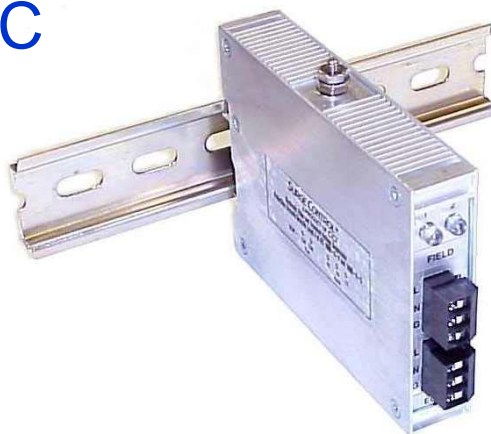


# SDP Series

DIN-Rail Mount  
120 or 220 VAC

Surge Suppressor  
Balanced Filter



---

## Features:

- ▶ Space efficient mounting on any standard DIN-Rail.
- ▶ Available for 120 or 220 VAC, rated for 5, 10, or 15 Amp version
- ▶ Meets severity level 4 of IEC/EN 61000-4-4 and 61000-4-5.
- ▶ Heavy duty metal enclosure designed for the most severe industrial environments
- ▶ LED indication of both Primary and Back-up suppression stages.
- ▶ Exceeds severity Category B of IEEE/ANSI C62.41.2-2002 recommendations.
- ▶ Three grounding options: DIN-Rail foot to grounded rail, screw post, or hard wired terminal.
- ▶ Balanced torroidal based filter provides superior EMI/RFI filtering.

---

## Applications:

The SDP-120 Series is designed for 120VAC service while the SDP-220 Series is used for 220VAC. Each model is offered in 5, 10, and 15 Amp versions. Typical applications include protection of measurement and control equipment such as PLCs, SCADA, DCS, motor control, etc.

Select the SPU-420 Series or the SDD-Series for signal/data line protection.

---

## Typical Installation:

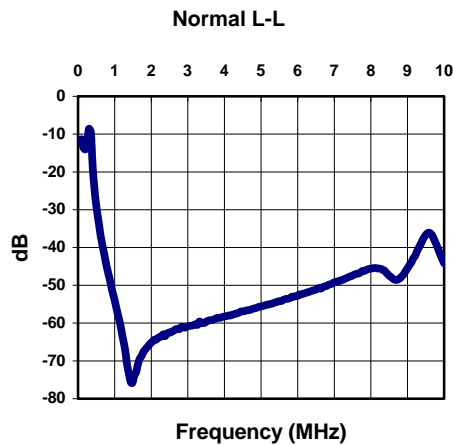
Mount the SDP-Series suppressor on any standard DIN-Rail. Connect each incoming power line to the SDP-Series as indicated. Connect the facility ("clean") lines to the equipment and dress away from incoming lines. The suppressor must be connected to a good earth ground. Keep the ground wire (#12 AWG or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

# SDP-Series Operating Specifications:

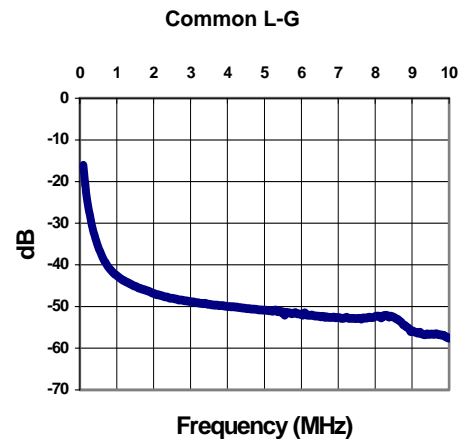
Specifications	SDP-120**	SDP-220**
Operating Line Voltage Rating @ 50/60 Hz	120 VAC	220 VAC
Maximum Operating Line Current	5, 10, or 15 Amps **	5, 10, or 15 Amps **
MCOV (Max. Continuous Operating Voltage) VAC	130	250
Suppressed Voltage Rating UL 1449 2nd Edition ( Vpk)	330 L-N, 400 L-G & N-G	600 L-N, 700 L-G & N-G
Maximum Transient Voltage (1.2 x 50 µSec)	20 kV	20 kV
Maximum Transient Current (8 x 20 µSec)	10 kA	10 kA
Maximum Leakage Current, Each Line To Gnd @ 60Hz	0.5 mA	1.0 mA
Response Time	Less than 1 nanosecond	
Operating and Storage Temperature	-40 degrees Celsius to +85 degrees Celsius	

\*\* Part Number: Replace \*\* with appropriate current for application, Ex: 120 VAC, 5 Amps: CCI Part Number: SDP-12005. Consult the factory for other applications and operating conditions and specifications. All specifications at 25 degrees Celsius.

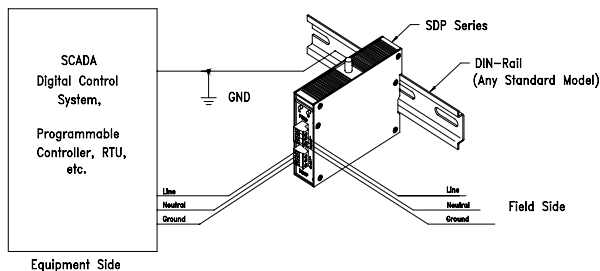
## Insertion Loss:



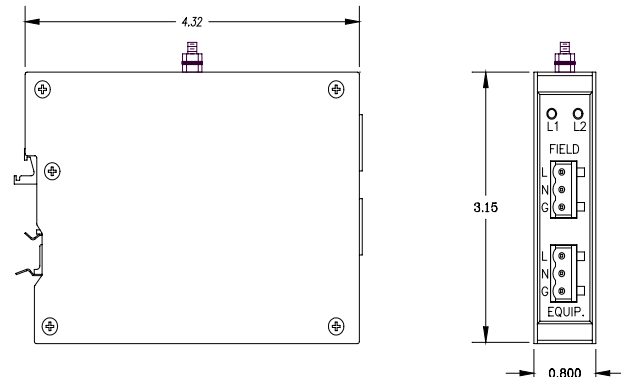
Mode	Frequency (MHz)						
	0.1	0.2	0.5	1	2	5	10
Normal L-L	12	14	29	56	66	56	44
Common L-G	16	24	36	43	47	51	58



## 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)

**SURGE CON-**  
 A PRODUCT OF **CCI**

This information is not intended to and does not create any warranties, expressed or implied, including any warranty of merchantability or fitness for a particular purpose. Circuit Components Inc. reserves the right to change specifications at any time without notice.