

Industrial, Commercial
and Residential

Surge Protective Devices (SPDs)

GETTING THE RIGHT PROTECTION

LEVITON[®]

Surge Protective Device

CAT. NO.
32120-DY3

FOR: 120/208V WYE OR
208V OR 220V DELTA
Frequency: 50/60 Hz
Type 2, In: 3kA, SCCR: 100kA
MCOV: L-N/N-G: 150V, L-L: 254V, L-G: 300V

UL 1449 VPR RATING:
700Vpk L-N
700Vpk N-G
1000Vpk L-L
1200Vpk L-G

LINE 1

LINE 2

LINE 3

PROTECTION STATUS

GREEN LIGHT OUT / FLASHING RED LIGHT
AUDIBLE BEEP = CIRCUIT DAMAGE,
REPLACE IMMEDIATELY

FAULT

Enclosure Type NEMA 3R

FOR WIRING SEE INSTALLATION INSTRUCTION

Table of Contents



Type 1 SPDsPage 2

Typically mounted on the line side of the main service entrance. Protect 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 SPDsPages 2-4

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

Type 3 SPDsPages 5-7

Often used at the protected equipment. Provide point-of-use protection.

Type 4 SPDsPage 8

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.

For additional product details, including technical specifications, warranty information, and literature, please visit leviton.com/surge.

Surge Protector Limited Warranty

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

LIMITED 5 YEAR WARRANTY FOR ENTIRE SURGE LINE

THE BELOW SKU's HAVE A CONNECTED EQUIPMENT WARRANTY

Up to \$25,000	51120-1, 51110-SRG, 51120-3R, S2000 Series, 5300
Up to \$10,000	55240-ASA, S1000 Series
Up to \$5,000	5100 Series

TYPE 1 SURGE PROTECTIVE DEVICES

55000 Series

- NEMA Type 3R enclosure for indoor or outdoor use
- Provided with #10 AWG stranded, 18 in. long pigtail leads



51120-3R

- Standard J-Box enclosure with pre-punched standard knock-outs can be easily surface mounted in typical frame construction
- Provided with #12 AWG stranded, 28 in. long cord
- May also be used in Type 2 applications



TYPE 2 SURGE PROTECTIVE DEVICES

51110 Panel Mount

- UL1449 Edition rated
- Compatible with home automation systems
- 150 maximum continuous operating voltage (MOV) rating allows for tolerance to line voltage swells



Ordering Guide: 55000 Series, 51120-3R and 51110-SRG

Catalog Number	Description	Voltage (V AC) Configuration	Max Surge Current, Per mode (Per Phase)
55240-ASA	Type 1 — Module	120/240 Single Phase	50 kA (100 kA)
55208-ASA	Type 1 — Module	120/208 3Ø WYE, 240V 3Ø Delta	50 kA (100 kA)
55480-ASA	Type 1 — Module	277/480 3Ø WYE, 480V 3Ø Delta	50 kA (100 kA)
51120-3R	Type 1 — Panel Mount	120/240 Single Phase	50 kA (100 kA)
51110-SRG	Type 2 — 4-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	48 kA (96 kA)

TYPE 2 SURGE PROTECTIVE DEVICES

51120 Series Panel Mount

NON-MODULAR

- 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



32000 and 42000 Series Panel Mount

NON-MODULAR

- 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
- Three-phase models can be wired for either WYE or Delta AC systems
- NEMA Type 3R enclosure for indoor/outdoor applications



37000 and 47000 Series Panel Mount

NON-MODULAR

- Protection for up to 100,000 amps (37000 Series) or 200,000 amps (47000 Series) of surge current per mode
- 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



Ordering Guide: 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	80 kA (80 kA)
32120-1	4-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	80 kA (80 kA)
37120-7	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	100 kA (200 kA)
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	80 kA (80 kA)
32412-DS3	7-Mode Surge Protection Panel	120/240/120 3Ø Hi-leg Split Phase Delta, 4-wire + gnd	80 kA (80 kA)
37277-7	7-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	100 kA (200 kA)
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	80 kA (80 kA)
42120-1	4-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	80 kA (80 kA)
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	80 kA (80 kA)
42412-DS3	7-Mode Surge Protection Panel	120/240/120 3Ø Hi-leg Split Phase Delta, 4-wire + gnd	80 kA (80 kA)
47120-7	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	200 kA (400 kA)
47120-4X7	7-Mode Surge Protection Panel in Type 4X enclosure	120/208 3Ø WYE, 4-wire + gnd	200 kA (400 kA)
47277-7	7-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	200 kA (400 kA)
47277-4X7	7-Mode Surge Protection Panel in Type 4X enclosure	277/480 3Ø WYE, 4-wire + gnd	200 kA (400 kA)
51120-1	2-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	50 kA (50 kA)
51120-3	3-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	50 kA (50 kA)

TYPE 2 SURGE PROTECTIVE DEVICES



52000 and 57000 Series Panel Mount MODULAR

- 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
- NEMA Type 12 enclosure resists dirt, dust and light splashing water

Ordering Guide: 52000 and 57000 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	100 kA (200 kA)	(2) 2120, (1) 8120-GN
52120-CM2	3-Mode Surge Protection Panel, with Surge Event Counter	120/240 Single-phase, 3-wire + gnd	100 kA (200 kA)	(2) 2120, (1) 8120-GN
52120-M2H	3-Mode Surge Protection Panel, DHC & X10 compatible	120/240 Single-phase, 3-wire + gnd	100 kA (200 kA)	(2) 2120-M2H, (1) 8120-GN
52120-M3	4-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	100 kA (200 kA)	(3) 2120, (1) 8120-GN
52120-CM3	4-Mode Surge Protection Panel, with Surge Event Counter	120/208 3Ø WYE, 4-wire + gnd	100 kA (200 kA)	(3) 2120, (1) 8120-GN
52120-7M3	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	100 kA (200 kA)	(3) 120-7M3, (1) 8120-GN
52120-7MS	7-Mode Surge Protection Panel with Integral Disconnect Switch	120/208 3Ø WYE, 4-wire + gnd	100 kA (200 kA)	(3) 120-7M3, (1) 8120-GN
52120-7C3	7-Mode Surge Protection Panel, with Surge Event Counter	120/208 3Ø WYE, 4-wire + gnd	100 kA (200 kA)	(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	100 kA (200 kA)	(3) 277-7M3, (1) 8320-GN
52277-7MS	7-Mode Surge Protection Panel with Integral Disconnect Switch	277/480 3Ø WYE, 4-wire + gnd	100 kA (200 kA)	(3) 277-7M3, (1) 8320-GN
52277-7C3	7-Mode Surge Protection Panel, with Surge Event Counter	277/480 3Ø WYE, 4-wire + gnd	100 kA (200 kA)	(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	100 kA (200 kA)	(3) 277-7M3, (1) 8320-GN
52480-DM3	3-Mode Surge Protection Panel	480 3Ø Delta, 3-wire + gnd	100 kA (200 kA)	(3) 2480
52412-DS3	4-Mode Surge Protection Panel	120/240/120 Split Phase Delta, 4-wire + gnd	100 kA (200 kA)	(2) 2120, (1) 2412, (1) 8120-GN
57120-M3	4-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	150 kA (300 kA)	(3) 7120, (1) 8120-GN
57120-CM3	4-Mode Surge Protection Panel, with Surge Event Counter	120/208 3Ø WYE, 4-wire + gnd	150 kA (300 kA)	(3) 7120, (1) 8120-GN
57240-DM3	3-Mode Surge Protection Panel	240 3Ø Delta, 3-wire + gnd	150 kA (300 kA)	(3) 7240
57277-M3	4-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	150 kA (300 kA)	(3) 7277, (1) 8320-GN
57277-CM3	4-Mode Surge Protection Panel, with Surge Event Counter	277/480 3Ø WYE, 4-wire + gnd	150 kA (300 kA)	(3) 7277, (1) 8320-GN
57480-DM3	3-Mode Surge Protection Panel	480 3Ø Delta, 3-wire + gnd	150 kA (300 kA)	(3) 7480

TYPE 3 SURGE PROTECTIVE DEVICES

Surge Protective Receptacles

- An extensive selection of amperages, colors and configurations to meet almost any need
- EMI/RFI Noise Filtering
- Audible alarm
- Back and side-wired design with durable metal mounting strap
- Point-of-use protection for up to 18,000 amps of surge current total



Ordering Guide: 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	
15 A	Duplex	T5280	T5280-I	T5280-W	T5280-GY	—	T5280-B	T5280-E	—	T5280-T	■
15 A	Duplex	—	T7280-I	T7280-W	—	—	T7280-B	T7280-E	—	T7280-T	■
15 A	Duplex	—	T8280-I	T8280-W	—	T8280-R	T8280-B	—	—	T8280-T	■ ●
20 A	Duplex	T5380	T5380-I	T5380-W	T5380-GY	—	T5380-B	T5380-E	—	—	■
20 A	Duplex	—	T7380-I	T7380-W	—	—	T7380-B	T7380-E	—	—	■
20 A	Duplex	—	T8380-I	T8380-W	T8380-GY	T8380-R	T8380-B	—	—	—	■ ●
Decora® Surge Protective Receptacles											
15 A	Duplex	5280	5280-I	5280-W	5280-GY	—	5280-B	—	—	5280-T	■
20 A	Duplex	5380	5380-I	5380-W	5380-GY	—	5380-B	—	—	—	■
15 A	Duplex	5280-IG	5280-IGI	5280-IGW	—	—	5280-IGB	—	5280-IGO	—	▼ ■
20 A	Duplex	5380-IG	5380-IGI	5380-IGW	5380-IGG	—	5380-IGB	—	5380-IGO	—	▼ ■
15 A	Duplex	—	7280-I	7280-W	—	—	7280-B	—	—	7280-T	■
20 A	Duplex	—	7380-I	7380-W	—	—	7380-B	—	—	—	■
4-in-1 Surge Protective Receptacles											
15 A	Four-In-One	—	5480-I	5480-W	5480-GY	5480-R	5480-BU	—	—	—	■
20 A	Four-In-One	—	5490-I	5490-W	5490-GY	—	5490-BU	—	—	—	■
15 A	Four-In-One	—	—	—	—	—	—	—	5480-IG	—	▼ ■
20 A	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	
15 A	Duplex	8280	8280-I	8280-W	—	8280-R	8280-B	—	—	8280-T	■ ●
20 A	Duplex	8380	8380-I	8380-W	8380-GY	8380-R	8380-B	—	—	—	■ ●
20 A	Single	—	8381-I	—	—	—	—	—	—	—	■ ●
15 A	Duplex	—	8280-IGI	8280-IGW	—	—	8280-IGB	—	8280-IGO	—	▼ ■ ●
20 A	Duplex	—	8380-IGI	8380-IGW	8380-IGG	—	8380-IGB	—	8380-IGO	—	▼ ■ ●
20 A	Single	—	8381-IGI	—	—	—	—	—	—	—	▼ ■ ●
4-in-1 Surge Protective Receptacles											
15 A	Four-In-One	—	8480-I	8480-W	—	8480-R	—	—	—	—	■ ●
20 A	Four-In-One	—	8490-I	8490-W	—	8490-R	—	—	—	—	■ ●
15 A	Four-In-One	—	8480-IGI	8480-IGW	—	—	8480-IGB	—	—	—	▼ ■ ●
20 A	Four-In-One	—	8490-IGI	—	—	—	8490-IGB	—	8490-IG	—	▼ ■ ●

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

TYPE 3 SURGE PROTECTIVE DEVICES

S1000 and S2000 Series Surge Protective Strips

- Internal circuit breaker
- Audible alarm
- Multi-line protection (L-N, L-G, N-G)



5100 and 5300 Series Surge Protective Strips

- Industrial Grade strips feature metal housings while Commercial Grade strips feature thermoplastic housing
- Industrial Grade strips with tamper-resistant, Hospital Grade components
- Multi-line protection (L-N, L-G, N-G)
- Onboard resettable circuit breaker



Ordering Guide: S1000 and S2000 Series Surge Protective 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

Ordering Guide: 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 SURGE PROTECTIVE DEVICES

Medical Grade Power Strips

- Available in multiple outlet configurations and cord lengths
- Hospital Grade outlets
- Compatible with Isolated Power Systems
- Heavy duty steel construction
- Built-in overload protection
- UL 1449, 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
- Locking safety covers are splash-resistant and protect from incidental contact with unused outlets



Ordering Guide: Medical Grade Power Strips

Stock Configs.	Current Rating	AC Power Cord Length	Number of Outlets	Catalog Number
Surge Protective Medical Grade Power Strips	15 Amp (12 Amp 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
	20 Amp (16 Amp 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	15 Amp (12 Amp 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
	20 Amp (16 Amp 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
Mounting Bracket				5300M-BKT

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 SURGE PROTECTIVE DEVICES

3800 Series

- Suitable for 125 VAC applications
- UL recognized components
- MOV-based suppression circuitry provides optimum clamping
- Tested to ANSI/IEEE C62.41 and C62.45 standards for category A & B applications
- Terminal-Block accepts 14 AWG or 12 AWG conductors

Ordering Guide: 3800 Series Surge Modules 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

DIN Rail Mount Receptacles

- Provide MOV-based normal mode and common mode L-N, L-G, N-G surge protection
- LED indicator and audible alarm
- Outlet continues to provide power to connected load in the event of a loss of protection



LOW VOLTAGE DEVICES

3800 Series Modules

- 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

Ordering Guide: 3800 Series Low Voltage (DC) Power Surge Protective Modules

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

3400/3800 Series Modules

- 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



Ordering Guide: 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	9.6 VDC	Devices operating on Allen-Bradley 4-20 ma Signal Loop networks and other related protocols, 9 V
3420-35	SPD with 3-Pin Header Connector, Surface Mount	38.5 VDC	Devices operating on Allen-Bradley 4-20 ma Signal Loop networks and other related protocols, 35 V
3803-485	SPD with 6-Pin Header Connector, Surface Mount	9.6 VDC	Devices operating on Allen-Bradley DH-485 networks and other related protocols
3803-DHP	SPD with 3-Pin Header Connector, Surface Mount	9.6 VDC	Devices operating on Allen-Bradley "Blue Hose" networks and other related protocols

Visit our Website at:

www.leviton.com/surge

email: commercial@leviton.com

Q-1186

081519

Leviton Manufacturing Co., Inc.

201 N Service Rd, Melville, NY 11747

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

Tech Line (8:30AM-7:30PM E.S.T. Monday-Friday): 1-800-824-3005

© 2019 Leviton Manufacturing Co., Inc. All rights reserved.

