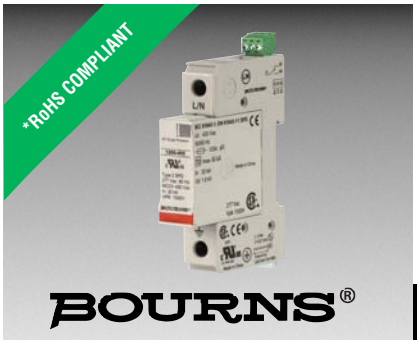


BOURNS®

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 cULus
- RoHS compliant*

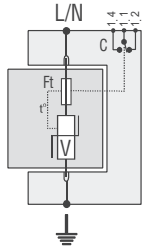
1250 Series General Duty AC Surge Protective Device

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	400 V	550 V
TOV Withstand	150 V	275 V	400 V	550 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			
Max. Lightning Current (I_{imp}) 1 Impulse 10/350 μs	--			
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.

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

Applications

- Electrical service entrance
- Branch panels

1250 Series General Duty AC Surge Protective Device

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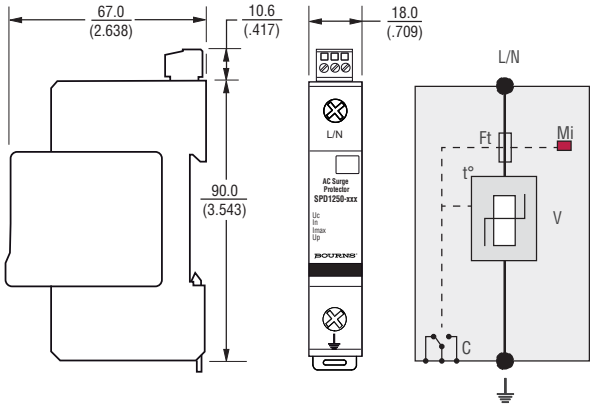
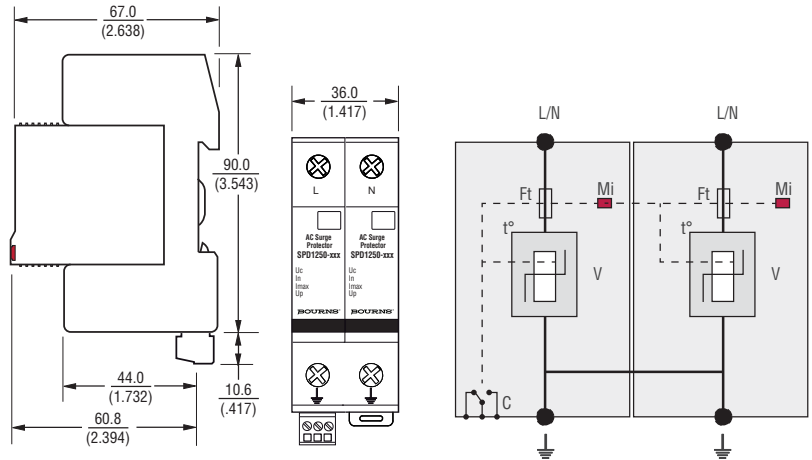
Product Dimensions and Schematics

1250-1S-xxx

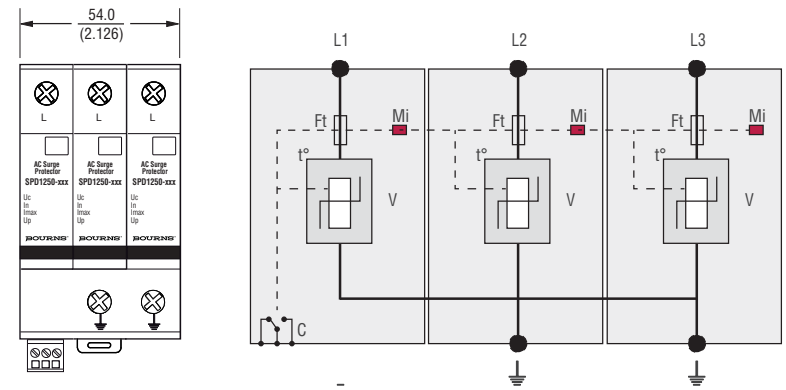


1250-2S-xxx



DIMENSIONS: MM / (INCHES)

1250-3S-xxx



Specifications are subject to change without notice.
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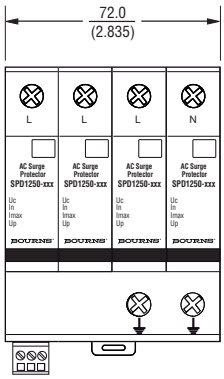
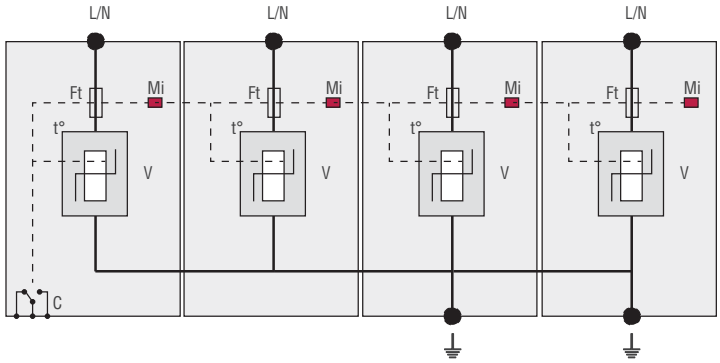
Users should verify actual device performance in their specific applications.

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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REV. 05/13

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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http://moschip.ru/get-element

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