



## Features

- Hybrid or thermally protected MOV technology
- Extremely low leakage current
- Heavy duty surge protection
- LED indicators
- Compact form factor
- Indoor or outdoor installation

## Applications

- Service entrance, branch and OEM panels
- Electrical infrastructures
- Equipment and systems
- Protection from lightning
- Protection from AC power-induced problems

## 1202 Series – Hardwired AC Surge Protective Device (H-SPD/T-SPD)

### General Information

The Bourns® Model 1202 Series is a Type 1 hardwired surge protective device targeted for AC infrastructure applications. The hybrid Model 1202-S design combines fast responding MOV technology with low leakage GDT technology resulting in reliable and long-term performance. The Model 1202-P built-in thermal protection feature is designed to safely open in the event of overheating caused by abnormal overvoltage or Temporary Overvoltage (TOV) conditions, thereby interrupting abnormal current within rated limits.

### Additional Information

Click these links for more information:



### Electrical Characteristics

Characteristic	Model No.			
	1202-120S	1202-240S	1202-120P-20	1202-240P-20
Electrical Distribution System (Phase)	120 VAC Single	120 / 240 VAC Single/Split	120VAC Single	120 / 240 VAC Single/Split
Nominal (Operating) Voltage	120 VAC	120 / 240 VAC	120 VAC	120 / 240 VAC
Maximum Operating Voltage	MCOV	150 VAC		
Temporary Overvoltage Withstand	U <sub>T</sub>	150 VAC		
Nominal Discharge Current in 15 Applications of 8/20 μs Impulse Waveform	I <sub>n</sub>	10 kA	20 kA	
Maximum Discharge Current in 1 Application of 8/20 μs Impulse Waveform	I <sub>max</sub>	25 kA	50 kA	
Overvoltage Protection Rating (3 kA)	V <sub>pr</sub>	1200 VAC	700 VAC	
Short Circuit Current Rating	I <sub>scor</sub>	25 kA	100 kA	

### Mechanical Characteristics

Enclosure.....UL 94 5 VA rated Polyphenylene/Polystyrene  
 Environmental Rating .....IP 66 / NEMA 4x  
 Mounting.....Bulkhead  
 Weight  
     1202-xxxS Series ..... 0.73 lbs.  
     1202-xxxP Series ..... 0.54 lbs.  
 Disconnection Indicator ..... LED off  
 Electrical Connection..... 12 AWG solid wiring leads, 24 inches max. length  
 Mechanical Connection to Panel...Straight nipple with nut for mounting through 1/2-inch trade size knockout; 1/2-inch trade size knockout is approximately 0.875 inch

### Environmental Characteristics

Operating Temperature.....-40 °C to +85 °C  
 Moisture Sensitivity Level..... 1  
 ESD Classification (HBM)..... 6

### Packaging Specifications

1202 Series .....one unit per box



**CALIFORNIA WARNING:** Can expose you to lead, a carcinogen and reproductive toxicant. See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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### Agency Listing

Agency	Category	Agency File No.
	UL1449 - 5th Ed., Type 1	<a href="#">E313168</a>

### How To Order

**1202 - 120 P - 20**

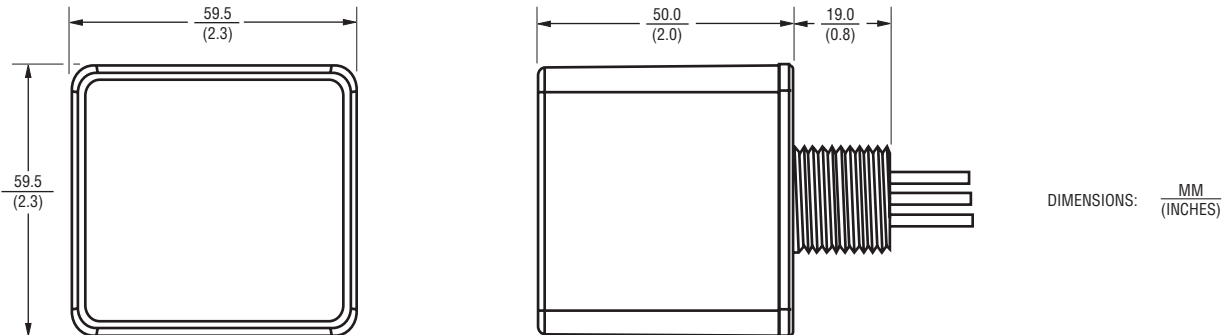
Series \_\_\_\_\_  
 Nominal (Operating) Voltage \_\_\_\_\_  
     120 = 120 VAC  
     240 = 120/240 VAC  
 Overvoltage Protection Type \_\_\_\_\_  
     S = Hybrid (GDT + MOV)  
     P = Thermally Protected  
 Nominal Current\* \_\_\_\_\_  
     Blank = 10 kA  
     20 = 20 kA

\*10 kA nominal current is available only as hybrid overvoltage protection type.

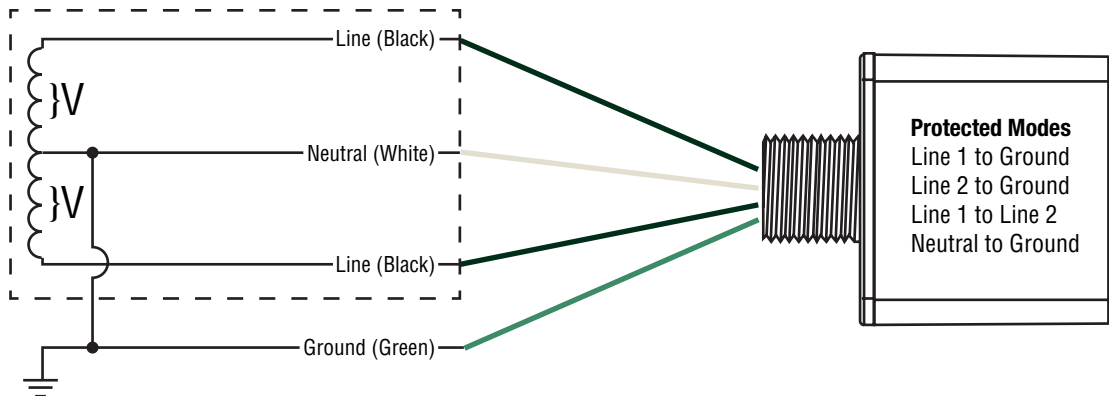
# 1202 Series – Hardwired AC Surge Protective Device (H-SPD/T-SPD)

# BOURNS®

## Product Dimensions



## Wiring and Protection Modes



Model 1202-120x = 1 Hot, 1 Neutral, 1 Ground  
Model 1202-240x = 2 Hot, 1 Neutral, 1 Ground

**Protected Modes**  
Line 1 to Ground  
Line 2 to Ground  
Line 1 to Line 2  
Neutral to Ground

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