

Industrial, Commercial and Residential Surge Protective Devices (SPDs)

SELECTION GUIDE



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What is UL 1449?

Underwriters Laboratories' safety and performance standard for surge protection equipment is composed of three main features.

1. Secondary Surge Arresters:

These are typically mounted outdoors and prior to service entrance equipment. This ensures that line side devices will be manufactured with safety related protection similar to load side devices.

2. Nominal Discharge Current Rating (I_N):

This allows users to compare a surge protective device's durability.

3 Voltage Protection Rating (VPR):

This test is performed at 3000 Amps as opposed to 500 Amps in order to must show improved performance to obtain recommended VPR levels of surge protection.

Understanding the Terminology

The requirements for SPDs are identified by Type 1, 2, 3, 4 or 5 depending upon where the SPD will be incorporated within the power distribution system.

Type 1 SPDs:

Typically mounted on the line side of the main service entrance. Protects against external surges caused by lightning or utility capacitor bank switching. Type 1 devices can automatically be used in Type 2 applications, so that is why we often refer to them as Type 1/Type 2.

Type 2 SPDs:

Generally serves a branch circuit and protects against residual lightning energy, motor driven surges and other internally generated surges.

Type 3 SPDs:

Often used at the protected equipment. Provides point-of-use protection, easily replaceable and it provides the last line of defense against a lightning strike.

Type 4 SPDs:

Component assemblies consisting of one or more Type 5 components together with a disconnect (integral or external) or a means of complying with the limited current tests in UL 1449.

Type 5 SPDs:

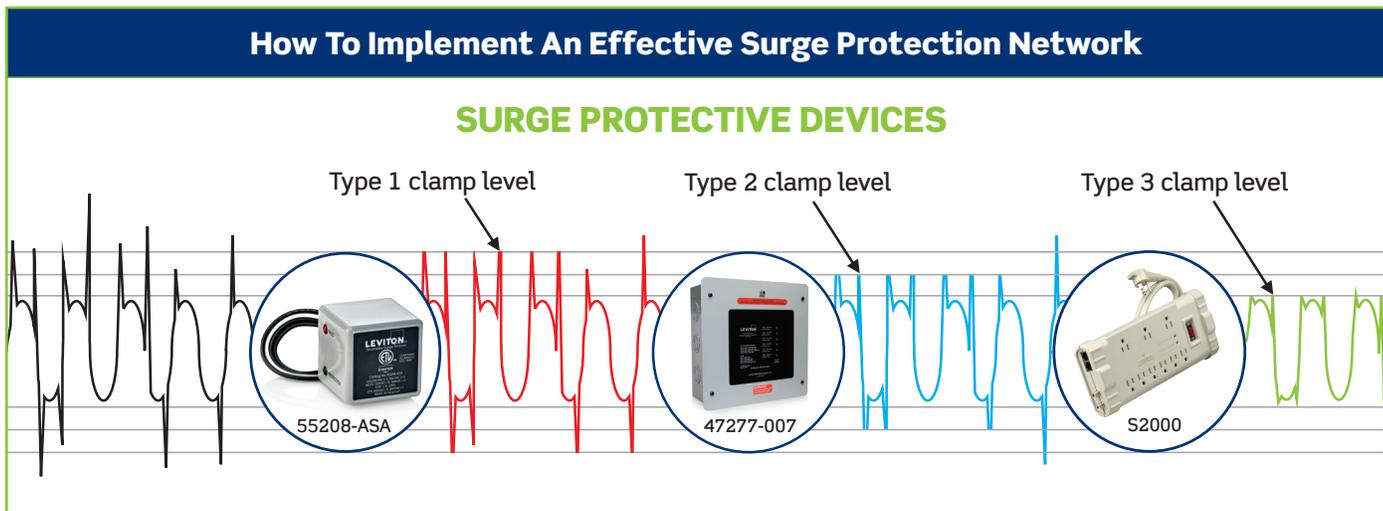
Discrete component surge suppressors connected by its leads or provided with an enclosure with mounting means and wiring terminations.



Surge Protective Devices (SPDs)

Surge Protection Network Implementation

In order to achieve optimum protection for your equipment, it is essential to utilize a distributed surge suppression strategy. Installing surge protective devices (SPDs) will knock down high-energy transients at the building entrance and/or sub-panel so that the surge is manageable for the smaller SPDs that protect point-of-use equipment. Leviton offers a comprehensive selection of devices to implement the most effective surge protection network.



The Good, Better, Best Approach to “Whole House” Surge Protection



Good

Surge Protective Plug-Ins or Strips to plug your tablet, refrigerator, or even your HDTV into.



Better

Surge Protective Plug-Ins or Strips **AND** a Surge Protective Panel that protects your main electrical panel.



Best

Surge Protective Plug-Ins or Strips **AND** a Surge Protective Panel that protects your main electrical panel **AND** a Panel Mounted Device like the 51110 which you would install by your main service entrance (between the utility pole and where your electricity enters your service panel).



Type 1/Type 2 Surge Protective Devices



55000 Series

DEVICE SPECIFICATIONS APPEAR ON PAGE 13

- NEMA Type 3R enclosure for indoor or outdoor use
- Indicator lights showing protection status
- Provided with #10 AWG stranded, 18 in. long pigtail leads
- Limited Lifetime Product Warranty
- Connected equipment coverage up to \$10,000*

51120-3R

DEVICE SPECIFICATIONS APPEAR ON PAGE 13

- Standard J-Box enclosure with pre-punched standard knock-outs can be easily surface mounted in typical frame construction
- Indicator lights showing protection status
- Provided with #12 AWG stranded, 28 in. long cord
- May also be used in Type 2 applications
- Connected equipment coverage up to \$25,000*



51110 Panel Mount

DEVICE SPECIFICATIONS APPEAR ON PAGE 13

- Indicator lights showing protection status
- UL1449 Edition rated
- Compatible with home automation systems
- 150 maximum continuous operating voltage (MOV) rating allows for tolerance to line voltage swells
- 10-Year limited warranty
- Connected equipment coverage up to \$25,000*

*Certain restrictions apply

Type 2 Surge Protective Devices



52000 and 57000 Series MODULAR

DEVICE SPECIFICATIONS APPEAR ON PAGES 15 & 16

- Service/branch panel protection for commercial, industrial and residential applications
- Parallel-operated design ensures continuous power even if surge protection is disabled
- Protection for up to 100,000 amps (52000 Series) or 150,000 amps (57000 Series) of surge current per mode
- Loss of phase detection status
- AC Sine Wave tracking provides enhanced EMI/RFI filtering
- NEMA Type 12 enclosure resists dirt, dust and light splashing water
- Models available with Surge Counter or Integral Disconnect Switch
- Limited lifetime product warranty with free replacement modules*

*Certain restrictions apply

37000 and 47000 Series NON-MODULAR

DEVICE SPECIFICATIONS APPEAR ON PAGE 17

- Can be used in commercial and industrial applications
- Protection for up to 100,000 amps (37000 Series) or 200,000 amps (47000 Series) of surge current per mode
- Loss of phase detection status
- Models available in NEMA Type 1 enclosures for indoor applications and Type 4X enclosures (47000 series only) for outdoor applications
- Seven-Mode Protection (each phase to neutral, each phase to ground and neutral to ground)
- Real-time diagnostics monitor power and suppression status for each phase and provide both LED indicators and audible alarm
- Equipped with dry contacts for remote monitoring
- Limited lifetime product warranty



Type 2 Surge Protective Devices

32000 and 42000 Series Panel Mount NON-MODULAR

DEVICE SPECIFICATIONS APPEAR ON PAGE 18

- Provide protection for up to 80kA of surge current per mode
- 32000 Series features reduced noise filtering for optimum compatibility with home controls
- 42000 Series incorporates enhanced noise filtering and sine wave tracking for superior protection
- Loss of phase detection status
- Three-phase models can be wired for either WYE or Delta AC systems
- Equipped with indicator lights and audible alarm for monitoring power and surge suppression status
- NEMA Type 3R enclosure for indoor/outdoor applications
- Optional flush mount collar available (42001-FMC)
- Limited lifetime product warranty



51120 Series Panel Mount NON-MODULAR

DEVICE SPECIFICATIONS APPEAR ON PAGE 18



- Can be used in commercial and residential applications
- Single high-energy solid-state semiconductor surge suppression circuitry per phase
- Real-time diagnostic visual indicator shows power and suppression status for each protected phase
- Standard J-Box enclosure with pre-punched standard knock-outs can be easily surface mounted in typical frame construction
- Feature a low VPR to ensure protection of sensitive electronic devices including LCD TVs and computers
- Compatible with Leviton Decora Home Controls
- Limited Lifetime Product Warranty
- Connected equipment coverage up to \$25,000 for the 51120-1

Type 3 Surge Protective Devices

Surge Protective Receptacles

DEVICE SPECIFICATIONS APPEAR ON PAGE 19

The value of these receptacles and ease of installation allow for placement anywhere you have a standard electrical outlet. With a small investment, you have the assurance that your equipment is well protected, from a heart monitor in the emergency room, to a computer in the office, or the big screen TV in a living room.



- 15A, 125V and 20A, 125V ratings
- Tamper-Resistant versions
- Indicator light
- Single, Duplex and 4-in-1 versions
- EMI/RFI Noise Filtering
- Audible alarm
- Wide variety of color options
- Back and side-wired design with durable metal mounting strap
- Point-of-use protection for up to 18,000 amps of surge current total

S1000 and S2000 Series Surge Protective Strips

DEVICE SPECIFICATIONS APPEAR ON PAGE 19

These devices provide superior protection in commercial and residential environments by protecting computers, peripherals and other electronic devices from surges, voltage transients and noise spikes.

- Indicator lights
- Internal circuit breaker
- Audible alarm
- Multi-line protection (L-N, L-G, N-G)
- Velcro straps provided for cord management
- Mounting template provided for easy installation
- Optional Coax and Telco surge protection
- All units feature right angle NEMA 5-15P Plug
- Limited Lifetime Product Warranty
- Connected Equipment Protection Policy



Type 3 Surge Protective Devices

5100 and 5300 Series

DEVICE SPECIFICATIONS APPEAR ON PAGE 20

These strips offer protection for any Commercial, Industrial, or Hospital application. They are available in two performance levels to address surge protection needs in a variety of commercial and industrial environments. Our Hospital version strips feature tamper-resistant hospital grade receptacles.

- Industrial strips feature metal housings while Commercial Grade strips feature thermoplastic housing
- Hospital Grade strips feature tamper-resistant hospital grade receptacles
- Multi-Line protection (L-N, L-G, N-G)
- 6 surge protected outlets
- LEDs indicate power and protection status
- Onboard resettable circuit breaker
- Limited Lifetime Product Warranty
- Connected Equipment Protection Policy



Medical Grade Power Strips

DEVICE SPECIFICATIONS APPEAR ON PAGE 21

These medical-grade power strips are designed explicitly for use in health care facilities, including patient care spaces as defined by NEC Article 517. These devices also satisfy electrical safety requirements specified in NFPA 99: Health Care Facilities Code.



- Available in 2, 4 and 6 outlet configurations
- Choice of 7' or 15' AC power cord
- Hospital Grade outlets
- Compatible with Isolated Power Systems
- UL 1449 compliant
- Heavy duty steel construction
- Built-in overload protection shuts off the strip in case of excess power draw, and can be returned to service with the simple push of a button
- UL 60601-1, UL 1363A, and UL 60950-1 compliant
- Easily accommodates surface mounting and IV pole mounting with the use of the mounting bracket
- NAFTA Compliant
- Flying leads available on cords up to 15' long
- Locking safety covers are splash-resistant and protect from incidental contact with unused outlets
- Indicator lights
- Optional audible alarm for protection status available*
- Limited Lifetime Warranty

*Special order – Contact Leviton sales representative for details.

Type 4 Surge Protective Devices

3800 Series

DEVICE SPECIFICATIONS APPEAR ON PAGE 22

These devices provide wired-in surge protection for devices in industrial and commercial equipment cabinets.

- Suitable for 125V AC applications
- UL recognized components
- Available in standard equipment or DIN rail mount with terminal block for connections, or standard equipment mount with 6" long wire leads for termination and remote LED.
- MOV-based suppression circuitry provides optimum clamping
- Type 4 Surge Protected Devices (SPD) evaluated for use in Type 2 SPD applications
- Tested to ANSI/IEEE C62.41 and C62.45 standards for category A & B applications
- Terminal-Block accepts 14 AWG or 12 AWG conductors
- 10-Year Limited Product Warranty



DIN Rail Mount Receptacles

DEVICE SPECIFICATIONS APPEAR ON PAGE 22

The DIN Rail Series provide mounting in equipment cabinets where plug-in surge protection is needed.

- 120V single and duplex outlet configurations
- Provide MOV-based normal mode and common mode L-N, L-G, N-G surge protection
- Hospital Grade Receptacle ensures a secure plug-to-receptacle connection
- LED indicator light goes off when surge protection is lost
- Audible alarm with disable/quiet switch also indicates loss of surge protection
- Outlet continues to provide power to connected load in the event of a loss of protection

Low-Voltage (DC) Surge Protection Modules

3800 Series

DEVICE SPECIFICATIONS APPEAR ON PAGE 23

These devices are designed for mounting in standard equipment cabinets where surge suppression is desired for the enclosed equipment.



- UL recognized components
- Compact black box styling
- MOV-based suppression circuitry provides optimum clamping
- Standard equipment mount and DIN-rail mount configurations
- MOV-based suppression circuitry provides optimum clamping
- Wired-in equipment cabinet surge protection for 12V, 24V and 48V DC applications
- Terminal Block connections for 22AWG to 14AWG conductors
- 10-Year Limited Product Warranty

3400/3800 Series Modules

DEVICE SPECIFICATIONS APPEAR ON PAGE 23

These modules are designed to provide data linesurge protection for factory automation and industrial control devices.

- Available in various DC voltage configurations, connection types and mounting styles
- Designed for mounting in standard equipment cabinets
- Wired-in surge protection for PLCs and other data networking devices
- Withstands surges at PLC devices in harsh industrial and high EMI environments
- Low clamping voltage
- 10-Year Limited Product Warranty





Specifications

TYPE 1/TYPE 2 — 55000 Series, 51120-3R and 51110-SRG

Catalog Number	55240-ASA	55208-ASA	55480-ASA	51120-3R	51110-SRG
Electrical Specifications					
Voltage	120/240V Single Phase	120/208V 3Ø WYE, 240V 3Ø Delta	277/480V 3Ø WYE, 480V 3Ø Delta	120/240V Single Phase	120/240V AC, Single-Phase
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Surge Technology	TPMOV	TPMOV	TPMOV	TPMOV	MOV
Amperage	—	—	—	—	-
Recommended Circuit Breaker Rating	—	—	—	—	20A, 120/240V
Performance Data					
Nominal Discharge Rating (I _n)	20kA	20kA	20kA	20kA	3kA
Maximum Continuous Operating Voltage (MCOV)	150V	150V	320V	150V(L-N)/300V(L-L)	150V(L-N)/300V (L-L)
Maximum Surge Current, Per Mode (Per Phase)	50kA (100kA)	50kA (100kA)	50kA (100kA)	50kA (100kA)	48kA (96kA)
Short Circuit Current Rating	—	—	—	—	10kA
Voltage Protection Rating (VPR) (Clamping)	600V(L-N)/800V(L-L)	600V(L-N)/800V(L-L)	700V(L-N)/800V(L-L)	500V(L-N)/800V(L-L)	600V(L-N)/1000V (L-L)
Diagnostics	Protection Status LEDs & Audible Alarm			Protection Status LEDs	Protection status LEDs
EMI/RFI Noise Filtering	—			—	-6dB to -28dB (@100KHz to 100MHz)
Mechanical Specifications					
Connection Type	Parallel Connection: Hardwired via 10AWG wire			Parallel Connection: Hardwired via 12AWG wire	Hardwired Paralell Connection
Environmental Specifications					
Flammability	Rated V-2 per UL 94			Rated V-2 per UL 94	Rated V-2 per UL 94**
Operating Temperature	-10°C to 60°C			-10°C to 60°C	-10°C to 60°C
Storage Temperature	-20°C to 85°C			-20°C to 85°C	-20°C to 85°C
Enclosure Type	NEMA 3R			NEMA 3R	NEMA 4X
Relative Humidity	—			—	5% to 95% non-condensing
Material Specifications					
Enclosure	Polycarbonate with UV Inhibitors			Powder Coated Steel Outer Enclosure; Polycarbonate Module Enclosure	—
Contacts	—			—	—
Standards & Certifications					
Agency Certification	ETL Certified to be in compliance with UL 1449 Type 1 Device				cULus 1449 Listed Type 1/2
National Electric Code (NEC)	285				—
ANSI/IEEE Category C	C-62.11, C-62.41 & C-62.45				C-62.41, & C-62.45
Warranty					
Product Warranty	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime	10-year Limited
Connected Equipment Coverage	Up to \$10,000*	Up to \$10,000*	Up to \$10,000*	Up to \$25,000*	Up to \$25,000*

* As part of the True Whole House Surge Protection Warranty

** 200 Amp only when using Murray Cat. No. RH173CRF meter socket; otherwise 175 Amp

** Flammability rating applies to module only

TYPE 2 — Surge Protective Devices: Quick Reference

Catalog Number	Max Surge Current, Per Mode (Per Phase)	Nominal Discharge Current (I_n)	Replaceable Modules	NEMA Enclosure	Surge Counter	Noise Filtering
120V and 120/240V, Single-Phase						
52120-M1	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52120-M2	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52120-CM2	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
52120-M2H	100kA (200kA)	20kA	Yes	Type 12	No	Yes
32120-1	80kA (160kA)	3kA	No	Type 3R	No	Yes
42120-1	80kA (160kA)	3kA	No	Type 3R	No	Yes
51120-1	50kA (100kA)	3kA	No	Type 1	No	Yes
51110-SRG	48kA (96kA)	3kA	No	Type 4X	No	No
120/208V, Three-Phase WYE						
47120-7	200kA (400kA)	10kA	No	Type 1	No	Yes
47120-4X7	200kA (400kA)	10kA	No	Type 4X	No	Yes
57120-M3	150kA (300kA)	20kA	Yes	Type 12	No	Yes
57120-CM3	150kA (300kA)	20kA	Yes	Type 12	Yes	Yes
52120-M3	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52120-CM3	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
52120-7M3, 52120-7MS	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52120-7C3, 52120-7CS	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
51120-3	50kA (100kA)	3kA	No	Type 1	No	Yes
37120-7	100kA (200kA)	5kA	No	Type 1	No	Yes
120/208V, Three-Phase WYE or 208V, Three-Phase Delta or 220V, Three-Phase Delta						
32120-DY3	80kA (160kA)	3kA	No	Type 3R	No	Yes
42120-DY3	80kA (160kA)	3kA	No	Type 3R	No	Yes
120/240/120V, Three-Phase Hi-leg Split Phase Delta						
52412-DS3	100kA (200kA)	20kA	Yes	Type 12	No	Yes
32412-DS3	80kA (160kA)	3kA	No	Type 3R	No	Yes
42412-DS3	80kA (160kA)	3kA	No	Type 3R	No	Yes
220/380V, Three-Phase WYE or 277/480V, Three-Phase WYE or 240V, Three-Phase Delta or 480V, Three-Phase Delta						
32277-DY3	80kA (160kA)	3kA	No	Type 3R	No	Yes
42277-DY3	80kA (160kA)	3kA	No	Type 3R	No	Yes
240V, Three-Phase Delta						
57240-DM3	150kA (300kA)	20kA	Yes	Type 12	No	Yes
52240-DM3	100kA (200kA)	20kA	Yes	Type 12	No	Yes
277/480V, Three-Phase WYE						
47277-7	200kA (400kA)	10kA	No	Type 1	No	Yes
47277-4X7	200kA (400kA)	10kA	No	Type 4X	No	Yes
57277-M3	150kA (300kA)	20kA	Yes	Type 12	No	Yes
57277-CM3	150kA (300kA)	20kA	Yes	Type 12	Yes	Yes
52277-M3	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52277-CM3	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
52277-7M3, 52277-7MS	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52277-7C3, 52277-7CS	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
37277-7	100kA (200kA)	5kA	No	Type 1	No	Yes
480V, Three-Phase Delta						
57480-DM3	150kA (300kA)	20kA	Yes	Type 12	No	Yes
52480-DM3	100kA (200kA)	20kA	Yes	Type 12	No	Yes

TYPE 2 — 57000 Series

Catalog Number	57120-M3, 57120-CM3	57240-DM3	57277-M3, 57277-CM3	57480-DM3
Electrical Specifications				
Voltage	120/208VAC 3-phase WYE	240VAC 3-phase Delta	277/480VAC 3-phase WYE	480VAC 3-phase Delta
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Surge Technology	40mm MOV	40mm MOV	40mm MOV	40mm MOV
Recommended Circuit Breaker Rating	30A, 120V	30A, 240V	30A, 277V	30A, 480V
Performance Data				
Nominal Discharge Rating (I _n)	20 kA	20 kA	20 kA	20 kA
Maximum Continuous Operating Voltage (MCOV)	L-N	150V	—	320V
	L-G	300V	—	640V
	N-G	150V	—	320V
	L-L	300V	320V	640V
Maximum Surge Current, Per Mode (Per Phase)	150kA (150kA)	150kA (150kA)	150kA (150kA)	150kA (150kA)
Voltage Protection Rating (VPR)	L-N	1000V	—	1500V
	L-G	1500V	—	2500V
	N-G	800V	—	1200V
	L-L	1500V	1500V	2500V
Protection Mode	4 Mode	3 Mode	4 Mode	3 Mode
Short Circuit Current Rating (SCCR)	100kA	100kA	100kA	100kA
EMI/RFI Noise Rejection	-20 to -40dB (@ 1.5K-1.2MHz)			
Diagnostics	Real Time Protection Status LEDs & Audible Alarm			
Mechanical Specifications				
Connection Type	Parallel-hardwired, feed-through dual wire terminal block: Accepts up to #3 AWG wire			
Remote Monitoring	Dry Contacts-N.O./N.C. Form C Rated at 7Amps @ 240VAC or 30VDC			
Environmental Specifications				
Enclosure Type	NEMA 12			
Operating Temperature	-20°C to 40°C			
Storage Temperature	-20°C to 85°C			
Flammability	Rated V-2 per UL 94			
Relative Humidity	5% to 95% non-condensing			
Material Specifications				
Enclosure	Powder Coated Steel			
Standards & Certifications				
Agency Certification	cULus Listed Type 2			
ANSI/IEEE Category A, B & C	C-62.41 & C-62.45			
Warranty				
Product Warranty	Limited Lifetime			
Replacement Module Warranty	Limited Lifetime*			

¹Surge Voltage Rating (SVR)

*Certain restrictions apply

TYPE 2 — 52000 Series

Catalog Number	52120-M1	52120-M2 52120-CM2	52120-M2H	52120-M3 52120-CM3	52120-7M3 52120-7C3 52120-7MS 52120-7CS	52240-DM3	52277-M3 52277-CM3	52277-7M3 52277-7C3 52277-7MS 52277-7CS	52480-DM3	52412-DS3	
Electrical Specifications											
Voltage	120VAC	120/ 240VAC	120/ 240VAC	120/ 208VAC 3-phase WYE	120/ 208VAC 3-phase WYE	240VAC 3-phase Delta	277/ 480VAC 3-phase WYE	277/ 480VAC 3-phase WYE	480VAC 3-phase Delta	120/240/ 120VAC 3-phase Hi-Leg Delta	
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	
Surge Technology	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	
Recommended Circuit Breaker Rating	30A, 120V	30A, 120/240V	30A, 120/240V	30A, 120/208V	30A, 120/208V	30A, 240V	30A, 277/480V	30A, 277/480V	30A, 480V	30A, 120/240V	
Performance Data											
Nominal Discharge Rating (I _n)	20kA	20kA	20kA	20kA	20kA	20kA	20kA	20kA	20kA	20kA	
Maximum Continuous Operating Voltage (MCOV)	L-N	150V	150V	150V	150V	150V	—	320V	320V	—	L-N:150V H-N:320V
	L-G	300V	300V	300V	300V	150V	—	640V	320V	—	L-G:300V H-G:470V
	N-G	150V	150V	150V	150V	150V	—	320V	320V	—	150V
	L-L	—	300V	300V	300V	300V	320V	640V	640V	550V	L-L:300V H-L:470V
Maximum Surge Current, Per Mode (Per Phase)	100kA (200kA)	100kA (200kA)	100kA (200kA)	100kA (200kA)	100kA (200kA)	100kA (200kA)	100kA (200kA)	100kA (200kA)	100kA (200kA)	100kA (200kA)	
Voltage Protection Rating (VPR)	L-N	1000V	1000V	1000V	1000V	1000V	—	1500V	1500V	—	L-N:1000V H-N:1500V
	L-G	1500V	1500V	900V	1500V	1200V	—	2500V	1500V	—	L-G:1500V H-G:2000V
	N-G	700V	700V	700V	700V	700V	—	1200V	1200V	—	700V
	L-L	—	1500V	1500V	1500V	1500V	1500V	2500V	2500V	2000V	L-L:1500V H-L:2500V
Protection Mode	2 Mode	3 Mode	3 Mode	4 Mode	7 Mode	3 Mode	4 Mode	7 Mode	3 Mode	4 Mode	
Short Circuit Current Rating (SCCR)	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	
EMI/RFI Noise Filtering	-20dB to -40dB (50KHz-10MHz)										
Diagnostics	Real Time Protection status LEDs & Audible Alarm										
Remote Monitoring	Dry Contacts-N.O./N.C. Form C Rated at 7Amps @ 240VAC or 30VDC										
Mechanical Specifications											
Connection Type	Parallel-hardwired, feed-through dual wire terminal block: Accepts up to #3 AWG wire										
Environmental Specifications											
Enclosure Type	NEMA 12										
Operating Temperature	-20°C to 40°C										
Storage Temperature	-20°C to 85°C										
Flammability	Rated V-2 per UL 94										
Relative Humidity	5% to 95% non-condensing										
Material Specifications											
Enclosure	Powder Coated Steel										
Standards & Certifications											
Agency Rating	cULus Listed Type 2										
ANSI/IEEE Category A, B & C	C-62.41 & C-62.45										
Warranty											
Product Warranty	Limited Lifetime										
Replacement Module Warranty	Limited Lifetime*										

*Certain restrictions apply

TYPE 2 — 37000 and 47000 Series

Catalog Number	37120-7	37277-7	47120-7	47120-4X7	47277-7	47277-4X7
Electrical Specifications						
Voltage	120/208 VAC 3-phase WYE	277/480 VAC 3-phase WYE	120/208 VAC 3-phase WYE	120/208 VAC 3-phase WYE	277/480 VAC 3-phase WYE	277/480 VAC 3-phase WYE
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Surge Technology	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV
Recommended Circuit Breaker Rating	30A, 120/208V	30A, 277/480V	30A, 120/208V	30A, 120/208V	30A, 277/480V	30A, 277/480V
Performance Data						
Nominal Discharge Rating (I _N)	5kA	5kA	10kA	10kA	10kA	10kA
Maximum Continuous Operating Voltage (MCOV)	L-L	280V	640V	280V	280V	640V
	L-N	140V	320V	140V	140V	320V
	L-G	140V	320V	140V	140V	320V
	N-G	130V	300V	130V	130V	300V
Maximum Surge Current, Per Mode (Per Phase)	100kA (200kA)	100kA (200kA)	200kA (400kA)	200kA (400kA)	200kA (400kA)	200kA (400kA)
Voltage Protection Rating (VPR)	L-L	1200V	2000V	1000V	1000V	1800V
	L-N	800V	1200V	700V	700V	1200V
	L-G	900V	1500V	900V	900V	1500V
	N-G	700V	1200V	700V	700V	1200V
Short Circuit Current Rating (SCCR) Protection Modes	10kA	10kA	10kA	10kA	10kA	10kA
Protection Mode	7 Mode					
Noise Filtering	-40dB @ 10K - 10MHz					
Diagnostics	Real Time Protection status LEDs & Audible Alarm					
Mechanical Specifications						
Connection Type	Hardwire Using Terminal Block: Accepts up to #6 AWG wire					
Environmental Specifications						
Enclosure Rating	NEMA Type 1	NEMA Type 1	NEMA Type 1	NEMA Type 4x	NEMA Type 1	NEMA Type 4x
Operating Temperature	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
Storage Temperature	-20°C to 85°C	-20°C to 85°C	-20°C to 85°C	-20°C to 85°C	-20°C to 85°C	-20°C to 85°C
Flammability	Rated V-2 per UL 94					
Relative Humidity	5% to 95% non-condensing					
Material Specifications						
Enclosure	Powder Coated Steel	Powder Coated Steel	Powder Coated Steel	Fiberglass	Powder Coated Steel	Fiberglass
Standards & Certifications						
Agency Certification	cULus 1449 Listed Type 2					
ANSI/IEEE Category A, B & C	C-62.41 & C-62.45					
Warranty						
Product Warranty	Limited Lifetime					

TECHNICAL REFERENCE MATERIALS

TYPE 2 — 32000/42000, 51120-1 and 51120-3

Catalog Number	51120-1	51120-3	32120-1 42120-1	32120-DY3 42120-DY3	32277-DY3 42277-DY3	32412-DS3 42412-DS3
Electrical Specifications						
Voltage	120/240V AC, Single-Phase	120/208V AC, 3-Phase WYE	120V/240V Single Phase	120V/208V 3Ø WYE, 208V 3Ø Delta, 220V 3Ø Delta	277V/480V 3Ø WYE, 220V/380V 3Ø WYE, 240V 3Ø Delta, 480V 3Ø Delta	120V/240V/120V 3Ø Hi-leg Delta
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Surge Technology	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV
Recommended Circuit Breaker Rating	20A, 120/240V	20A, 120/208V	20A, 120/240V	30A, 120/208V	30A, 277/480V	30A, 120/240V
Performance Data						
Nominal Discharge Rating (I _n)	3kA	3kA	3kA	3kA	3kA	3kA
Maximum Continuous Operating Voltage (MCOV)	L-N	150V	150V	150V	150V	320V
	L-G	—	—	300V	300V	640V
	N-G	—	—	150V	150V	320V
	L-L	300V	300V	254V	254V	552V
Maximum Surge Current, Per Mode (Per Phase)	50kA (100kA)	50kA (100kA)	80kA (160kA)	80kA (160kA)	80kA (160kA)	80kA (160kA)
Voltage Protection Rating (VPR)	L-N	800V	800V	800V	700V	1200V
	L-G	—	—	1200V	1200V	2000V
	N-G	—	—	700V	700V	1200V
	L-L	1200V	1200V	1000V	1000V	1800V
Short Circuit Current Rating	10kA	10kA	100kA	100kA	100kA	100kA
EMI/RFI Noise Filtering	-6dB to -28dB (@100KHz to 100MHz)	-6dB to -28dB (@100KHz to 100MHz)	32000 Series: -20 to -40dB (@ 1.5K-1.2MHz)			
			42000 Series: -30 to -40dB (@ 10K-10MHz)			
Diagnostics	Protection status LEDs		Real Time Protection Status LEDs & Audible Alarm			
Mechanical Specifications						
Connection Type	Parallel - Hardwired via 12AWG wire					
Remote Monitoring	—		Dry Contact Leads -N.O./N.C. Form C Rated at 7Amps @ 240VAC or 30VDC			
Environmental Specifications						
Enclosure type	NEMA 1		NEMA 3R			
Flammability	Rated V-2 per UL 94* *					
Operating Temperature	-10°C to 60°C					
Storage Temperature	-20°C to 85°C					
Relative Humidity	5% to 95% non-condensing					
Material Specifications						
Enclosure	Powder Coated Steel					
Standards & Certifications						
Agency Certification	cULus 1449 Listed Type 2					
ANSI/IEEE Category A, B & C	C-62.41 & C-62.45					
Warranty						
Product Warranty	Limited Lifetime					
Connected Equipment Coverage	Up to \$25,000*	—				

* As part of the True Whole House Surge Protection Warranty

** Flammability rating applies to module only

‡Surge Voltage Rating (SVR)

TYPE 3 — Surge Protective Receptacles

Electrical Specifications	
Dielectric Voltage	Withstands 2000V per UL498
Current Limiting	Full Rated Current
Temperature Rise	Max 30C after 250 cycles OL at 200% rated current
Performance Data	
Maximum Continuous Operating Voltage (MCOV)	150V rms
Maximum Surge Current, Per Mode	L-N: 18kA, L-G: 9kA, N-G: 9kA
Noise Filtering	-30dB at 500kHz-30MHz
Voltage Protection Rating (VPR)	All Single & Duplex Receptacles
	4-in-1 Receptacles
	L-N: 600V, L-G: 700V, N-G: 600V
	L-N: 500V, L-G: 600V, N-G: 500V
Diagnostics	Indicator Light, Audible Alarm (on select versions)
Joules Rating	720
Mechanical Specifications	
Terminal ID	Brass-Hot, Green-Ground, Silver-Neutral
Terminal Accom.	#14-#10 AWG
Product ID	Ratings are permanently marked on device
Terminal Screw Torque Rating	14-16 in lbs.
Environmental Specifications	
Flammability	Rated V-2 per UL 94
Operating Temperature	-40C to 60C
Material Specifications	
Face Material	Nylon
Body Material	Polycarbonate
Line Contacts	Brass Triple-Wipe
Terminal Screws	Brass-Plated Steel
Grounding Screw	Brass-Plated Steel
Yoke	Zinc-Plated Steel
Clamp Nuts	Zinc-Plated Steel
Ground Clips	Brass-Plated Steel
Shutter Mechanism (Tamper Resistant Versions)	Delrin® Acetal
Standards & Certifications	
NEMA	WD-6
ANSI	C-73
Agency Certifications	UL 498, UL 1449 Listed and CSA C22.2 Certified Type 3
NOM	057
Warranty	
Product Warranty	10 Year Limited

TYPE 3 — S1000 and S2000 Series Surge Strips

Catalog Number	S1000-PS, S1000-S15, S1000-PTC	S2000-PS, S2000-S15, S2000-PTC
Electrical Specifications		
Voltage	120V	120V
Frequency	50/60 Hz	50/60 Hz
Surge Technology	MOV	MOV
Amperage	15A	15A
Performance Data		
Maximum Continuous Operating Voltage (MCOV)	150V	150V
Maximum Surge Current, Per Mode (L-N)	25kA	62.5kA
Voltage Protection Rating (VPR)	L-N	600V
	L-G	700V
	N-G	700V
Noise Filtering	-8dB to -25dB (@100K-100MHz)	-10dB to -20dB (@5M-100MHz)
Joules	1010J	2020J
Material Specifications		
Enclosure	ABS Plastic	
Standards & Certifications		
Agency Certifications	cULus 1449 Listed Type 3, NOM 057 and UL1363	
ANSI/IEEE Category A, B & C	C-62.41 & C-62.45	
Warranty		
Product Warranty	Limited Lifetime	
Connected Equipment Warranty	Limited Lifetime	

TYPE 3 — 5100 and 5300 Series Surge Protective Strips

Catalog Number	5100-IPS	5100-IS2	5300-IPS	5300-H15	5300-HTS	5300-HT2	5100-PS 5100-S15	5300-PS 5300-S15
Series	Industrial/Hospital						Commercial	
Electrical Specifications								
Voltage	125VAC	125VAC	125VAC	125VAC	125VAC	125VAC	125VAC	125VAC
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Surge Technology	MOV	MOV	MOV	MOV	MOV	MOV	MOV	MOV
Current	15A	20A	15A	15A	15A	20A	15A	15A
Performance Data								
Maximum Continuous Operating Voltage (MCOV)	150V	150V	130V	150V	150V	150V	150V	130V
Maximum Surge Current, Per Mode (L-N)	84kA	45kA	84kA	51kA	51kA	51kA	36kA	96kA
Noise Filtering	-5 to -25dB (@500K-100MHz)	-6 to -40dB (@50K-100MHz)	-5 to -25dB (@500K-100MHz)	-6 to -40dB (@50K-100MHz)				
Voltage Protection Rating (VPR)	L-N	600V	600V	500V	500V	500V	500V	500V
	L-G	600V	700V	600V	700V	700V	600V	600V
	N-G	600V	700V	600V	700V	700V	600V	500V
Joules	1330J	900J	1330J	952J	952J	952J	720J	1520J
Material Specifications								
Enclosure	Powder Coated Steel						ABS	
Standards & Certifications								
Agency Certification	cULus 1449 Listed Type 3 and UL1363							
ANSI/IEEE Category A,B & C	C62.41.1, C62.41.2 & C62.45							
Warranty								
Product Warranty	Lifetime Limited							

TYPE 3 — Medical Grade Power Strips

Medical Grade Power Strips		
Catalog Number	5302M-1N7 5304M-1N7 5306M-1N7 5302M-1N5 5304M-1N5 5306M-1N5	5302M-2N7 5304M-2N7 5306M-2N7 5302M-2N5 5304M-2N5 5306M-2N5
Electrical Specifications		
Current	15A (12A max continuous load)	20A (16A max continuous load)
Voltage	125V	125V
Frequency	60Hz	60Hz
Performance Data		
Maximum Leakage Current	<100µA	
Material Specifications		
Line Cord	#14/3 SJT	#12/3 SJT
Enclosure	Powder Coated Steel (18ga)*	
Outlet Covers	Polypropylene	
Mechanical Specifications		
HG Plug Configuration	NEMA 5-15P	NEMA 5-20P
HG Outlet Configuration	NEMA 5-15R	NEMA 5-20R
Environmental Specifications		
Operating Temperature	0°C to +40°C	
Storage Temperature	-10°C to +50°C	
Standards and Certifications		
UL/ CSA/ NOM	ETL listed to: UL 60601-1/ C22.2 No. 60601-1 UL 60950-1/ C22.2 No. 60950-1 UL 1363A/ C22.2 No. 21	
NFPA	NFPA 99 2012 ed	
Warranty		
Product Warranty	Limited Lifetime	

* Chromium-free paint - is also RoHS compliant

Mounting Bracket for Medical Grade Power Strips

Material Specifications	
Bracket/Retainer	Powder Coated Aluminum
Mounting Hardware	Stainless Steel

Surge Protective Medical Grade Power Strips		
Catalog Number	5302M-1S7 5304M-1S7 5306M-1S7 5302M-1S5 5304M-1S5 5306M-1S5	5302M-2S7 5304M-2S7 5306M-2S7 5302M-2S5 5304M-2S5 5306M-2S5
Electrical Specifications		
Current	15A (12A max continuous load)	20A (16A max continuous load)
Voltage	125V	125V
Frequency	60Hz	60Hz
Surge Technology	MOV	
Performance Data		
Maximum Continuous Operating Voltage (MCOV)	150V	
Voltage Protection Rating (VPR)	L-N	600V
	L-G	600V
	N-G	500V
Maximum Surge Current, Per Mode (L-N)	27kA	
Noise Filtering	-6dB to -29dB (100kHz to 100MHz)	
Maximum Leakage Current	<100µA	
Total Joules	644J	
Material Specifications		
Line Cord	#14/3 SJT	#12/3 SJT
Enclosure	Powder Coated Steel (18ga)*	
Outlet Covers	Polypropylene	
Mechanical Specifications		
HG Plug Configuration	NEMA 5-15P	NEMA 5-20P
HG Outlet Configuration	NEMA 5-15R	NEMA 5-20R
Environmental Specifications		
Operating Temperature	0°C to +40°C	
Storage Temperature	-10°C to +50°C	
Standards and Certifications		
UL/ CSA/ NOM	ETL listed to: UL 60601-1/ C22.2 No. 60601-1 UL 60950-1/ C22.2 No. 60950-1 UL 1363A/ C22.2 No. 21 UL 1449 3rd Ed/ C22.2 No.8	
NFPA	NFPA 99 2012 ed	
ANSI/IEEE	Category A	
Warranty		
Product Warranty	Limited Lifetime	

* Chromium-free paint - is also RoHS compliant

TYPE 4 — 3800 Series

Catalog Number		3800-DIN, 3800-WM, 3800-OEM
Electrical Specifications		
Voltage	125V AC	
Frequency	50/60 Hz	
Surge Technology	MOV	
Amperage	N/A	
Performance Data		
Nominal Discharge Current (I _n)	3kA	
Maximum Continuous Operating Voltage (MCOV)	150V	
Maximum Surge Current, Per Phase	L-N: 24kA, L-G: 12kA (36kA)	
Protection Mode	3 Mode	
Noise Filtering	-10dB to -15dB (@100K-100MHz)	
Voltage Protection Rating (VPR)	L-L	—
	L-N	700V
	L-G	800V
	N-G	700V
Joules	800J	
Diagnostics	Indicator lights and sound alarm for loss of protection	
Material Specifications		
Enclosure	Polycarbonate	
Connection Type	-DIN and -WM models: terminal block - accommodates 12 or 14 awg wire -OEM model: 6" pigtails	
Remote Monitoring	—	
Environmental Specifications		
Flammability	Rated V-0 per UL 94	
Operating Temperature	14°F to 140°F / -10°C to 60°C	
Storage Temperature	-4°F to 185°F / -20°C to 85°C	
Relative Humidity	Condensing: 5% to 95%	
Standards & Certifications		
Agency Certification	UL & CSA Recognized Components	
ANSI/IEEE Category A & B	C-62.41 & C-62.45	
NOM	ETL Certified to NOM-001	
Warranty		
Product Warranty	10-Year Limited	

TYPE 4 — DIN Rail Mount Receptacles

Catalog Number		3880-DIN
Electrical Specifications		
Volts	120V AC	
Dielectric Voltage	Withstands 2000V per UL498	
Amps	15A	
Current Limiting	Full Rated Current	
Temperature Rise	Max 30C after 250 cycles OL at 200% rated current	
Performance Data		
Nominal Discharge Current (I _n)	3kA	
Maximum Continuous Operating Voltage (MCOV)	150V	
Maximum Surge Current, Per Mode (Per Phase)	9kA (18kA)	
Short Circuit Current Rating (SCCR)	NA	
Noise Filtering	-20db to -40db	
Voltage Protection Rating (VPR)	L-N: 500V, L-G: 600V, N-G: 600V	
Protection Modes	3	
Diagnostics	Indicator Light, Audible Alarm	
Joules Rating	560	
Mechanical Specifications		
Terminal Accom.	#12-#18 AWG	
Environmental Specifications		
Flammability	94V-2	
Operating Temperature	-10C to 60C	
Storage Temperature	-20C to 85C	
Material Specifications		
Face Material	Polycarbonate	
Body Material	Polycarbonate	
Line Contacts	Nickel-plated brass	
Standards & Certifications		
Agency Certifications	UL 498, UL 1449 Recognized Component	
NEMA	WD-6	
ANSI	C-73	
NOM	57	
Warranty		
Product Warranty	10-Year Limited	

3800 Low Voltage Power Series Low Voltage (DC) Surge Protection Modules

Catalog Number	3812-DIN	3824-DIN, 3824-WM	3848-DIN, 3848-WM, 3838-OEM
Performance Data			
Maximum DC Operating Voltage	13.2VDC	26.4VDC	52.8V
Breakdown Voltage 100V/ µsec	14.7 – 19.8 V	33.1 – 38.2 V	51.8 – 71.8 V
Maximum Surge Current 10 x 1000µsec	10A	10A	10A
Maximum Capacitance	4.8µf	4.8µf	4.8µf
UL497B Clamping	21V	37V	71V
Material Specifications			
Case Material	Polycarbonate		
DIN Rail Material	Polycarbonate		
Environmental Specifications			
Operating Temperature	-10°C to 60°C		
Storage Temperature	-20°C to 85°C		
Relative Humidity	20% - 90% non-condensing		
Altitude	15,000 ft		
Standards & Certifications			
UL	497B		
CSA	C22.2		
Warranty			
Product Warranty	10-Year Limited		

3400/3800 Series Low Voltage (DC) Data Line Surge Protection Modules

Catalog Number	3420-9	3420-35	3803-485	3803-DHP
Performance Data				
Maximum DC Operating Voltage	(-)4.5 to 4.5	30VDC (V+ to G)	(-)4.5 to 4.5	(-)4.5 to 4.5
Clamping Voltage	12Vpk	48Vpk	12Vpk	12Vpk
Maximum Surge Current	1kA	1kA	1kA	1kA
Maximum Capacitance	53pF (L-G) 53pF (L-L)	53pF (L-G) 53pF (L-L)	53pF (L-G) 53pF (L-L)	14.48pF (L-G) 7.48pF (L-L)
Material Specifications				
Case Material	ABS	ABS	ABS	ABS
Ground Tab Material	Plated Steel	Plated Steel	Plated Steel	Plated Steel
Environmental Specifications				
Operating Temperature	-40°C to 60°C	-40°C to 60°C	-40°C to 60°C	-40°C to 60°C
Storage Temperature	-40°C to 90°C	-40°C to 90°C	-40°C to 90°C	-40°C to 90°C
Relative Humidity	0 to 95% Non-Condensing			
Altitude	-1,000ft to 15,000ft			
Standards & Certifications				
UL	497B Listed			
CE	Marked			
Warranty				
Product Warranty	10-Year Limited			

Ordering Information

TYPE 1 — 55000 Series, 51120-3R, 51110-SRG and 50240-MSA

Catalog Number	Description	Voltage (V AC) Configuration	Max Surge Current, Per mode (Per Phase)
55240-ASA	Module	120/240 Single Phase	50kA (100kA)
55208-ASA	Module	120/208 3Ø WYE, 240V 3Ø Delta	50kA (100kA)
55480-ASA	Module	277/480 3Ø WYE, 480V 3Ø Delta	50kA (100kA)
51120-3R	Panel Mount	120/240 Single Phase	50kA (100kA)
51110-SRG	4-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	48kA (96kA)

TYPE 2 — 57000 Series and 52000 Series

Catalog Number	Description	Voltage (V AC) Configuration	Max Surge Current, Per Mode (Per Phase)	Replacement Modules
52120-M1	2-Mode Surge Protection Panel	120 Single-phase, 2-wire + gnd	100kA (200kA)	(1) 2120, (1) 8120-GN
52120-M2	3-Mode Surge Protection Panel	120/240 Single-phase, 3-wire + gnd	100kA (200kA)	(2) 2120, (1) 8120-GN
52120-CM2	3-Mode Surge Protection Panel, with Surge Event Counter	120/240 Single-phase, 3-wire + gnd	100kA (200kA)	(2) 2120, (1) 8120-GN
52120-M2H	3-Mode Surge Protection Panel, DHC & X10 compatible	120/240 Single-phase, 3-wire + gnd	100kA (200kA)	(2) 2120-M2H, (1) 8120-GN
52120-M3	4-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 2120, (1) 8120-GN
52120-CM3	4-Mode Surge Protection Panel, with Surge Event Counter	120/208 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 2120, (1) 8120-GN
52120-7M3	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 120-7M3, (1) 8120-GN
52120-7MS	7-Mode Surge Protection Panel with Integral Disconnect Switch	120/208 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 120-7M3, (1) 8120-GN
52120-7C3	7-Mode Surge Protection Panel, with Surge Event Counter	120/208 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 120-7M3, (1) 8120-GN
52120-7CS	7-Mode Surge Protection Panel, with Surge Event Counter and Integral Disconnect Switch	120/208 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 120-7M3, (1) 8120-GN
52240-DM3	3-Mode Surge Protection Panel	240 3Ø Delta, 3-wire + gnd	100kA (200kA)	(3) 2240
52277-M3	4-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 2277, (1) 8320-GN
52277-CM3	4-Mode Surge Protection Panel, with Surge Event Counter	277/480 3Ø WYE, 4-wire + gnd	100kA (100kA)	(3) 2277, (1) 8320-GN
52277-7M3	7-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 277-7M3, (1) 8320-GN
52277-7MS	7-Mode Surge Protection Panel with Integral Disconnect Switch	277/480 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 277-7M3, (1) 8320-GN
52277-7C3	7-Mode Surge Protection Panel, with Surge Event Counter	277/480 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 277-7M3, (1) 8320-GN
52277-7CS	7-Mode Surge Protection Panel, with Surge Event Counter and Integral Disconnect Switch	277/480 3Ø WYE, 4-wire + gnd	100kA (200kA)	(3) 277-7M3, (1) 8320-GN
52480-DM3	3-Mode Surge Protection Panel	480 3Ø Delta, 3-wire + gnd	100kA (200kA)	(3) 2480
52412-DS3	4-Mode Surge Protection Panel	120/240/120 Split Phase Delta, 4-wire + gnd	100kA (200kA)	(2) 2120, (1) 2412, (1) 8120-GN
57120-M3	4-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	150kA (300kA)	(3) 7120, (1) 8120-GN
57120-CM3	4-Mode Surge Protection Panel, with Surge Event Counter	120/208 3Ø WYE, 4-wire + gnd	150kA (300kA)	(3) 7120, (1) 8120-GN
57240-DM3	3-Mode Surge Protection Panel	240 3Ø Delta, 3-wire + gnd	150kA (300kA)	(3) 7240
57277-M3	4-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	150kA (300kA)	(3) 7277, (1) 8320-GN
57277-CM3	4-Mode Surge Protection Panel, with Surge Event Counter	277/480 3Ø WYE, 4-wire + gnd	150kA (300kA)	(3) 7277, (1) 8320-GN
57480-DM3	3-Mode Surge Protection Panel	480 3Ø Delta, 3-wire + gnd	150kA (300kA)	(3) 7480

TYPE 2 — 37000, 47000, 32000 42000 and 51120 Series

Catalog Number	Description	Voltage (V AC) Configuration	Max Surge Current, Per Mode (Per Phase)
32120-DY3	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd; 208 3Ø Delta, 3-wire + gnd; 220 3Ø Delta, 3-wire + gnd	80kA (80kA)
32120-1	4-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	80kA (80kA)
37120-7	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	100kA (200kA)
32277-DY3	7-Mode Surge Protection Panel	220/380 3Ø WYE, 4-wire + gnd; 277/480 3Ø WYE, 4-wire + gnd; 240 3Ø Delta, 3-wire + gnd; 480 3Ø Delta, 3-wire + gnd	80kA (80kA)
32412-DS3	7-Mode Surge Protection Panel	120/240/120 3Ø Hi-leg Split Phase Delta, 4-wire + gnd	80kA (80kA)
37277-7	7-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	100kA (200kA)
42001-FMC	Flush Mount Collar for all 32000 and 42000 Series Panels	—	—
42120-DY3	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd; 208 3Ø Delta, 3-wire + gnd; 220 3Ø Delta, 3-wire + gnd	80kA (80kA)
42120-1	4-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	80kA (80kA)
42277-DY3	7-Mode Surge Protection Panel	220/380 3Ø WYE, 4-wire + gnd; 277/480 3Ø WYE, 4-wire + gnd; 240 3Ø Delta, 3-wire + gnd; 480 3Ø Delta, 3-wire + gnd	80kA (80kA)
42412-DS3	7-Mode Surge Protection Panel	120/240/120 3Ø Hi-leg Split Phase Delta, 4-wire + gnd	80kA (80kA)
47120-7	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	200kA (400kA)
47120-4X7	7-Mode Surge Protection Panel in Type 4X enclosure	120/208 3Ø WYE, 4-wire + gnd	200kA (400kA)
47277-7	7-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	200kA (400kA)
47277-4X7	7-Mode Surge Protection Panel in Type 4X enclosure	277/480 3Ø WYE, 4-wire + gnd	200kA (400kA)
51120-1	2-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	50kA (50kA)
51120-3	3-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	50kA (50kA)

TYPE 3 — Surge Protective Receptacles

Commercial / Industrial Grade											
Decora® TR Surge Protective Receptacles											
Amp.	Outlet Configuration	Color									Features
		Brown	Ivory	White	Gray	Red	Blue	Black	Orange	Lt. Almond	
15A	Duplex	T5280	T5280-I	T5280-W	T5280-GY	—	T5280-B	T5280-E	—	T5280-T	■
15A	Duplex	—	T7280-I	T7280-W	—	—	T7280-B	T7280-E	—	T7280-T	■
15A	Duplex	—	T8280-I	T8280-W	—	T8280-R	T8280-B	—	—	T8280-T	■ ●
20A	Duplex	T5380	T5380-I	T5380-W	T5380-GY	—	T5380-B	T5380-E	—	—	■
20A	Duplex	—	T7380-I	T7380-W	—	—	T7380-B	T7380-E	—	—	■
20A	Duplex	—	T8380-I	T8380-W	T8380-GY	T8380-R	T8380-B	—	—	—	■ ●
Decora® Surge Protective Receptacles											
15A	Duplex	5280	5280-I	5280-W	5280-GY	—	5280-B	—	—	5280-T	■
20A	Duplex	5380	5380-I	5380-W	5380-GY	—	5380-B	—	—	—	■
15A	Duplex	5280-IG	5280-IGI	5280-IGW	—	—	5280-IGB	—	5280-IGO	—	▼ ■
20A	Duplex	5380-IG	5380-IGI	5380-IGW	5380-IGG	—	5380-IGB	—	5380-IGO	—	▼ ■
15A	Duplex	—	7280-I	7280-W	—	—	7280-B	—	—	7280-T	■
20A	Duplex	—	7380-I	7380-W	—	—	7380-B	—	—	—	■
4-in-1 Surge Protective Receptacles											
15A	Four-In-One	—	5480-I	5480-W	5480-GY	5480-R	5480-BU	—	—	—	■
20A	Four-In-One	—	5490-I	5490-W	5490-GY	—	5490-BU	—	—	—	■
15A	Four-In-One	—	—	—	—	—	—	—	5480-IG	—	▼ ■
20A	Four-In-One	—	5490-IGI	—	—	—	5490-IGB	—	5490-IG	—	▼ ■
Hospital Grade											
Decora® Surge Protective Receptacles											
Amp.	Outlet Configuration	Color									Features
		Brown	Ivory	White	Gray	Red	Blue	Black	Orange	Lt. Almond	
15A	Duplex	8280	8280-I	8280-W	—	8280-R	8280-B	—	—	8280-T	■ ●
20A	Duplex	8380	8380-I	8380-W	8380-GY	8380-R	8380-B	—	—	—	■ ●
20A	Single	—	8381-I	—	—	—	—	—	—	—	■ ●
15A	Duplex	—	8280-IGI	8280-IGW	—	—	8280-IGB	—	8280-IGO	—	▼ ■ ●
20A	Duplex	—	8380-IGI	8380-IGW	8380-IGG	—	8380-IGB	—	8380-IGO	—	▼ ■ ●
20A	Single	—	8381-IGI	—	—	—	—	—	—	—	▼ ■ ●
4-in-1 Surge Protective Receptacles											
15A	Four-In-One	—	8480-I	8480-W	—	8480-R	—	—	—	—	■ ●
20A	Four-In-One	—	8490-I	8490-W	—	8490-R	—	—	—	—	■ ●
15A	Four-In-One	—	8480-IGI	8480-IGW	—	—	8480-IGB	—	—	—	▼ ■ ●
20A	Four-In-One	—	8490-IGI	—	—	—	8490-IGB	—	8490-IG	—	▼ ■ ●

Key:	▼ Isolated Ground (IG)	■ Indicator Light
	Audible Alarm	● Hospital Grade

TYPE 3 — S1000 and S2000 Series Surge Strips

Catalog Number	Maximum Input Current	Joules	Data Protection	Enclosure	Number of Outlets	Cord Length
S1000-PS	15 Amp	1010J	—	ABS Plastic	6	6 Feet
S1000-S15	15 Amp	1010J	—	ABS Plastic	6	15 Feet
S1000-PTC	15 Amp	1010J	RJ-11, Coax	ABS Plastic	6	6 Feet
S2000-PS	15 Amp	2020J	—	ABS Plastic	9	6 Feet
S2000-S15	15 Amp	2020J	—	ABS Plastic	9	15 Feet
S2000-PTC	15 Amp	2020J	RJ-45, Coax	ABS Plastic	9	6 Feet

TYPE 3 — 51000 and 53000 Series Surge Protective Strips

Catalog Number	Application	Maximum Input Current	Joules	Alarm	Enclosure	On/Off Switch	Cord Length
5100-PS	Commercial	15 Amp	720	—	ABS Plastic	Yes	6 Feet
5100-S15	Commercial	15 Amp	720	—	ABS Plastic	Yes	15 Feet
5300-PS	Commercial	15 Amp	1520	—	ABS Plastic	Yes	6 Feet
5300-S15	Commercial	15 Amp	1520	—	ABS Plastic	Yes	15 Feet
5100-IPS	Industrial	15 Amp	1330	Audible at Protection Loss	Steel	Yes	6 Feet
5100-IS2	Industrial	20 Amp	900	Audible at Protection Loss	Steel	Yes	6 Feet
5300-IPS	Industrial	15 Amp	1330	Audible at Protection Loss	Steel	Yes	6 Feet
5300-H15	Hospital	15 Amp	952	—	Steel	No	15 Feet
5300-HTS	Hospital	15 Amp	952	—	Steel	No	6 Feet
5300-HT2	Hospital	20 Amp	952	—	Steel	No	6 Feet

TYPE 3 — Medical Grade Power Strips

Stock Configurations	Current Rating	AC Power Cord Length	Number of Outlets	Catalog Number
Surge Protective Medical Grade Power Strips	15A (12A max continuous load)	7 Feet	2	5302M-1S7
			4	5304M-1S7
			6	5306M-1S7
		15 Feet	2	5302M-1S5
			4	5304M-1S5
			6	5306M-1S5
	20A (16A max continuous load)	7 Feet	2	5302M-2S7
			4	5304M-2S7
			6	5306M-2S7
		15 Feet	2	5302M-2S5
			4	5304M-2S5
			6	5306M-2S5
Medical Grade Power Strips	15A (12A max continuous load)	7 Feet	2	5302M-1N7
			4	5304M-1N7
			6	5306M-1N7
		15 Feet	2	5302M-1N5
			6	5306M-1N5
			4	5304M-1N5
	20A (16A max continuous load)	7 Feet	2	5302M-2N7
			4	5304M-2N7
			6	5306M-2N7
		15 Feet	2	5302M-2N5
			4	5304M-2N5
			6	5306M-2N5
Replacement Outlet Covers		—	2	5300M-CVR

All items available with flying leads or straight blade plugs; surge-protective strips available with audible alarm as a special order – contact your Leviton sales representative for details.

TYPE 4 — 3800 Series Surge Protective Strips and DIN Rail Receptacles

Catalog Number	Description
3800-DIN	Terminal Block Connection, DIN rail mounted
3800-WM	Terminal Block Connection
3800-OEM	Pigtail Connection w/ 6" leads
3880-DIN	Hospital Grade Surge Protective Duplex Receptacle, Single-phase, DIN rail mount

3800 Series Low Voltage (DC) Power Surge Protective Modules

Catalog Number	Voltage Rating	Connection
3812-DIN	12V DC	Terminal Block, DIN rail Mount
3824-DIN	24V DC	Terminal Block, DIN rail Mount
3824-WM	24V DC	Terminal Block, Standard Equipment Mount
3848-DIN	48V DC	Terminal Block, DIN rail Mount
3848-WM	48V DC	Terminal Block, Standard Equipment Mount
3848-OEM	48V DC	Pigtail Connection, Standard Equipment Mount

3400/3800 Series Low Voltage (DC) Data Line Surge Protective Modules

Catalog Number	Description	Voltage Rating	Application
3420-9	SPD with 3-Pin Header Connector, Surface Mount	9.6V DC	Devices operating on Allen-Bradley 4-20ma Signal Loop networks and other related protocols, 9V
3420-35	SPD with 3-Pin Header Connector, Surface Mount	38.5V DC	Devices operating on Allen-Bradley 4-20ma Signal Loop networks and other related protocols, 35V
3803-485	SPD with 6-Pin Header Connector, Surface Mount	9.6V DC	Devices operating on Allen-Bradley DH-485 networks and other related protocols
3803-DHP	SPD with 3-Pin Header Connector, Surface Mount	9.6V DC	Devices operating on Allen-Bradley "Blue Hose" networks and other related protocols

Product Warranties

Leviton Surge Protective Device product warranties are summarized in Table 1. For a select group of products, Leviton also provides connected equipment coverage via a “True Whole House Surge Protection” Limited Warranty. The details are summarized in Table 2.

True Whole House Surge Protection

Leviton’s True Whole House Surge Protection Limited Warranty covers both the Surge Protection Device and properly connected equipment.

Product Coverage

For the selected products, Leviton provides a Limited Lifetime Product Warranty. This warranty covers all defects in workmanship or materials. If the Surge Protective Device (SPD) is damaged by a power surge and Leviton determines that such damage was caused by the performance failure of the Leviton SPD, Leviton will, at its option, repair or replace the device.

Connected Equipment Coverage

In addition to the Product Warranty, Leviton provides connected equipment coverage for properly connected residential equipment. If properly connected equipment is damaged by a surge event as the result of SPD failure, you may be eligible for up to \$25,000 maximum to repair or replace the damaged equipment.

For warranty details, please visit www.leviton.com, or contact Leviton Customer Support at 1.800.323.8920.

The warranty information on Leviton.com supersedes printed warranty information.

Table 1

Product Family	Product Series	Product Warranty
Meter Socket Surge Arrester	50240 Series	Lifetime Limited Product Warranty
Secondary Surge Arrester	55000 Series	Lifetime Limited Product Warranty
Surge Panels	57000 Series	Lifetime Limited Product Warranty
	52000 Series	Lifetime Limited Product Warranty
	47000 Series	Lifetime Limited Product Warranty
	37000 Series	Lifetime Limited Product Warranty
	42000 Series	Lifetime Limited Product Warranty
	32000 Series	Lifetime Limited Product Warranty
	51120 Series	Lifetime Limited Product Warranty
Surge Receptacles	5280, 7280, 8280, 8281, 5380, 7380, 8380 & 8381 Series	10-Year Limited Product Warranty
	Four-In-One (5480, 5490, 8480 & 8490 Series)	10-Year Limited Product Warranty
Wall Plug-Ins	3500 Series	10-Year Limited Product Warranty
Surge Strips	S1000 Series	Lifetime Limited Product Warranty
	S2000 Series	Lifetime Limited Product Warranty
	5100 Series	Lifetime Limited Product Warranty
	5300 Series	Lifetime Limited Product Warranty
Surge Modules	3800 Series	10-Year Limited Product Warranty
	3400 Series	5-Year Limited Product Warranty

Table 2

Product Family	Product Series	Connected Equipment Policy Duration	Connected Equipment Coverage Maximum
Meter Socket Surge Arrester	50240-MSA	Lifetime Limited	\$10,000
Secondary Surge Arrester	55240-ASA	Lifetime Limited	\$10,000
Surge Panels	51110-SRG, 51120-1, 51120-3R	Lifetime Limited	\$25,000
Surge Strips	S1000 Series	Lifetime Limited	\$10,000
	S2000 Series	Lifetime Limited	\$25,000
	5100 Series	Lifetime Limited	\$5,000
	5300 Series	Lifetime Limited	\$25,000
Wall Plug-Ins	3500 Series	Lifetime Limited	\$5,000

Surge Protector Limited Warranty

Up to \$25,000 for Connected Equipment Limited Lifetime Product Replacement

CONNECTED EQUIPMENT PROTECTION	
Up to \$25,000	51120-1, 51110-SRG, 51120-3R, S2000 Series, 5300
Up to \$10,000	50240-MSA, 55240-ASA, S1000 Series
Up to \$5,000	5100 Series, 3500 Series

This warranty is for the benefit of the original consumer purchaser only.

PRODUCT COVERAGE

Limited Lifetime Warranty on materials and workmanship on 5100 series, 5300 series, S1000 series, S2000 series, 3500 series, 50240-MSA, 55240-ASA, 51120-1/-3R and 51110-SRG surge protective devices (SPDs). Subject to the provision below, this warranty covers all defects in workmanship or materials. If the SPD is damaged by a power surge and Leviton determines that such damage was caused by the performance failure of the Leviton SPD, Leviton will, at its option, repair, replace or refund the value of the unit.

CONNECTED EQUIPMENT COVERAGE

The Leviton "True Whole-House Surge Protection" program provides the following connected equipment coverage for residential equipment:

1. Meter Base (50240-MSA) and Surge Module (55240-ASA): Maximum coverage per household up to \$10,000 to repair, replace or refund the FAIR MARKET VALUE of the properly connected equipment as of the date it is damaged from a power surge. Residential equipment includes: washer, dryer, stove, refrigerator, freezer, dishwasher, microwave oven, LCD, OLED or plasma TV, surround sound system, DVD, DVR, computers, video game systems and Indoor HVAC equipment and other common household equipment at Leviton's sole discretion. Equipment with multiple parts, for instance TVs, must have surge protection at each conductor (power, cable, etc.). Coverage is applicable only when the Service Entrance SPD (1) was active and fully functional immediately prior to the claim event, and (2) is installed within 100 feet of conductor of structure being protected. The Cat. No. 55240-ASA will provide maximum of \$1,000 coverage for well-pumps.
2. Panel-Mount Service Entrance SPD (51120-1/-3R and 51110-SRG): Up to \$25,000 to repair, replace or refund the FAIR MARKET VALUE of properly connected residential equipment as of the date it is damaged.
3. Plug Strips: (a.) S2000 and 5300 Series: Up to 25,000, (b.) S1000 Series: Up to \$10,000, and (c.) 5100 Series: Up to \$5,000 to repair, replace or refund the FAIR MARKET VALUE of the properly connected residential equipment as of the date it is damaged as the result of SPD failure.
4. Plug-In Adapters: Up to \$5,000 to repair, replace or refund the FAIR MARKET VALUE of the properly connected residential equipment as of the date it is damaged as the result of SPD failure.

The above remedy is your exclusive remedy under this warranty, whether based on contract, tort, including negligence or otherwise. Claims must be made within 30 days of damage or loss. Leviton reserves the right to audit the damage site and/or cost of repairs and may require a proof of loss notarized by claimant.

FOR THIS CONNECTED EQUIPMENT WARRANTY TO APPLY, THE LEVITON SPD MUST ALSO BE DAMAGED BY THE POWER SURGE.

WHAT IS A "POWER SURGE"?

"Power Surge" means an electrical transient or spike on the AC power or communication lines, including those caused by indirect lighting, against which surge protective devices of this type are generally designed to protect as recognized by industry standards.

WARRANTY CLAIM PROCEDURES

If any of the SPD products fail or sustain damage covered by the "True Whole-House Surge Protection" warranty, call Leviton at 1-800-323-8920 or LEVITON WILL ADVISE YOU THE ADDRESS TO WHICH THE PRODUCT AND RECEIPTS SHOULD BE SENT.

YOU MUST KEEP ALL DAMAGED EQUIPMENT AVAILABLE FOR LEVITON TO EXAMINE. IF LEVITON DOES NOT WISH TO EXAMINE THE DAMAGED EQUIPMENT, YOU WILL BE NOTIFIED.

EXCLUSIONS

This warranty will not apply to any defects or damage to the Leviton SPD or any properly connected equipment arising because: (1) The Leviton SPD was improperly installed, tampered with, modified or altered in any way, or (2) the Leviton SPD or the connected equipment was not used under normal operating conditions or in accordance with any labels or instructions. This warranty does not cover any damage to properly connected equipment resulting from a cause other than a "power surge." This warranty specifically excludes damage associated with a temporary over-voltage; equipment installed outdoors, vandalism, theft, normal wear and tear, obsolescence, abuse, catastrophic events, or direct lightning strikes.

This warranty does not cover, garage door operators or outdoor equipment including outdoor HVAC units, window-mounted air conditioners, sprinkler systems, security alarm systems, cable dish systems, or equipment that is not UL or CSA listed.

THERE ARE NO OTHER OR IMPLIED WARRANTIES OF ANY KIND, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, BUT IF ANY IMPLIED WARRANTY IS REQUIRED BY THE APPLICABLE JURISDICTION, THE DURATION OF ANY SUCH IMPLIED WARRANTY, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE MINIMUM PERIOD REQUIRED BY SUCH JURISDICTION. LEVITON IS NOT LIABLE FOR INCIDENTAL, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, DAMAGE TO, OR LOSS OF USE OF, ANY EQUIPMENT, LOST SALES OR PROFITS OR DELAY OR FAILURE TO PERFORM THIS WARRANTY OBLIGATION. THE REMEDIES PROVIDED HEREIN ARE THE EXCLUSIVE REMEDIES UNDER THIS WARRANTY, WHETHER BASED ON CONTRACT, TORT OR OTHERWISE. VALID IN U.S.A. AND CANADA.

Glossary

Calculating “surge current per phase”

The per-phase rating is the total surge current capacity connected to a given phase conductor. For example in a WYE system, L1-N and L1-G modes are added together because surge current can flow on either parallel path. If the device has only one mode (e.g., L1-G), then the per-phase rating is equal to the per-mode rating because there is no protection on the L1-N mode. The industry standard is to publish surge current “per phase” by summing modes L-N + L-G in a WYE system and L-L + L-G in Delta systems.

Clamping Voltage (Also known as Let-Through Voltage)

The voltage at which a surge suppressor performs its suppression tasks such as diverting (shunt) the surge from line to ground or absorbing the excessive energy.

Common Mode

When relating to SPDs, common mode refers to surge protection components provided between L-G and N-G modes.

Maximum Continuous Operating Voltage (MCOV)

The maximum voltage that can be continuously applied to each mode of the SPD without degradation.

Maximum Surge Current Rating

The maximum 8x20us Surge Current Amps an SPD can withstand 1 time without performance degradation of more than 10%.

Modes of Protection – Per Mode and Per Phase

A “mode” is a potential path for a surge to be diverted to (e.g. L-N, L-G, N-G). The number of modes depends on the configuration of the electrical system (single phase, 3-phase WYE, 3-phase Delta, etc.). The per-phase rating is the total surge current capacity connected to a given phase conductor.

Nominal Discharge Current (I_N)

The peak value of an 8/20 μ s current waveform, selected by the manufacturer, for which an SPD (Type 1 or Type 2 only) remains functional after 15 surges - Type 1 devices require testing at 10 or 20 kA and Type 2 devices can be tested using a 3, 5, 10 or 20 kA.

Normal Mode

When relating to SPDs, normal mode refers to surge protection components provided between L-L and L-N modes.

Per Mode

A “mode” is a potential path for a surge to be diverted to (such as L-N, L-G, N-G).

Per Phase

The maximum amount of surge current a SPD can shunt to ground during a surge event on one phase.

Short Circuit Current Rating (SCCR)

The suitability of an SPD for use on an AC power circuit that is capable of delivering not more than a declared current at a declared voltage during a short circuit condition.

Suppression Voltage Rating (SVR)

Term used to define the clamping voltage when subjected to the UL 1449 2nd Edition Measured Limited Voltage Test - this test has proven insufficient to adequately evaluate SPD performance, and has been replaced by the Voltage Protection Rating (VPR).

Surge

A short-duration overvoltage spike or disturbance on the ac power line, having duration of a few milliseconds or less.

Surge Current Capacity

The surge current capacity of an SPD is the maximum surge current the SPD device is capable of surviving on a single impulse basis without suffering degradation of performance of more than 10 percent. It is required to be listed by mode (in kA), since the number and type of components in any SPD may vary by mode. It can also be stated by phase.

Temporary Overvoltage (TOV)

An overvoltage on the AC power line that is at a given location of relatively long duration (seconds, even minutes) .

SOLUTIONS FOR...



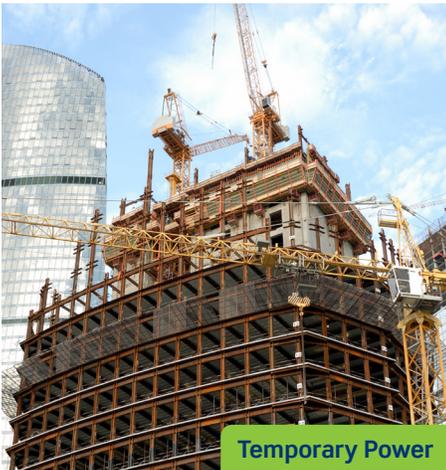
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leviton.com/surge

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Leviton Manufacturing Co., Inc.

201 N Service Rd, Melville, NY 11747

Telephone: 1-800-323-8920 • FAX: 1-800-832-9538

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