

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

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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
120/208V, Three-Phase WYE						
75120-7M3	320kA (640kA)	10kA	Yes	Type 12	Yes	Yes
74120-7M3	200kA (400kA)	10kA	Yes	Type 12	Yes	Yes
47120-7	200kA (400kA)	10kA	No	Type 1	No	Yes
47120-4X7	200kA (400kA)	10kA	No	Type 4X	No	Yes
57120-M3	150kA (150kA)	20kA	Yes	Type 12	No	Yes
57120-CM3	150kA (150kA)	20kA	Yes	Type 12	Yes	Yes
52120-7MS	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52120-7CS	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
52120-7M3	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52120-7C3	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
52120-M3	100kA (100kA)	20kA	Yes	Type 12	No	Yes
52120-CM3	100kA (100kA)	20kA	Yes	Type 12	Yes	Yes
37120-7	100kA (200kA)	5kA	No	Type 1	No	Yes
51120-3	50kA (50kA)	3kA	No	Type 1	No	Yes
120/208V, Three-Phase WYE or 208V, Three-Phase Delta or 220V, Three-Phase Delta						
32120-DY3	80kA (80kA)	3kA	No	Type 3R	No	Yes
42120-DY3	80kA (80kA)	3kA	No	Type 3R	No	Yes
120/240/120V, Three-Phase Hi-leg Split Phase Delta						
52412-DS3	100kA (100kA)	20kA	Yes	Type 12	No	Yes
32412-DS3	80kA (80kA)	3kA	No	Type 3R	No	Yes
42412-DS3	80kA (80kA)	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 (80kA)	3kA	No	Type 3R	No	Yes
42277-DY3	80kA (80kA)	3kA	No	Type 3R	No	Yes
240V, Three-Phase Delta						
57240-DM3	150kA (150kA)	20kA	Yes	Type 12	No	Yes
52240-DM3	100kA (100kA)	20kA	Yes	Type 12	No	Yes
277/480V, Three-Phase WYE						
75277-7M3	320kA (640kA)	10kA	Yes	Type 12	Yes	Yes
74277-7M3	200kA (400kA)	10kA	Yes	Type 12	Yes	Yes
47277-7	200kA (400kA)	10kA	No	Type 1	No	Yes
47277-4X7	200kA (400kA)	10kA	No	Type 4X	No	Yes
57277-M3	150kA (150kA)	20kA	Yes	Type 12	No	Yes
57277-CM3	150kA (150kA)	20kA	Yes	Type 12	Yes	Yes
52277-7MS	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52277-7CS	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
52277-7M3	100kA (200kA)	20kA	Yes	Type 12	No	Yes
52277-7C3	100kA (200kA)	20kA	Yes	Type 12	Yes	Yes
52277-M3	100kA (100kA)	20kA	Yes	Type 12	No	Yes
52277-CM3	100kA (100kA)	20kA	Yes	Type 12	Yes	Yes
37277-7	100kA (200kA)	5kA	No	Type 1	No	Yes
480V, Three-Phase Delta						
57480-DM3	150kA (150kA)	20kA	Yes	Type 12	No	Yes
52480-DM3	100kA (100kA)	20kA	Yes	Type 12	No	Yes
347/600V, Three-Phase WYE or 600V, Three-Phase Delta						
32347-DY3	80kA (80kA)	---	No	Type 3R	No	Yes
42347-DY3	80kA (80kA)	---	No	Type 3R	No	Yes
347/600V, Three-Phase WYE						
57347-M3	150kA (150kA)	---	Yes	Type 12	No	Yes
600V, Three-Phase Delta						
57600-DM3	150kA (150kA)	---	Yes	Type 12	No	Yes

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

SURGE PANELS | 74000/75000 Series

74000/75000 Series Type 2 Surge Panels

Leviton's 74000 and 75000 Series panel mounted surge protective devices provide seven-mode protection in WYE-configured, 3-phase AC systems. Designed for most industrial and commercial environments with critical operations, these panels offer complete protection at the building entrance and distribution panel.

Features and Benefits

74000/75000 Series for 3-Phase Applications

- Protection for up to 200,000A (74000 Series) or up to 320,000A (75000 Series) of surge current per mode
- Seven-mode protection provides improved performance and longevity
- Real-time diagnostics monitor power and suppression status for each phase and provide both LED indicators and audible alarm
- User-replaceable plug-in modules eliminate the need to replace the entire surge panel following a damaging surge event
- Surge event history — including surge magnitude, time and date for each surge event — can be viewed on an easy-to-read display or downloaded for storage
- Equipped with dry contacts for remote monitoring
- NEMA Type 12 enclosure resists dirt, dust and light splashing water
- Limited lifetime product warranty with free replacement modules*

*Certain restrictions apply

74000/75000 Series Type 2 Surge Panels

Cat. No.	Description	Voltage (VAC) Configuration	Max Surge Current, Per Mode (Per Phase)	Replacement Modules
74120-7M3	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	200kA (400kA)	HC120-M40 (7)
74277-7M3	7-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	200kA (400kA)	HC277-M40 (7)
75120-7M3	7-Mode Surge Protection Panel	120/208 3Ø WYE, 4-wire + gnd	320kA (640kA)	HC120-M53 (7)
75277-7M3	7-Mode Surge Protection Panel	277/480 3Ø WYE, 4-wire + gnd	320kA (640kA)	HC277-M53 (7)



74120-7M3



75120-7M3

Specifications for 74000/75000 Series Type 2 Surge Panels

Cat. No.	74120-7M3	74277-7M3	75120-7M3	75277-7M3	
Electrical Specifications					
Voltage	120/208VAC 3-phase WYE	277/480VAC 3-phase WYE	20/208VAC 3-phase WYE	277/480VAC 3-phase WYE	
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	
Surge Technology	40mm MOV	40mm MOV	53mm MOV	53mm MOV	
Recommended Circuit Breaker Rating	30A, 120V	30A, 277V	30A, 120V	30A, 277V	
Performance Data					
Nominal Discharge Rate (I _n)	10kA				
Maximum Continuous Operating Voltage (MCOV)	L-L	300V	640V	300V	640V
	L-N	150V	320V	150V	320V
	L-G	150V	320V	150V	320V
	N-G	150V	320V	150V	320V
Voltage Protection Rating (VPR)	L-L	1200V	2000V	1500V	2000V
	L-N	700V	1200V	800V	1200V
	L-G	800V	1200V	800V	1200V
	N-G	500V	1000V	600V	1000V
Maximum Surge Current, per Mode (per Phase)	200kA (400kA)		320kA (640kA)		
Protection Mode	7 mode				
Short Circuit Current Rating (SCCR)	10kA				
EMI/RFI Noise Rejection	-40dB (@5K-100MHz)				
Diagnostics	Real time protection status LEDs & audible alarm, surge counter, downloadable event history log showing magnitude, duration of spike				
Remote Monitoring	Dry contact leads-N.O./N.C. Form C rated at 7Amps @ 240VAC or 30VDC				
Warranty					
Product Warranty	Limited lifetime				
Replacement Module Warranty	Limited lifetime*				

*Certain restrictions apply

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Surge Protective Devices (SPDs)

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.

