

## Features

- IEC/EN 61643-11 compliant Class I + Class II / T1+T2 SPD
- High reliability protected MOV with Thermal Disconnect
- Large surge energy capability up to 100 kA per mode
- Pluggable module for easy replacement
- High short-circuit current rating up to 50 kA<sub>rms</sub>
- Impulse current capacity up to 25 kA 10/350 μs

## 1260 Series AC Hybrid Surge Protective Device

### General Information

The Bourns® Model 1260 Series is an AC Hybrid Surge Protective Device (SPD) designed to protect high-risk electrical service entrance and branch panels. Based on its advanced hybrid architecture (MOV + GDT technology), this series can provide excellent reliability and safety protection due to no leakage or follow current.

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).

### Additional Information

Click these links for more information:



### Electrical Characteristics

Characteristic	Model No.								
	1260-xS-120	1260-xS-127	1260-xS-230	1260-xS-277	1260-xS-400	1260-xS-480	1260-xS-690		
AC Network	120 / 240 V 120 / 208 V	120 / 208 V 127 / 220 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)	690 V (Delta)		
Compliance	IEC/EN 61643-11								
Category IEC/EN	Class I + Class II / T1 + T2								
Product Technologies	High energy MOV Technology; MG Technology: MOV + GDT Thermal Disconnect								
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 (U <sub>c</sub> )	150 V	180 V	275 V	350 V	440 V	600 V	750 V		
Leakage Current at U <sub>c</sub>	MOV Technology	< 0.1 mA							
	MG Technology	None							
Follow Current	None								
IEC/EN 61643-11	Nominal Discharge Current 8/20 μs (I <sub>n</sub> )	25 kA							
	Max. Discharge Current (I <sub>max</sub> ) 1 Impulse 8/20 μs	100 kA							
	Impulse Discharge Current (I <sub>imp</sub> ) 10/350 μs	25 kA			22 kA	15 kA	12.5 kA		
	Protection Level (U <sub>p</sub> )	MOV Technology	≤ 0.8 kV	≤ 1.0 kV	≤ 1.2 kV	≤ 1.5 kV	≤ 2.0 kV	≤ 2.5 kV	≤ 2.8 kV
		MG Technology	≤ 0.7 kV	≤ 0.8 kV	≤ 1.0 kV	≤ 1.4 kV	≤ 1.8 kV	≤ 2.2 kV	≤ 2.5 kV
Short-Circuit Current Rating (I <sub>sc</sub> )	50 kArms								

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

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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

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### General Characteristics

Characteristic	Model No.						
	1260-xS-120	1260-xS-127	1260-xS-230	1260-xS-277	1260-xS-400	1260-xS-480	1260-xS-690
Thermal Disconnect	UL 60691						
Overcurrent Protection	Time Delay - 315 A Max.						
Connection	By Screw Terminal: Single-strand #2 AWG or 35 mm <sup>2</sup> ; multi-strand #4 AWG or 25 mm <sup>2</sup>						
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.						
	1260-xS-120	1260-xS-127	1260-xS-230	1260-xS-277	1260-xS-400	1260-xS-480	1260-xS-690
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 I + Class II, T1 + T2  
 RoHS..... RoHS Directive 2015/863, Mar 31, 2015 and Annex

### Agency Recognition

Agency	Category	Agency File No.
	IEC/EN 61643-11	<a href="#">B118437</a>

### How to Order

**1260 - x (N) S (MG) - xxx**

Model Designator \_\_\_\_\_  
 1260 = AC Hybrid SPD

Configuration (number of poles) \_\_\_\_\_  
 1 = One Protected Pole  
 2 = Two Protected Poles  
 3 = Three Protected Poles  
 4 = Four Protected Poles

Neutral or Ground Option \_\_\_\_\_  
 N = N-PE Protected with GDT

Remote Signaling Code \_\_\_\_\_  
 S = Remote Signaling

Protection Technology \_\_\_\_\_  
 (blank) = MOV  
 MG = MOV + GDT

Operating Voltage \_\_\_\_\_  
 120 = 120/240 V, 120/208 V  
 127 = 120/208 V, 127/220 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)  
 690 = 690 V (Delta)

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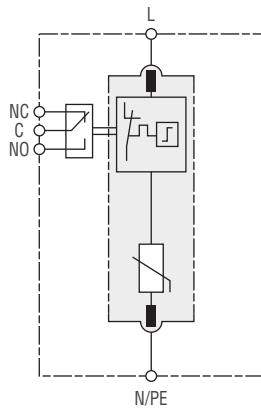
# 1260 Series AC Hybrid Surge Protective Device

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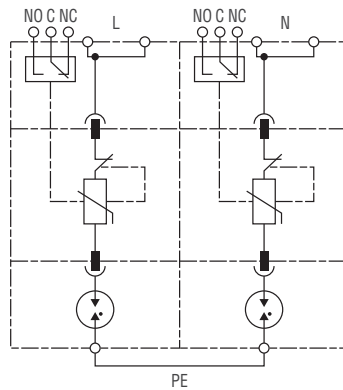
## Product Schematics

### MOV Technology

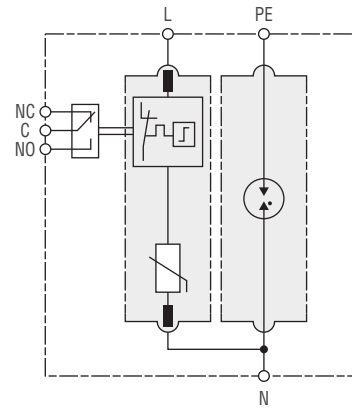
**1P**



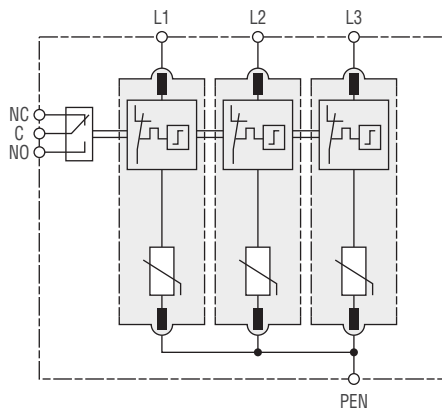
**2P (2+0)**



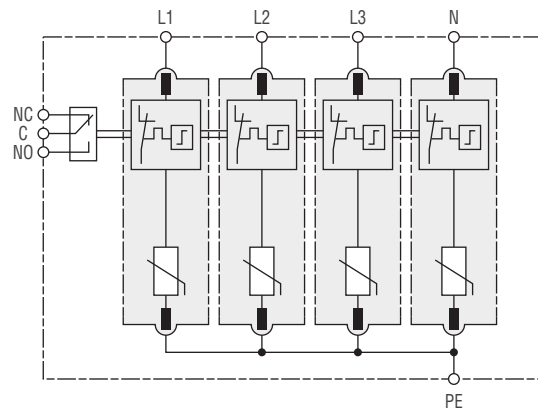
**2P (1+1)**



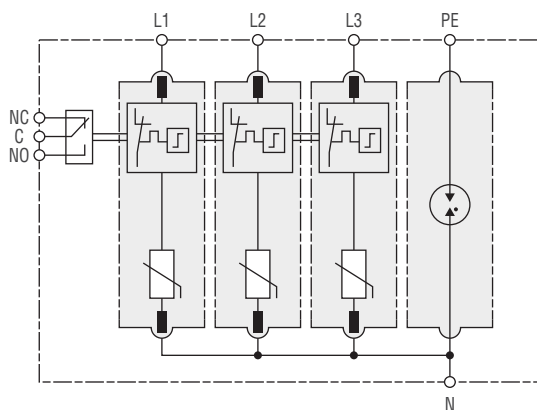
**3P**



**4P (4+0)**



**4P (3+1)**



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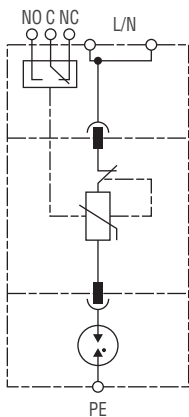
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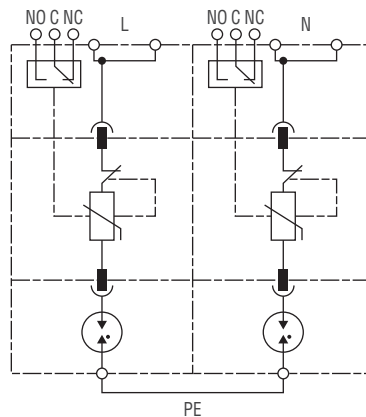
## Product Schematics (continued)

### MG Technology

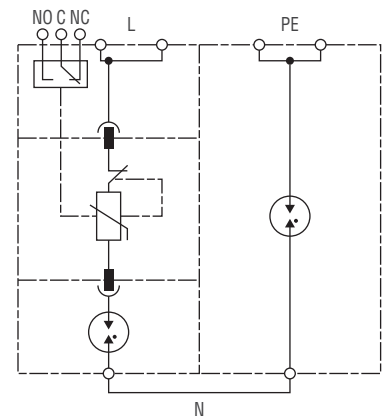
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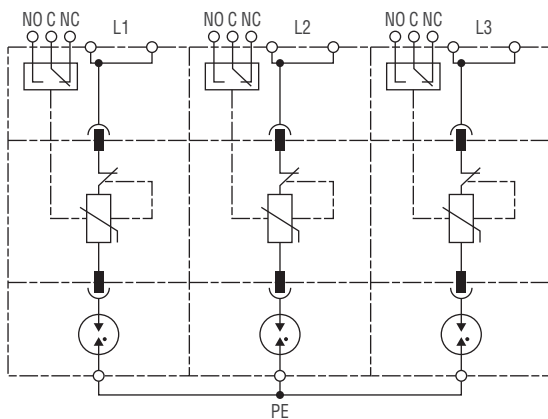
2P (2+0)



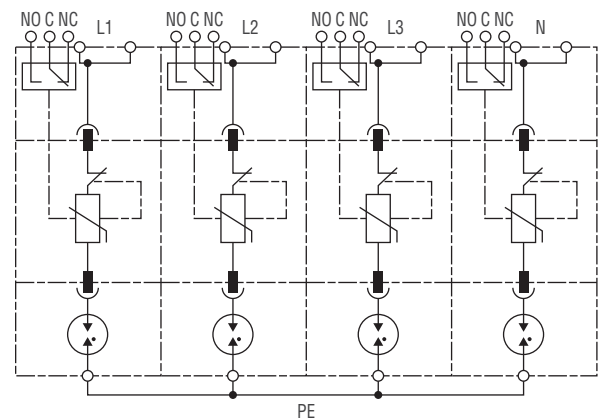
2P (1+1)



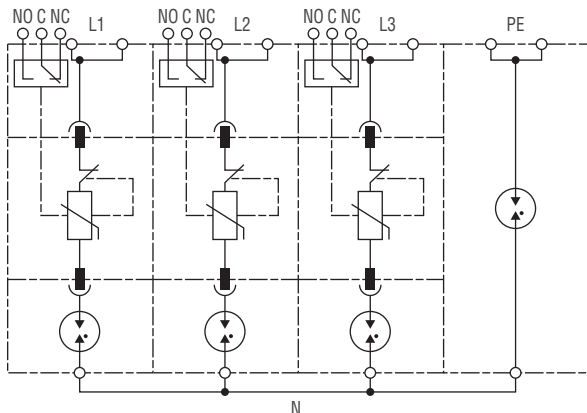
3P



4P (4+0)



4P (3+1)



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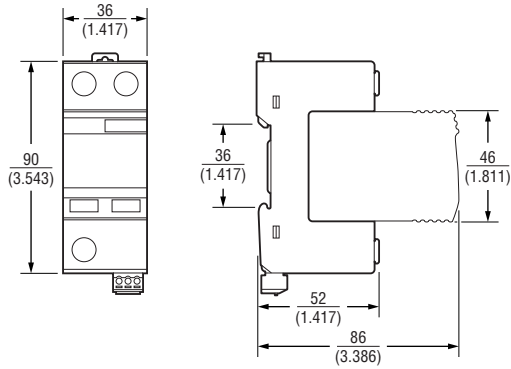
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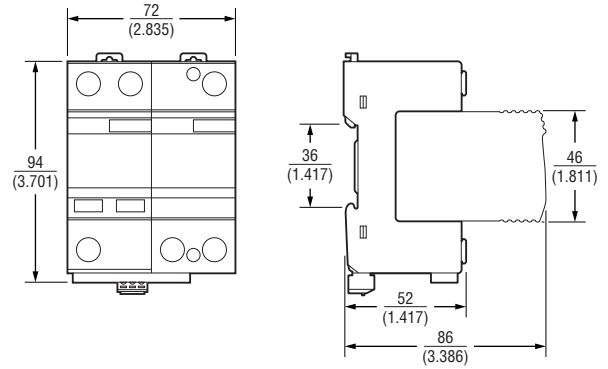
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## Product Dimensions

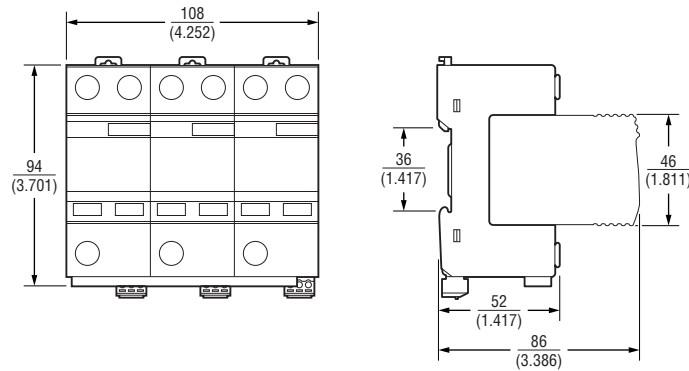
1P



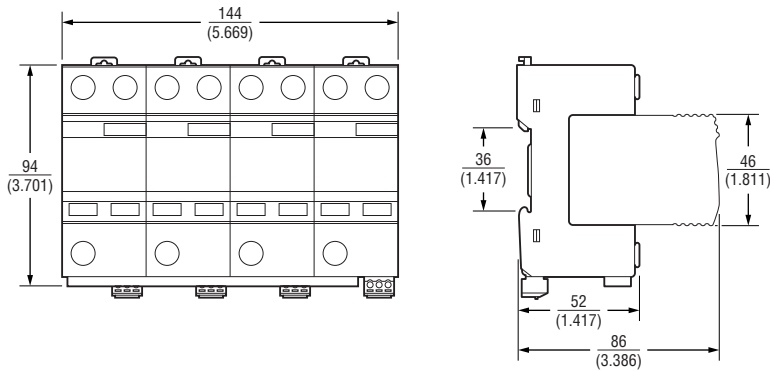
2P



3P



4P



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

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