Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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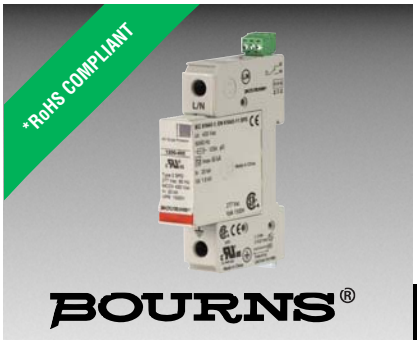
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



BOURNS®

Features

- 50 kA max. discharge current rating
- Multi-pole uni-block design
- DIN Rail mountable
- UL 60691 compliant integrated thermal disconnect
- Visual fault indicator
- Remote signalling capability
- Compact design ideal for limited spaces
- Standards compliance: CE VDE CSA
- RoHS compliant*

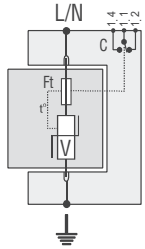
1250 Series General Duty AC Surge Protective Device

General Information

The Bourns® Model 1250 Series is a general duty Surge Protective Device (SPD) designed to protect high risk electrical service entrance and branch panels. This SPD is intended to be installed at the front end of the installation, in the main switchboard, close to sensitive terminals or in installations without LPS (lightning rods).

The Model 1250 Series is a single-pole module that can be configured for both common mode and differential mode protection in single and three phase applications up to 480 V.

Electrical Diagram



V : High energy varistor
Ft : Thermal fuse
C : Remote signaling contact
t° : Thermal disconnection system

Electrical Characteristics

Characteristic	Model No.			
	1250-xS-120	1250-xS-230	1250-xS-400	1250-xS-480
AC Network	120/240 V, 120/208 V	220/380 V, 240/415 V	220/380 V, 277/480 V, 347/600 V	347/600 V, 480 V
Connection Mode	1-Pole, L-N or L-G			
AC System	IT, TT, TN, Single, Split Phase, Delta, Wye			
Max. Operating Voltage (MCOV)	150 V	275 V	420 V	550 V
TOV Withstand	230 V	440 V	440 V	770 V
Leakage Current at Uc	< 1 mA			
Follow Current	None			
UL Nominal Discharge Current (In) 15 Impulses 8/20 μs	20 kA			
Max. Discharge Current (I_{max}) 1 Impulse 8/20 μs	50 kA			
UL Voltage Protection Rating (VPR)	700 V	1000 V	1200 V	1800 V
Protection Level (Up)	0.9 kV	1.25 kV	1.8 kV	2.5 kV
UL Short-Circuit Current Rating (SCCR)	100kAIC			

General Characteristics

Characteristic	Model No.			
	1250-xS-120	1250-xS-230	1250-xS-400	1250-xS-480
Thermal Disconnector	UL 60691			
Overcurrent Protection	Time Delay - 125 A Max.			
Connection	By Screw Terminals, #6 AWG Max.			
Dimensions	90 x 18 x 67 mm / (3.543 x 0.709 x 2.638 In.)			
Mounting	DIN Rail, 35 mm Symmetrical			
Remote Signal Indicator	250 Vac Max., 2 A			
Enclosure Material	Thermoplastic UL 94V0			

Environmental Characteristics

Characteristic	Model No.			
	1250-xS-120	1250-xS-230	1250-xS-400	1250-xS-480
Operating Temperature	-50 °C to +85 °C			
Operating Altitude	13,000 ft. (4,000 m)			
Relative Humidity	5 to 95 % Non-condensing, up to 100 % External			
Environmental Rating	IP 20			

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Applications

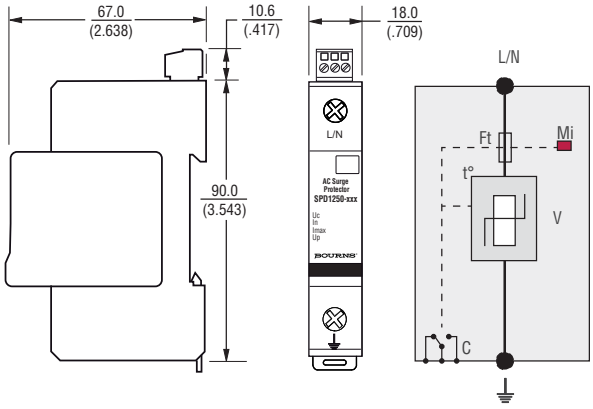
- Electrical service entrance
- Branch panels

1250 Series General Duty AC Surge Protective Device

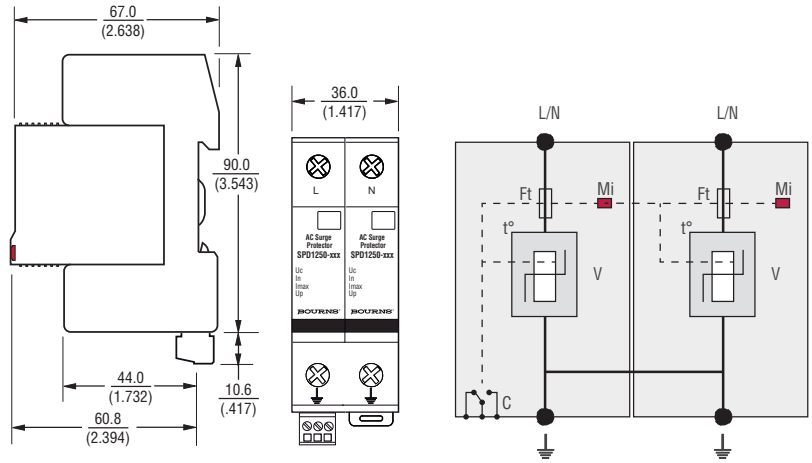
BOURNS®

Product Dimensions and Schematics

1250-1S-xxx

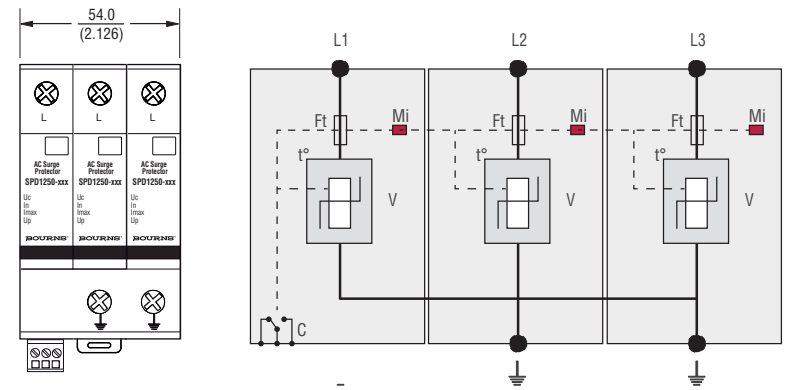


1250-2S-xxx



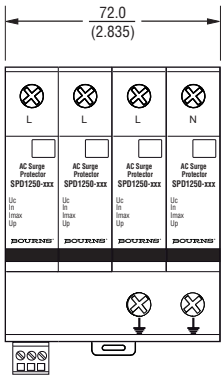
DIMENSIONS: MM / (INCHES)

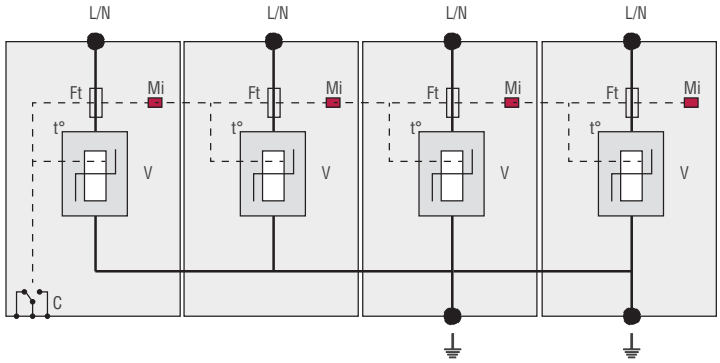
1250-3S-xxx



Product Dimensions and Schematics (Continued)

1250-4S-xxx





DIMENSIONS: MM / (INCHES)

Standards Compliance

IEC61643-1 - International	Class I, Class II
EN 61643-11 - Europe	Class I, Class II
NF EN 61643-11 - France	Class I, Class II
UL1449 3rd Edition - USA	Type 4, Type 2 Location
UL1449 3rd Edition - Canada	Type 4, Type 2 Location
CSA C22.2 No. 8-M1986	Class 9091 32, Class 9091 92
RoHS	RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011

How To Order

1250 - x S - xxx

Series

Configuration
- 1 = One Protected Pole
- 2 = Two Protected Poles
- 3 = Three Protected Poles
- 4 = Four Protected Poles

Remote Signaling Code
- S = Remote Signaling

Operating Voltage
- 120 = 120/240 V, 120/208 V
- 230 = 220/380 V, 240/415 V
- 400 = 220/380 V, 277/480 V, 347/600 V
- 480 = 347/600 V, 480 V

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