

# Pyrofuse Series Products Manual

**Right timing,  
Full protection.**

Expert in new energy power system protection

## **Engineering Support Available**

- Pyrofuse model selection
- Application-based testing support
- Technical specification clarification

**Contact our engineers:** [info@chauron.com.cn](mailto:info@chauron.com.cn)

# Product overview

Models	Rated current (A)	Max. breaking capacity	Size(mm)	Weight (g)	Trigger method
SPF-1	300	32V/2kA/60 $\mu$ H 150V/1.2kA/60 $\mu$ H	30×22×42	≤60	Triggered by external signal
SPF-2	400	400V/10kA/15 $\mu$ H 500V/5kA/20 $\mu$ H	42×42×68	≤190	Triggered by external signal
SPF-2L	400	930V/12kA/15 $\mu$ H 500V/13kA/15 $\mu$ H	42×42×63	≤180	Triggered by external signal
SPF-3	400	1000V/16kA/20 $\mu$ H	50×50×70	≤240	Triggered by external signal
SPF-4A	400	1000V/16KA/40 $\mu$ H	70×50×83	≤400	Triggered by internal and external signal

\*The above products are only examples. There are many other products not listed. If you have any needs for standard or customized fuses, please contact us.

To select a suitable pyrofuse, please consider:

- System voltage
- Continuous current
- Prospective fault current
- Triggering method

If these parameters are not fully defined:

→ Our engineers can help evaluate and recommend a suitable model

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# Pyrofuse SPF-1

2025.07.V8



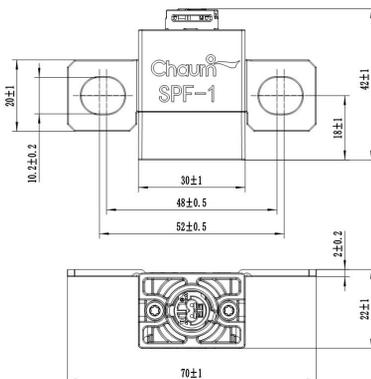
## Characteristics

- ◆ Compact, Lightweight
- ◆ Externally Triggered
- ◆ Fast and Reliable Breaking Speed
- ◆ Low Internal Resistance and Power Consumption
- ◆ Applications: Evs, charging piles, energy storage systems, and high-flow DC power supply equipment

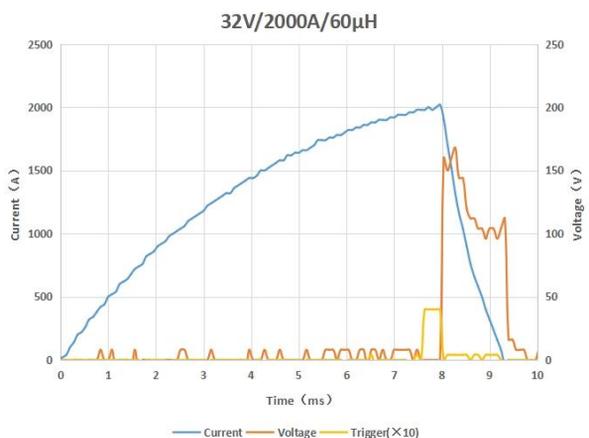
## Parameters

◆ <b>Rated voltage:</b>	150VDC	◆ <b>Busbar resistance(at 20°C):</b>	
◆ <b>Current carrying capacity:</b>		before-ops:	≤75μΩ
300A 85°C (load cable 50mm <sup>2</sup> )		after-ops:	≥10MΩ
250A 105°C (load cable 50mm <sup>2</sup> )		◆ <b>Operating temperature:</b>	-40°C to 105°C
200A 125°C (load cable 50mm <sup>2</sup> )		◆ <b>Storage temperature:</b>	-40°C to 65°C
◆ <b>Breaking capacity:</b>	32V/2kA/60μH	◆ <b>Self-ignition temperature :</b>	≥250°C
	150V/1.2kA/60μH	◆ <b>Vibration resistance acc. to</b>	AK-LV 124
◆ <b>Breaking time:</b>	< 2ms	◆ <b>Mech. Shock resistance acc. to</b>	AK-LV 124
◆ <b>Triggering resistance:</b>	1.8 Ω~2.3Ω	◆ <b>Temperature cycle resistance acc. to</b>	AK-LV 124
◆ <b>Triggering current:</b>	1.75A/0.5ms	◆ <b>Chemical loads resistance acc. to</b>	AK-LV 124
	1.2A/2ms	◆ <b>Weight:</b>	≤60g
◆ <b>No-Trigg.current:</b>	≤0.4A/10s	◆ <b>Terminal type:</b>	
	≤5.0A/≤4μs	on bus-bar	M10 screw
◆ <b>Diagnostic current:</b>	≤100mA	Install torque	16N.m
◆ <b>Triggering pulse slope:</b>	< 100μs/A	◆ <b>Sockets:</b>	ISO19072-4 AK II

## Dimensions (mm)



## The test waveform (32V/2kA/60μH)



**Need support for this model?**  
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# Pyrofuse SPF-2

2024.11.V7



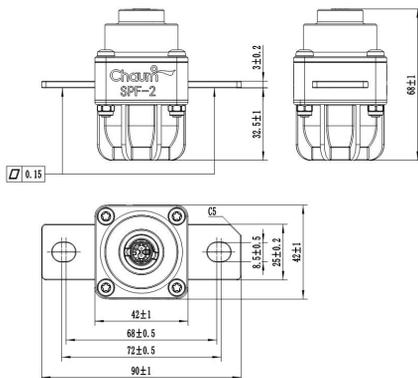
## Characteristics

- ◆ Externally Triggered
- ◆ Fast and Reliable Breaking Speed
- ◆ Low Internal Resistance and Power Consumption
- ◆ Applications: Evs, charging piles, energy storage systems, and high-flow DC power supply equipment

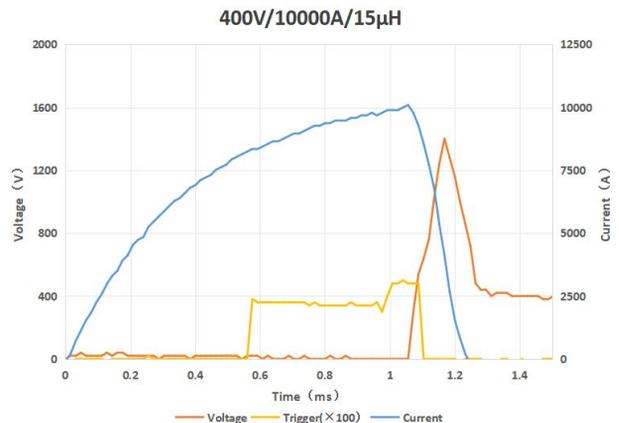
## Parameters

◆ <b>Rated voltage:</b>	500VDC	◆ <b>Busbar resistance(at 20°C):</b>	
◆ <b>Current carrying capacity:</b>		before-ops:	≤50μΩ
400A 85°C (load cable 95mm <sup>2</sup> )		after-ops:	≥10MΩ
300A 105°C(load cable 95mm <sup>2</sup> )		◆ <b>Operating temperature:</b>	-40°C to 105°C
200A 125°C (load cable 95mm <sup>2</sup> )		◆ <b>Storage temperature:</b>	-40°C to 65°C
◆ <b>Breaking capacity:</b>	400V/10KA/15μH	◆ <b>Self-ignition temperature :</b>	≥250°C
	500V/5kA/20μH	◆ <b>Vibration resistance acc. to</b>	AK-LV 124
◆ <b>Breaking time:</b>	< 2ms	◆ <b>Mech. Shock resistance acc. to</b>	AK-LV 124
◆ <b>Triggering resistance:</b>	1.8 Ω~2.3Ω	◆ <b>Temperature cycle resistance acc. to</b>	AK-LV 124
◆ <b>Triggering current:</b>	1.75A/0.5ms	◆ <b>Chemical loads resistance acc. to</b>	AK-LV 124
	1.2A/2ms	◆ <b>Weight:</b>	≤190g
◆ <b>No-Trigg.current:</b>	≤0.4A/10s	◆ <b>Terminal type:</b>	
	≤5.0A/≤4μs	on bus-bar	M8 screw
◆ <b>Diagnostic current:</b>	≤100mA	Install torque	14N.m
◆ <b>Triggering pulse slope:</b>	< 100μs/A	◆ <b>Sockets:</b>	ISO19072-4 AK II

## Dimensions (mm)



## The test waveform (400V/10KA/15μH)

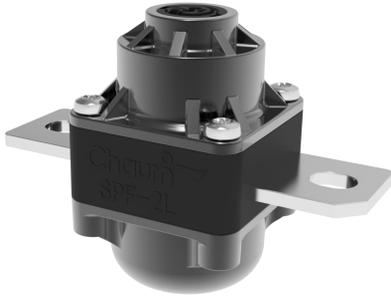


Right timing, Full protection.

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# Pyrofuse SPF-2L

2024.11.V9-2



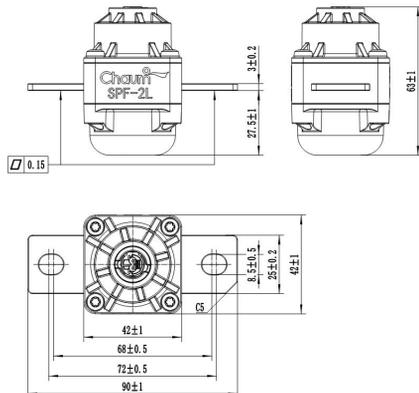
## Characteristics

- ◆ Externally Triggered
- ◆ Fast and Reliable Breaking Speed
- ◆ Low Internal Resistance and Power Consumption
- ◆ Applications: Evs, charging piles, energy storage systems, and high-flow DC power supply equipment

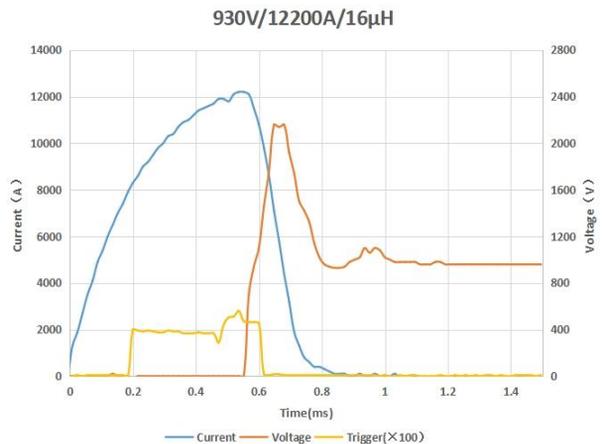
## Parameters

◆ <b>Rated voltage:</b>	930VDC	◆ <b>Busbar resistance(at 20°C):</b>	
◆ <b>Current carrying capacity:</b>		before ops.	≤50μΩ
400A 85°C (load cable 95mm <sup>2</sup> )		after ops.	≥10MΩ
300A 105°C(load cable 95mm <sup>2</sup> )		◆ <b>Operating temperature:</b>	-40°C to 105°C
200A 125°C(load cable 95mm <sup>2</sup> )		◆ <b>Storage temperature:</b>	-40°C to 65°C
◆ <b>Breaking capacity:</b>	930V/12kA/15μH	◆ <b>Self-ignition temperature :</b>	≥250°C
	500V/13kA/15μH	◆ <b>Vibration resistance acc. to</b>	AK-LV 124
◆ <b>Breaking time:</b>	< 1ms(1.75A triggering)	◆ <b>Mech. Shock resistance acc. to</b>	AK-LV 124
◆ <b>Triggering resistance:</b>	1.8 Ω~2.3Ω	◆ <b>Temperature cycle resistance acc. to</b>	AK-LV 124
◆ <b>Triggering current:</b>	1.75A/0.5ms	◆ <b>Chemical loads resistance acc. to</b>	AK-LV 124
	1.2A/2ms	◆ <b>Weight:</b>	≤180g
◆ <b>No-Trigg.current:</b>	≤0.4A/10s	◆ <b>Terminal type:</b>	
	≤5.0A/≤4μs	on bus-bar	M8 screw
◆ <b>Diagnostic current:</b>	≤100mA	Install torque	14N.m
◆ <b>Triggering pulse slope:</b>	< 100μs/A	◆ <b>Sockets:</b>	ISO19072-4 AK II

## Dimensions (mm)



## The test waveform (930V/12.2kA/16μH)



Right timing, Full protection.

**Need support for this model?**

[info@chaoron.com.cn](mailto:info@chaoron.com.cn)

# Pyrofuse SPF-3

2025.07.V5



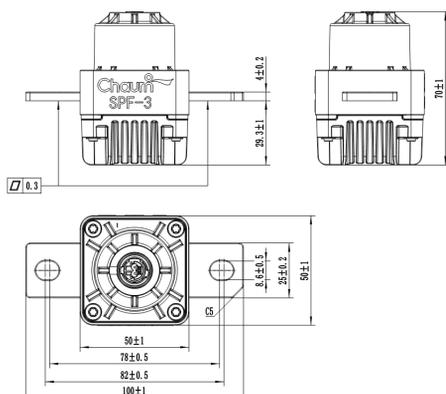
## Characteristics

- ◆ Externally Triggered
- ◆ Fast and Reliable Breaking Speed
- ◆ Low Internal Resistance and Power Consumption
- ◆ Applications: Evs, charging piles, energy storage systems, and high-flow DC power supply equipment

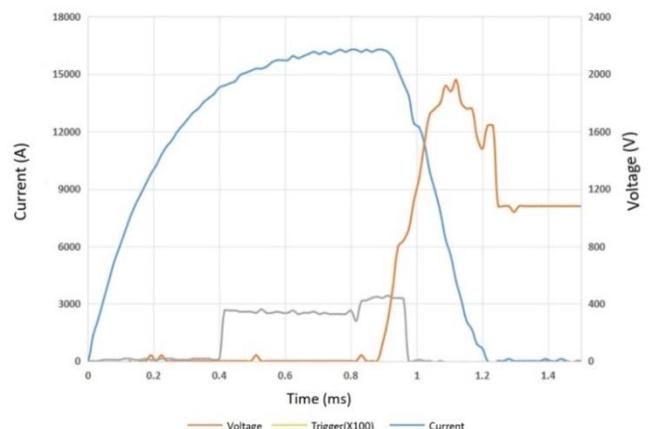
## Parameters

- |                                            |                 |                                               |                  |
|--------------------------------------------|-----------------|-----------------------------------------------|------------------|
| ◆ <b>Rated voltage:</b>                    | 1000VDC         | ◆ <b>Busbar resistance(at 20°C):</b>          |                  |
| ◆ <b>Current carrying capacity:</b>        |                 | before-ops:                                   | ≤50μΩ            |
| 400A 85°C (load cable 95mm <sup>2</sup> )  |                 | after-ops:                                    | ≥10MΩ            |
| 300A 105°C(load cable 95mm <sup>2</sup> )  |                 | ◆ <b>Operating temperature:</b>               | -40°C to 105°C   |
| 200A 125°C (load cable 95mm <sup>2</sup> ) |                 | ◆ <b>Storage temperature:</b>                 | -40°C to 85°C    |
| ◆ <b>Breaking capacity:</b>                | 1000V/16kA/20μH | ◆ <b>Self-ignition temperature :</b>          | ≥250°C           |
| ◆ <b>Breaking time:</b>                    | < 3ms           | ◆ <b>Vibration resistance acc. to</b>         | AK-LV 124        |
| ◆ <b>Triggering resistance:</b>            | 1.8 Ω~2.3Ω      | ◆ <b>Mech. Shock resistance acc. to</b>       | AK-LV 124        |
| ◆ <b>Triggering current:</b>               | 1.75A/0.5ms     | ◆ <b>Temperature cycle resistance acc. to</b> | AK-LV 124        |
|                                            | 1.2A/2ms        | ◆ <b>Chemical loads resistance acc. to</b>    | AK-LV 124        |
| ◆ <b>No-Trigg.current:</b>                 | ≤0.4A/10s       | ◆ <b>Weight:</b>                              | ≤240g            |
|                                            | ≤5.0A/≤4μs      | ◆ <b>Terminal type:</b>                       |                  |
| ◆ <b>Diagnostic current:</b>               | ≤100mA          | on bus-bar                                    | M8 screw         |
| ◆ <b>Triggering pulse slope:</b>           | < 100μs/A       | Install torque                                | 14N.m            |
|                                            |                 | ◆ <b>Sockets:</b>                             | ISO19072-4 AK II |

## Dimensions (mm)



## The test waveform (1000V/16.2kA/21μH)



Need support for this model?

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Hangzhou Chauron Technology Co., Ltd.

To help you select the right pyrofuse, please share:

- System voltage
- Current range
- Application type

Our engineers will review your requirements and recommend a suitable model.

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