

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

Electrical Diagram

■ 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.

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

Electrical Characteristics

Characteristic		Mode	el No.	
Characteristic	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, Sp	lit 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		No	ne	
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)		100	<aic< td=""><td></td></aic<>	

General Characteristics

Characteristic	Model No.			
Characteristic	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 Termina	als, #6 AWG Max.	
Dimensions		90 x 18 x 67 mm / (3.5	643 x 0.709 x 2.638 ln.)	
Mounting		DIN Rail, 35 m	m Symmetrical	
Remote Signal Indicator		250 Vac	Max., 2 A	
Enclosure Material		Thermoplas	stic UL 94V0	

Environmental Characteristics

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

^{*}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.

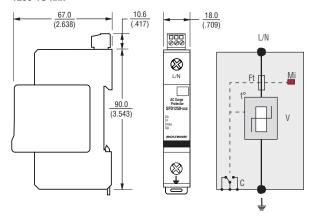
Applications

- Electrical service entrance
- Branch panels

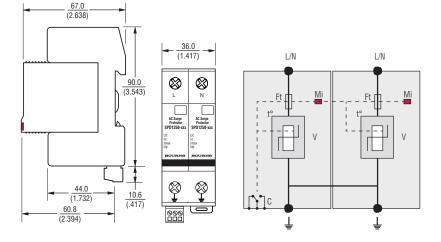
1250 Series General Duty AC Surge Protective Device

Product Dimensions and Schematics

1250-1S-xxx

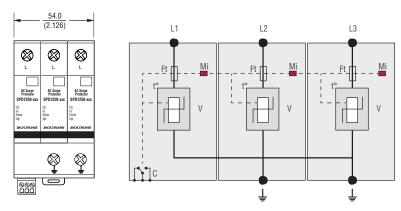


1250-2S-xxx



MM DIMENSIONS: (INCHES)

1250-3S-xxx

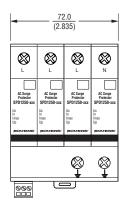


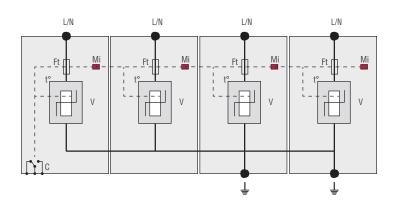
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1250 Series General Duty AC Surge Protective Device

Product Dimensions and Schematics (Continued)

1250-4S-xxx





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IEC61643-1 - International 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 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

MM

(INCHES)

DIMENSIONS:

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. 10/19

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