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"Power Quality is our Business"

The ST-RSE1P2 is a general use surge suppressor designed for Single Phase 220 Volt AC service disconnects, service entrance panels and sub panels. This model utilizes standard suppression components designed to maximize performance, life span, and safety. Individual suppression component level thermal fusing maximizes safety, while allowing the product to perform with optimal results.

The small size of this product allows maximum application flexibility and ease of installation by a licensed electrician. The product also features circuit status indication through a normally on, suppression good LED. The product provides premium protection for residential and light commercial panel loads. When combined with other protection products such as point-of use, telephone and cable protection, these products provide a complete system, best practice, approach to surge protection.

We believe that we offer the most versatile TVSS devices on the market with performance specs that are superior to our competitors and a warranty that is second to none.



GENERAL

| | |
|------------------------------------|---|
| Description: | Parallel connected, fixed clamping type, transient voltage surge suppressor utilizing encapsulated Optimal Response Network™ circuitry, which provides for low Let-Through Voltages. |
| Application: | Designed for use at ANSI/IEEE location categories C, B and A exposure levels. Designed to protect all types of loads fed from disconnects, service entrance panels, and sub-panels. |
| Manufacturer Qualification: | ISO-9001 |
| Warranty: | 25 Years Unlimited Free Replacement |

MECHANICAL

| | |
|---------------------------|---|
| Enclosure: | ABS Plastic, UL94-5VA (UL's Best Plastic Flame Rating) |
| Mounting: | Conduit fitting (internally threaded) and external mounting feet. |
| Connection Method: | #10 stranded wire. |
| Shipping Weight: | < 3lbs |

ELECTRICAL

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|-------------------------------|--|
| Circuit Design: | Parallel configured, individual component and phase level fused, threshold clamping design, circuit encapsulation to maintain circuit integrity. |
| Protection Modes: | Dedicated protection components and circuitry for each mode. Discrete L-N (Normal Mode), and Discrete L-G, N-G (Common Mode). |
| Input Power Frequency: | 50-420Hz (60Hz typical) |
| Response Time: | <1 nanosecond |
| Circuit Diagnostics: | Super Bright LED, 1 per phase, normally on. |
| Circuit Interrupt: | External (see installation instructions for details). |

Transient Voltage
Surge Suppressors By:

AC Panel Unit

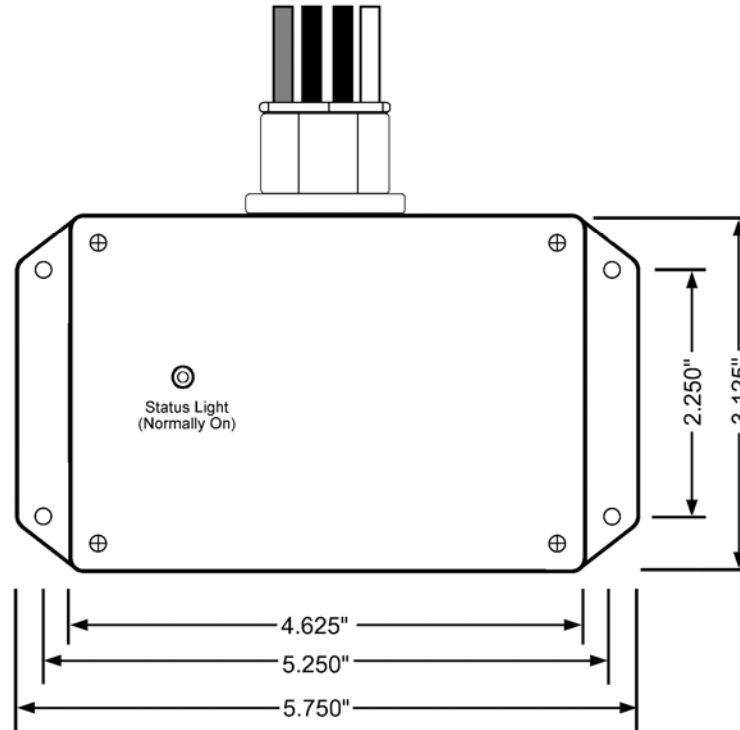
ST-RSE1P2

Dedicated Protection Components And Circuitry For Each Mode



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| MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS | | | | | |
|---|-------------------------------------|-------------------------------|---|-------------------|--|
| Model | Circuit Type | MCOV | Peak Surge Current (Amps) | Mode | Impulse Wave 6000V, 500A 90° Phase Angle |
| ST-RSE1P2 | 240V, Single Ø (2 wire + ground) | 300 L-N 300 L-G 300 N-G | 40,000 L-N 40,000 L-G 40,000 N-G 120,000 Total | L-N L-G N-G | < 930 < 930 < 930 |

Let-Through Voltage Test Environment using test parameters as defined by Underwriters Laboratory: Dynamic (D) or Static (S), Positive Polarity. Time base=10µs. All voltages are peak (±10%), 90° phase angle voltages are measured from the zero crossing to the peak of the surge. All tests were performed with 6 inches of lead length outside the device enclosure which simulates actual "as installed" performance.

Single-pulse, surge current capacities of 200,000 amps or less are determined by single-unit testing of all components within each mode. Present industry test equipment limitations require testing of individual components or sub-assemblies within a mode for single-pulse, surge current capacities over 200,000 amps.

Because we are constantly seeking to improve our products, specifications are subject to change at any time.