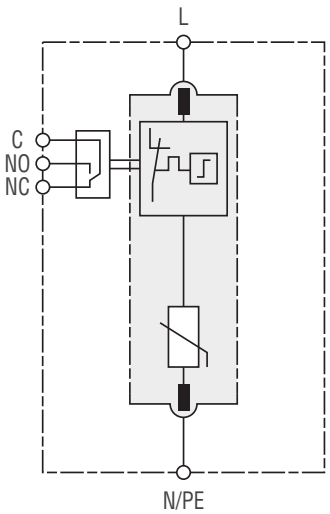
NEW PRODUCT BRIEF

Bourns® Model 1270 Series IEC Class I AC Surge Protective Devices

INTRODUCTION

The Bourns® Model 1270 Series is a new IEC Class I AC Surge Protective Device (SPD) family. This series of Din-Rail AC SPDs with pluggable/replaceable modules is intended to be installed on the load side at the front end of the installation in the main switchboard, and positioned close to sensitive terminals or installations with 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

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

MORE INFORMATION

- AC Power SPDs: Model 1280 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
- Fast-responding MOV protection with Thermal Disconnector enabling high reliability
- Large surge energy capability up to 80 kA per mode
- Pluggable module for easy replacement
- High short-circuit current rating up to 50 kA_{rms}
- Impulse current capacity up to 12.5 kA 10/350 µs

BENEFITS

Bourns® Model 1270 Series SPDs address the risk of thermal runaway due to sustained overvoltage and surge conditions, which can lead to overheating and potential fire hazards. Designed with thermal disconnector, these devices provide additional safety by automatically disconnecting in extreme surge conditions. The series also features a window fault indicator and remote alarm, to help facilitate prompt monitoring and action, safeguarding electrical systems.

HOW TO ORDER

1270 - x (N) S - xxx

Model Designator
- 1270 = IEC Class I 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)

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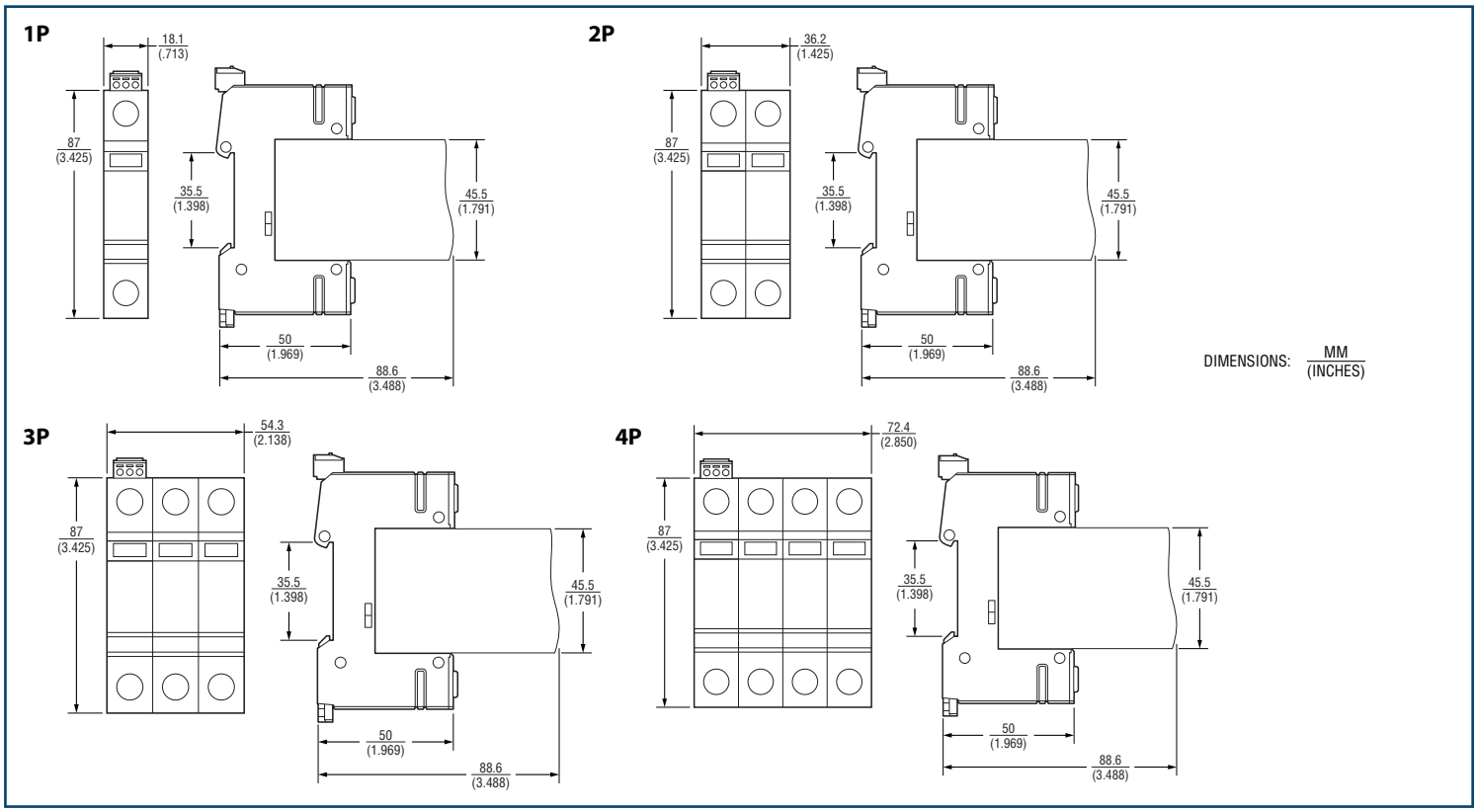
ELECTRICAL CHARACTERISTICS

Series	Product Technologies	Connection Mode	AC System	AC Network	Max. Operating Voltage (U_c)	IEC/EN Category	Compliance
1270-xS-120	High Energy MOV Technology Thermal Disconnector	1-Pole, L-N or L-G or N-PE	IT, TT, TN, Single, Split-phase,, Delta, Wye	120 / 240 V 120 / 208 V	150 V	Class I + Class II / T1 + T2	IEC/EN 61643-11
1270-xS-127				120 / 208 V 127 / 220 V	180 V		
1270-xS-230				220 / 380 V 230 / 400 V	275 V		
1270-xS-277				240 / 415 V 277 / 480 V	350 V		
1270-xS-400				277 / 480 V 347 / 600 v	440 V		
1270-xS-480				347 / 600 V 480 V (Delta)	600 V		
1270-xS-690				690 V (Delta)	750 V		

For full characteristics, see data sheet

PRODUCT DIMENSIONS



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