

Automotive Switch High Current Device

Battery Disconnection Switch PSS-2

- Maximum continuous current 300A at 85°C
- Non-reversible device
- Suitable for voltage levels up to 70VDC
- 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	70 V
Max. switching capacity :	
Inductive load (60μH)	1400 A / 70 V
Inductive load (60µH)	2000 A / 32 V
Rated current	
85°C, load cable 50mm ²	300 A / 24 h
125°C, load cable 50mm²	200 A / 24 h
Maximum short-time current	
23°C, load cable 50mm ²	2000 A / 5 s
Busbar	
Contact raw-material (base)	CuSn 0,15
Contact plating material(lead-free)	Sn/Ni
Busbar profile	
Cross-section nominal	22mm²
Cross-section at separation point	≥10mm²
Initiator Data	
Qualified acc. to	AK-LV 16 & USCAR
Initiator resistance	≥1,7 Ω 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	
Rushar resistance (at RT)	
busbal resistance (at KT)	< 0.1 m O
often eng	$\leq 0,1 \prod \Omega$
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 Date	
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
Weight	40 g
Packaging unit	
Small unit (cartonage)	520 pcs.
Large unit (container)	5200 pcs.

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Dimensions



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