



# SURGE PROTECTORS

Easy Installation. **Secure Operation.**

The equipment operating in your industrial and commercial facilities are very sensitive and vulnerable to electrical surges. Therefore, proper protection of devices must be ensured both during normal operation & natural causes like lightning strikes.

Allanson's **SP & SPB series Surge Protection Devices** protect electrical equipment from transient overvoltages to increase reliability and reduce costly downtime. The devices come in two forms; Cylinder & Bar, so you can choose the one that is most appropriate for your project. Such an investment will assure organizations of operational reliability and secure investments while vastly limiting damages and costs should a disaster strike.

## Benefits:

- ▶ Easy Installation
- ▶ Operational LED Indicator
- ▶ Uninterrupted Service
- ▶ Automatic Operation
- ▶ No Maintenance
- ▶ 120V & 277V
- ▶ IP65 Rating

## Did you know?

Approximately **60-80% of power surges** originate from internal sources and can last a few hundred microseconds, hours or even days.

- National Electrical Manufacturers Association

*Protecting your valuables at an affordable price!*



Learn more at [allanson.com/surgeprotectors](http://allanson.com/surgeprotectors)

## DESCRIPTION:

Allanson's SPB series (Bar) Surge Protection Device (SPD) is designed to protect power equipment against power surges or disturbance. The surge protector can absorb single or multiple surges up to 10kA or 20kA (depending on the model number).

## FEATURES:

- SPB series protect devices from surge disturbance between Line to Neutral, Line to Ground and Neutral to Ground
- IP65 rated SPD for both indoor and outdoor application
- 277V versions are designed to protect devices with input voltage rating from 120V to 277V
- 480V versions are designed to protect devices with input voltage rating from 277V to 480V
- Green LED lights up to indicate normal operation. If LED goes off, the surge protector should be replaced
- SPD Type: 4CA
- Max case temperature of 85°C



## STANDARDS:

- "20KA" Protects against surges and transients per ANSI C62.41-2002 category C high (10KV, 1.2/50µs & 10KA, 8/20µs) standard Combination waves and (6KV, 100KHz) Ring wave;
- "10KA" Protects against surges and transients per ANSI C62.41-2002 category C low (6KV, 1.2/50µs & 3KA, 8/20µs) standard Combination waves and (6KV, 100KHz) Ring wave
- "20KA" Protects against surges and transients per new ANSI C82.77-5 2015 category C high (20KV, 1.2/50µs & 10KA, 8/20µs) standard Combination waves and (6KV, 100KHz) Ring wave;
- "10KA" Protects against surges and transients per new ANSI C82.77-5 2015 category C medium (10KV, 1.2/50µs & 5KA, 8/20µs) standard Combination waves and (6KV, 100KHz) Ring wave
- UL recognised component (UL1449)

## TECHNICAL SPECIFICATION:

Part Number	Description	Mains Voltage	Continuous Max Voltage Rating		Max Clamping Voltage 8/20 µs @ 20kA
			AC	DC	
SPB10KA-120-277	Surge Protector, SPB Series, Bar, 120-277V, 10KA	120-277V	320	420	1500
SPB20KA-120-277	Surge Protector, SPB Series, Bar, 120-277V, 20KA	120-277V	320	420	1600
SPB10KA-277-480	Surge Protector, SPB Series, Bar, 277-480V, 10KA	277-480V	550	715	2500
SPB20KA-277-480	Surge Protector, SPB Series, Bar, 277-480V, 20KA	277-480V	550	745	3000

\* Product can be purchased as a single unit or a carton of 20 units.

For more information, please visit us at [allanson.com](http://allanson.com)



## DESCRIPTION:

Allanson's SP series (Cylinder) Surge Protection Device (SPD) is designed to protect power equipment against power surges or disturbances. The surge protector can absorb single or multiple surges up to 10kA or 20kA (depending on the model number).

## FEATURES:

- SP series protect devices from surge disturbance between Line to Neutral, Line to Ground and Neutral to Ground
- IP65 rated SPD for both indoor and outdoor application
- 277V versions are designed to protect devices with input voltage rating from 120V to 277V
- 480V versions are designed to protect devices with input voltage rating from 277V to 480V
- Green LED lights up to indicate normal operation. If LED goes off, the surge protector should be replaced
- SPD Type: 4CA
- Max case temperature of 85°C



## STANDARDS:

- "20KA" Protects against surges and transients per ANSI C62.41-2002 category C high (10KV, 1.2/50µs & 10KA, 8/20µs) standard Combination waves and (6KV, 100KHz) Ring wave;
- "10KA" Protects against surges and transients per ANSI C62.41-2002 category C low (6KV, 1.2/50µs & 3KA, 8/20µs) standard Combination waves and (6KV, 100KHz) Ring wave
- "20KA" Protects against surges and transients per new ANSI C82.77-5 2015 category C high (20KV, 1.2/50µs & 10KA, 8/20µs) standard Combination waves and (6KV, 100KHz) Ring wave;
- "10KA" Protects against surges and transients per new ANSI C82.77-5 2015 category C medium (10KV, 1.2/50µs & 5KA, 8/20µs) standard Combination waves and (6KV, 100KHz) Ring wave
- UL recognised component (UL1449)

## TECHNICAL SPECIFICATION:

Part Number	Description	Mains Voltage	Continuous Max Voltage Rating		Max Clamping Voltage 8/20 µS @ 20kA
			AC	DC	
<b>SP10KA-120-277</b>	Surge Protector, SP Series, Cylinder, 120-277V, 10KA	120-277V	320	420	1500
<b>SP20KA-120-277</b>	Surge Protector, SP Series, Cylinder, 120-277V, 20KA	120-277V	320	420	1600
<b>SP10KA-277-480</b>	Surge Protector, SP Series, Cylinder, 277-480V, 10KA	277-480V	550	715	2500
<b>SP20KA-277-480</b>	Surge Protector, SP Series, Cylinder, 277-480V, 20KA	277-480V	550	745	3000

\* Product can be purchased as a single unit or a carton of 25 units.

For more information, please visit us at [allanson.com](http://allanson.com)

## TECHNICAL SPECIFICATION (CONT'D):

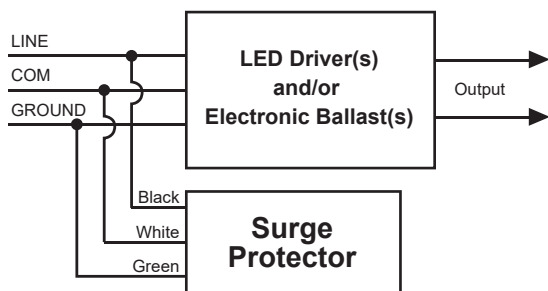
"10KA"

Pulse Rating (8 x 20 $\mu$ Sec)					
Strikes	1	2	10	100	1,000
Surge (A)	10,000	6,500	3,000	1,500	700

"20KA"

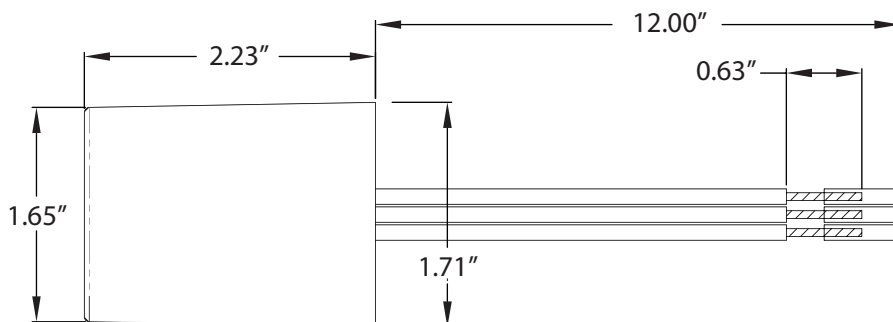
Pulse Rating (8 x 20 $\mu$ Sec)					
Strikes	1	2	15	120	
Surge (A)	20,000	15,000	10,000	3,000	

## WIRING DIAGRAM:



## DIMENSIONS:

SP10KA-120-277 / SP10KA-277-480  
 SP20KA-120-277 / SP20KA-277-480



### Weight:

0.16 lbs / 73g