

Bourns® Model 1220 Series Thermally Protected MOV (TPMOV) Surge Protective Devices

INTRODUCTION

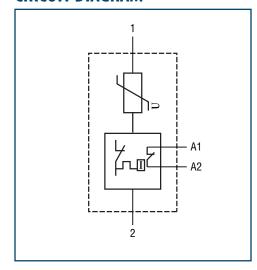
Bourns further expands its thermal protection Surge Protective Device (SPD) family with the release of its Model 1220 Series. This new SPD is a PCB mountable TPMOV that provides surge suppression with thermal protection. It is designed to open in the event of overheating due to an abnormal overvoltage or Temporary Overvoltage (TOV) condition and will interrupt any abnormal current that may be encountered, within rated limits.

The Model 1220 Series is a general duty TPMOV SPD with a maximum discharge current rating of 75 kA (8/20 µs). This series is UL recognized and complies with UL 1449 and IEC/EN 61643-11 standards.

FEATURES

- Complies with UL 1449 and IEC/EN 61643-11 standards
- UL recognized Type 4, Type 2 location SPD, passed 200 kA short circuit current rating (SCCR)
- High reliability protected MOV with Advanced Thermal Disconnector (TD+)
- · Compact size saves installation space
- PCB mountable design, compatible with reflow and wave soldering procedures

CIRCUIT DIAGRAM



APPLICATIONS

- Surge protective devices
- · AC/DC distribution
- · All power circuits
- · Telecommunication
- Built-in surge protection of electronic equipment

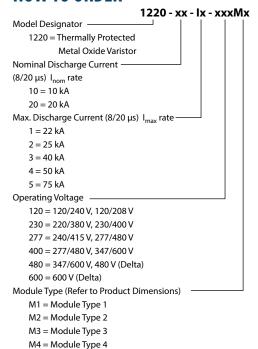
MORE INFORMATION

- AC Power SPDs: Model 1250A Series SPD
- DC Power SPDs: Model 1420A Series SPD
- High-energy MOVs
- High-current GDTs
- Power TVS Diodes

BENEFITS

- Thermal Protection Mechanism: The builtin thermal element in a TPMOV monitors the device's temperature. If the device experiences prolonged high-energy surges causing excessive heating, the thermal element activates.
- Temporary Disconnection: When the thermal element activates, the TPMOV temporarily disconnects itself from the circuit. This prevents sustained overheating and potential thermal runaway, enhancing the safety and reliability of the surge protection.

HOW TO ORDER



NEW PRODUCT BRIEF

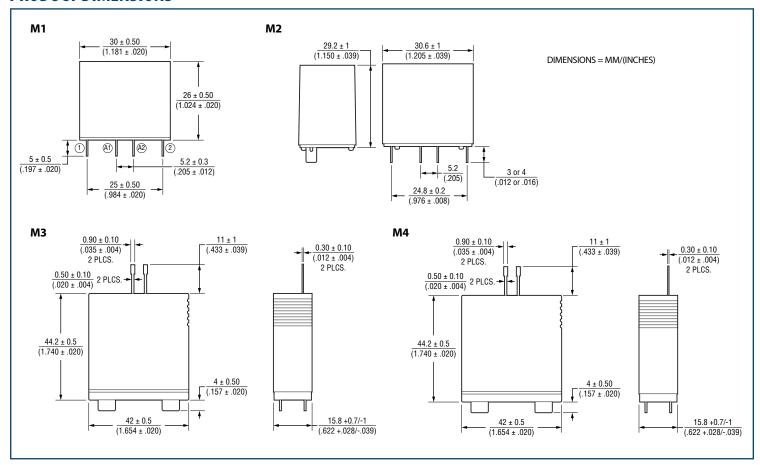
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ELECTRICAL CHARACTERISTICS

Series	Product Technologies	Connection Mode	AC System	Nominal System Voltage	Max. Operating Voltage (U _c)	UL Category	Compliance
1220-10-xx-xxxM1	High Energy MOV Technology Advanced Thermal Disconnector (TD+)	1-Pole, L-N or L-G or N-PE	IT, TT, TN, Single, Split Phase, Delta, Wye	120V, 277V, 347V, 480V, 600V	150 V, 320 V, 420 V 550 V, 690 V	Type 4, Type 2 Location	UL 1449
1220-20-xx-xxxM2				120 V, 277 V, 347 V, 480 V	150 V, 320 V 420 V, 550 V		
1220-20-xx-xxxM3				120 V, 230 V, 277 V, 347 V, 480 V, 600 V	150V, 275 V, 320 V, 420 V, 550 V, 690 V		
1220-20-xx-xxxM4				120 V, 230 V, 277 V	150 V, 275 V, 320 V		

For full characteristics, see data sheet

PRODUCT DIMENSIONS



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