

- **Maximum continuous current 300A at 85°C**
- **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).

Typical applications:

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

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

| | |
|--------------------------------------|----------------------|
| 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 |

Initiator Data

| | |
|----------------------|-------------------|
| Qualified acc. to | AK-LV 16 & USCAR |
| Initiator resistance | ≥1,7Ω and ≤ 2,5 Ω |
| 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 |
|--------------|--------|

Resistance & Insulation data

| | |
|---------------------------|-----------|
| Busbar 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

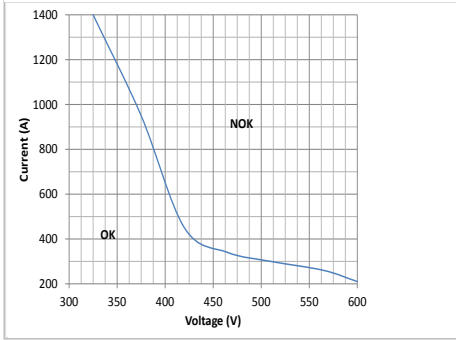
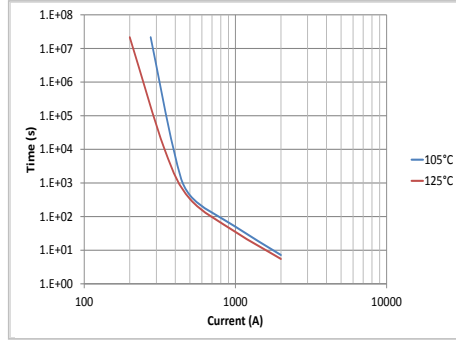
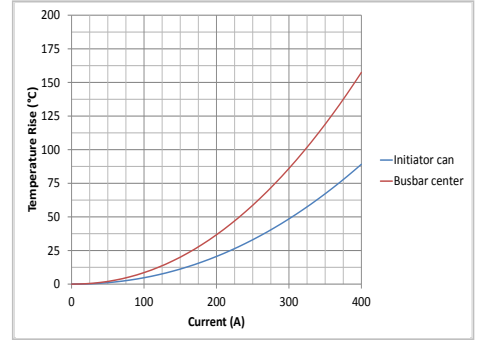
| | |
|--------------|-------------------------------------|
| on bus-bar | M8 screw |
| on initiator | VDA-AK 1/FCI unsealed FCI sealed |

| | |
|--------|------|
| 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
