



FOR INDUSTRY PROFESSIONALS



SURGE PROTECTIVE DEVICE (SPD) SERIES

SURGE PROTECTION AND VOLTAGE
MONITORING DEVICES.



DUCTED/DUCTLESS A/C AND HEAT PUMPS

TP-SPD-50

50kA Surge protective device (SPD)

Code	Description	Qty
TP-SPD-50	Surge Protective Device 50kA	6



FEATURES

- Long-Lasting Gas Discharge Tube Technology
- TFMV Technology (Thermally fused metal oxide varistor)
- 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
- RoHS Compliant

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)
- Nominal discharge current - 10kA (15 hits survivability)
- Short circuit current - 200kA



1 LED



TP-DIS+SPD

50kA Surge protective device with disconnect box

Code	Description	Qty
TP-DIS+SPD-30F	TP-50 DB with fused disconnect box 30A	6
TP-DIS+SPD-60F	TP-50 DB with fused disconnect box 60A	6
TP-DIS+SPD-60NF	TP-50 DB with non-fused disconnect box 60A	6



FEATURES

- Fused & non fused option

Application • Wall mount installation of TP-SPD-50 (above)

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



Non-fused



Fused

All DB models include TP-SPD-50 ▶ surge protection device

DUCTED/DUCTLESS A/C AND HEAT PUMPS

TP-SPD-60

60kA Surge protective device (SPD)

Code	Description	Qty
TP-SPD-60	Surge Protective Device 60kA	4



FEATURES

- Dual LEDs, Audible alarm with silence switch
- TFMOV Technology (Thermally fused metal oxide varistor)
- Long-Lasting Gas Discharge Tube 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
- RoHS Compliant

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)
- Nominal discharge current - 20kA (15 hits survivability)
- Short circuit current - 200kA



TP-SPD-60VMD

60kA Surge protective & voltage monitoring device

Code	Description	Qty
TP-SPD-60VMD	Surge protection device 60kA/VMD	2



FEATURES

- Dual LEDs, Audible alarm, voltage monitoring circuit
- TFMOV Technology (Thermally fused metal oxide varistor)
- Long-Lasting Gas Discharge Tube 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
- RoHS Compliant

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 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





WHOLE HOUSE PROTECTION

TP-SPD-120

Whole House Surge protective device (SPD)

Code	Description	Qty
TP-SPD-120	Surge Protective Device 120kA	4



FEATURES

- Dual diagnostic LEDs and audible alarm
- TFMOV technology (Thermally fused metal oxide varistor)
- Long-lasting gas discharge tube 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
- RoHS compliant

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) • Nominal discharge current - 20kA (15 hits survivability) • Short circuit current - 200kA



TP-VRM KIT

SPD & Voltage Range Monitor (VRM)

Code	Description	Qty
TP-VRM-KIT	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 3R enclosure, with the TP-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)



TP-VRM KIT



TP-VRMDC KIT

SPD & Voltage Range Monitor (VRM)

Code	Description	Qty
TP-VRMDC-KIT	Surge protection 50kA/VRMDC KIT (with Disconnect Breaker)	1



UL
LISTED
Type 1 SPD
5ME8
TP-SPD-50



UL
LISTED
Open-type
Operating Control
5NT1
TP-VRM-60A



RoHS



RECOGNIZED
COMPONENT
ETL
Intertek

FEATURES

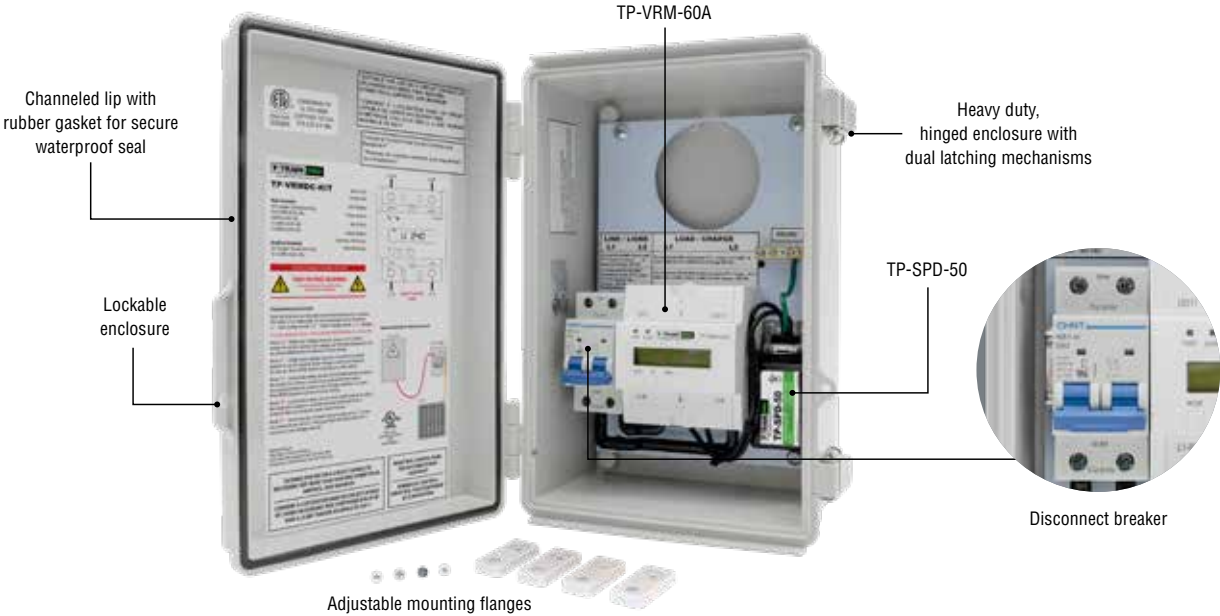
- 60A safety disconnect breaker (TP-VRMDC kit only)
- Includes RSH-VRM60A and RSH-50
- Over-under voltage cutoff delay can be adjusted from 0.5 to 60 seconds
- Load restore delay adjustable from 1 to 600 seconds
- 120/240 single-phase, 60 amp double pole capacity relays (handles loads 15-60 amps)
- Magnetic 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 3R enclosure, with the TP-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)



TP-VRMDC KIT





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