

Surge Protective Device

RSE Series 2

Features

- 50kA – 200kA per mode
- UL 1449 Listed
- Stacked MOV Design
- Low Voltage Protection Ratings
- 20kA I-nominal Ratings
- 200kA SCCRs
- Advanced TOV/Surge Counter w/ time & date stamping
- 10 Year Standard Warranty



Product Specifications

General Specifications

| | |
|--------------------------------------|------------------------------|
| Maximum Surge Current Rating Range | 50kA - 200kA Per Mode |
| UL Type Designation | Type 1 & Type 2 w/ Filtering |
| UL 1449 I-nominal Rating | 20kA |
| UL 1449 Short Circuit Current Rating | 200kA |
| Repetitive Impulse | 10,000 hits per mode |
| Response Time | <1 ns |
| EMI/RFI Filtering | -50dB from 10kHz to 100MHz |

Design Specifications

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|---|
| Stacked MOV design for High Energy Handling in Category C locations |
| Distribution Grade 34mm Thermally Protected MOVs |
| External Parallel Connected for Mounting next to Electrical Gear |
| All Modes of Protection (L-N, L-G, N-G, L-L) |

Diagnostic Monitoring Specifications

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|---|
| 2 Tri-Color LEDs per phase (Standard) |
| Audible Alarm (Standard) |
| Form C Dry Contact, 240V, 5A (Standard) |
| PIC Micro Controller w/ rotatable Graphics LCD (Optional) |
| Surge/TOV Counter w/ Time & Date stamp (Optional) |
| Push to Test Function (Optional) |

Physical Specifications

| | |
|-----------------------|----------------------------------|
| Humidity Range | 0-95% non-condensing |
| Operating Frequency | 0-600Hz |
| Operating Temperature | -25°C to +75°C |
| Enclosure Type | NEMA 4 |
| Typical Connection | #10 AWG (pre-wired) 30 A breaker |

UL 1449 Performance Data

| System Voltage | L-N | L-G | N-G | L-L | SCCR | MCOV |
|-------------------|------|------|------|------|-------|---------|
| 240/120V Split Ø | 600 | 700 | 600 | 900 | 200kA | 175 |
| 480/240V Split Ø | 1200 | 1200 | 1200 | – | 200kA | 320 |
| 208Y/120V | 600 | 600 | 600 | 1000 | 200kA | 150 |
| 480Y/277V | 1200 | 1200 | 1200 | 2000 | 200kA | 320 |
| 600Y/347V | 1500 | 1500 | 1500 | 2500 | 200kA | 440 |
| 240V Hi-Leg Delta | 700 | 900 | 600 | 1500 | 200kA | 180/275 |
| 480V Hi-Leg Delta | 1200 | 1800 | 1000 | 2500 | 200kA | 350/550 |
| 240V 3Ø Delta | – | 1000 | – | 1000 | 200kA | 275 |
| 480V 3Ø Delta | – | 1800 | – | 1800 | 200kA | 550 |
| 600V 3Ø Delta | – | 2000 | – | 2000 | 200kA | 680 |
| 120V Single 1Ø | 600 | 600 | 600 | – | 200kA | 150 |
| 240V Single 1Ø | 1200 | 1200 | 1200 | – | 200kA | 275 |
| 277V Single 1Ø | 1200 | 1200 | 1200 | – | 200kA | 320 |
| 347V Single 1Ø | 1500 | 1500 | 1500 | – | 200kA | 420 |
| 480V Single 1Ø | 1800 | 1800 | 1800 | – | 200kA | 550 |

Standards Compliance & Certifications

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|---|
| UL 1449 4th Edition, cUL, (UL File: VZCA.E316468), UL 96A Compliant, ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285 |
| ISO 9001:2014 Quality Management System, ISO 17025:2007 Laboratory Certification (UL DAP Program) |
| 100% Quality Tested prior to shipping, Made in the USA |

Surge Protective Device RSE Series 2

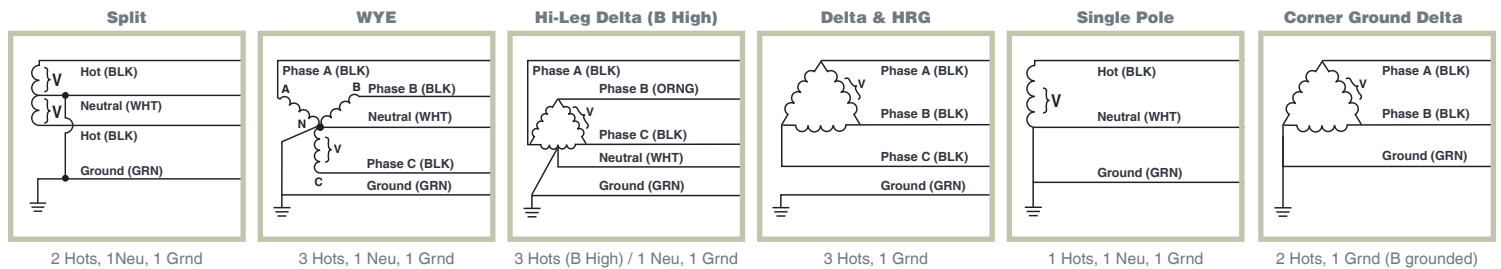
Model Number Configuration

RSE-2-120-1P-A-20-E-F-S

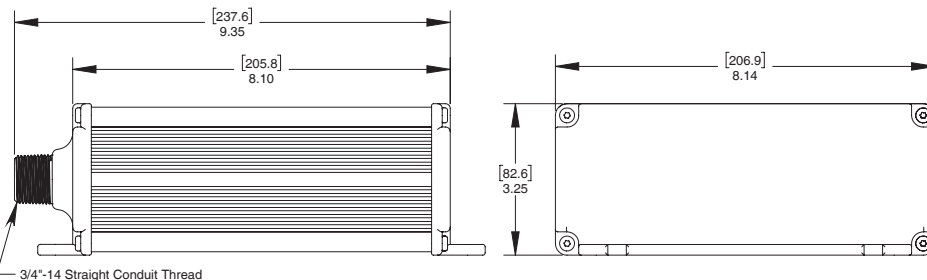
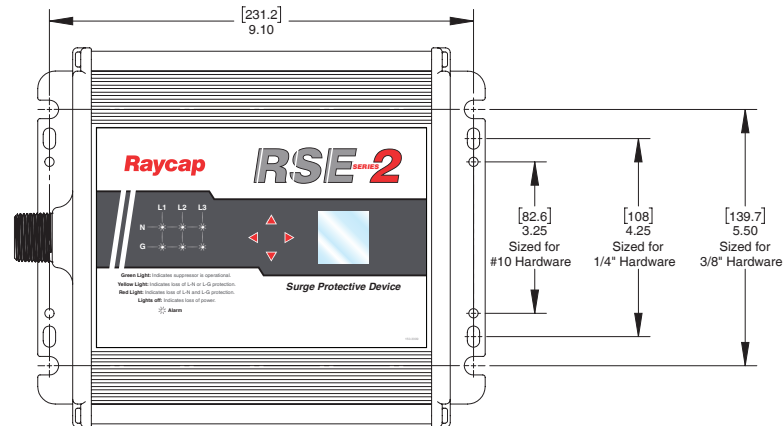
| Series | Voltage | Electrical System | Mode | kA per Mode | Enclosure | Filtering | Options* |
|--------|---------|---------------------|-------------------------|-------------|-------------------|--------------------------|----------------------------|
| RSE-2 | 120 | 1P = Single Phase | A = All mode | 05 = 50kA | E = Aluminum Ext. | F = Filtering | S = Surge & TOV Counter |
| | 240 | 2S = Split Phase | L = Discrete (L-L Mode) | 10 = 100kA | | 0 = Type 1, No Filtering | 0 = No Surge & TOV Counter |
| | 277 | 3Y = 3 Phase WYE | | 15 = 150kA | | C = Type 2, No Filtering | |
| | 347 | 3D = 3 Phase Delta | | 20 = 200kA | | | |
| | 480 | 3H = 3 Phase Hi-Leg | | | | | |
| | 600 | | | | | | |

*Flush-Mount and Bracket-Mount options are sold as separate accessories.

Wiring Configurations



Product Diagram



Size and Mechanical Specifications

| | |
|-------------------|-----------------------|
| Dimensions | 9.35" x 8.14" x 3.25" |
| Weight | 5.40 lbs |
| Enclosure Type | NEMA 4 |
| Installation Type | Indoor / Outdoor |
| Mounting Method | Flush / Flange |

Raycap

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AWG=American Wire Gauge