



Features

- Complies with UL 1449 and IEC/EN 61643-11 standards
- UL recognized Type 4, Type 2 location SPD, passed short circuit current rating (SCCR) 200 kA without external fuse or CB
- High reliability protected MOV with Advanced Thermal Disconnecter (TD+)
- Large surge energy capability up to 50 kA per mode
- Pluggable module for easy replacement

1250A Series General Duty AC Surge Protective Device

General Information

The Bourns® Model 1250A 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 1250A Series can be configured for both common mode and differential mode protection, in single and three phase applications.

Additional Information

Click these links for more information:



Electrical Characteristics

Characteristic	Model No.						
	1250A-xS-120	1250A-xS-230	1250A-xS-277	1250A-xS-400	1250A-xS-480	1250A-xS-600	
AC Network	120 / 240 V 120 / 208 V	220 / 380 V 230 / 400 V	240 / 415 V 277 / 480 V	277 / 480 V 347 / 600 V	347 / 600 V 480 V (Delta)	600 V (Delta)	
Compliance	UL1449; EN/IEC 61643-11						
Category UL/EN/IEC	Type 4, Type 2 location / T2 / Class II						
Product Technologies	High energy MOV Technology Advanced Thermal Disconnecter (TD+)						
Connection Mode	1-Pole, L-N or L-G or N-PE						
AC System	IT, TT, TN, Single, Split Phase, Delta, Wye						
Max. Operating Voltage (MCOV)	150 V	275 V	320 V	420 V	550 V	690 V	
Leakage Current at Uc	< 1 mA						
Follow Current	None						
UL 1449	Nominal Discharge Current 8/20 μ s (In)	20 kA					
	Max. Discharge Current (Imax) 1 Impulse 8/20 μ s	50 kA				40 kA	
	Voltage Protection Rating (VPR)	≤ 0.7 kV	≤ 1.0 kV	≤ 1.2 kV	≤ 1.5 kV	≤ 1.8 kV	≤ 2.5 kV
	Short-Circuit Current Rating (SCCR)	200 kA _{rms}					
EN/IEC 61643-11	Nominal Discharge Current 8/20 μ s (In)	20 kA			n/a		
	Max. Discharge Current (Imax) 1 Impulse 8/20 μ s	40 kA			n/a		
	Protection Level (Up)	≤ 0.8 kV	≤ 1.4 kV	≤ 1.5 kV	n/a		
	Short-Circuit Current Rating (SC)	10 kA _{rms}			n/a		

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Actual product may differ from image shown.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Applications

- Electrical service entrance
- Branch panels
- All power circuits
- Heavy industrial
- EV charging stations

1250A Series General Duty AC Surge Protective Device

BOURNS®

General Characteristics

Characteristic	Model No.					
	1250A-xS-120	1250A-xS-230	1250A-xS-277	1250A-xS-400	1250A-xS-480	1250A-xS-600
Thermal Disconnect	UL 60691					
Overcurrent Protection	Time Delay - 125 A Max.					
Connection	By Screw Terminal: Single-strand #2 AWG or 35 mm ² ; multi-strand #4 AWG or 25 mm ²					
Dimensions	See Product Dimensions					
Mounting	DIN Rail, 35 mm Symmetrical					
Remote Signal Indicator	250 VAC Max., 0.5 A					
Enclosure Material	Thermoplastic UL 94V0					

Environmental Characteristics

Characteristic	Model No.					
	1250A-xS-120	1250A-xS-230	1250A-xS-277	1250A-xS-400	1250A-xS-480	1250A-xS-600
Operating Temperature	-40 °C to +85 °C					
Operating Altitude	≤ 2000 m					
Relative Humidity	5 to 95 % Non-condensing					
Environmental Rating	IP 20					

Standards Compliance

IEC/EN 61643-11..... Class II , Type 2
 UL1449 Type 4, Type 2 location
 CSA C22.2..... Type 4, Type 2 location
 IEEE C62.41
 RoHS..... RoHS Directive 2015/863, Mar 31, 2015 and Annex

Agency Recognition

Agency	Category	Agency File No.
	UL1449 - 5th Ed.	E313168

How to Order

1250A - x S - xxx

Model Designator _____
 1250A = Advanced Version of 1250 Series

Configuration (number of poles) _____
 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, 230/400 V
 277 = 240/415 V, 277/480 V
 400 = 277/480 V, 347/600 V
 480 = 347/600 V, 480 V (Delta)
 600 = 600 V (Delta)

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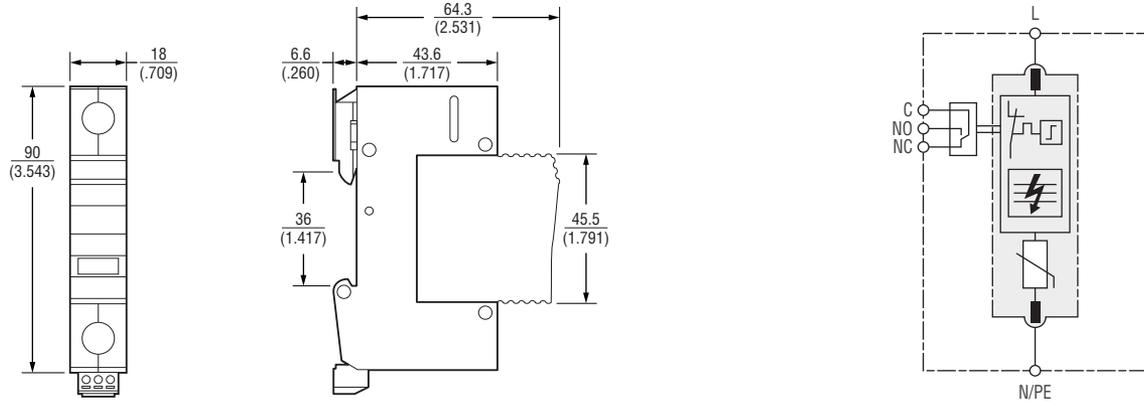
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1250A Series General Duty AC Surge Protective Device

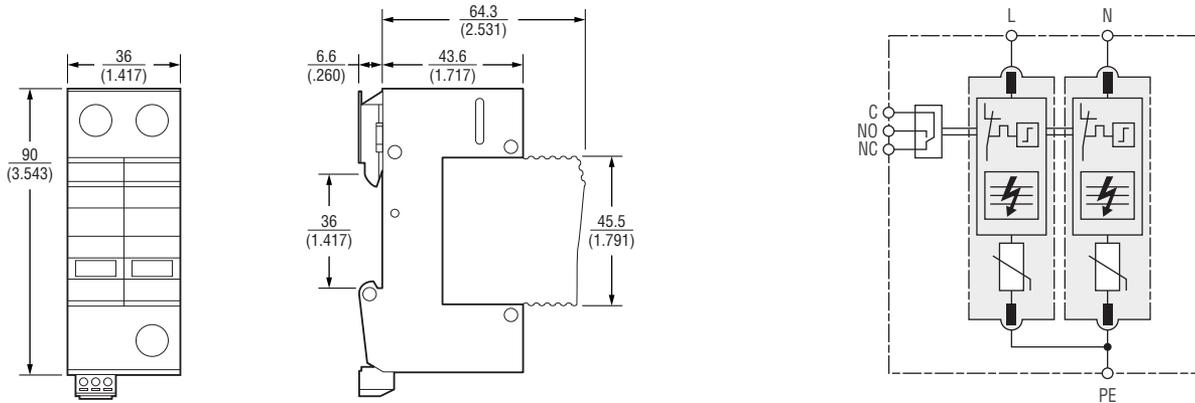
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Product Dimensions and Schematics

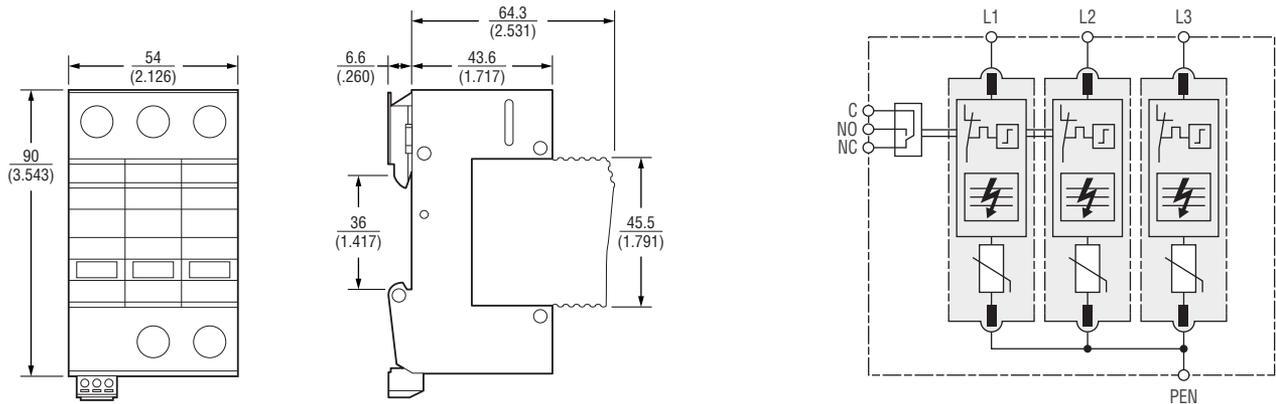
1P



2P



3P



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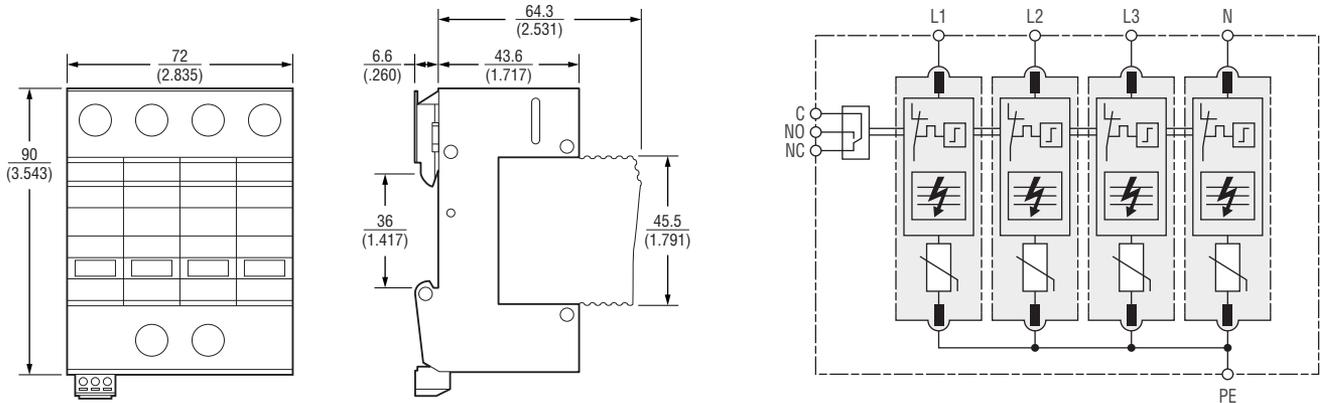
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1250A Series General Duty AC Surge Protective Device

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Product Dimensions and Schematics

4P



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