

NEW PRODUCT BRIEF

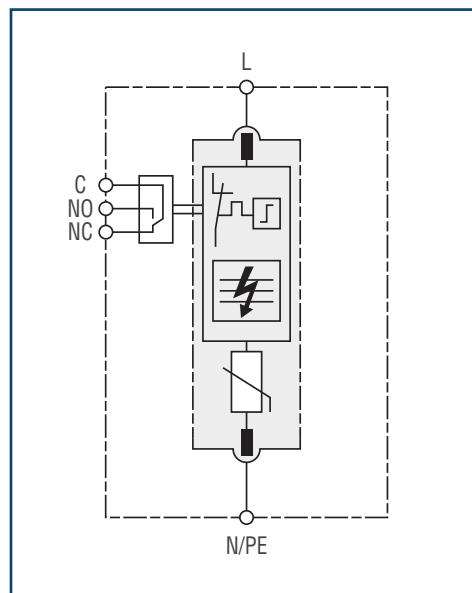


Bourns® Model 1280 Series IEC Class II AC Surge Protective Devices

INTRODUCTION

The Bourns® Model 1280 Series is a new family of IEC Class II Din-Rail AC Surge Protective Devices (SPDs) with pluggable/replaceable modules. These models are IEC/EN 61643-11 compliant Class I + Class II / T1+T2 devices, which are intended to be installed in the area of the branch panels, close to sensitive terminals, or in installations without LPS (Lightning Protection Systems, a.k.a. lightning rods). These models are IEC/EN 61643-11 compliant Class I + Class II / T1+T2 SPDs.

CIRCUIT DIAGRAM



APPLICATIONS

- Branch panels
- All power circuits
- EV charging stations

MORE INFORMATION

- AC Power SPDs: [Model 1270 Series SPD](#)
- DC Power SPDs: [Model 1430 Series SPD](#)
- DC Power SPDs: [Model 1440 Series SPD](#)
- [High-energy MOVs](#)
- [High-current GDTs](#)
- [Power TVS Diodes](#)

FEATURES

- IEC/EN 61643-11 compliant Class I + Class II / T1+T2 SPD
- High reliability MOV protection with Advanced Thermal Disconnecter (TD+)
- Large surge energy capability up to 50 kA per mode
- Pluggable module for easy replacement
- High short-circuit current rating up to 25 kA_{rms}
- Impulse current capacity up to 7.5 kA 10/350 µs
- RoHS compliant*

UNIQUE CONSTRUCTION

Over time, sustained abnormal overvoltage high-energy surges can cause SPDs and/or MOVs to go into thermal runaway, resulting in overheating that can potentially lead to a fire hazard. Bourns® Model 1280 SPDs feature an Advanced Thermal Disconnecter (TD+) for enhanced protection that eliminates the need for upstream overcurrent protection. This series also features a window fault indicator and remote alarm to help monitor the operating status of the surge protector.

HOW TO ORDER

Model Designator **1280 - x (N) S - xxx**

1280 = IEC Class II AC 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

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)

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

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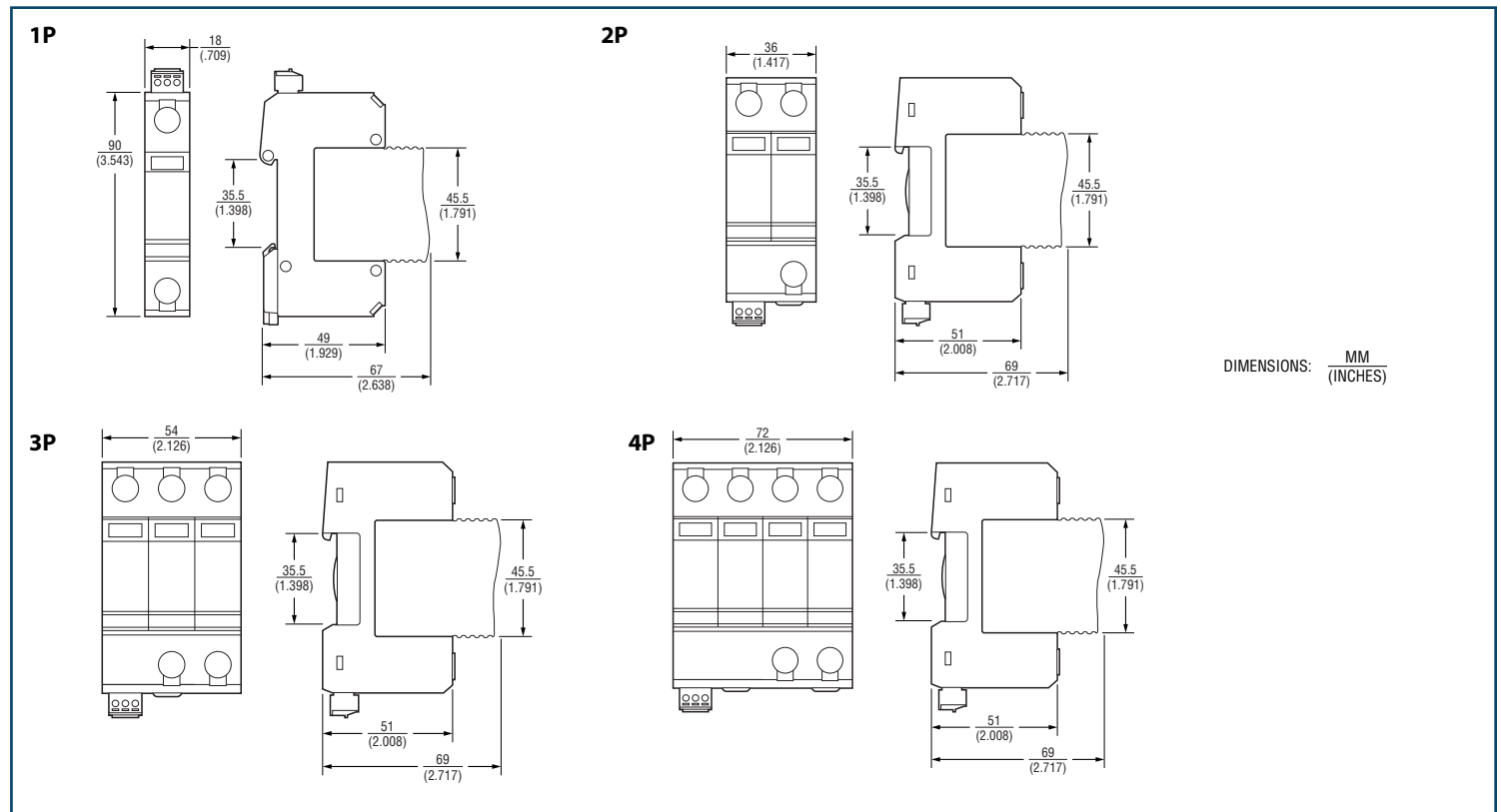
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ELECTRICAL CHARACTERISTICS

Series	Product Technologies	Connection Mode	AC System	AC Network	Max. Operating Voltage (U _c)	IEC/EN Category	Compliance
1280-xS-120	High Energy MOV Technology	1-Pole, L-N or L-G or N-PE	IT, TT, TN, Single, Split-phase, Delta, Wye	120 / 240 V	150 V	Class I + Class II / T1 + T2	IEC/EN 61643-11
1280-xS-127				120 / 208 V	180 V		
1280-xS-230	127 / 220 V			275 V			
1280-xS-277	Advanced Thermal Disconnecter (TD+)			220 / 380 V	350 V		
1280-xS-400				230 / 400 V	440 V		
1280-xS-480				240 / 415 V	600 V		
1280-xS-690				277 / 480 V	750 V		
				480 V (Delta)			
				690 V (Delta)			

For full characteristics, see data sheet

PRODUCT DIMENSIONS



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