

- Maximum continuous current 300A at 85° C
- Second circuit power off simultaneously
- Non-reversible device
- High peak current carrying capability up to 2 000 A

### 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 used to separate the "starter-generator-cable" from the electrical system (battery).

A second circuit is disconnected simultaneously.

### Typical applications:

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

### Switching capacity

Ohmic load	2 000 A / 200 V
Inductive load (60μH)	2 000 A / 150 V
Capacitive load	> 200 V, contact us

### Current carrying capacity

85°C, load cable 50 mm <sup>2</sup>	300 A
105°C, load cable 50 mm <sup>2</sup>	250 A
125°C, load cable 50 mm <sup>2</sup>	200 A
Maximum short-time current	
23°C, load cable 50 mm <sup>2</sup>	2 000 A / 10 s 25 000 A / 5 ms

### Busbar

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Sn/Ni
Busbar profile	
Cross-section nominal	32 mm <sup>2</sup>

### Second circuit

Contact raw-material (base)	Cu-Alloy
Contact plating material (lead-free)	Ag/Ni
wire cross section	0.2 mm <sup>2</sup>

### Initiator Data (1/2)

Qualified acc. to	AK-LV 16 & USCAR
Initiator resistance	≥1,7 Ω and ≤ 2,5 Ω
Triggering pulse slope	10 μs / A



### 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 / ≤ 4 μs
Monitor current:	100 mA

### Operation time

Release time	< 3 ms
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### Resistance & Insulation data

Busbar resistance (at RT)	
before ops.	≤ 0,1 mΩ
after ops	≥ 10 MΩ

### Temperature

Operating temperature	-40°C... + 105° C
Environmental temperature	-40°C... + 105° C
Storage temperature	-40°C... + 65° C
Self-ignition	≥ 300° C

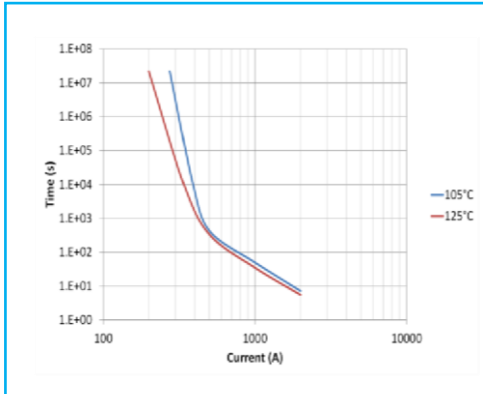
### Other Data

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	
Cardboard box	98 pcs.

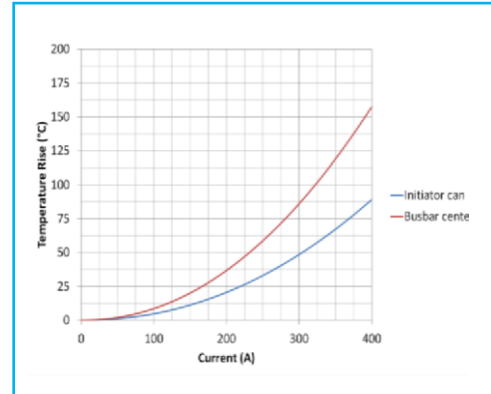
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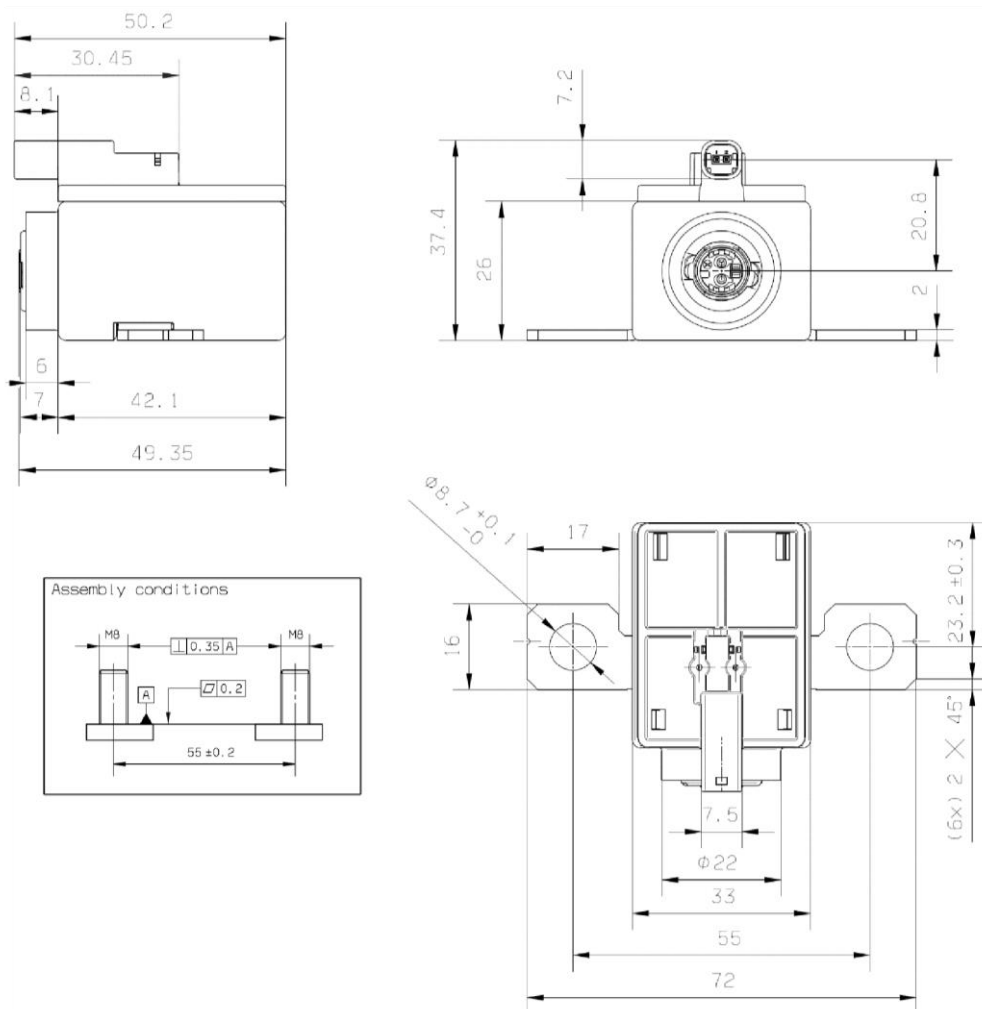
Derating curve



Temperature rise curve



### Dimensions



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