

SURGE PANELS

Type 2 Surge Panels

Permanently connected SPDs intended for installation on the load side of the service equipment overcurrent device; including SPDs located at the branch panel.

52277-7CS, 51110-PTC and 42120



Quick Reference — Type 2 Surge Panels

Type 2 Surge Protective Devices						
V/Phase Cat. No.	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 (100kA)	20kA	Yes	Type 12	No	Yes
52120-M2	100kA (100kA)	20kA	Yes	Type 12	No	Yes
52120-CM2	100kA (100kA)	20kA	Yes	Type 12	Yes	Yes
52120-M2H	100kA (100kA)	20kA	Yes	Type 12	No	Yes
32120-1	80kA (80kA)	3kA	No	Type 3R	No	Yes
42120-1	80kA (80kA)	3kA	No	Type 3R	No	Yes
51120-1	50kA (50kA)	3kA	No	Type 1	No	Yes
51110-1	48kA (96kA)	3kA	No	Type 4X	No	No
51110-PTC	48kA (96kA)	3kA	No	Type 1	No	No

N/A: Not applicable as these units do not have line-to-ground (L-G) surge protection

Continued on next page

SURGE PANELS | 32000 and 42000 Series

32000 and 42000 Series Type 2 Surge Panels

One of our most popular series, Leviton's 32000 and 42000 surge protection panels provide protection for up to 80kA of surge current per mode. They feature noise filtering, visual and audible indication of surge protection status and dry contacts for remote monitoring, all in a compact enclosure.

Features and Benefits

32000 and 42000 Series Panel Mount Surge Protective Devices

- 32000 Series features reduced noise filtering for optimum compatibility with Leviton's Decora Home Control® and X10 communication network devices
- 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
- 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



42120-1 with 42001-FMC
Flush Mount Collar



42120-1

32000 and 42000 Series Type 2 Surge Panels

Cat. No.	Description	Voltage (VAC) Configuration	Max Surge Current, Per Mode (Per Phase)
32120-1	4-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	80kA (80kA)
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)
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)
42120-1	4-Mode Surge Protection Panel	120/240 Single-phase, 2-wire + gnd	80kA (80kA)
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)
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)
32347-DY3	4-mode Surge Protection Panel	347/600 3Ø WYE, 4-wire + gnd or 3Ø Delta, 3-wire + gnd	80kA (80kA)
42347-DY3	4-mode Surge Protection Panel	347/600 3Ø WYE, 4-wire + gnd or 3Ø Delta, 3-wire + gnd	80kA (80kA)
42001-FMC	Flush Mount Collar for all 32000 and 42000 Series Panels	—	—

Surge Protective Devices (SPDs)

TYPE 2



SURGE PANELS | 32000/42000, 51120 and 51120-3

Continued from previous page

Specifications for 32000/42000, 51120-1 and 51120-3 Type 2 Surge Panels

Cat. No.	51120-1	51120-3	32120-1 42120-1	32120-DY3 42120-DY3	32277-DY3 42277-DY3	32412-DS3 42412-DS3	32347-DY3 42347-DY3		
Electrical Specifications									
Voltage	120/240VAC Single phase	120/208VAC 3-phase WYE	120/240VAC Single phase	120/208V 3Ø WYE	277/408V 3Ø WYE	120/240/120V 3Ø Hi-Leg Delta	347/600V 3Ø WYE, 660V 3Ø Delta		
Surge Technology	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV	40mm MOV		
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz		
Recommended Circuit Breaker Rating	20A, 120/24V	20A, 120/208V	20A, 120/240V	30A, 120/208V	30A, 277/480V	30A, 120/240V	30A, 347/600V		
Performance Data									
Maximum Continuous Operating Voltage (MCOV)	L-N	150V	150V	150V	150V	320V	150V	385V	
	L-G	—	—	300V	300V	640V	300V	—	
	N-G	—	—	150V	150V	320V	150V	—	
	L-L	300V	300V	254V	254V	552V	254V	770V	
Voltage Protection Rating (VPR)	L-N	800V	800V	800V	700V	1200V	800V	1200V	
	L-G	—	—	2500V	—	—	—	—	
	N-G	—	—	700V	700V	1200V	700V	1000V**	
	L-L	1200V	1200V	1000V	1000V	1800V	1000V	2000V**	
Nominal Discharge Rating (I _n)	3kA	3kA	3kA	3kA	3kA	3kA	N/A		
Maximum Surge Current, per Mode (per Phase)	50kA (50kA)	50kA (50kA)	80kA (80kA)	80kA (80kA)	80kA (80kA)	80kA (80kA)	80kA (80kA)		
Short Circuit Current Rating (SCCR)	10kA	10kA	100kA	100kA	100kA	100kA	100kA		
EMI/RFI Noise Rejection	-6dB to -28dB (@ 100kHz- 100MHz)	-6dB to -28dB (@ 100kHz- 100MHz)	32000 Series: -20 to -40dB (@ 1.5K-1.2MHz)					42000 Series: -30 to -40dB (@ 10K-10MHz)	
Warranty									
Product Warranty	Limited lifetime								
Connected Equipment Coverage	Up to \$25,000*	—							

*As part of the True Whole House Surge Protection Warranty.

**Surge Voltage Rating (SVR)

SPOTLIGHT

Surge Protection

Need assistance? To learn more about how to implement an effective surge protective network have a Surge Protection Expert contact you. Visit www.leviton.com/surge for more information.

