



HVAC protection
SOLUTIONS

RSH Series

Surge Protection and Voltage
Monitoring Devices





Stop damaging power fluctuation.



Ducted A/C

Ductless A/C

Whole House

Protect home and equipment from electrical surges, brownouts and other voltage disturbances.

Maintain the security, function and longevity of electrical equipment.

- Performance.**
Long-lasting gas discharge tube technology
- Safety.**
Thermally-fused components
- Warranty.**
Unsurpassed industry product warranty
Extended connected equipment warranty



Action videos and full details
rs.today/surgeprotection

RSH SERIES: SURGE PROTECTION

RSH-50

50kA Surge Protective Device

Code	Description	Qty
96415	Surge Protective Device 50kA	6



FEATURES

- Long-lasting hybrid Gas Discharge Tube (GDT) and Thermally Fused Metal Oxide Varistor (TFMOV) technology
- Limited-lifetime warranty
- Green LED easily indicates protection
- Weather-rated under NEMA 4
- Fits all single-phase units
- UL 1449 listed
- NEC's highest Short Circuit Current Rating (SCCR) @200kA

Application

Protect HVAC equipment from electrical surges • Protects from up to 50,000-amp single surges and up to 10,000-amp repetitive surges • Type 1 device - can be mounted anywhere in the electrical system

Recommended for

Residential and commercial use • All single-phase 120/240 VAC outside condensing units and indoor air handlers

Specifications

Operating voltage - 120/240VAC
 Max discharge current per phase - 50kA (1 hit survivability)
 Normal discharge current - 10kA (15 hits survivability)
 Short circuit current - 200kA



1 LED

RSH-60

60kA Surge Protective Device

Code	Description	Qty
96416	Surge Protective Device 60kA	4



FEATURES

- Dual LEDs, audible alarm with silence switch
- Long-lasting hybrid GDT/TFMOV technology
- Mounting feet for stability
- Weather-rated NEMA 4X & IP 66
- Limited-lifetime warranty
- NEC's highest Short Circuit Current Rating (SCCR) @200kA

Application

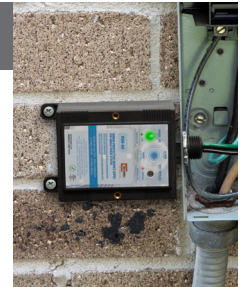
Protect HVAC equipment from electrical surges • Protects from up to 60,000-amp single surges and up to 20,000-amp repetitive surges • Type 1 device - can be mounted anywhere in the electrical system

Recommended for

Residential and commercial use • All single-phase 120/240 VAC outside condensing units and indoor air handlers

Specifications

Operating voltage - 120/240VAC
 Max discharge current per phase - 60kA (1 hit survivability)
 Normal discharge current - 20kA (15 hits survivability)
 Short circuit current - 200kA



RSH SERIES: SURGE PROTECTION

RSH-120

Whole House Surge Protective Device

Code	Description	Qty
96414	Surge Protective Device 120kA	4
96422	Flush Mount Plate (2 pack)	1



FEATURES

- Dual diagnostic LEDs and audible alarm
- Long-lasting hybrid GDT/TFMOV technology
- Mounting feet for stability
- Weather-rated NEMA 4X & IP 66
- Limited-lifetime warranty
- UL 1449 listed
- NEC's highest Short Circuit Current Rating (SCCR) @200kA

Application

Install at breaker box to protect whole home from transient power surges that can cause system lock-up and malfunctions, faulty output, corrupted files, equipment failure and long-term degradation of devices and equipment • Protects up to 120,000-amp single surges and up to 20,000-amp repetitive surges • Type 1 device - can be mounted anywhere in the electrical system

Recommended for

Residential and commercial use • All single-phase 120/240 VAC indoor facility breaker panel installation

Specifications

Operating voltage - 120/240VAC
 Max discharge current per phase - 120kA (1 hit survivability)
 Normal discharge current - 20kA (15 hits survivability)
 Short circuit current - 200kA



96422 Metal Flush Mount Plates Also fits RSH-60 ▶

RSH-1203P

Surge Protective Device for 3-Phase Delta System

Code	Description	Qty
96450	3-Phase Surge Protective Device 120kA, 480V Delta	4
96451	3-Phase Surge Protective Device 120kA, 600V Delta	4
96452	3-Phase Surge Protective Device 120kA, 240V Delta	4



FEATURES

- Long-lasting hybrid GDT/TFMOV technology
- Dual diagnostic LEDs and audible alarm
- Type 1 SPD, NEMA 4X, and IP66 rated
- Limited-lifetime warranty

Application

Designed to protect 3-phase delta air conditioner, heat pumps, and RTU systems from transient over-voltage and natural-cause surges

Recommended for

Commercial use • 3-phase delta systems for 240V, 480V, or 600V

Specifications

Max discharge current per phase - 120kA (1 hit survivability)
 Nominal discharge current - 20kA (15 hits survivability)
 Short circuit current - 200kA (240V & 480V), 150kA (600V)



RSH SERIES: SURGE PROTECTION

RSH-20 MP

Motor Protector

Code	Description	Qty
96427	RSH 20kA SPD for X-13/ "X" Style Motors	12
96428	RSH 20kA SPD for 5-PIN Motors	12
96429	RSH 20kA SPD for Ensite Motors	12
96430	RSH 20kA SPD for Azure Motors	12

Application

The surge protection device protects single-phase 120/240V ECM indoor motors from transient over-voltage and natural-cause surges • Type 4CA device - mounts between the motor and power harness

Recommended for

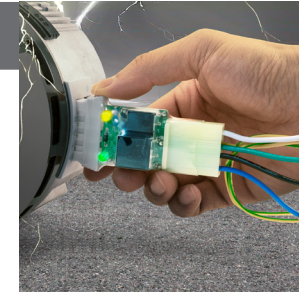
Residential and commercial use, all single-phase 120/240V ECM indoor motors: X-13/"X" Style, 5-PIN, Ensite, and Azure

Specifications

Operating voltage – 120/240 VAC

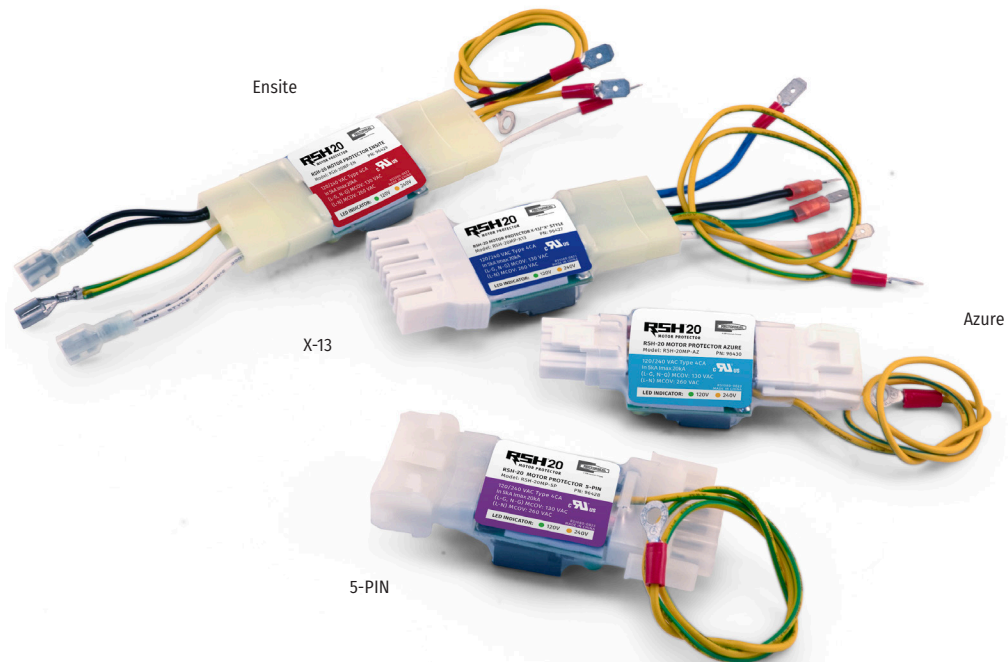
Max discharge current per phase – 20kA
(1 hit survivability)

Nominal discharge current – 5kA
(15 hits survivability)



FEATURES

- UL recognized
- TFMOV technology for safety & performance
- Limited 5-year warranty
- 3 modes of protection: L-G, N-G, L-N
- Plug-n-play for ease of installation
- Diagnostic LED indicates protection



RSH SERIES: VOLTAGE RANGE MONITORING & SURGE PROTECTION

RSH-50 VRMDC Kit SPD & Voltage Range Monitor



Code	Description	Qty
96424	Surge Protection 50kA/VRMDC Kit (with Disconnect Switch)	1

Application

Protects equipment from electrical surges and voltage disturbances by utilizing safety thermal fusing and gas discharge tube surge protection technology, combined with the ability to monitor the line protecting equipment against over and under voltage conditions that can cause damage to circuit boards and motors • Fully programmable to set the voltage cutoff range from 90V to 300V while storing up to 300 events

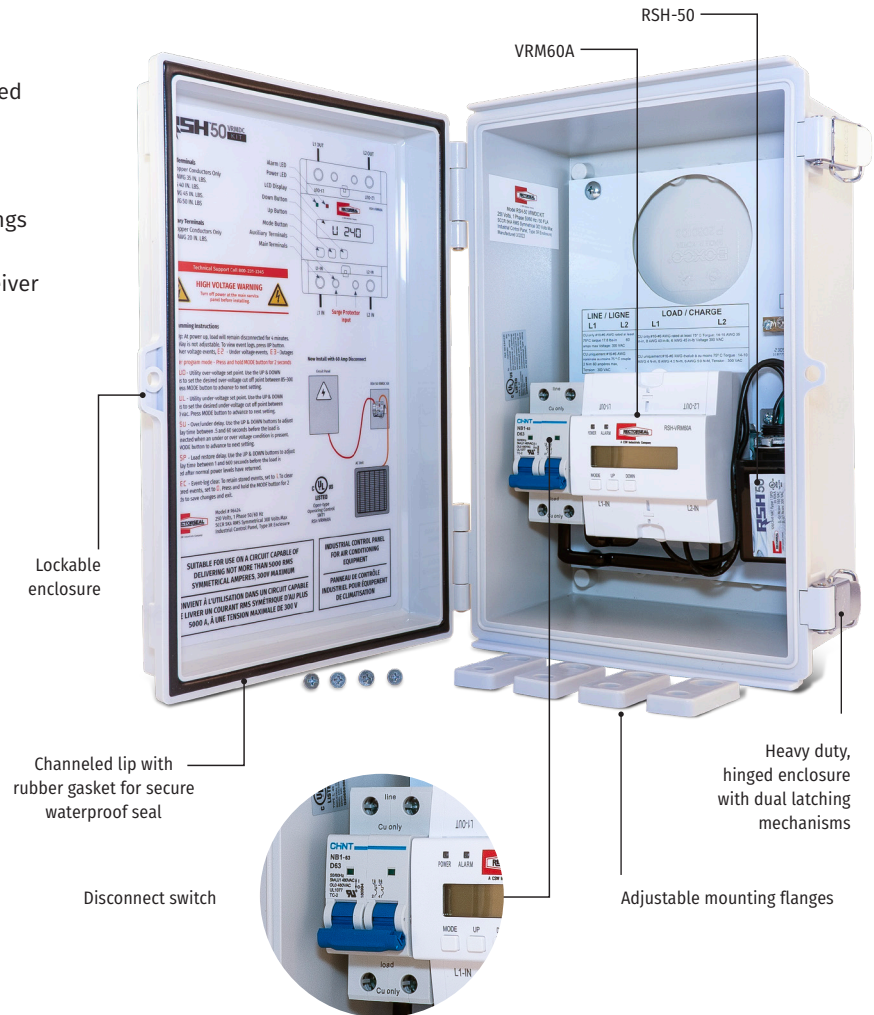
Recommended for

Residential and commercial use, all single-phase 120/240V HVACR equipment (air conditioning, heat pumps, mini-split applications)



FEATURES

- 60A safety disconnect switch
- Includes RSH-VRM60A and RSH-50
- Over-under voltage cutoff delay can be adjusted from 0.5 to 60 seconds
- Load restore delay adjustable from 1 to 600 seconds
- 120/240 single-phase, 60 amp double pole capacity relays (handles loads 15-60 amps)
- Magnetic latching relays
- Large easy to read LCD digital display
- Dual red and green LED diagnostics indicators
- Easy set up, field programmable, no laptop or programming tool required
- Stores up to 300 over/under voltage and power-loss events in resettable internal memory
- Non-volatile memory retains all settings and event log when power is lost
- Universal 35mm snap-on DIN-rail receiver
- Snap-on finger guard screw terminal covers
- Large box lugs for easy wire insertion
- Entire kit is NEMA 4X enclosure, with the VRM60A having DIN-rail housing



RSH SERIES: VOLTAGE RANGE MONITORING & SURGE PROTECTION

RSH-50 VRM Kit

SPD & Voltage Range Monitor

Code	Description	Qty
96421	Surge Protection 50kA/VRM Kit	1



FEATURES

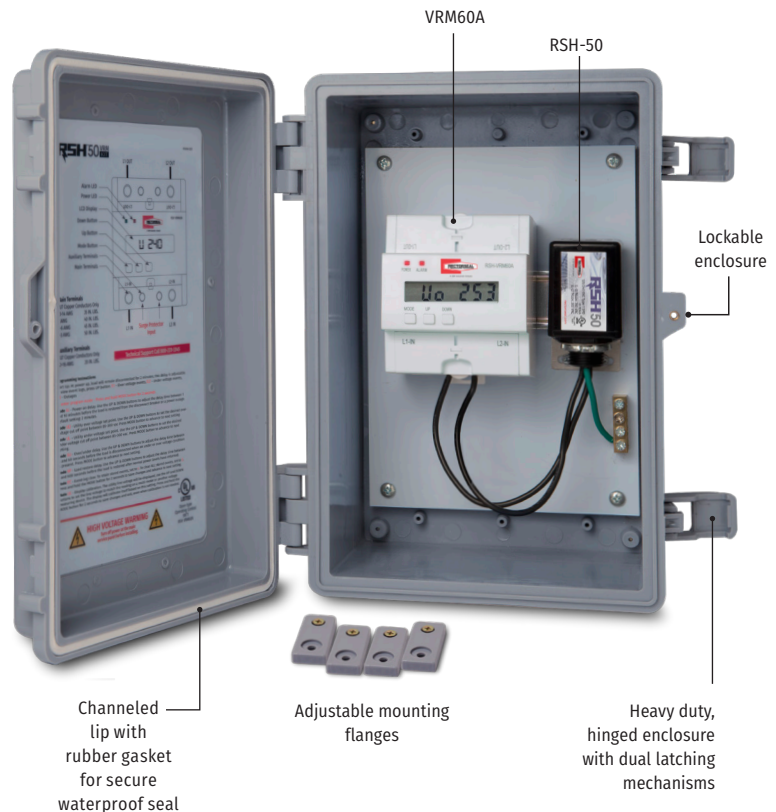
- Includes RSH-VRM60A and RSH-50
- Over-under voltage cutoff delay can be adjusted from 0.5 to 60 seconds
- Load restore delay adjustable from 1 to 600 seconds
- 120/240 single-phase, 60 amp double Pole capacity relays (handles loads 15-60 amps)
- Magnetic latching relays
- Large easy to read LCD digital display
- Dual red and green LED diagnostics indicators
- Easy set up, field programmable, no laptop or programming tool required
- Stores up to 300 over/under voltage and power-loss events in resettable internal memory
- Non-volatile memory retains all settings and event log when power is lost
- Universal 35mm snap-on DIN-rail receiver
- Snap-on finger guard screw terminal covers
- Large box lugs for easy wire insertion
- Entire kit is NEMA 4X enclosure, with the VRM60A having DIN-rail housing

Application

Protects equipment from electrical surges and voltage disturbances by utilizing safety thermal fusing and gas discharge tube surge protection technology, combined with the ability to monitor the line protecting equipment against over and under voltage conditions that can cause damage to circuit boards and motors • Fully programmable to set the voltage cutoff range from 90V to 300V while storing up to 300 events

Recommended for

Residential and commercial use, all single-phase 120/240V HVACR equipment (air conditioning, heat pumps, mini-split applications)



RSH SERIES: VOLTAGE RANGE MONITORING

RSH-VRM60A

Voltage Range Monitor

Code	Description	Qty
96420	Voltage Range Monitor	4

FEATURES

- Over-under voltage cutoff delay can be adjusted from 0.5 to 60 Seconds
- Load Rrestore delay adjustable from 1 to 600 seconds
- 120/240 Single-phase, 60 Amp double pole capacity relays (handles loads 15-60 Amps)
- Impulse voltage up to 2.5 kV
- Magnetic latching relays for maximum reliability
- Large easy to read LCD digital display
- Dual red and green LED diagnostics indicators
- Easy set up, field programmable, no laptop or programming tool required
- Stores up to 300 over/under voltage and power-loss events in resettable internal memory
- Non-volatile memory retains all settings and event log when power is lost
- Snap-on finger guard screw terminal covers
- Large box lugs for easy wire insertion
- DIN-rail housing & independently mounted
- Type 1 action
- Pollution degree 2

Application

Monitors the line, protecting equipment against over and under voltage conditions that can cause damage to circuit boards and motors • The unit is fully programmable to set the voltage cutoff range from 90V to 300V while storing up to 300 events

Recommended for

Residential and commercial use, all single phase 120/240V HVACR equipment (air conditioning, heat pumps, mini-split applications)



DIN-rail mounted



RSH SERIES: VOLTAGE RANGE MONITORING & SURGE PROTECTION

RSH-60VMD 60kA Surge Protective & Voltage Monitoring Device

Code	Description	Qty
96426	Surge Protection Device 60kA/VMD	2



FEATURES

- Dual LEDs, audible alarm, voltage monitoring circuit
- Long-lasting hybrid GDT/TFMOV technology
- Mounting feet for stability
- Weather-rated NEMA 4X & IP 66
- 5-year warranty
- UL 1449 listed
- NEC's highest short circuit current rating (SCCR) @200kA

Application

Protect HVAC equipment from electrical surges, brownouts, and short cycling • Protects from up to 60,000-amp single surges and up to 20,000-amp repetitive surges • Type 1 device - can be mounted anywhere in the electrical system

Recommended for

Residential and commercial use • All split phase 240 VAC unitary outside condensing units and indoor air handlers

Specifications

Operating voltage - 240 VAC

Max discharge current per phase - 60kA (1 hit survivability)

Nominal discharge current - 20kA (15 hits survivability)

Short circuit current - 200kA



RSH SERIES: SURGE PROTECTION

RSH-50 PDB

Surge Protective Device with Plastic Disconnect Box

Code	Description	Qty
96431	30A Fused Disconnect Switch w/Surge	6
96432	60A Fused Disconnect Switch w/Surge	6
96433	60A Non-Fused Disconnect Switch w/Surge	6



Intertek
5033748

Conforms to UL
STD 98
Certified to CSA STD
C22.2 #4

FEATURES

- **WATERPROOF PROTECTION:** NEMA 4X plastic enclosure provides superior waterproof rating compared to metal disconnect boxes, ideal for harsh outdoor environments
- **EXTERIOR SWITCH:** Convenient outside switch operation eliminates need for interior pull-out mechanism, ensuring safer and easier disconnect access
- **SURGE PROTECTION:** Built-in RSH-50 protects single-phase systems from transient overvoltage and natural surges using Long-lasting hybrid GDT/TFMOV technology
- **SECURE ACCESS:** Locking screws provide tamper-resistant security instead of traditional hanging lock loops for enhanced protection
- **EASY INSTALLATION:** Three extra 1/2" knockouts with included connectors plus pre-wired surge protector for quick field installation

Application

Protects HVAC equipment from electrical surges and provides a safe method of disconnect

Recommended for

Residential and commercial use • All single-phase 120/240 VAC outside condensing units and indoor air handlers



Fused



Non-fused



All PDB models include RSH-50 surge protection device (96415)

RSH SERIES: SURGE PROTECTION

RSH-50 DB

50kA Surge Protective Device with Disconnect Box

Code	Description	Qty
96417	30A RSH50 Fused Disconnect w/Surge	6
96418	60A RSH50 Fused Disconnect w/Surge	6
96419	60A RSH50 Non-fused Disconnect w/Surge	6

Application

Protects HVAC equipment from electrical surges and provides a safe method of disconnect

Recommended for

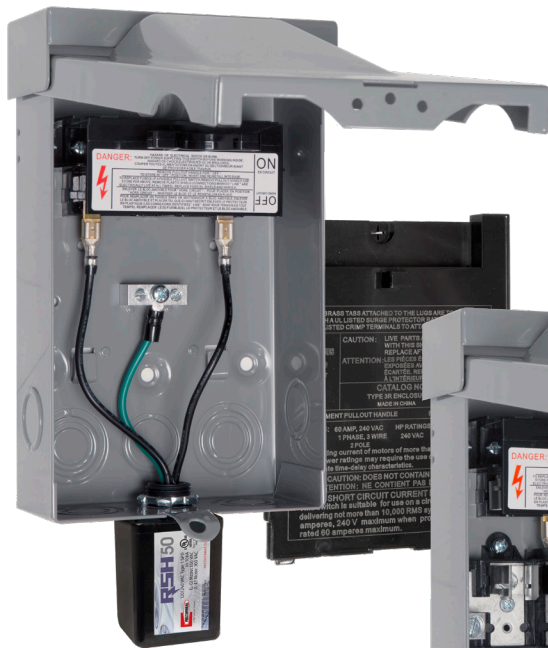
Residential and commercial use • All single-phase 120/240 VAC outside condensing units and indoor air handlers



FEATURES

- Fused & non-fused option

Non-fused



Fused



▲ All DB models include RSH-50 surge protection device (96415) ►



A CSW Industrials Company

Extended RSH product information can be found at:
rectorseal.com/surgeprotection

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