

Pyro Fuse



1000VDC

See below:  
[Approvals and Compliances](#)

**Description**

- Safety device to be triggered by ECU/BMS
- To break down the main circuit via trigger device actively
- To disconnect the battery circuit in abnormal conditions such as short circuits or collisions

**Unique Selling Proposition**

- High safety and reliability
- Mechanical vibration and shock resistance

**Applications**

- Electric Vehicles (EVs)
- Conventional Vehicle Electrical Systems
- Charging Infrastructure
- Photovoltaic (PV) & Energy Storage Systems (ESS)
- Household Energy
- Storage Electric Vessels
- Fuel Cell Technologies
- Aerospace (including eVTOL)

**Weblinks**

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

**Technical Data**

Rated Voltage	1000VDC
Rated current	400A
Breaking Capacity	1000 VDC/16 kA/20 μH
Internal Resistance (@20 °C)	≤50 μΩ (before breaking) ≥10 MΩ (after disconnection)
Ignition resistance	≥1.7 Ω, ≤2.5 Ω
Trigger Current	≥1.75 A /0.5 ms or ≥1.2 A/2 ms
No Trigger Current	≤0.4 A /≤ 10 s or ≤5 A /≤0.5 μs
Monitoring Current	< 100 mA
Mounting	Bolt-on A
Admissible Ambient Temp.	-40 °C to 105 °C
Material: Housing	PA6
Material: Terminals	Copper alloy, tin-plated
Unit Weight	< 300 g
Storage Conditions	-40 °C to 65 °C max. 70% r.h. @ 40 °C max. 80% r.h. @ 30 °C max. 90% r.h. @ 20 °C
Product Marking	 Type Description, Type, Rated current, Rated Voltage

Resistance to Vibration	AK-LV 124
Current Carrying Capacity	400 A Continuous current @ 85 °C (Busbar size ≥120 mm <sup>2</sup> )
Action Time	<2 ms
Mechanical Shock	AK-LV 124
Temperature Cycling	AK-LV 124
Chemical resistance	AK-LV 124
Installation	M8 screw (Copper busbar) ISO 19072 AKII (trigger)

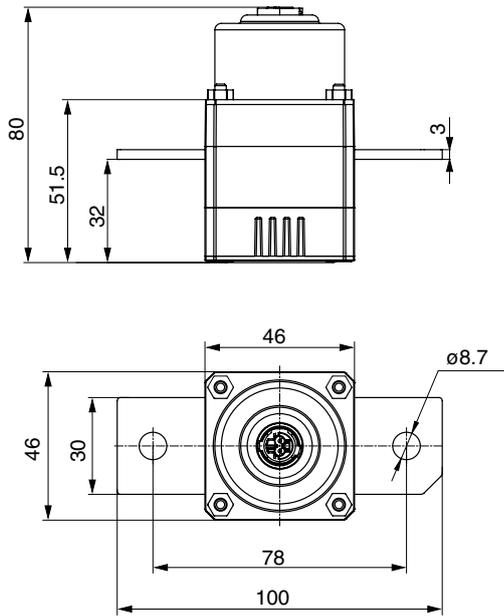
**Approvals and Compliances**

**Compliances**

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

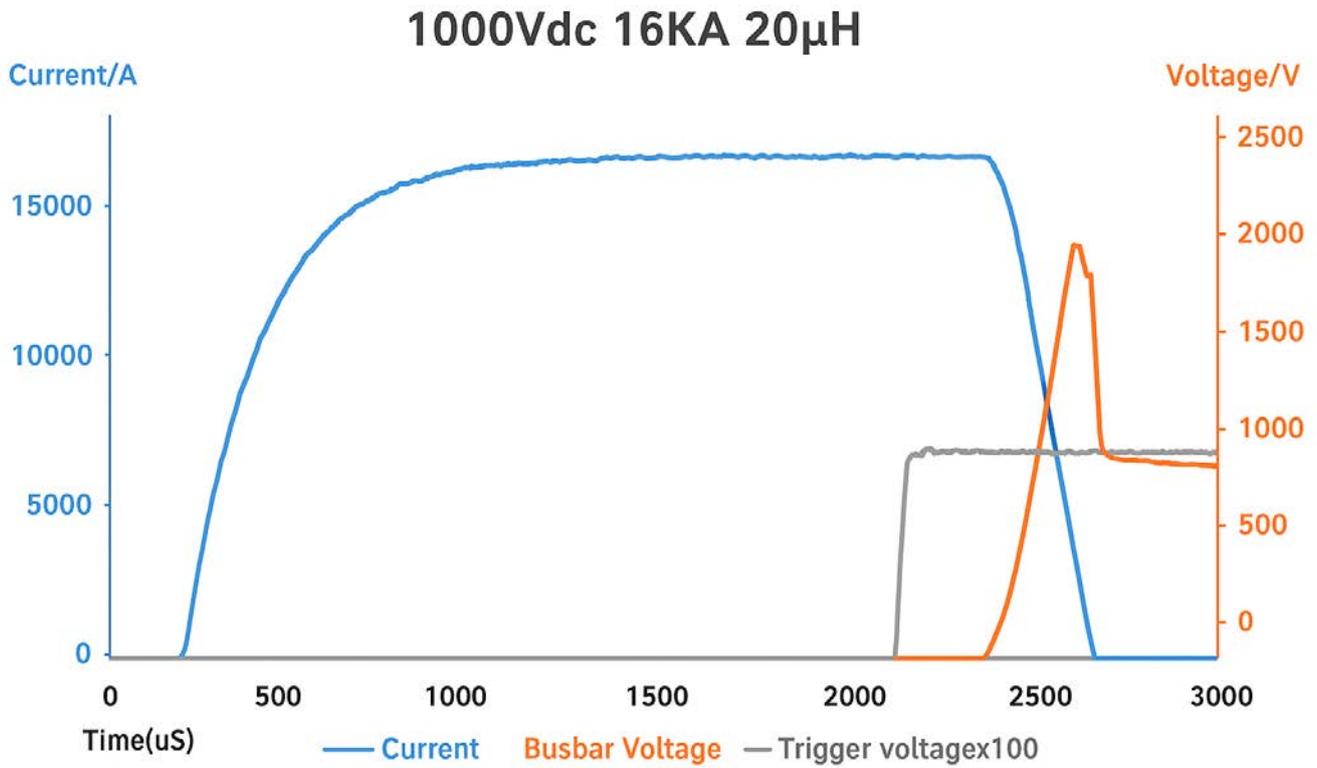
Dimension [mm] 



**Electric separation time**

Time summand	Typical	Maximum
Ignition delay	0.3 ms @1.75 A	0.5 ms @1.75 A
Mechanical separation time	0.2 ms	0.5 ms
Breaking time	0.5 ms	1.0 ms
Total switching time	1.0 ms	2.0 ms

Breaking Behavior



Variants

Rated current [A]	Rated Voltage [VDC]	Breaking Capacity	Connector Type	Order Number
400	1000	1000 VDC/16 kA/20 μH	AK-2 Code I	3-158-119

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

Packaging Unit

Bulk 445 x 370 x 268 mm (18 pcs.)

**Hazardous Materials Safety Instructions****Short-Circuit Ring**

The connector has a shorting clip. If not fully inserted, it shorts the two pins to prevent accidental activation during transport, installation, or use.

**Ground Isolation**

The low-voltage trigger signal must be isolated from the high-voltage system ground. A common ground or connection is prohibited.

**Breaking Capacity**

Do not use the fuse if the fault current exceeds its rated breaking capacity. Contact Schurter for applications with higher currents.

**Dropped Units**

Do not use a product that has been dropped. It must be inspected before any further use.

**Physical Damage**

Do not use a unit with any damage to the body or components.

**Triggering Power Source**

Only use designated triggering equipment. Do not use lead-acid or dry-cell batteries.

**RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE**

- The product's side panels can become hot during operation. Allow the unit to cool completely before touching.
- Follow the mounting instructions carefully, ensuring all fastenings are tightened to the specified torque values.
- Do not allow liquids or foreign objects to enter the product.

Not following these instructions can cause serious injury or damage to equipment.

**HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH**

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power Failure to follow these instructions will result in death or severe injury.



Transportation Hazard Classification: UN2648, Class 9