

Specifications

Features

HIITIO's industry-standard Pyro Safety Switches comply with the high-quality requirements of the vehicle industry. Our Pyro Safety Switches offer a range of technical specifications, including different voltages, short circuit resistance and maximum current.

- ✧ Maximum continuous current 400A
- ✧ Non-reversible device
- ✧ Suitable for voltage levels up to 1000 VDC
- ✧ High peak current carrying capability

Main parameters

Breaking metrics: 1000 V / 15 000 A / 15 μ H
800 V / 20 000 A / 13 μ H

Customer cooling system must guarantee the temperature at terminals' connection point does not exceed **+125°C**

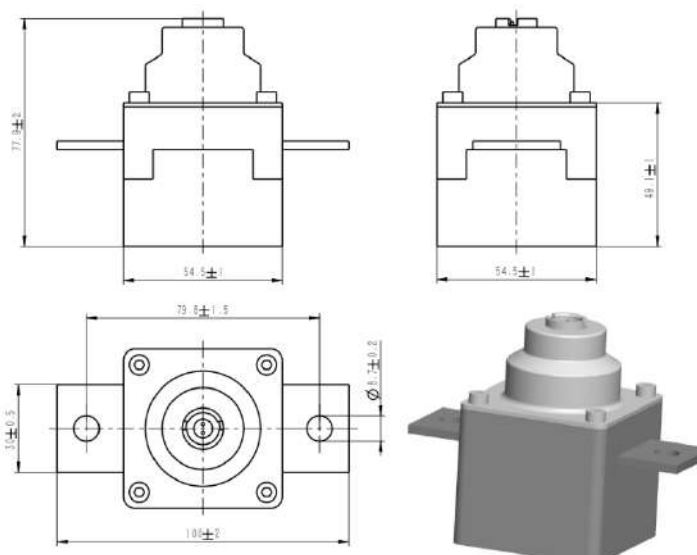
Long-term continuous flow: 400A \geq 150mm²
Busbar Current carrying temperature: \leq 35k 150mm²
Short-term fast charging capability: 450A / 40 min
600A / 10 min

Ingress protection: IP 65
Before triggering: $< 80\mu\Omega$
After triggering: 1000 V 15 μ H
15000A \geq 2M Ω
10000A \geq 10M Ω
 $\leq 8000A \geq 100M\Omega$

Triggering conditions

Triggering circuit resistance 2 \pm 0.2 Ω
Triggering current 1.75 A / 0.5 ms
or 1.20 A / 2.0 ms
No-triggering current \leq 0.4 A / 10s
or \leq 5.0 A / \leq 4 μ s
Diagnostic current: < 40 mA
Triggering pulse slope > 8 mA / μ s

Dimensions(mm)



Busbar

Contact raw-material (base) Cu
Contact plating material (lead-free) CuSn $\geq 9\mu$ m

Operation Time

Operating time < 2 ms
Typical < 1 ms for 1000 V / 15000 A / 15 μ H
 < 1 ms for 800 V / 20000 A / 13 μ H

Other Data

Vibration resistance acc. to
Mech. Shock resistance acc. to
Temperature cycle resistance acc. to
Chemical loads resistance acc. to

AK-LV 124

Other:

No ionizing gases / No particles exhaust

Terminal type
on bus-bar M6 6 \pm 1Nm
M8 12 \pm 1Nm

Temperature

Operating temperature
-40°C~ 85°C Higher temperatures require descaling
Storage temperature
-40°C~ 65°C 90%rh

Other request, contact us