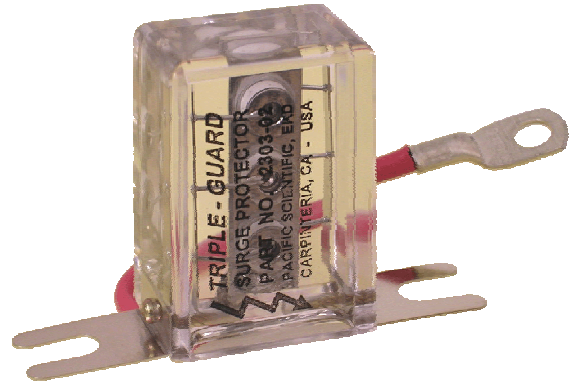


Data Sheet

**TRIPLE-GUARD[®] SURGE PROTECTOR
 MODEL 2303-02**

- Robust, long life, withstands very large surge currents.
- Precise, balanced protection even on transverse surges providing excellent differential protection to delicate loads.
- One Triple-Guard replaces 3 conventional 2-pole protectors.
- Principal use is on railroad track or pole line signaling and communication circuits, detector circuits, ACI and CTC systems, track overlay circuits and fire alarm systems. The protector terminals mate to AAR mounting block with 2-3/8" centers.
- Hermetically sealed arrester cartridges. The protection circuit is fully encapsulated in transparent RTV.



- System Voltage and Short Circuit Current

13 Vdc	50 Amps
26 Vdc	50 Amps
32 Vdc	30 Amps
160 Vdc	.5 Amps
260 Vdc	.2 Amps

- DC Sparkover, 100 V/s

250 - 375 Vdc

- Impulse Sparkover, 500 V/μs
 10 kV/μs

<650 Vpk
 <850 Vpk

- Impulse Transverse Delay, 500 V/μs

<75 ns

- Clamping Voltage, 1A - 50 kA

<30 Vpk

- Insulation Resistance, 100 Vdc

>10⁹ Ω

- Surge Life, 50 kA - 8/20 μs
 10 kA - 8/20 μs

>5 Operations
 >500 Operations

- Operating Environment

-55 to 175 °F, 95% RH Condensing

