

### **Features**

- IEC/EN 61643-11 compliant Class I + Class II / T1+T2 SPD
- High reliability protected MOV with Thermal Disconnector
- 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:









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SAMPLES .

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#### **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 Disconnector							
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	MOV Technology		< 0.1 mA						
Current at U <sub>c</sub> MG Technology		/	None						
Follow Current		None							
	Nominal Discharge Current 8/20 μs (I <sub>n</sub> )		25 kA						
IEC/EN 61643-11	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							

### **Applications**

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

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### **BOURNS**

### **General Characteristics**

Characteristic	Model No.							
Characteristic	1260-xS-120	1260-xS-127	1260-xS-230	1260-xS-277	1260-xS-400	1260-xS-480	1260-xS-690	
Thermal Disconnector	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.							
Characteristic	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**

### **Agency Recognition**

Agency	Category	Agency File No.
TUV	IEC/EN 61643-11	<u>B118437</u>

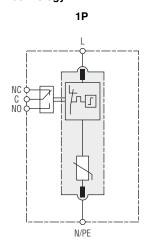
### **How to Order** 1260 - x (N) S (MG) - xxx Model Designator -1260 = AC Hybrid SPD Configuration (number of poles) 1 = One Protected Pole 2 = Two Protected Poles 3 = Three Protected Poles 4 = Four Protected Poles Neutral or Ground Option N = N-PE Protected with GDT Remote Signaling Code S = Remote Signaling Protection Technology (blank) = MOV $\dot{M}G = \dot{M}OV + GDT$ 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)

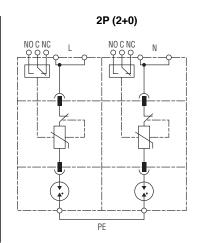
# 1260 Series AC Hybrid Surge Protective Device

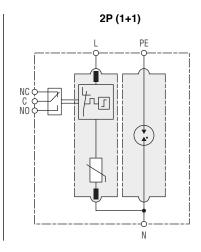
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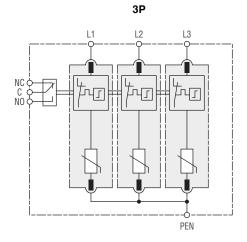
### **Product Schematics**

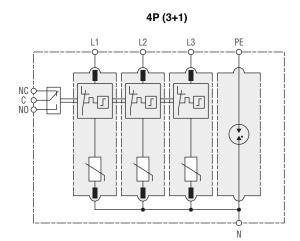
### **MOV Technology**

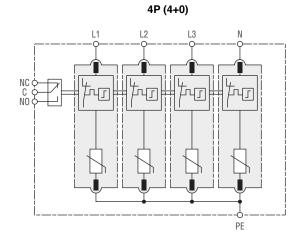












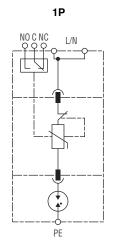
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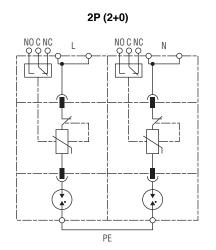
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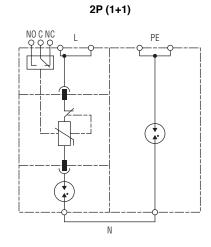
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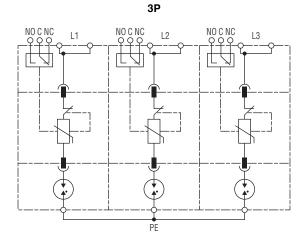
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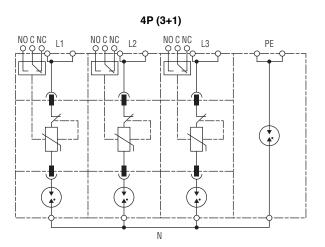
#### **MG Technology**

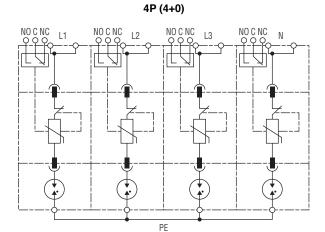












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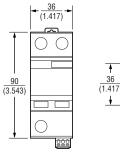
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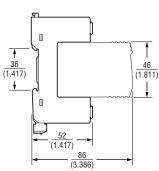
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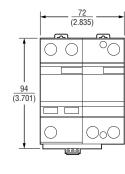
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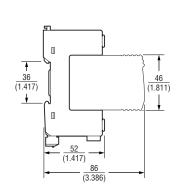
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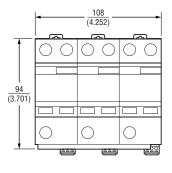


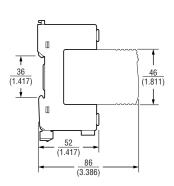
2P



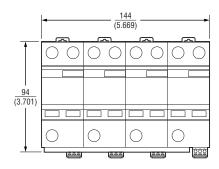


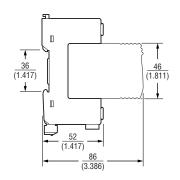
3P





4P





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

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