

- **Maximum continuous current 350 A at 105°C**
- **Non-reversible device**
- **Suitable for voltage levels up to 600 VDC**
- **High peak current carrying capability up to 13000 A**

Product description:

A pyrotechnical actuator separates the electric connection irreversibly. Pyrotechnical actuator is to be installed in EV vehicles and hybrid vehicles. It is triggered by the ECU, and is used to separate the motion battery from the electrical system.

Typical applications:

Battery disconnection to prevent fire caused by short circuits during/after an accident.

Switching capacity

Max. ohmic switching capacity	600 V / 8000 A / < 4 μ H
Max. inductive switching capacity	450 V / 8000 A / 15 μ H 450V / 300 A / 750 μ H

Operation time

Operating time	< 2 ms
Typical	0.8 ms for 450 V / 8000 A / 15 μ H

Current carrying capacity

105°C Max, load cable 70mm ² min	350 A DC
85°C Max, load cable 70mm ² min	420 A DC
50°C Max, load cable 70mm ² min	500 A DC

Maximum pulse current 23°C, load cable 50mm ²	13000 A / 20 ms
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Initiator Data

Qualified acc. to	AK-LV 16 & USCAR
Initiator resistance	$\geq 1,7 \Omega$ and $\leq 2,5 \Omega$

Triggering pulse current or	$\geq 1,75 \text{ A} / 0,5 \text{ ms}$ $\geq 1,20 \text{ A} / 2,0 \text{ ms}$
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No-triggering current or	$\leq 0,4 \text{ A}$ $\leq 5,0 \text{ A} / \leq 4 \mu\text{s}$
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Diagnostic current:	$\leq 100 \text{ mA}$
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Busbar

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Sn/Ni
Busbar resistance (at RT)	
before ops.	$\leq 0,05 \text{ m}\Omega$
after ops	$\geq 1 \text{ M}\Omega / 500 \text{ V}$

Temperature

Operating temperature	-40°C... + 105°C
Environmental temperature	-40°C... + 105°C
Storage temperature	-40°C..... + 65°C
Self-ignition	$\geq 210^\circ\text{C}$

Other Data

Vibration resistance acc. to	AK-LV 124
Mech. Shock resistance acc. to	AK-LV 124
Temperature cycle resistance acc. to	AK-LV 124
Chemical loads resistance acc. to	AK-LV 124
Other	Flamless device

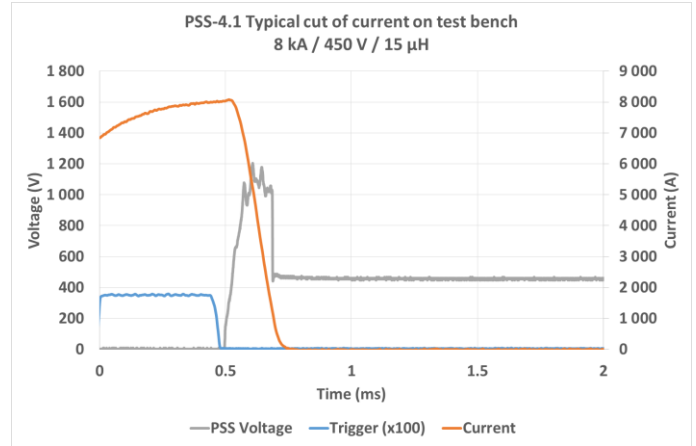
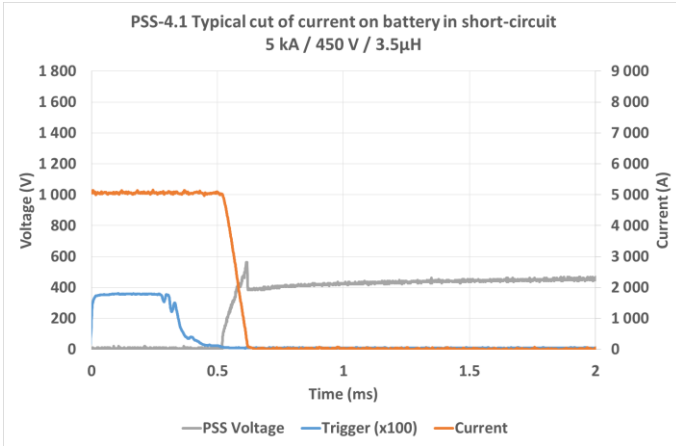
Terminal type

on busbar	M8 screw
on initiator	ISO 19072-1 compliant (sealed and un-sealed)

Weight

Weight	$\leq 160 \text{ g}$
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Performance

Dimensions
