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## Typical Installation:

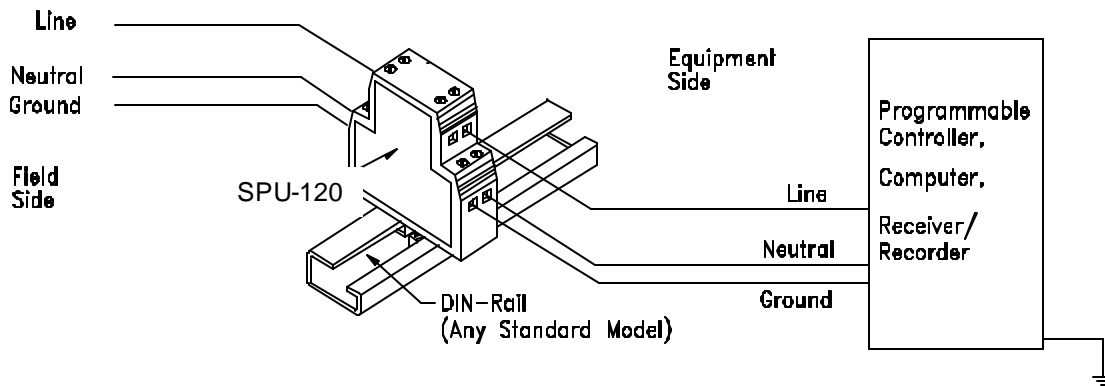
Mount the SPU-120 suppressor on any standard DIN-Rail. Connect each incoming power line to the SPU-120 as indicated. Connect the facility ("clean") lines to the equipment and dress away from incoming lines. The suppressor must be connected to a good earth ground. Keep the ground wire (#12 AWG or larger) short and place the suppressor as near the equipment to be protected as possible. Equipment ground and suppressor ground should be common.

# SPU-120 Operating Specifications:

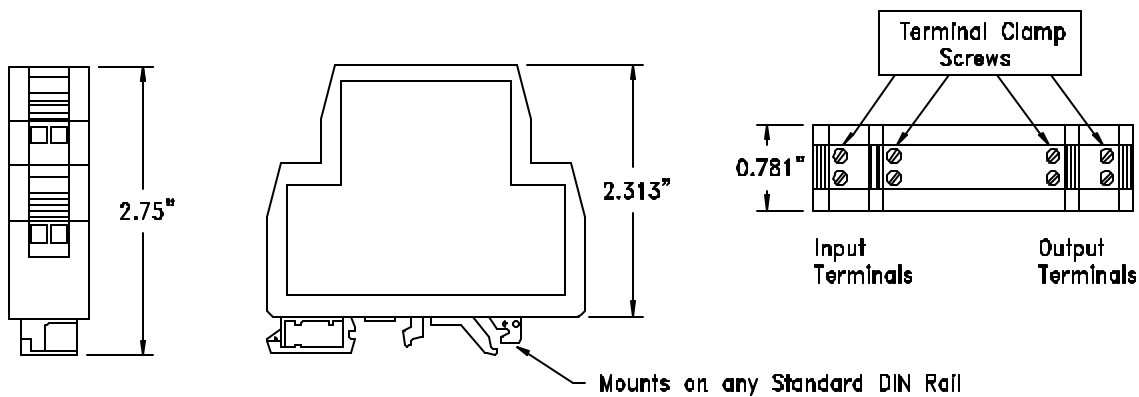
Specifications	SPU-120
Operating Line Voltage Rating @ 50/60 Hz	125 VAC
Maximum Operating Line Current	10 Amps
MCOV (Max. Continuous Operating Voltage)	130 VAC
Maximum Clamping Voltage at $I_L$ Line – Neutral / Line – Gnd, Neutral – Gnd	220 Volts / 240 Volts
Maximum Clamping Voltage at 500 Amps, Line - Neutral / Line – Gnd, Neutral - Gnd	310 Volts / 390 Volts
Maximum Transient Voltage (8 x 20 $\mu$ Sec)	6 kV
Maximum Transient Current (1.2 x 50 $\mu$ Sec)	10 kA
Frequency Attenuation @ 100 kHz / 10 MHz	-30 dB / -50 dB
Maximum Leakage Current (Line-Gnd)	0.5mA @ 120 VAC / 60 Hz
Response Time	Less than 1 nanosecond
Operating & Storage Temperature	-40 degrees Celsius to +85 degrees Celsius

Consult the factory for other applications, operating conditions and specifications. All specifications at 25 degrees Celsius.

## Typical Installation:



## Outline Dimensions:



Circuit Components, Inc.  
 2400 S. Roosevelt Street Tempe, AZ - 85282  
 Tel: 480-967-0624 - Fax: 480-967-9385  
 Email: [info@surgecontrol.com](mailto:info@surgecontrol.com) - Website: [www.surgecontrol.com](http://www.surgecontrol.com)

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