

- Maximum continuous current 300A at 85°C
- Second circuit power off simultaneously
- Non-reversible device
- Suitable for voltage levels up to 400VDC
- 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

Contact Data

Contact arrangement	bridge form
Rated voltage (Ohmic load)	400 V
Max. switching capacity :	
Ohmic load	2000 A / 400 V
Inductive load (60μH)	600 A / 400 V
Inductive load (60μH)	2000 A / 150 V

Rated current

85°C, load cable 50mm ²	300 A / 24 h
125°C, load cable 50mm ²	200 A / 24 h
Maximum short-time current	
23°C, load cable 50mm 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	≥ 10 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	≥1,7Ω and ≤ 2,5 Ω



Initiator Data (2/2)

All- Fire current	1,75 A / 0,5 ms
or	1,20 A / 2,0 ms
No-Fire current	≤ 0,4 A
or	≤ 5,0 A / ≤ 4μs
Monitor current:	100 mA

Operation time

Release time	< 3 ms
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Resistance & Insulation data

Bus-bar resistance (at RT)	
before ops.	≤ 0,1 m Ω
after ops	≥ 10 M Ω

Temperature

Operating temperature	-40°C... + 125°C
Environmental temperature	-40°C... + 105°C
Storage temperature	-40°C..... + 65°C
Self-ignition	≥ 210°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	ABX-5

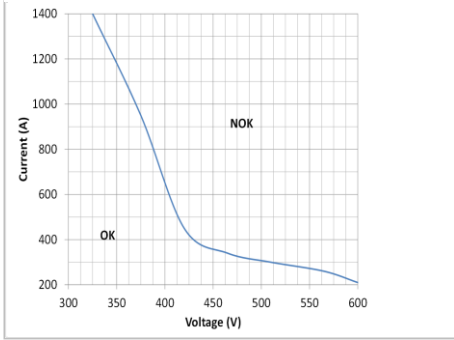
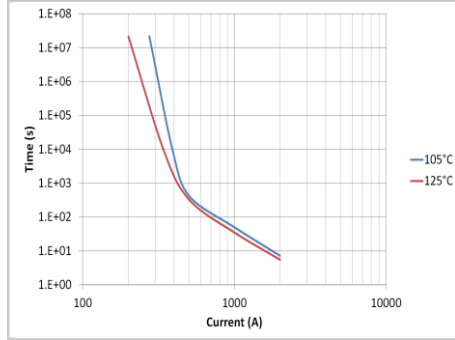
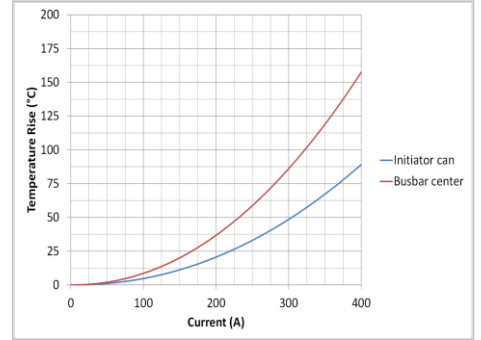
Weight

65 g

Packaging unit

Small unit (cartonage)	280 pcs.
Large unit (container)	2520 pcs.



Switching capacity ind. load (60μH)

Derating curve

Temperature rise curve

Dimensions
