

- Maximum continuous current 300A at 85°C
- Second circuit power off simultaneously
- Non-reversible device
- High peak current carrying capability up to 2000A

Product description:

A pyrotechnical actuator separates the electric connection irreversibly. Pyrotechnical switches are installed in many road vehicles. It is triggered by the ECU, and is used to separate the "starter-generator-cable" from the electrical system (battery). A second circuit is disconnected simultaneously.

Typical applications:

Battery disconnection to prevent fire caused by short circuits during/after an accident. Second circuit can be used as cut-off information

Switching capacity

Ohmic load	2000 A / 200 V
Inductive load ($\leq 60\mu\text{H}$)	2000 A / 150 V
Capacitive load	> 200V, contact us

Current carrying capacity

85°C, load cable 50 mm ²	300 A
105°C, load cable 50 mm ²	250 A
125°C, load cable 50 mm ²	200 A
Maximum short-time current	
23°C, load cable 50 mm ²	2000 A / 10 s

Busbar (Power circuit)

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Sn/Ni
Busbar profile	
Cross-section nominal	32 mm ²
Cross-section at separation point	$\geq 10 \text{ mm}^2$

Second circuit

Contact raw-material (base)	Cu-Alloy
Contact plating material (lead-free)	Ag/Ni
wire cross section	0.02 mm ²

Initiator Data (1/2)

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



Initiator Data (2/2)

All- Fire current	1,75 A / 0,5 ms
or	1,20 A / 2,0 ms
No-Fire current	$\leq 0,4 \text{ A}$
or	$\leq 5,0 \text{ A} / \leq 4\mu\text{s}$
Monitor current:	100 mA

Operation time

Release time	< 3 ms
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Resistance & Insulation data

Bus-bar resistance (at RT)	
before ops.	$\leq 0,1 \text{ m} \Omega$
after ops	$\geq 10 \text{ M} \Omega$

Temperature

Operating temperature	-40°C... + 125°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	ISO 16 750 – 3
Mech. Shock resistance acc. to	ISO 16 750 – 3
Temperature cycle resistance acc. to	ISO 16 750 – 4
Chemical loads resistance acc. to	ISO 16 750 – 5

Terminal type

on bus-bar	M8 screw
on second circuit	NanoMQS
on initiator	AK-1

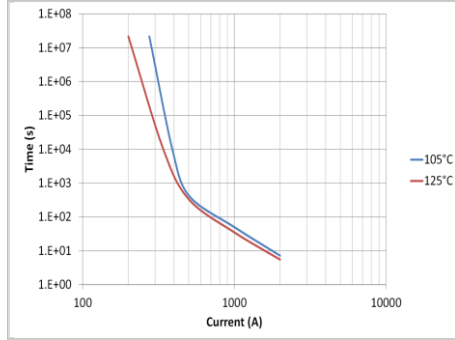
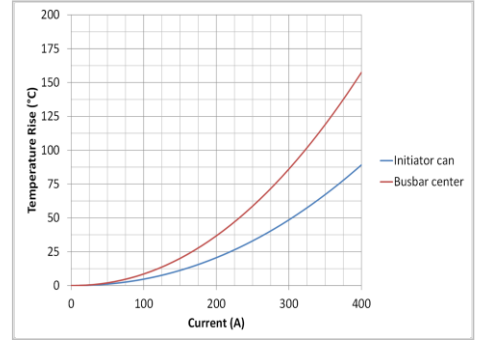
Weight

65 g

Packaging unit

Small unit (cardboard box)	98 pcs.
Large unit (container)	1960 pcs.



Derating curve

Temperature rise curve

Dimensions
