www.industrytechstore.com



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
- 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 L/N c L

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 ln.)				
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				

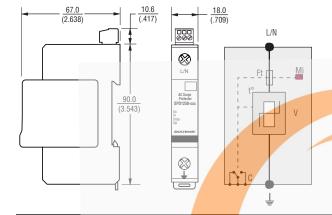
Applications

- Electrical service entrance
- Branch panels

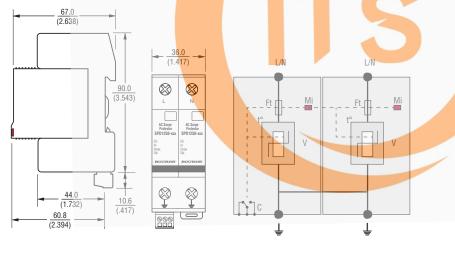
1250 Series General Duty AC Surge Protective Device **BOURNS**

Product Dimensions and Schematics





1250-2S-xxx

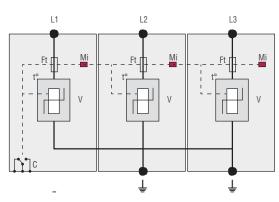


DIMENSIONS:



1250-3S-xxx





Specifications are subject to change without notice.

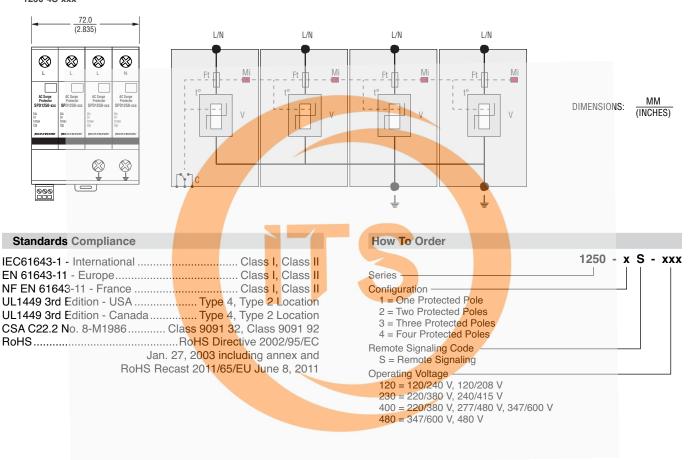
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

1250 Series General Duty AC Surge Protective Device **BOURNS**

Product Dimensions and Schematics (Continued)





REV. 05/13

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.

Contact: +971507924960

Email: sales@industrytechstore.com Website: www.industrytechstore.com

