

Eaton features a broad variety of Bussmann™ series circuit protection products spanning overcurrent protection (including one-time fuses, accompanying fuse accessories and PPTC resettable devices) and overvoltage protection components (ESD suppressors, varistors and TVS diodes). With over 100 years of circuit protection expertise, Eaton is committed to designing and manufacturing the most innovative portfolio of circuit protection products for numerous applications including industrial, automotive, energy management, computing, medical and consumer products.

## Overcurrent

### Cartridge fuses



- Available in ¼ inch, 5 mm and 3 mm
- Vast product offerings in UL and IEC designs
- Available with axial leads
- Fast-acting and time-delay performance options
- High voltage, 600 Vac/dc, ratings with high interrupting rating capability

### xEV fuses



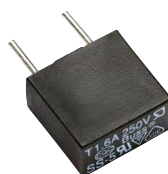
- More compact footprints compared to other 10- and 14-mm cartridge fuse diameters
- High voltage ratings within the 6, 10, and 14-mm diameters; up to 1000 V
- Multiple termination styles with cartridge, bolt down, and PCB
- Allows ease of integrating fuses in customer applications

### Fuse holders, clips, blocks



- Printed Circuit Board (PCB) fuseclips
- In-line fuseholders
- Panel-mount fuseholders
- Fuse blocks for both ¼ inch & 5 mm
- High voltage options, up to 600 V
- Ingress protection options up to IP67

### Radial fuses



- Rectangular and cylindrical body styles that offer industry standard landing patterns
- Protects in primary and secondary circuits
- Both UL and IEC performance characteristics both body styles
- Voltage ratings up to 350 Vac and 450 Vdc

### Surface mount (SMD) fuses



- Footprints from 1.6 mm x 0.8 mm to 13 mm x 5 mm
- High voltage options available up to 350 Vac / 600 Vdc
- Nominal current ratings up to 100 A
- Provides excellent cycling performance
- Both time delay and fast acting performance
- AEC-Q200 qualified families available

### PTC resettable fuses



- Radial and surface mount product types
- Device "resets" after fault is cleared to offer protection against multiple overcurrent events
- High temperature capability offered (+125 °C)
- Low resistance technology improves energy efficiency

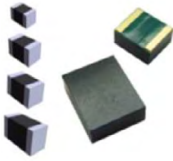
### Inrush current limiters



- Epoxy sealed radial lead NTC thermistor
- High rated power, low power consumption
- 5 to 30 millimeter disk type
- Resistance range 0.5 Ω to 120 Ω
- Non-linear change in resistance vs temperature

## Overvoltage

### Surface mount (SMD) varistors - MLV & MOV



- Multiple footprints from 0402 to 4032 EIA
- Provides protection from ESD up to induced lightning
- Working voltages from 5.5 Vdc to 670 Vdc and 4 Vac to 510 Vac
- Peak surge current ratings up to 1200 A
- AEC-Q200 qualified MLVs available

### TVS diodes



- Operating voltage ratings up to 450 Vdc
- Industry common radial and SMD footprints
- Uni-direction and bi-directional options
- High power options available (up to 10 kA surge current protection)
- AEC-Q101 qualified families available with up to ISO 16750 5a & 5b load dump ratings

### Through-hole varistors - MOV



- Radial devices offer combined thermal element and MOV for integrated protection
- Broad operating voltage range
- Provides up to 10 kA I<sub>max</sub> surge current rating
- Indication offered in both disc sizes
- UL 1449 certifications

### TVS diodes - ESD suppressors



- Discrete and multi-signal packages
- Ultra compact package sizes down to DFN0603 and 0201 EIA
- Ultra low capacitance, down to 0.15 pF
- Uni-directional and bi-directional protection
- Array configurations offered that are ideally suited for common I/O interfaces

### Polysurg™ ESD suppressors



- Ultra-low capacitance (0.05 pF) ideal for latest high-speed data circuits
- Very fast response time, within 1 ns
- Single-line and array options
- Inherent bi-directional performance
- AEC-Q200 qualified families available