



Surge Protective Devices

INDEX

Hospital Grade

Type 3 Point-of-Use
 Decora® Surge Protective Receptacles 587
 Four-In-One Receptacles 588

Industrial Grade

Type 2 Surge Panels 590
 Type 3 Point-of-Use
 Four-In-One Receptacles 598
 Surge Strips 600
 Type 4 UL Recognized Components 602

Commercial Grade

Type 1 Surge Arresters 606
 Type 3 Point-of-Use
 Decora® Surge Protective Receptacles 607
 Surge Strips 609

Residential Grade

Type 1 Surge Arresters 610
 Type 2 Surge Panels 611
 Type 3 Point-of-Use SPD 612

Leviton's Surge Protective Devices (SPDs) are designed to reduce the random energy surges of voltage transients and electrical noise on the power supply line.

Volatile transients and noise are present in utility power lines, data networks, telephone lines, closed circuit and cable tv feeds, and any other power or control lines connected to electronic equipment.

Leviton's Surge Protection Devices can be used individually or as part of a coordinated application strategy, to protect sensitive electronic equipment, in industrial, commercial and residential locations, from the stress and degradation inflicted by voltage transients. Leviton Surge Protection Devices are listed to UL 1449 Standards. Leviton's outstanding Surge Protection Devices divert damaging voltage transients, or surges, away from electronic equipment. Transients are diverted away from sensitive microcircuitry, providing protection against catastrophic failure, costly downtime and data disruptions.



Terminology

Type 1 SPDs were previously called Surge Arresters or Secondary Surge Arresters. These terms will not be used and the device will be referred to as a Type 1 SPD due to its location within the power distribution system. This is typically on the supply side of the service disconnect overcurrent device (main service panel).

Type 2 SPDs are typically service entrance SPD panels or branch circuit SPD panels that are connected on the load side of the service disconnect overcurrent device (main service panel).

Type 3 SPDs are typically surge receptacles or cord connected point-of-use devices. They are permitted to be installed anywhere on the load side of a branch circuit up to the equipment served, provided the connection is a minimum of 10m (30ft.) from the service panel. Note: If the distance is less than 10m, a Type 2 SPD (or a Type 3 SPD tested to Type 2 requirements) must be used.

Type 4 SPDs are UL Recognized Components.

Please visit leviton.com for the most up-to-date information regarding ratings and product availability.

Type 3 Point-of-Use Decora® Surge Protective Receptacles Back and Side Wired

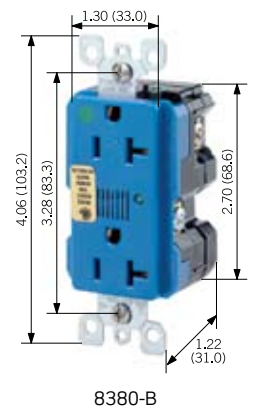
Specifications and Features

- Point-of-use protection for up to 36,000 amps of surge current total
- Four 18mm MOV's enable energy absorption rating of 720 Joules
- Designed to provide enhanced EMI/RFI filtering
- Back and side wired design with durable metal mounting strap
- LED indicator monitors suppression status
- Audible alarm for surge protection status (can be silenced)
- Available in isolated ground and tamper resistant versions
- DIN-rail mounted version also available
- Manufactured to ISO 9001:2000 standards
- Ten-Year Limited Product Warranty

DECORA PLUS SURGE PROTECTIVE RECEPTACLES

Back and Side Wired

| Description | Color | Cat. No. | Cat. No. |
|--|--------------|-----------------|-----------------|
| NEMA Config. | | 5-15R | 5-20R |
| Rating | | 15A-125V | 20A-125V |
| Tamper Resistant Duplex, Surge with Indicator Light and Audible Alarm | White | T8280-W | T8380-W |
| | Ivory | T8280-I | T8380-I |
| | Light Almond | T8280-T | — |
| | Gray | — | T8380-GY |
| | Red | T8280-R | T8380-R |
| | Blue | T8280-B | T8380-B |
| Duplex, Surge with Indicator Light and Audible Alarm | White | 8280-W | 8380-W |
| | Ivory | 8280-I | 8380-I |
| | Light Almond | 8280-T | — |
| | Gray | — | 8380-GY |
| | Red | 8280-R | 8380-R |
| | Blue | 8280-B | 8380-B |
| | Brown | 8280 | 8380 |
| Single, Surge with Indicator Light and Audible Alarm | Ivory | — | 8381-I |
| Duplex, Surge, Isolated Ground, with Indicator Light and Audible Alarm | White | 8280-IGW | 8380-IGW |
| | Ivory | 8280-IGI | 8380-IGI |
| | Gray | 8280-IGG | 8380-IGG |
| | Blue | 8280-IGB | 8380-IGB |
| | Orange | 8280-IGO | 8380-IGO |
| Single, Surge, Isolated Ground, with Indicator Light and Audible Alarm | Ivory | — | 8381-IGI |



Hospital Grade

TESTING AND CODE COMPLIANCE

- NEMA (WD-1 & WD-6)
- ANSI (C-73)
- UL Listed (File # E-317603)
- CSA Certified (File #152105)
- NOM Certified (File #057)

ELECTRICAL

- Dielectric Voltage: Withstands 2000V per UL 498
- Current Limiting: Full rated current
- Temp. Rise: Max 30° C after 250 cycles at 200% of rated current

MATERIAL CHARACTERISTICS

Environmental: Flammability UL-94, V2 Rating
Operating Temperature: -40°C to 60°C

MECHANICAL

- Terminal I.D.: Brass-Hot, Silver-Neutral, Green-Grounding
- Terminal Accomm.: #14-#10 AWG
- Product I.D.: Ratings are permanently marked on device

PERFORMANCE DATA

MVOC: 150Vrms
Joules rating: 720
Nominal Discharge Current (In): 3kA (Meets Type 2 & Type 3 Requirements)
Max Surge Current: L-N: 18kA, L-G: 9kA, N-G: 9kA
Noise Rejection: -30dB at 500kHz-30MHz
Voltage Protection rating (VPR): L-N: 600V, L-G: 700V, N-G: 600V
SCCR: 5000A
Diagnostics: Indicator Light, Audible Alarm

Extra Heavy-Duty Four-In-One

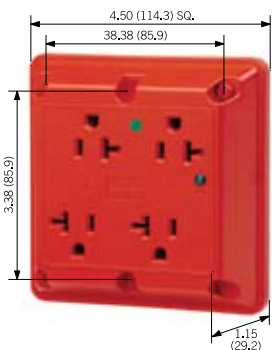
Specifications and Features

- Terminal wiring screws fit inside a standard single gang wallbox; adapter plate not required (optional)
- Impact resistant nylon cover and base for strength and resistance to chemicals and corrosives
- Smooth face; easy to clean surface
- Easy-to-read voltage and amperage rating molded onto face
- Extra Heavy-Duty, T-type triple-wipe bronze contacts for maximum performance
- Ground holes configured up or down to be outside the device, accommodating up to 4 Fed Spec size straight or angle plugs
- No. 8 terminal screws accept up to No. 12 solid or stranded copper wire
- Termination anchor holes for easy conductor wiring
- Exclusive shield-wall design protects ground connection from contact with live circuit conductors
- "A" and "B" molded on face and back for easy identification of receptacle pairs for split-circuit conversion (Note: Split circuit not available on surge models)
- Convenient built-in strip-gauge

FOUR-IN-ONE

2-Pole 3-Wire Grounding

| Description | Color | Cat. No. | Cat. No. |
|---------------------|--------|-----------------|-----------------|
| NEMA Config. | | | |
| | | 5-15R | 5-20R |
| Rating | | 15A-125V | 20A-125V |
| Four-In-One, | White | 8480-IGW | — |
| Surge Protective/ | Ivory | 8480-IGI | 8490-IGI |
| Isolated Ground | Blue | 8480-IGB | 8490-IGB |
| | Orange | — | 8490-IG |
| Four-In-One, | White | 8480-W | 8490-W |
| Surge Protective | Ivory | 8480-I | 8490-I |
| | Red | 8480-R | 8490-R |

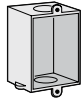


8490-R

Portable boxes are not UL Listed. UL Listing does not apply when Four-in-One Receptacles are used with portable boxes for extension cord applications. Portable boxes can be found on page 536.
Audible Alarm feature is NOT available on quads.

FOUR-IN-ONE RECEPTACLE WALLBOX MOUNTING

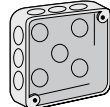
Mounts Directly



Single-Gang

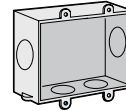


4" Octagonal

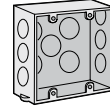


4" Square

Mounts With Adapter Plates



2-Gang



4¹¹/₁₆" Square

TESTING AND CODE COMPLIANCE

- UL Listed (File #E-13399)
- CSA Certified (File #152105)
- CSA Certified Adapter Plates (File #LR-16347)
- NOM Certified (#057)

ELECTRICAL

Dielectric Voltage: Withstands 2000V for UL 498
 Current Interr.: Full rated current
 Temp. Rise: Max 30°C after 250 cycles at 200% of rated current

PERFORMANCE DATA

Total Max. Surge Current: 48kA
 L-N Max. Surge Current: 24kA
 MCOV: 130V

MATERIAL CHARACTERISTICS

Environmental: Flammability, Rated V2
 Operating Temperature: -40°C to 60°C Maximum Continuous

MECHANICAL

Terminal I.D.: Brass-Hot, White-Neutral, Green-Grounding
 Terminal Accom.: #14-#12 AWG
 Product I.D.: Ratings are permanently stamped on device

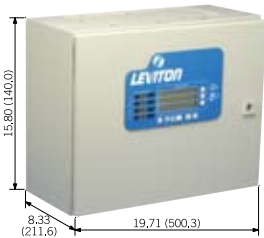
Industrial Grade

75000/74000 Series Panel Mount Devices

75000/74000 Series is designed for the most mission-critical industrial environments, and provides seven-mode protection for high-exposure entrances and other critical applications.

Specifications and Features

- Seven-mode protection for up to 320,000 amps of surge current per mode
- Replaceable surge modules with individually fused MOV's
- AC Sinewave Tracking provides enhanced EMI/RFI filtering
- Real-time diagnostics monitor power and surge protection status
- Surge counter tracks and downloads, magnitude, time/date and duration of surge events
- Less than 1/2 nanosecond response time
- NEMA 12 enclosure
- Limited Lifetime Product Warranty



74120-7M3

75000/74000 SERIES PANEL MOUNT DEVICES

| Description | Cat. No. | Rating | Module No. |
|---------------------------------|-----------|-------------|---------------|
| 7-Mode, 3Ø WYE, 4-Wire + Ground | 75120-7M3 | 120/208V AC | (7) HC120-M53 |
| 7-Mode, 3Ø WYE, 4-Wire + Ground | 75277-7M3 | 277/480V AC | (7) HC277-M53 |
| 7-Mode, 3Ø WYE, 4-Wire + Ground | 74120-7M3 | 120/208V AC | (7) HC120-M40 |
| 7-Mode, 3Ø WYE, 4-Wire + Ground | 74277-7M3 | 277/480V AC | (7) HC277-M40 |

PERFORMANCE SPECIFICATIONS: 75000/74000 SERIES

| Cat. No. | MCOV | UL 1449 (2nd Ed) Impulse (6kV/500A) | | | Max. Surge Current in KA (Test w/8x20µs wave) | | | | Noise Rejection |
|-----------|---------|--|-----|-----|--|-----------|-------------|-----|---------------------------|
| | | L-N | L-G | N-G | L-L | L-N + L-G | = per phase | | |
| 75120-7M3 | 150V AC | 400 | 400 | 400 | 800 | 320 | 320 | 640 | 20 to 40dB at 5kHz-100MHz |
| 75277-7M3 | 320V AC | 800 | 800 | 800 | 1500 | 320 | 320 | 640 | 20 to 40dB at 5kHz-100MHz |
| 74120-7M3 | 150V AC | 400 | 400 | 400 | 800 | 200 | 200 | 400 | 20 to 40dB at 5kHz-100MHz |
| 74277-7M3 | 320V AC | 800 | 800 | 800 | 1500 | 200 | 200 | 400 | 20 to 40dB at 5kHz-100MHz |

TESTING AND CODE COMPLIANCE

- UL 1449 Listed (File #E 146315)
- CSA Certified (File #LR-94773)
- Meets ANSI/IEEE C62.41 & C62.45 Categories A, B & C)

MATERIAL CHARACTERISTICS

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 85°C

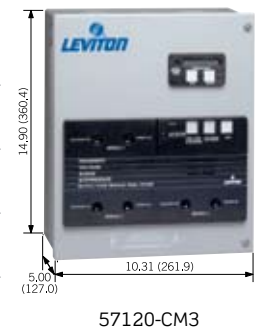
57000 Series Panel Mount Devices

Specifications and Features

- For installation at main distribution panels.
- Hybrid suppression circuitry with built-in redundancy provides complete protection on all phases
- Modular design allows easy replacement of modules
- Provides Normal Mode (phase to neutral) and Common Mode (neutral to ground) protection for WYE configured 3-phase AC systems
- Disconnect options offer L-G path (7 mode)
- Dry contacts for remote monitoring allows use of the optional Remote Supervisor (Cat. No. 52000-RS)
- “Series connection” parallel operated (Kelvin/feed-through) rated for 100 Amps maximum continuous line current using #3 AWG conductors
- Dual-stage fuse protection for primary & secondary surge suppression circuits.
- Housed in NEMA-12 enclosure with hinged cover, surface or flush mountable.
- Limited Lifetime Product Warranty

57000 SERIES PANEL MOUNT DEVICES

| Description | Cat. No. w/o Surge Counter | Cat. No. w/Surge Counter | Voltage Rating | Module |
|---|----------------------------------|--------------------------------|----------------|-----------------------------|
| 3-Phase WYE, 4-Wire & Ground | 57120-M3 | 57120-CM3 | 120/208V AC | (3) 120 (1) 8120-GN |
| 3-Phase WYE, 7-Mode, Integral Disconnect, 4-Wire & Ground | 57120-M3S | 57120-C3S | 120/208V AC | (3) 120-M3S (1) 8120-GN |
| 3-Phase Delta, 3-Wire & Ground | 57240-DM3 | — | 240V AC | (3) 7240 |
| 3-Phase WYE, 4-Wire & Ground | 57277-M3 | 57277-CM3 | 277/480V AC | (3) 7277 (1) 8320-GN |
| 3-Phase WYE, 7-Mode, Integral Disconnect, 4-Wire & Ground | 57277-M3S | 57277-C3S | 277/480V AC | (3) 7277-M3S (1) 8320-GN |
| 3-Phase WYE, 4-Wire & Ground | 57346-M3 | — | 346/600V AC | (3) 7346 (1) 8385-GN |
| 3-Phase Delta, 3-Wire & Ground | 57480-DM3 | — | 480V AC | (3) 7480 |
| 3-Phase Delta, 3-Wire & Ground | 57600-DM3 | — | 600V AC | (3) 7600 |



Industrial Grade

PERFORMANCE SPECIFICATIONS: 57000 SERIES

| Cat. No. | MCOV | UL 1449 Impulse (6kV/500A) | | | | Max. Surge Current in KA (Test w/8x20µs wave) | | | Noise Rejection |
|-----------|---------|-------------------------------|------|------|------|--|-----------|-----|--------------------------------|
| | | L-N | L-G | N-G | L-L | L-N + L-G = | per phase | | |
| 57120-M3 | 150V AC | 400 | 800 | 400 | 800 | 150 | — | 150 | -20 to -40 dB (@5K-10MHz) |
| 57120-CM3 | | | | | | | | | |
| 57120-M3S | 150V AC | 400 | 500 | 400 | 700 | 100 | 100 | 200 | -20 to -40 dB (@5K-10MHz) |
| 57120-C3S | | | | | | | | | |
| 57240-DM3 | 250V AC | — | — | — | 700 | | L-L: 150 | | -20dB to -40 dB (@5K-10MHz) |
| 57277-M3 | 320V AC | 800 | 1800 | 800 | 1800 | 150 | — | 150 | -20dB to -40 dB (@5K-10MHz) |
| 57277-CM3 | | | | | | | | | |
| 57277-M3S | 320V AC | 900 | 1000 | 800 | 1500 | 100 | 100 | 200 | -20dB to -40 dB (@5K-10MHz) |
| 57277-C3S | | | | | | | | | |
| 57346-M3 | 385V AC | 1000 | 2000 | 1000 | 2000 | 150 | — | 150 | -20dB to -40 dB (@5K-10MHz) |
| 57480-DM3 | 550V AC | — | — | — | 1500 | | L-L: 150 | | -20dB to -40 dB (@5K-10MHz) |
| 57600-DM3 | 680V AC | — | — | — | 1800 | | L-L: 150 | | -20dB to -40 dB (@5K-10MHz) |

TESTING AND CODE COMPLIANCE

- UL 1449 Listed (File #E-146315)
- CSA Certified (File #LR-94773)
- Meets ANSI/IEEE C62.41 & C62.45 Categories A, B & C
- UL 94 V-0 flame retardant thermoplastic (Front Bezel)

MATERIAL CHARACTERISTICS

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 85°C

Remote Supervisor

Specifications and Features

- For use with any panel-mounted SPD that has dry contacts
- Monitors up to 6 (series alarm daisy-chained) panel-mounted SPDs
- Single key-hole surface mounting using just 2 screws
- 75dB acoustic beep tone draws attention to a potential failure
- Terminal block provided for simple connection to input port via #20 to #22 two-conductor twisted pair, with a wire run up to 5,000 ft. in length
- Ten-Year Limited Product Warranty

REMOTE SUPERVISOR

| Description | Cat. No. |
|-------------------|----------|
| Remote Supervisor | 52000-RS |

TESTING AND CODE COMPLIANCE

- UL 1449 Listed (File #E-146315)
- CSA Certified (File #LR-94773)
- Meets ANSI/IEEE C62.41 & C62.45 Categories A, B & C

MATERIAL CHARACTERISTICS

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 85°C



52000-RS

52000 Series Branch Panel Mounts

Specifications and Features

- For installation at branch panels for protection in industrial and commercial facilities
- Hybrid suppression circuitry
- Features AC sine wave tracking
- Modular design allows easy replacement of modules without use of tools or the need to shut down the AC system
- Real-time diagnostics monitor power and suppression status for each phase and allow use of optional Remote Supervisor
- Dry contacts for remote monitoring
- Provides Normal Mode (phase to neutral) and Common Mode (neutral to ground) protection for WYE-configured 3-phase AC systems
- “Optional Series Connections” (Kelvin/feed-through) rated for 100 Amps maximum continuous line current using #3 AWG conductors
- Fuse protection for each module
- Housed in NEMA-12 enclosure hinged cover, surface or flush mountable
- Limited Lifetime Product Warranty

52000 SERIES BRANCH PANEL MOUNTS

| Description | Cat. No. w/o Surge Counter | Cat. No. w/Surge Counter | Voltage Rating | Module |
|---|----------------------------------|--------------------------------|------------------|--|
| Single-Phase, 2-Wire & Ground | 52120-M1 | — | 120V AC | (1) 2120 (1) 8120-GN |
| Single-Phase, 3-Wire & Ground (Home Automation Model) | 52120-M2 (52120-M2H) | 52120-CM2 | 120/240V AC | (2) 2120 (1) 8120-GN |
| 3-Phase WYE, 4-Wire & Ground | 52120-M3 | 52120-CM3 | 120/208V AC | (3) 2120 (1) 8120-GN |
| 3-Phase Delta, 3-Wire & Ground | 52240-DM3 | — | 240V AC | (3) 2240 |
| 3-Phase WYE, 4-Wire & Ground | 52277-M3 | 52277-CM3 | 277/480V AC | (3) 2277 (1) 8320-GN |
| 3-Phase Delta, 3-Wire & Ground | 52480-DM3 | — | 480V AC | (3) 2480 |
| Split Phase, Hi-Leg Delta, 4-Wire & Ground | 52412-DS3 | — | 120/240V/120V AC | (2) 2120 (120V) & (1) 2412 (HI-LEG) |



Industrial Grade

PERFORMANCE SPECIFICATIONS: 52000 SERIES

| Cat. No. | MCOV | UL 1449 (2nd Ed) Impulse (6kV/500A) | | | | Max. Surge Current in KA (Test w/8x20µs wave) | Noise Rejection |
|-----------------------|-----------------|--|------|-----|------|--|--------------------------------|
| | | L-N | L-G | N-G | L-L | | |
| 52120-M1 | 150V AC | 400 | 800 | 400 | — | 100 | -20 to -40 dB (@5K-10MHz) |
| 52120-M2 52120-CM2 | 150V AC | 400 | 800 | 400 | 800 | 100 | -20 to -40 dB (@5K-10MHz) |
| 52120-M2H | 150V AC | 400 | 800 | 400 | 800 | 100 | -20 to -40 dB (@5K-10MHz) |
| 52120-M3 52120-CM3 | 150V AC | 400 | 800 | 400 | 800 | 100 | -20 to -40 dB (@5K-10MHz) |
| 52240-DM3 | L-L: 250V AC | — | — | — | 600 | 100 | -20 to -40 dB (@5K-10MHz) |
| 52277-M3 52277-CM3 | 320V AC | 800 | 1800 | 800 | 1800 | 100 | -20dB to -40 dB (@5K-10MHz) |
| 52480-DM3 | 550V AC | — | — | — | 1500 | 100 | -20 to -40 dB (@5K-10MHz) |
| 52412-DS3 | L-L: 250V AC | 400 | 800 | 400 | 800 | 100 | -20 to -40 dB (@5K-10MHz) |

37000, 47000 and 52000-7M3 Series Branch Panel Mounts

Specifications and Features

- Provides low-clamping, high surge current capability
- Verifies fail-safe conditions for MOVs under steady-state overvoltage
- 200 kA rated per mode - 47000 Series
- 100 kA rated per mode - 52000 Series - 7XX; 37000 Series
- Individually-fused MOV's - 37000 and 47000 Series
- Parallel wired to facilitate connection to any service ampacity
- Provides Normal Mode (phase to neutral), and Common Mode [neutral to ground and line-to-ground (L-G)] protection for a total of 7 modes of protection
- Available with NEMA Type 4X enclosure for outdoor environments - 47000
- Limited Lifetime Product Warranty

37000, 47000 & 52000-7M3 SERIES BRANCH PANEL MOUNTS

| Description | Cat. No. w/o Surge Counter | Cat. No. w/Surge Counter | Voltage Rating 3Ø WYE (4-wire and ground) | Module |
|---|----------------------------------|--------------------------------|---|----------------------------|
| 7-Mode Panel Mount Type 1 Enclosure (4-Wired + Ground) | 37120-007 | — | 120/208V AC | — |
| 7-Mode Panel Mount w/NEMA C Type 1 Enclosure (4-Wire + Ground) | 37277-007 | — | 277/480V A | — |
| 7-Mode Panel Mount (4-Wired + Ground) | 47120-007 | — | 120/208V AC | — |
| 7-Mode Panel Mount w/NEMA 4X Enclosure (4-Wire + Ground) | 47120-4X7 | — | 120/208V AC | — |
| 7-Mode Panel Mount (4-Wired + Ground) | 47277-007 | — | 277/480V AC | — |
| 7-Mode Panel Mount w/NEMA 4X Enclosure (4-Wire + Ground) | 47277-4X7 | — | 277/480V AC | — |
| 7-Mode Modular Panel Mount (4-Wired + Ground) | 52120-7M3 | 52120-7C3 | 120/208V AC | (3) 120-7M3 (1) 8120-GN |
| 7-Mode Modular Panel Mount (4-Wired + Ground) | 52277-7M3 | 52277-7C3 | 277/480V AC | (3) 277-7M3 (1) 8120-GN |



37277-007



47120-007



47120-4X7



52277-7M3

Industrial Grade

PERFORMANCE SPECIFICATIONS: 37000, 47000 AND 52000-7M3 SERIES

| Cat. No. | MCOV | UL 1449 (2nd Ed) Impulse (6kV/500A) | | | | Max. Surge Current in KA (Test w/8x20µs wave) | | | Noise Rejection |
|-----------|---------|--|-----|-----|------|--|-----|-----|---------------------------|
| | | L-N | L-G | N-G | L-L | L-N + L-G = per phase | | | |
| 37120-007 | 140V AC | 400 | 500 | 400 | 700 | 100 | 100 | 200 | -40 dB (@10K-10MHz) |
| 37277-007 | 320V AC | 800 | 900 | 800 | 1500 | 100 | 100 | 200 | -40 dB (@10K-10MHz) |
| 47120-007 | 140V AC | 330 | 400 | 330 | 600 | 200 | 200 | 400 | -40 dB (@10K-10MHz) |
| 47120-4X7 | | | | | | | | | |
| 47277-007 | 320V AC | 700 | 800 | 700 | 1500 | 200 | 200 | 400 | -40 dB (@10K-10MHz) |
| 47277-4X7 | | | | | | | | | |
| 52120-7M3 | 150V AC | 400 | 400 | 400 | 800 | 100 | 100 | 200 | -20 to -40 dB (@5K-10MHz) |
| 52120-7C3 | | | | | | | | | |
| 52277-7M3 | 320V AC | 800 | 800 | 800 | 1500 | 100 | 100 | 200 | -20 to -40 dB (@5K-10MHz) |
| 52277-7C3 | | | | | | | | | |

TESTING AND CODE COMPLIANCE

47000 and 52000-7M3 Series

- UL 1449 Listed (File #E-146315)
- CSA Certified (File #LR-94773)
- Meets ANSI/IEEE C62.41 and 62.45 requirements for Categories A, B, C

MATERIAL CHARACTERISTICS

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 85°C

32000 and 42000 Series Branch Panel Mounts

Specifications and Features

- 32000 Series compatible with Decora Home Control and X-10 devices
- Provide multiple-phase surge protection in commercial and industrial environments
- Compact design permits close installation to panel and provides a short parallel suppression path
- 3-phase units are suitable for WYE and Delta AC systems
- Easily surface-mounted or flush mountable with use of flush collar accessory 42001 FMC
- Real-time diagnostics monitor power and surge suppression status of each phase by means of indicator light and acoustic alarm
- Equipped with normally open/normally closed dry contacts rated 5 Amps 3 color-coded AWG leads rated 600V AC for remote monitoring
- Sine wave Tracking
- Limited Lifetime Product Warranty

32000 & 42000 SERIES FOR BRANCH PANELS

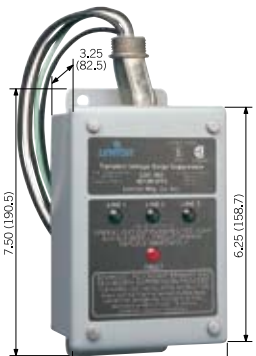
| Description | Cat. No. | Voltage Rating |
|---|------------------------|--------------------------------------|
| Single-Phase | 32120-1 42120-1 | 120/240V AC |
| 3-Phase WYE or 220V, 230V or 240V AC, 3∅ Delta | 32120-DY3 42120-DY3 | 120/208V AC 220V, 230V or 240V AC |
| 277/480V or 220/380V AC | 32277-DY3 | 277/480V AC, 220/380V AC |
| 3-Phase WYE or 240, 480V AC 3∅ Delta | 42277-DY3 | 480V AC |
| 3-Phase WYE or 600V AC 3∅ Delta | 32347-DY3 42347-DY3 | 347/600V AC 600V AC |
| Hi-Leg Split Phase Delta | 32412-DS3 42412-DS3 | 120/240/120V AC |
| Flush Mount Collar | 42001-FMC | — |



32120-DY3

PERFORMANCE SPECIFICATIONS: 32000 AND 42000 SERIES

| Cat. No. | MCOV | UL 1449 Impulse (6kV/500A) | | | Max. Surge Current in kA |
|-----------|-------------|----------------------------|---------|------|--------------------------|
| | | L-N | N-G | L-L | (Test w/8x20µs wave) |
| 32120-1 | 150V AC | 500 | 500 | 700 | 80kA |
| 42120-1 | | | | | |
| 32120-DY3 | 150V AC | 500 | 500 | 700 | 80kA |
| 42120-DY3 | | | | | |
| 32277-DY3 | 320V AC | 900 | 800 | 1500 | 80kA |
| 42277-DY3 | | | | | 80kA |
| 32347-DY3 | 382V AC | 1200 | 1000 | 2000 | 80kA |
| 42347-DY3 | L-L 660V AC | | | | |
| 32412-DS3 | 320V AC | 400 | 700 | 800 | 80kA |
| 42412-DS3 | L-L 264V AC | | (HiL-N) | | |



42120-DY3

Noise Rejection 32000= -20 to -30 dB (@1.5K - 1.2MHz)

Noise Rejection 42000= -30 to -40 dB (@10K - 10MHz)

TESTING AND CODE COMPLIANCE

- UL 1449 Listed (File #E-146315).
- CSA Certified (File #LR-94773).
- Meets ANSI/IEEE C62.41 and 62.45 requirements for Categories A, B, C.

MATERIAL CHARACTERISTICS

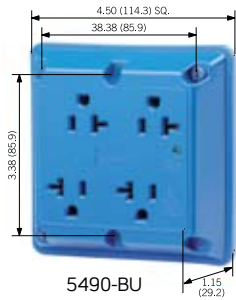
- Operating Temperature: -10°C to 60°C.
- Storage Temperature: -20°C to 85°C.

Industrial Grade

Extra Heavy-Duty Four-In-One

Specifications and Features

- Terminal wiring screws fit inside a standard single gang wallbox; adapter plate not required (optional)
- Impact Resistant nylon cover and base for strength and resistance to chemicals and corrosives
- Easy-to-read voltage and amperage rating molded onto smooth face; easy to clean surface
- Extra Heavy-Duty, T-type triple-wipe bronze contacts for maximum performance
- Ground holes configured up or down to be outside the device, accommodating up to 4 Fed Spec size straight or angle plugs
- No. 8 terminal screws accept up to No. 12 solid or stranded copper wire
- Termination anchor holes for easy conductor wiring
- Exclusive shield-wall design protects ground connection from contact with live circuit conductors
- “A” and “B” molded on face and back for easy identification of receptacle pairs for split-circuit conversion (Note: Split circuit not available on surge models)
- Convenient Built-in strip gauge



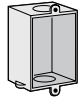
2-Pole, 3-Wire Grounding

| Description | Color | Cat. No. | Cat. No. |
|-------------------|--------|-----------------|-----------------|
| NEMA | | | |
| | | 5-15R | 5-20R |
| Rating | | 15A-125V | 20A-125V |
| Four-In-One, | Ivory | — | 5490-IGI |
| Surge Protective/ | Blue | — | 5490-IGB |
| Isolated Ground | Orange | 5480-IG | 5490-IG |
| Four-In-One, | White | 5480-W | 5490-W |
| Surge Protective | Ivory | 5480-I | 5490-I |
| | Grey | 5480-GY | 5490-GY |
| | Red | 5480-R | — |
| | Blue | 5480-BU | 5490-BU |

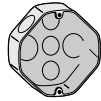
Portable boxes are not UL Listed. UL Listing does not apply when Four-in-One Receptacles are used with portable boxes for extension cord applications. Portable boxes can be found on page 536. Audible Alarm feature is NOT available on quads.

FOUR-IN-ONE RECEPTACLE WALLBOX MOUNTING

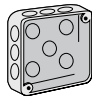
Mounts Directly



Single-Gang

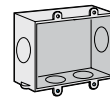


4" Octagonal

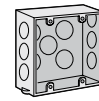


4" Square

Mounts with Adapter Plate



2-Gang



4¹¹/₁₆" Square

TESTING AND CODE COMPLIANCE

Meets all NEMA WD 6, UL 498 and ANSI C-73 requirements

- UL Listed (File #E-13399)
- CSA Certified (File #152105)
- NOM Certified (#057)

MATERIAL CHARACTERISTICS

Environmental: Flammability, Rated V2

Operating Temperature: -40°C to 60°C

PERFORMANCE DATA

Total Max. Surge Current: 48kA

L-N Max. Surge Current: 24kA

MCOV: 130V

MECHANICAL

Terminal I.D.: Brass-Hot, White-Neutral, Green-Grounding

Terminal Accomm.: #14-#12 AWG

Product I.D.: Ratings are permanently stamped on device

ELECTRICAL

Dielectric Voltage: Withstands 2000V for UL 498

Current Interr.: Full rated current

Temp. Rise: Max 30°C at full rated current after 50 cycles over-load at 150% of rated current for both AC and DC per UL 498

Industrial Grade

Type 3 Point-of-Use Surge Strips

Specifications and Features

Plug Strips

- Available in Industrial Specification Grade, Commercial Specification Grade and General Purpose Classifications
- Clamping profile tightly tracks AC sine wave
- Real-time diagnostics monitor power and suppression status
- Six protected outlets
- Resettable circuit breaker and internal fusing
- May be wall-mounted
- Equipped with a 6-foot or 15-foot (on select models), 14-3 AWG power cord (12-3 AWG power cord on 20A models)
- Lifetime Limited Downline Warranty for device & equipment plugged into it



5300-HTS



5300-PSC



5100-PS

PLUG STRIPS

| Description | Cat. No. | Rating | Application |
|---|----------|-------------|---|
| 6-Outlet Plug Strip w/ON/OFF Switch | 5300-PS | 15A-120V AC | Data-sensitive operations |
| 6-Outlet Plug Strip w/ON/OFF Switch w/15 ft. Power Cord | 5300-S15 | 15A-120V AC | Data-sensitive operations |
| 6-Outlet Plug Strip w/ON/OFF Switch | 5300-PST | 15A-120V AC | Telephone line/modem line protection |
| 6-Outlet Plug Strip w/ON/OFF Switch | 5300-PSC | 15A-120V AC | CATV line surge protection |
| 6-Outlet Plug Strip Hospital Grade Components | 5300-HTS | 15A-120V AC | Continues to supply power to load if protection is lost; rugged metal housing for use in rough environments |
| 6-Outlet Plug Strip w/6 ft. Power Cord Hospital Grade Components | 5300-HT2 | 20A-125V AC | Continues to supply power to load if protection is lost; rugged metal housing for use in rough environments |
| 6-Outlet Plug Strip w/15 ft. Power Cord Hospital Grade Components | 5300-H15 | 15A-125V AC | Continues to supply power to load if protection is lost; rugged metal housing for use in rough environments |
| 6-Outlet Plug Strip w/ON/OFF Switch | 5300-IPS | 15A-120V AC | Rugged metal housing for use in rough environments |
| Heavy-Duty 6-Outlet Plug Strip w/ON/OFF Switch | 5200-PS | 15A-120V AC | For microprocessor-based equipment |
| Heavy-Duty 6-Outlet Plug Strip w/ON/OFF Switch, w/15 ft. Power Cord | 5200-S15 | 15A-120V AC | For microprocessor-based equipment |
| General-Duty 6-Outlet Plug Strip | 5100-PS | 15A-120V AC | Compatible with Decora Home Control |
| General-Duty 6-Outlet Plug Strip, w/15 ft. Power Cord | 5100-S15 | 15A-120V AC | Compatible with UPS and SPS systems |
| General-Duty 6-Outlet Plug Strip | 5100-IPS | 15A-120V AC | Rugged metal housing for use in rough environments |
| General-Duty 6-Outlet Plug Strip | 5100-IS2 | 20A-120V AC | Rugged metal housing for use in rough environments |

CLAMPING PERFORMANCE

| Description | 5100-PS/S15 | 5100-IPS/IS2 | 5200-PS/S15 | 5300-PS Group | 5300-IPS |
|---|-------------|----------------------|-------------|---------------------------|----------------------|
| Max. single-pulse transient current (8x20 μ s, Amps peak) | 18kA | 45kA | 57kA | 96kA | 84kA |
| Rated single-pulse transient energy (10x1000 μ s, Joules) | 720 Joules | 900 Joules | 940 Joules | 1520 Joules | 1330 Joules |
| EMI/RFI noise rejection @ 50 Ohms 5kHz-100MHz | 10-30dB | 10-20dB @100k-100MHz | 40-50dB | 50-60dB | 10-20dB @100k-100MHz |
| Cat. A ringwave (6kV, 200A, 100kHz) | 370V | 336V | 230V | 190V | 269V |
| Cat. B ringwave (6kV, 500A, 100kHz) | 420V | 328V | 270V | 210V | 307V |
| Cat B impulse (6kV, 3kA, 8x20 μ s) | 490V | 369V | 370 | 310 | 324V |
| UL 1449 ratings (8x20 μ s @ 3kA) (L-N/L-G, N-G) | 400V | 400V | — | 330/400 for 5300-HTS only | 330V |

TESTING AND CODE COMPLIANCE

53000 HPS

- UL Listed 1363, 1449, 1283, 544 (File #118936)
- CSA Certified (File #LR-94773)
- Meets ANSI/IEEE C62.41 standards for both Categories A & B

MATERIAL CHARACTERISTICS

5100-PS, 5200-PS, 5300-PS

- Operating Temperature: 0°C to 40°C
- Storage Temperature: -35°C to 60°C

5300-HTS, 5300-HT2, 5300-H15

- Operating Temperature: 0°C to 60°C
- Storage Temperature: -35°C to 60°C

5100-IPS, 5300-IPS, 5100-IS2

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -35°C to 60°C

Industrial Grade

Wired-In Surge Protective Module — 51000 Series

Specifications and Features

- For use by OEMs who wish to include 120 or 240V surge protection as an equipment feature
- Available with DIN-rail mounting
- Provides surge protection to branch circuits
- Staged multi-component surge suppression circuitry provides clamping envelope that follows AC sine-wave contour
- Diagnostic circuitry, with LEDs, to indicate surge protection status and acoustic alert if surge protection is lost
- If surge protection is lost, power is still provided to load until SPD module is replaced
- Ten-Year Limited Product Warranty



WIRED-IN SURGE PROTECTIVE MODULES - 5100 SERIES

| Description | Cat. No. | Rating |
|---|-----------|--------------|
| Single-Phase, 3-Wire | 51005-WM | 5A, 120V AC |
| Single-Phase, 3-Wire | 51010-WM | 10A, 120V AC |
| Single-Phase, 3-Wire, DIN-Rail Mounting | 51005-DIN | 5A, 120V AC |
| Single-Phase, 3-Wire, DIN-Rail Mounting | 51010-DIN | 10A, 120V AC |
| Single-Phase, 3-Wire | 51015-WM | 15A 120V AC |
| Single-Phase, 3-Wire | 51020-WM | 20A 120V AC |
| Single-Phase, 3-Wire, w/DIN-rail mounting | 51020-DIN | 20A 120V AC |
| Single-Phase, 4-Wire | 51240-WM | 20A 240V AC |
| Single-Phase, w/DIN-rail mounting | 51240-DIN | 20A 240V AC |

PERFORMANCE SPECIFICATIONS

| Specification | 51005-WM, 51010-WM, 51005-DIN, 51010-DIN | 51015-WM, 51020-WM, 51020-DIN | 51240-WM, 51240-DIN |
|---|---|-------------------------------------|-------------------------------------|
| Max. Surge Current (Test w. 8x20µs wave) | Total: 52kA | Total: 96kA | Total Joules: 1760 |
| Noise Rejection | 20-50dB (@ 10K-100MHz) | 40-50dB (@ 5kH-100MHz) | 40-50dB (@ 5kH-100MHz) |
| Operating Frequency Range | 50, 60Hz | 50, 60Hz | 50, 60Hz |
| UL 1449 (2nd Ed.) Rating | L-N: 400V L-G: 400V N-G: 400V | L-N: 330V L-G: 330V N-G: 400V | L-N: 600V L-G: 330V N-G: 600V |
| MCOV | 150V AC | 150V AC | 270V AC |

Note: See your leviton representative for a complete listing of Low-Voltage Communication Protection modules for factory automation and industrial control applications.

TESTING AND CODE COMPLIANCE

- Recognized to UL Standard 1449
- CSA Certified

MATERIAL CHARACTERISTICS

- Operating Temperature: -40°C to 70°C
- Storage Temperature: -20°C to 85°C

Equipment Cabinet Surge Protection Modules 3800 Series

Specifications and Features

3800 Series

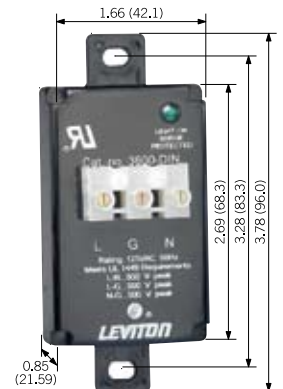
- MOV-based suppression circuitry provides optimum clamping
- Provides Normal Mode protection for line-to-neutral and common mode; line-to-ground and neutral-to-ground
- Noise rejection @ 5kHz-5MHz: -35db
- 3800: 135V (MCOV); 3840: 250V (MCOV)
- 3800-DIN, 3800-OWM: Terminal block accepts 22 AWG to 12 AWG conductors
- Ten-Year Limited Product Warranty

3880-DIN & 3801-DIN

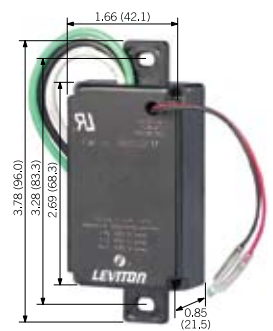
- Ideal for mounting in equipment cabinets where convenient plug-in surge protection is desired
- Green LED indicates surge protection loss
- Audible alarm
- Integral disable (quiet) switch — 3880-DIN
- Power continues to be provided to loads in the event of protection loss
- Terminal Block accepts #22-#12 AWG conductors
- Ten-Year Limited Product Warranty

EQUIPMENT CABINET SURGE PROTECTIVE MODULES 3800 SERIES

| Description | Cat. No. | Rating |
|--|----------|----------------|
| For DIN-Rail Mounting, w/Terminal Block; 120V AC | 3800-DIN | 120V AC (VRMS) |
| Terminal Block; 120V AC | 3800-OWM | 120V AC (VRMS) |
| Pigtail Wire Leads, 6" long; 120V AC | 3800-OEM | 120V AC (VRMS) |
| For DIN-Rail Mounting, w/Terminal Block; 24V DC | 3824-DIN | 24V DC |
| Terminal Block; 24V DC | 3824-OWM | 24V DC |
| For DIN-Rail Mounting, w/Terminal Block; 240V AC | 3840-DIN | 240V AC (VRMS) |
| Terminal Block; 240V AC | 3840-OWM | 240V AC (VRMS) |
| Pigtail Wire Leads; 6" long; 240V AC | 3840-OEM | 240V AC (VRMS) |
| For DIN-Rail Mounting, w/Terminal Block; 48V DC | 3848-DIN | 48V DC |
| Terminal Block; 48V DC | 3848-OWM | 48V DC |
| Pigtail Wire Leads; 6" long; 48V DC | 3848-OEM | 48V DC |



3800-DIN



3800-OEM

Industrial Grade

CLAMPING PERFORMANCE AND PERFORMANCE SPECIFICATION

| Clamping Performance | Mode | Cat. No. 3800 | | Cat. No. 3840 | |
|--------------------------------------|---------------|---------------|---------------|---------------|---------|
| | | Voltage | Current | Voltage | Current |
| UL 1449 (8x20µs) | L-L | - | - | 800Vpk | 48kApk |
| | L-N | 500Vpk | 24kApk | 500Vpk | 24kApk |
| | L-G | 600Vpk | 12kApk | 600Vpk | 24kApk |
| | N-G | 600Vpk | 12kApk | 600Vpk | 12kApk |
| Maximum Continuous Operating Voltage | L-L | - | - | 260 V AC | - |
| | L-N | 130 V AC | - | 130 V AC | - |
| Strike Voltage Breakdown | Cat. No. 3824 | | Cat. No. 3848 | | |
| | 100 V/µs | 100 V/s | 100 V/µs | 100 V/s | |
| UL4978 | 33.1-38.2 V | 18.2-19.2 V | 51.8-71.8 V | 24.0-28.0V | |

Consult factory for detailed performance data for other models.



3840-DIN

EQUIPMENT CABINET SURGE PROTECTIVE RECEPTACLES

| Description | Cat. No. | Rating |
|---------------------------------------|----------|-------------|
| Hospital Grade Duplex Receptacle 60Hz | 3880-DIN | 15A-120V AC |
| Single Convenience Outlet 60Hz | 3801-DIN | 15A-120V AC |

PERFORMANCE DATA (3880-DIN, 3801-DIN)

| Clamping Voltage* | MCOV† | Max. Single Pulse Transient Current (8x20µs, Amps peak) | EMI-RFI Noise Rejection @50 ohms 5kHz-5MHz |
|-------------------|---------|---|--|
| 400/400/400V pk | 150Vrms | 24kA(L-N), 12kA(L-G/N-G) | -35dB |

*UL 1449 Suppressed Voltage Ratings (SVR) Assigned at 6" length with 6k/500A per UL1449 (2nd Ed.)

†Maximum Continuous Operating Voltage



3880-DIN

TESTING AND CODE COMPLIANCE

- UL 1449 Listed (E146315/DC-E175161)
- CSA Certified (#LR-94773)
- Meets ANSI/IEEE C-62.41 & C-62.45 Categories A, B & C (B & C ONLY for Cat Nos. 3880-DIN & 3801-DIN)

MATERIAL CHARACTERISTICS

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 85°C

Low Voltage Type 4 UL Recognized Components

Specifications and Features

3400 & 3800 Series

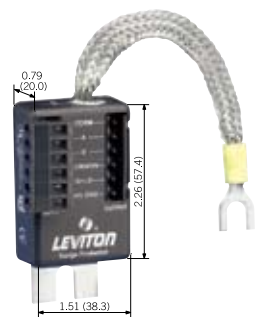
- Designed for mounting in standard equipment cabinets
- For use on Allen Bradley and “Blue Hose” devices
- Two options for ground connection
- Low clamping voltage
- Withstands surges at programmable logic devices in harsh electromagnetic or geographic areas
- Provides transient voltage surge suppression for a selection of programmable logic devices and other computer-related data network products
- Ten-Year Limited Product Warranty

51000-SMC Surge Counter

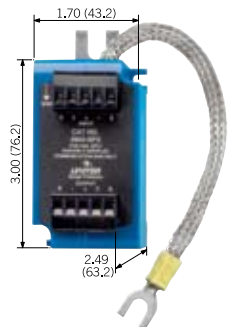
- Plug-in design provides fast, simple way to determine if surges are present
- 3 settings indicate different sensitivity thresholds based on IEEE C62.41 impulse and ringwave waveforms
- Key operated to prevent tampering
- Excellent tool for determining if you need surge protection in any environment
- Ten-Year Limited Product Warranty

3400 AND 3800 SERIES LOW VOLTAGE COMMUNICATION SURGE PROTECTIVE MODULES

| Description | Cat. No. | Rating | Application |
|--|-----------|----------|---|
| 3-Pin Header Connector, Surface Mount | 3803-DHP* | 9.6V DC | For programmable logic devices and other computer-related data network products operating on “Blue Hose” networks |
| 6-Pin Header Connector, Surface Mount | 3803-485* | 9.6V DC | For programmable logic other devices and and computer related data network products operating on Allen Bradley DH-485 data networks |
| 3-Pin Header Connector, Surface Mount | 3803-MOD | 9.6V DC | For products operating on Modbus and Modbus Plus networks |
| 3-Pin Header Connector, Surface Mount | 3420-009* | 9.6V DC | For products operating on 4-20ma Signal Loop networks, 9V DC |
| 3-PIN Header Connector, Surface Mount | 3420-035* | 38.5V DC | For products operating on 4-20ma Signal Loop networks, 38V DC |
| 4-Position Terminal Block Surface & DIN-rail Mount | 3860-GEF | 100V DC | For products operating on GE Fanuc Control Bus networks |
| RJ-45 Connector, Surface & DIN-Rail Mount | 3861-ETH | 19.8V DC | For products operating on CAT 3 networks |
| BNC Connector, Surface & DIN-Rail Mount | 3862-CON | 9.18V DC | For ControlNet networks |
| 5-Pin Header Connector Surface & DIN-Rail Mount | 3863-DEV | 19.8V DC | For DeviceNet networks |



3803-485



3803-SPX

Commercial Grade

Type 1 Surge Arresters

Specifications and Features

Secondary Surge Arresters

- Units come with 18" pigtail leads
- Constructed of high-impact, non-conductive, fiberglass-reinforced polycarbonate
- Compact design for easy installation
- LEDs and Audible Alarm
- Limited Lifetime Product Warranty



55175-ASA

SECONDARY SURGE ARRESTERS

| Description | Cat. No. | MCOV | Rating |
|---|-----------|---------|--|
| Secondary Surge Arrester w/ LED's and Audible Alarm | 55175-ASA | 180V AC | 120/240, 200A |
| Secondary Surge Arrester w/LEDs and Audible Alarm | 55650-ASA | 480V AC | 277/480V AC, 480V Delta 347/600V AC |

*MOV's rated at 150V. UL assigns a derated MCOV of 132V for surge arrester applications.

PERFORMANCE DATA

| Description | Cat. No. | Maximum Surge Current Rating | | |
|----------------|-----------|------------------------------|-------------|--------------|
| | | kA Total | kA per Mode | Joules Total |
| Surge Arrester | 55175-ASA | 140kA | 70kA | 1260 Joules |
| Surge Arrester | 55650-ASA | 210kA | 70kA | 7500 Joules |

TESTING AND CODE COMPLIANCE

- Surge arrester performance tested to IEEE C62.11 (10,000 amps/4 x 10 μs), IEEE C62.11, C62.41 & C62.45 Category C Standards
- UL Listed (#E146315)
- CSA Certified (#LR94773)

MATERIAL CHARACTERISTICS

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 85°C



Type 3 Point-of-Use Decora® Surge Protective Receptacles, Back and Side Wired

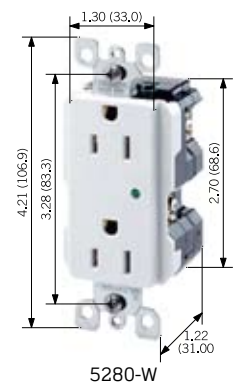
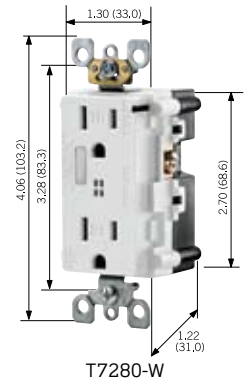
Leviton's line of Commercial Grade receptacles are available with a number of wiring options and features. The beauty, durability and versatility of Decora® devices and surge suppression receptacles are perfect for a variety of commercial applications.

Specifications and Features

- Point-of-use protection for up to 36,000 amps of surge current total
- Four 18mm MOV's enable energy absorption rating of 720 Joules
- Designed to provide enhanced EMI/RFI filtering
- Back and side wired design with durable metal mounting strap
- LED indicator monitors suppression status; optional Audible Alarm
- Available in optional Isolated Ground and Tamper Resistant versions
- DIN-rail mounted version also available
- Manufactured to ISO 9001:2000 standards
- Ten-Year Limited Product Warranty

DECORA SURGE PROTECTIVE RECEPTACLES, BACK AND SIDE WIRED  



| Description | Color | Cat. No. | Cat. No. |
|---|--------------|---|---|
| NEMA | |  |  |
| | | 5-15R | 5-20R |
| Rating | | 15A-125V | 20A-125V |
| Tamper Resistant Duplex, Surge with Indicator Light and Audible Alarm | White | T7280-W | T7380-W |
| | Ivory | T7280-I | T7380-I |
| | Light Almond | T7280-T | — |
| | Black | T7280-E | T7380-E |
| | Blue | T7280-B | T7380-B |
| Duplex, Surge with Indicator Light and Audible Alarm | White | 7280-W | 7380-W |
| | Ivory | 7280-I | 7380-I |
| | Light Almond | 7280-T | — |
| | Blue | 7280-B | 7380-B |
| Tamper Resistant Duplex, Surge with Indicator Light | White | T5280-W | T5380-W |
| | Ivory | T5280-I | T5380-I |
| | Light Almond | T5280-T | — |
| | Grey | T5280-GY | T5380-GY |
| | Black | T5280-E | T5380-E |
| | Brown | T5280 | T5380 |
| | Blue | T5280-B | T5380-B |
| Duplex, Surge with Indicator Light | White | 5280-W | 5380-W |
| | Ivory | 5280-I | 5380-I |
| | Light Almond | 5280-T | — |
| | Grey | 5280-GY | 5380-GY |
| | Brown | 5280 | 5380 |
| | Blue | 5280-B | 5380-B |



Continued On Next Page >

Commercial Grade

Continued From Previous Page >

| Description | Color | Cat. No. | Cat. No. |
|----------------------|--------|--|--|
| NEMA | |  5-15R |  5-20R |
| Rating | | 15A-125V | 20A-125V |
| Duplex, Surge, | White | 5280-IGW | 5380-IGW |
| Isolated Ground, | Ivory | 5280-IGI | 5380-IGI |
| with Indicator Light | Grey | — | 5380-IGG |
| | Brown | 5280-IG | 5380-IG |
| | Blue | 5280-IGB | 5380-IGB |
| | Orange | 5280-IGO | 5380-IGO |

TESTING AND CODE COMPLIANCE

Meets all NEMA WD 6, UL 498 and ANSI C-73 requirements

- UL Listed (File #E-317603)
- CSA Certified (File #152105)
- NOM Certified (#057)

MATERIAL CHARACTERISTICS

Environmental: Flammability, Rated V2
Operating Temperature: -40°C to 60°C

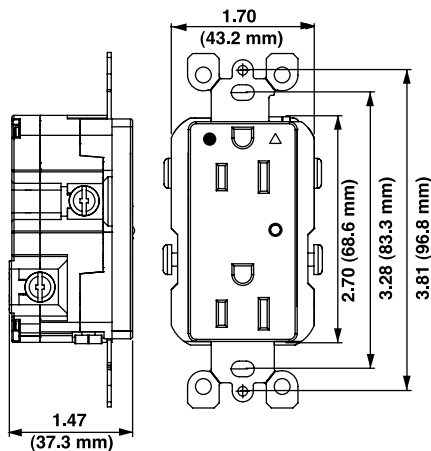
MECHANICAL

Terminal I.D.: Brass-Hot, White-Neutral, Green-Grounding
Terminal Accom.: #14-#10 AWG
Product I.D.: Ratings are permanently marked on device

ELECTRICAL

Dielectric Voltage: Withstands 2000V for UL 498
Current Interr.: Full rated current
Temp. Rise: Max 30°C after 250 cycles at 200% of rated current

DIMENSIONS



Type 3 Point-of-Use Surge Strips

Specifications and Features

Plug Strips (S1000 and S2000 Series)

- Slim, right-angle plug
- Ground pin to outside for more transformer configurations
- Diagnostic LEDs for surge protection, polarity and ground verification
- Resettable circuit breaker
- Power line carrier compatible
- Audible alarm indicates loss of protection
- Four non-skid rubber feet on the bottom
- Provides excellent surge suppression and EMI/RFI noise attenuation for microprocessor-driven electronic equipment
- Three-stage protection: line-to-neutral, line-to-ground, neutral-to-ground
- Built-in overload circuit-breaker switch with reset button
- Indicator lights confirm unit is operating and properly grounded
- Clamping voltage: 400V all modes

S1000 & S2000 SERIES PLUG STRIPS

| Description | Number of Outlets | Cord Length | Cat. No. |
|--|-------------------|-------------|-----------|
| S1000 Series Power Surge Strip | 6 | 6 ft. | S1000-OPS |
| S1000 Series TELCO/ CATV/SAT Surge Strip | 6 | 6 ft. | S1000-PTC |
| S1000-S15 Series Power Surge Strip | 6 | 15 ft. | S1000-S15 |
| S1000-NS Non-Surge, | 6 | 6 ft. | S1000-NS |
| S2000 Series Power Surge Strip | 9 | 6 ft. | S2000-OPS |
| S2000-S15 Series Power Surge Strip | 9 | 15 ft. | S2000-S15 |
| S2000 Series TELCO/ CATV/SAT Surge Strip | 9 | 6 ft. | S2000-PTC |



S1000



S2000

TESTING AND CODE COMPLIANCE

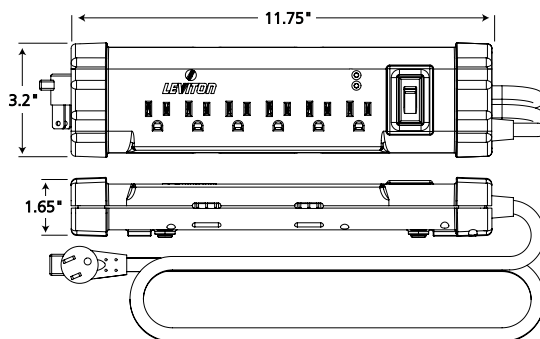
Plug Strips S1000 and S2000 Series

- CSA Certified
- UL Listed 1449
- Meets ANSI/IEEE C62.41 Edition 2.5 and C62.45

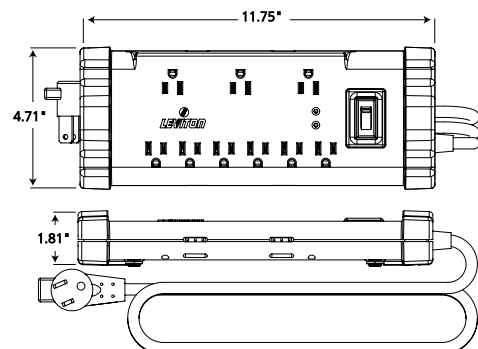
MATERIAL CHARACTERISTICS

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 85°C

DIMENSIONS



S1000



S2000

Residential Grade

Type 1 Surge Arresters

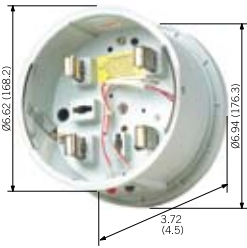
Specifications and Features

Meter Socket Surge Adapter

- Single 53mm MOV per line design (Line 1-Neutral, Line 2-Neutral) provides a higher energy capacity than smaller size (20mm) MOV's
- Superior to multiple small MOV configurations where the protection is only as good as the weakest MOV in the chain
- Rated for 140,000 peak amps maximum surge current
- Nominal clamping voltage per line: 800V
- Diagnostic LED's: Green indicates surge protection is active, Red indicates protection is no longer active
- Designed for 120/240 volt single-phase ringless or ring-type meters
- Rugged housing constructed of high-impact, non-conductive fiberglass-reinforced polycarbonate
- Available in popular jaw configurations, featuring spring-loaded, high-pressure copper-plated contacts for maximum conductivity
- Limited Lifetime Product Warranty

51120 Series

- 51120-3R features NEMA 3R enclosure



50240-MSA

METER SOCKET SURGE ADAPTER

| Description | Cat. No. | Rating |
|---|-----------|---------------------|
| Meter Socket Surge Adapter w/LED's Only | 50240-MSA | 120/240, 200A-4 Jaw |
| Meter Socket Surge Adapter w/LED's and Audible Alarm (Switchable) | 50240-ASA | 120/240, 200A-4 Jaw |

PERFORMANCE DATA

| Description | Cat. No. | Maximum Surge Current Rating | | |
|-----------------------------|-----------|------------------------------|-------------|--------------|
| | | kA Total | kA per Mode | Joules Total |
| Meter Socket Surge Arrester | 50240-MSA | 140kA | 70kA | 1260 Joules |

51120 SERIES SURGE PROTECTIVE PANELS

| Description | Cat. No. | Rating |
|--|----------|-------------|
| 1-Phase, 3-Wire & Ground; NEMA 3R Outdoor Enclosure | 51120-3R | 120/240V AC |

SURGE PROTECTIVE PANEL PERFORMANCE SPECIFICATIONS

| Cat. No. | MCOV | UL 1449 (2nd Ed) | Max. Surge |
|----------|---------|----------------------------|----------------------|
| | | Impulse (6kV/500A) Current | (Test w/8x20µs wave) |
| 51120-3R | 180V AC | L-N: 800V | L-N: 40kA |

TESTING AND CODE COMPLIANCE

- Surge arrester performance tested to IEEE C62.11 (10,000 amps/4 x 10 µs), IEEE C62.11, C62.41 & C62.45 Category C Standards
- UL Listed Surge Arrester
- CSA Certified (#LR94773)
- 51120 Series: UL Listed and CSA Certified

MATERIAL CHARACTERISTICS

- Operating Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 85°C

Type 2 Surge Panels

Specifications and Features

51110 Series

- 51110-PTC provides protection for 2 telco lines and 2 coax feeds
- Compatible with Decora Home Controls
- Ten-Year Limited Product Warranty (no connected equipment coverage)

51120 Series

- Standard J-Box metal enclosures
- Compatible with Decora Home Controls
- Limited Lifetime Warranty

51110 SERIES RESIDENTIAL SURGE PROTECTIVE PANELS

| Description | Cat. No. | Rating |
|--|-----------|-------------|
| 1-Phase, 3-Wire & Ground | 51110-1 | 120/240V AC |
| Multimedia Panel: 1-Phase, 3-Wire & Ground with two pairs of phone/fax/modem terminals and CATV/Satellite F-Connectors | 51110-PTC | 120/240V AC |



51110-PTC

51120 SERIES SURGE PROTECTIVE PANELS

| Description | Cat. No. | Rating |
|------------------------------|----------|-------------|
| 1-Phase, 3-Wire & Ground | 51120-1 | 120/240V AC |
| 3-Phase WYE, 4-Wire & Ground | 51120-3 | 120/208V AC |

NOTE: Cat. No. 51120-3 is a COMMERCIAL GRADE product.



51120-1

SURGE PROTECTIVE PANEL PERFORMANCE SPECIFICATIONS

| Cat. No. | MCOV | UL 1449 (2nd Ed) | | Max. Surge (Test w/8x20µs wave) |
|-----------|----------|----------------------------|-----------|------------------------------------|
| | | Impulse (6kV/500A) Current | | |
| 51110-1 | 150 V AC | L-N: 400V | L-L: 800V | L-N: 26kA |
| 51110-PTC | 150V AC | L-N: 400V | L-L: 800V | L-N: 48kA |
| 51120-1 | 150V AC | L-N: 500V | L-L: 800V | L-N: 40kA |
| 51120-3 | 150V AC | L-N: 500V | L-L: 800V | L-N: 40kA |

TESTING AND CODE COMPLIANCE

- UL Listed 1449
- Meets ANSI/IEEE C62.41 & C62.45 requirements for Categories A, B & C
- 51110 Series: CUL/US Certified
- 51120 Series: UL Listed and CSA Certified

Residential Grade

Type 3 Point-of-Use Plug-In SPD

Specifications and Features

General Purpose Plug-Ins

- Six outlets
- RFI filtering
- 3-stage protection: line-to-neutral, line-to-ground, neutral-to-ground
- Built-in fuse protection
- Monitor lights ON indicates circuit is powered and protected
- Ten-Year Limited Product Warranty



3500-P



3500-PT

GENERAL PURPOSE PLUG-IN'S

| Description | Cat. No. | Rating |
|---|----------|----------|
| 6-Outlet Plug-in w/Power & Circuit Monitor Lights UL 1449 (All Modes) 400V | 3500-P | 15A 120V |
| 6-Outlet Plug-in w/two RJ11 Phone Jacks, UL 1449 (All Modes) 400V | 3500-PT | 15A 120V |
| 6-Outlet Plug-in w/two F Coax Cable Connectors, UL 1449 (All Modes) 400V | 3500-PC | 15A 120V |

TESTING AND CODE COMPLIANCE

- UL Listed 1449
- Meets ANSI/IEEE C62.41 & C62.45 requirements for Categories A, B & C