

SPD50K Series - Surge Protective Devices

The SPD50K Series offers easily monitored protection from surges. The visual diagnostic system that is featured in the SPD50K is easy to see and easy to diagnose. When the Green LED is visible, the protective device is okay and working correctly. When the Green LED is extinguished an audible alarm will sound. The equipment should be replaced. The LED is visible from multiple sides and angles to allow for better viewing of the status from any of the tri-mount options.


Application

- Can be installed anywhere in any electrical distribution system; line-side or load-side of main disconnect

Features

- 50 kA per phase surge current rating
- Type 1: UL 1449, CSA 22.2 No. 269.1
- 200 kA SCCR
- Complies with UL 96A 12th Edition master label requirements for lighting protection systems
- Voltage specific design
- Tri-mount installation possible via standard 0.75 in. nipple, DIN-Rail mount (rail not included) or bracket mount for flat surfaces
- Visual diagnostics
- Audible alarm with relay contacts
- Dry contact connection leads exit through nipple via #18 AWG (3 feet) at 24 Vdc @ 2 Amps
- Ten year limited warranty

Certifications and Compliances


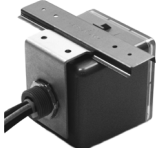

-  Listed
- UL 1449
- RoHS Compliant
- ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, C62.62-2010 and C62.72-2016



Specifications

Performance Specifications	
50 kA per phase	
UL 1449 Tested Inominal	20 kA
UL 1449 Tested SCCR	200 kA
Individually fused & Thermally Protected MOVs	
Repetitive Impulse	5000 - 3 kA - 8x20 μs 1000 - 10 kA - 8x20 μs
Physical Specifications	
Relative Humidity Range	0-95% non-condensing
Operating Frequency	47-63 Hz
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Response Time	<1 nanosecond
Solid State Bi-directional Operation	
NEMA 4X Polycarbonate Enclosure	UL 94V-0
Pre-wired with 3 feet (.9 meter) of #10 AWG Conductor	
Typical Connection	30 A Breaker

System Features

Green = Go Visual Diagnostic Monitoring		
Green LED visible = okay, Green LED extinguished = replace		
LED visible from multiple sides and angles - better viewing		
Every MOV is monitored as opposed to 'power is present'		
Tri-Mount Installation		
		
Std. 0.75 in. nipple	DIN-Rail Mount (rail not incl.)	Bracket Mount for flat surfaces

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Wiring Specifications

Model	System Configuration	Reference Diagram	UL 1449 Test Data								
			L-N	L-L	N-G	L-G	I _n	SCCR	MCOV		
SPD50K10S	2 POLE Phase A (Black) Neutral (White) Phase B (Black) Ground (Green)		700	1200	600	1200	20 kA	200 kA	150		
			120/240 V								
Models	WYE Phase A (Black) Phase B (Black) Neutral (White) Phase C (Black) Ground (Green)		L-N	L-L	N-G	L-G	I _n	SCCR	MCOV		
			SPD50K10Y	208 Y/120 V	700	1200	600	1200	20 kA	200 kA	150
			SPD50K27Y	480 Y/277 V	1200	2000	1000	1800	20 kA	200 kA	320
			SPD50K34Y	600 Y/347 V	1500	2500	1200	2500	20 kA	200 kA	420
Models	DELTA Phase A (Black) Phase B (Black) Phase C (Black) Ground (Green)		L-N	L-L	N-G	L-G	I _n	SCCR	MCOV		
			SPD50K24D*	240 V Delta	-	1500	-	1200	20 kA	200 kA	320
			SPD50K48D*	480 V Delta	-	3000	-	1800	20 kA	200 kA	552
			SPD50K60D*	600 V Delta	-	2500	-	2500	20 kA	200 kA	690

* Does not include N-G protection

Dimensional Diagram - in. (mm)

