

## Type 2 Panel Mounted Surge Protective Devices (SPDs)

### 52000 Series Service/Branch Panel Protection

UL 1449  
3rd Edition  
Compliant



Leviton's 52000 Series panel mounted surge protective devices provide up to seven modes of protection with a variety of devices ranging from 120V single phase to 480V multi-phase. Providing modular protection for medium-exposure areas, the 52000 Series is one of Leviton's most popular SPD panel lines, with a good mix of value, performance, and features for industrial, commercial and residential applications.

#### Features and Benefits:

- Protection for up to 100,000 amps of surge current per mode
- Parallel design ensures continuous power even in the event of loss of surge protection
- Easily replaceable surge modules
- AC Sine Wave Tracking provides enhanced EMI/RFI filtering
- Real-time diagnostics monitor power and surge protection status
- Models available with Surge Counters
- NEMA 12 enclosure
- Manufactured to ISO 9001:2000 standards
- Limited Lifetime Product Warranty
- Free replacement modules\*
- UL 1449 3<sup>rd</sup> Edition Listed

\*Certain restrictions apply



Shown with flush-mount flange  
(included, but not required for installation)

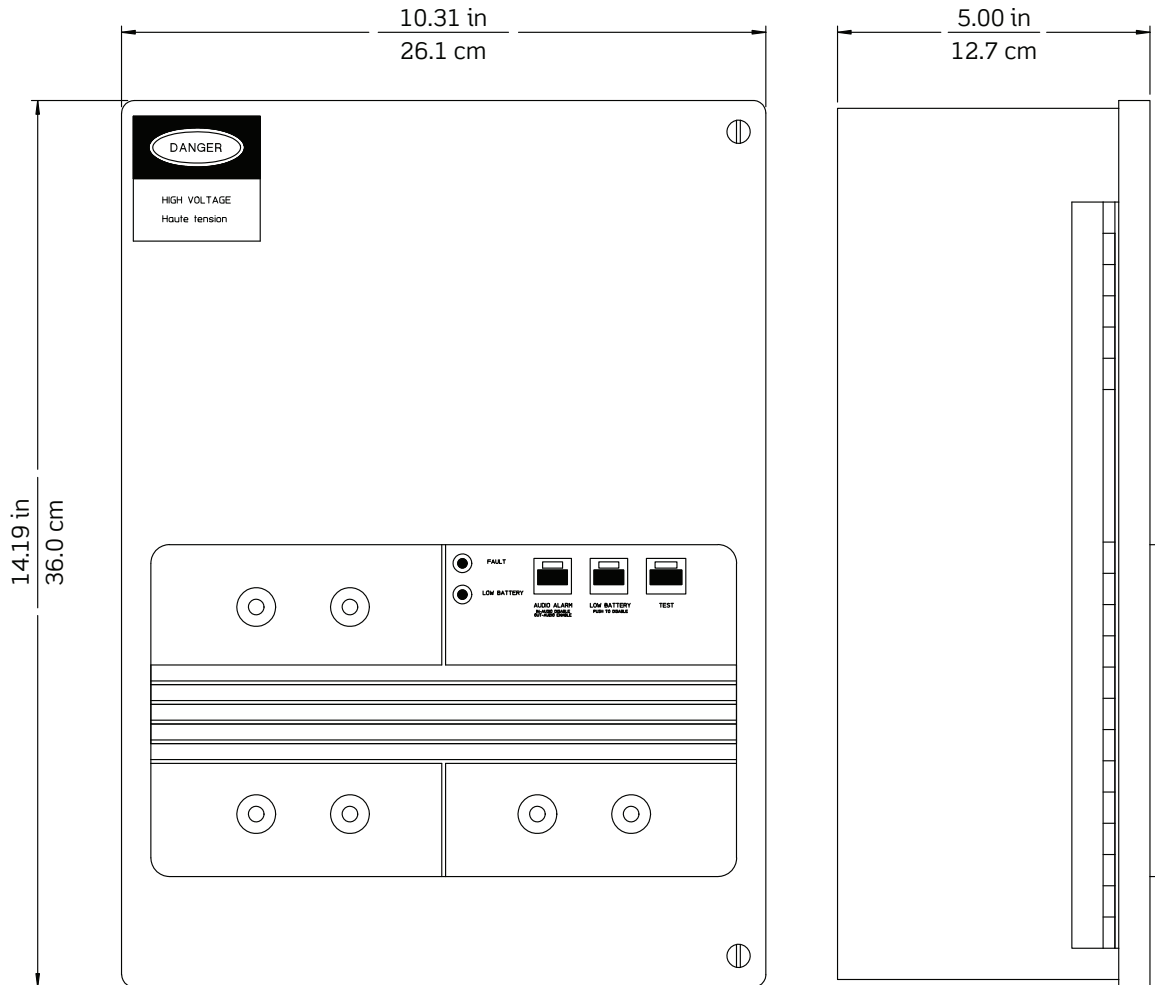
## Specifications

	52120-M1	52120-M2 52120-CM2	52120-M2H	52120-M3 52120-CM3	52120-7M3 52120-7C3	52240-DM3	52277-M3 52277-CM3	52277-7M3 52277-7C3	52480-DM3	52412-DS3	
<b>Electrical Specifications</b>											
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										
Surge Technology	40mm MOV										
<b>Performance Data</b>											
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
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	
Maximum Surge Current Per Mode	100kA										
Short Circuit Current Rating (SCCR)	100kA										
Nominal Discharge Rating ( $I_n$ )	10kA/20kA <sup>1</sup>										
EMI/RFI Noise Rejection	-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										
<b>Mechanical Specifications</b>											
Connection Type	Parallel-hardwired, feed-through dual wire terminal block: Accepts up to #3 AWG wire										
<b>Environmental Specifications</b>											
Enclosure Type	NEMA 12 Enclosure										
Operating Temperature	-4°F to 140°F(-20°C to 60°C)										
Storage Temperature	-4°F to 185°F(-20°C to 85°C)										
Flammability	Rated V-2 per UL 94										
Relative Humidity	5% to 95% non-condensing										
<b>Standards &amp; Certifications</b>											
UL 1449 3rd Edition	CSA Certified and UL Listed Type 2										
ANSI/IEEE Category A, B & C	C-62.41 & C-62.45										
Warranty	Limited Lifetime Product Warranty										
Replacement Module Warranty	Limited Lifetime*										

<sup>1</sup> $I_n$  = 10 kA when protected by a circuit breaker rated 30 A, min. (b) Volts, minimum 10 kA AIC.  $I_n$  = 20 kA when protected by a Square D Circuit Breaker Cat. No. QOB330A rated 30 A, min. 120/240 Volts, minimum 10 kA AIC or any Circuit Breaker rated 30A, (b) volts, minimum AIC 14kA. (b) Nominal System Voltage.

\*Certain restrictions apply

## Dimensions



## Ordering Information

Description	Catalog Number	Replacement Modules
120VAC, Single Phase, 2-Wire + Ground	52120-M1	(1) 2120, (1) 8120-GN
120/240VAC, Single Phase, 3-Wire + Ground	52120-M2	(2) 2120, (1) 8120-GN
120/240VAC, Single Phase, 3-Wire + Ground, Surge Counter	52120-CM2	(2) 2120, (1) 8120-GN
120/240VAC, Single Phase, 3-Wire + Ground, DHC & X10® compatible	52120-M2H	(2) 2120-M2H, (1) 8120-GN
120/208VAC, 3Ø WYE, 4-Wire + Ground	52120-M3	(3) 2120, (1) 8120-GN
120/208VAC, 3Ø WYE, 4-Wire + Ground, Surge Counter	52120-CM3	(3) 2120, (1) 8120-GN
120/208VAC, 7-Mode, 3Ø WYE, 4-Wire + Ground	52120-7M3	(3) 120-7M3, (1) 8120-GN
120/208VAC, 7-Mode, 3Ø WYE, 4-Wire + Ground, Surge Counter	52120-7C3	(3) 120-7M3, (1) 8120-GN
240VAC, 3Ø Delta, 3-Wire + Ground	52240-DM3	(3) 2240
277/480VAC, 3Ø WYE, 4-Wire + Ground	52277-M3	(3) 2277, (1) 8320-GN
277/480VAC, 3Ø WYE, 4-Wire + Ground, Surge Counter	52277-CM3	(3) 2277, (1) 8320-GN
277/480VAC, 7-Mode, 3Ø WYE, 4-Wire + Ground	52277-7M3	(3) 277-7M3, (1) 8320-GN
277/480VAC, 7-Mode, 3Ø WYE, 4-Wire + Ground, Surge Counter	52277-7C3	(3) 277-7M3, (1) 8320-GN
480VAC, 3Ø Delta, 3-Wire + Ground	52480-DM3	(3) 2480
120/240/120VAC, Hi-Leg Split Phase Delta, 3-Wire + Ground	52412-DS3	(2) 2120, (1) 2412, (1) 8120-GN

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