中熔电气
SINOFUSE

SFM-350-BA

产品规格书

PRODUCT SPECIFICATION

SINOFUSE

成为卓越的能量保护系统解决方案服务商
为整个人类的能量转换活动的安全运行提供保障
Provide excellent integrated solution of energy protection systems
Safeguard energy conversion processes for mankind

文件变更履历表/Revision Record

文件名称/File Name: SFM-350-BA
文件编号/File No.: SNC/YC-0043

Version	Content	Execution Date	Author
S0	新制定/Initial release	2026-06-04	Fu Juanjuan

产品技术参数/Product Technical Parameters

- ●参考标准/Standards: LV124, ISO 8820, IEC 60269
- ●额定电压/Rated voltage: DC500V
- ●额定电流/Rated current: 350A (接线铜排/Terminal busbar: 100mm², 85℃)
- ●认证/Certification: /
- ●符合/Compliant: RoHS
- ●阻燃等级/Flame retardant rating: UL94-V0



NO.	Part Number	Connector Model	Connector Manufacturer	Resistance@(20±5)℃ (mΩ)	Weight (g)	Max Package (pcs)	Remark
1	SFM-350-BA	ABX5-CodeX	Aptiv	< 0.05	155±7	24	M8 12±1N·m

产品特性/Product Features

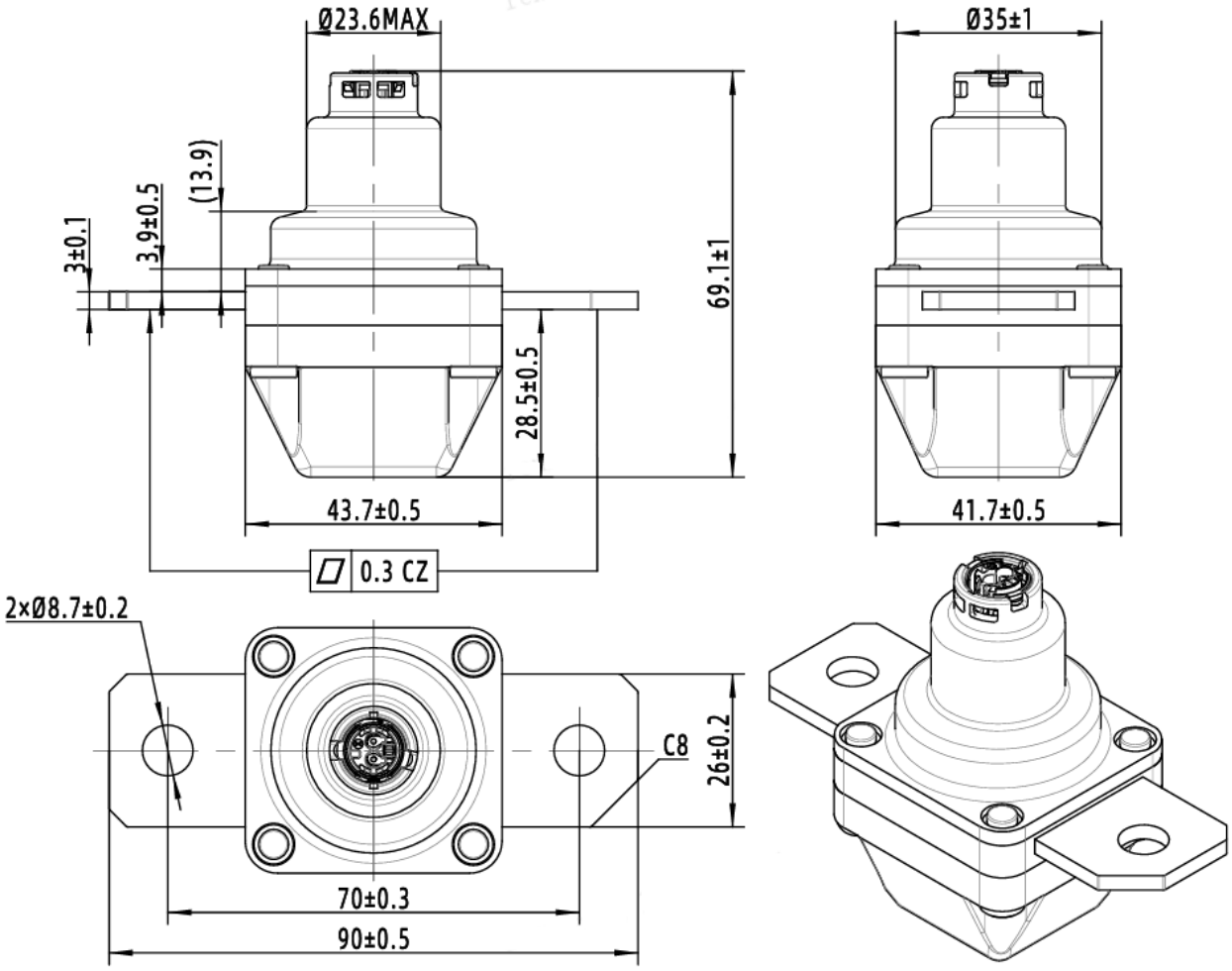
本系列产品为激励熔断器，可接受外部触发信号主动分断，具有功耗低、耐大电流冲击、ms级动作速度及全范围保护等特点，适用于道路车辆、风能、光伏及储能等行业，可作为电动汽车驱动系统、功率变换系统、电池、储能电容器、变频器等设备的短路、过载保护。

This series of products is pyro fuses capable of actively interrupting circuits upon receiving external trigger signals. featuring low power consumption, high surge current withstand, millisecond-level response times, and full-range protection, they are suitable for road vehicles, wind energy, photovoltaic, and energy storage industries. they provide short-circuit and overload protection for electric vehicle drive systems, power conversion systems, batteries, energy storage capacitors, inverters, and similar equipment.

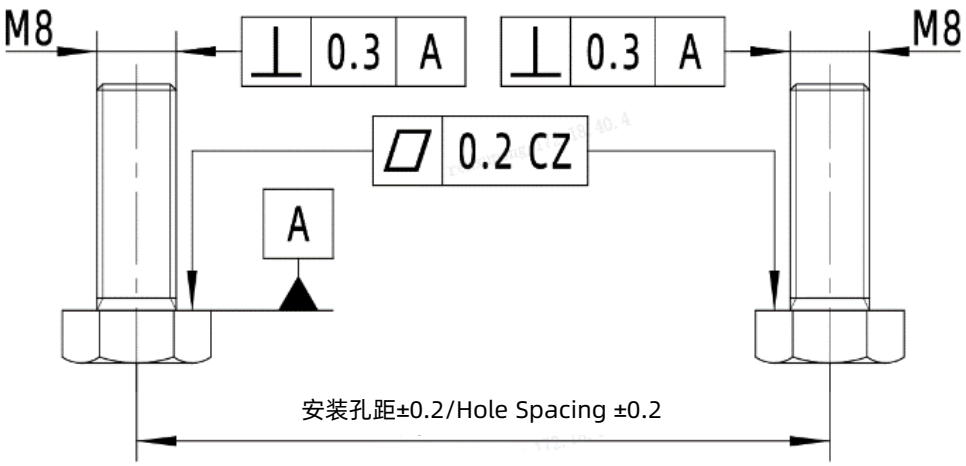
主要技术参数/Main Technical Parameters

Form	Items	Parameters
分断参数/ Breaking Parameter	最小分断能力/Minimum breaking capacity	DC500V/25μH/0kA
	最大分断能力/Maximum breaking capacity	DC500V/25μH/14kA DC500V/3μH/23.5kA
	动作时间/Action time	≤2ms
绝缘电阻/ Insulation Resistance	铜排与点火装置/Between busbar and ignition	分断前后/Before and after the break≥100MΩ (500V)
	铜排与外壳/Between busbar and housing	分断前后/Before and after the break≥100MΩ (500V)
	主铜排/Between busbar sections	分断后/After break≥5MΩ (500V)
触发参数/ Trigger Parameter	点火管电阻/Igniter resistance	1.7Ω ~ 2.3Ω
	触发电流/Trigger current	≥1.75A/0.5ms or ≥1.2A/2.0ms
	不触发电流/Non-triggering current	≤0.4A/10s
	允许检测电流/Allowable detection current	≤100mA
	自触发温度/Self-triggering temperature	≥250℃
	符合标准/Standards-compliant	满足/Qualified acc. to LV16

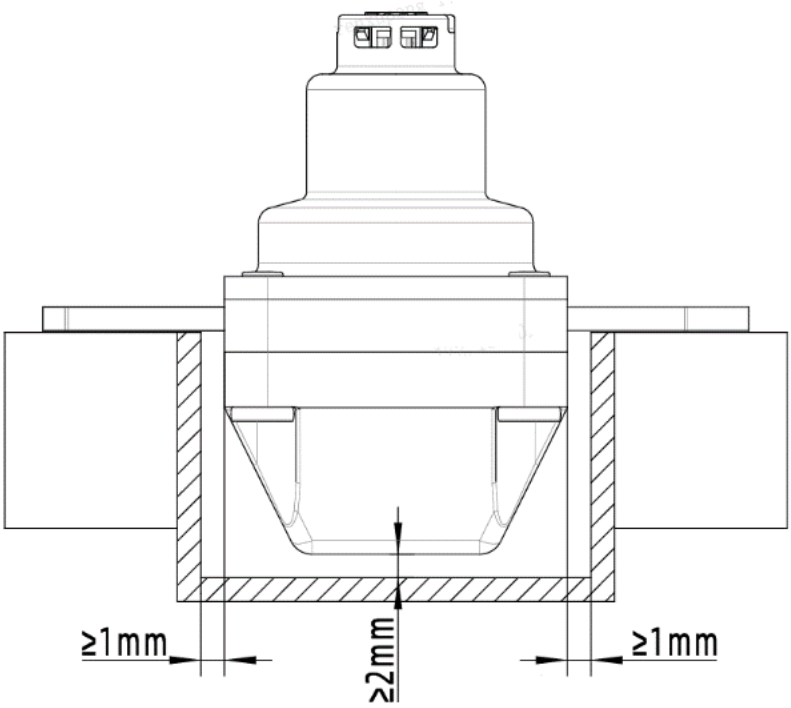
产品外形尺寸/Dimensions(mm)



推荐安装要求/Recommended Installation Requirements



安装间隙要求/Installation Clearance Requirements

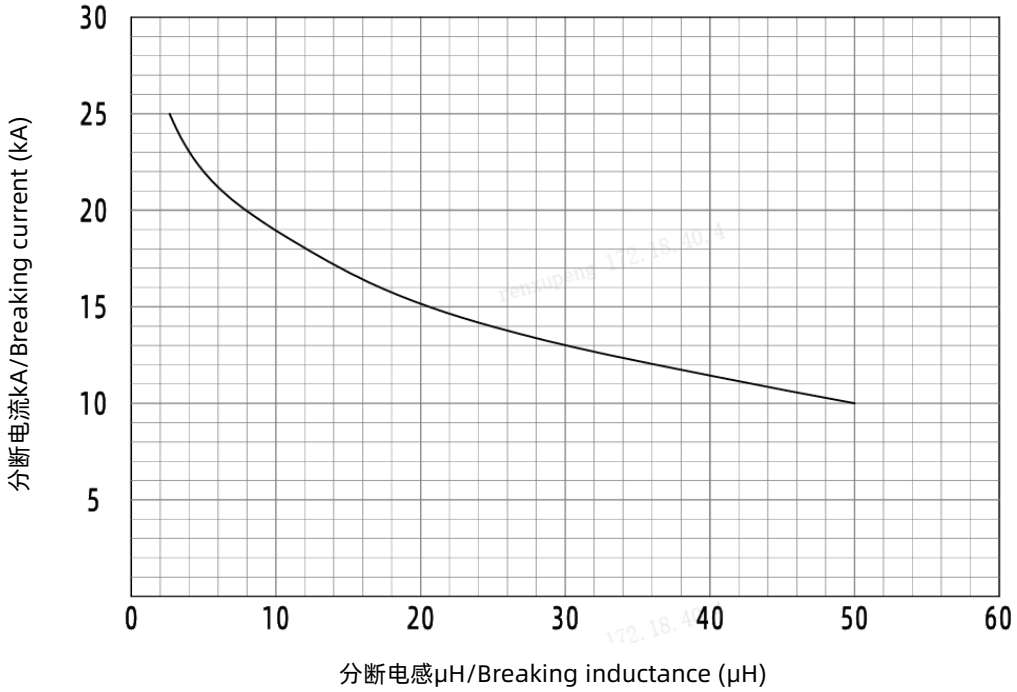


主要材质清单/Main Material List

No.	Part Name	Material	Electroplated
1	铜排/Busbar	紫铜/Copper	GB/T 12599-Cu/Ni1Sn3m

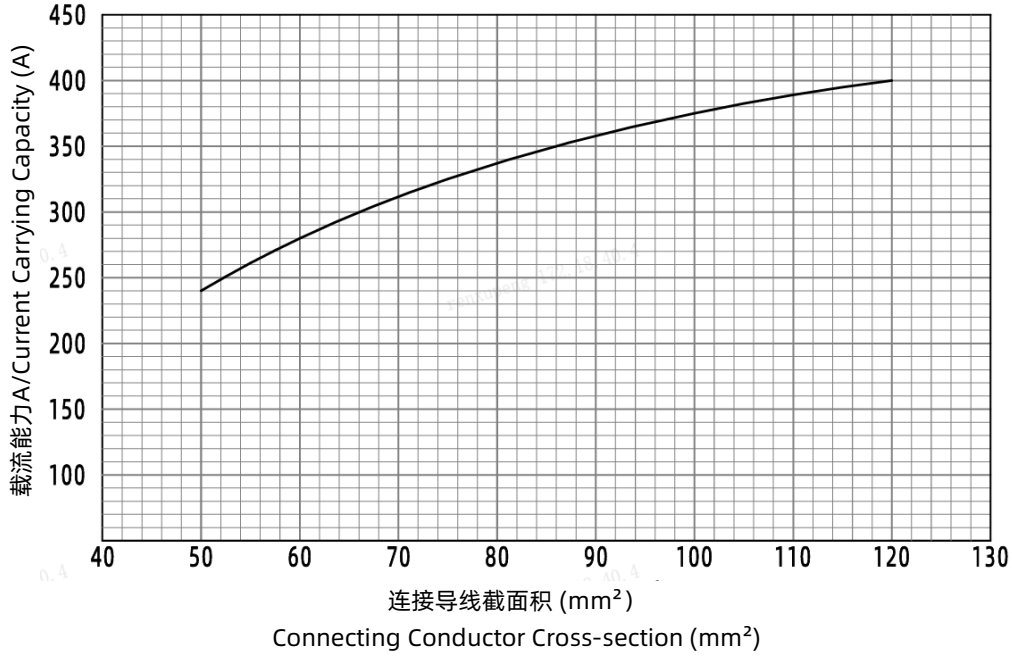
产品特性曲线/Characteristic Curve

电感分断曲线/Inductive Breaking Curve：



载流能力曲线/Current Carrying Capacity Curve：

不同铜导体尺寸下熔断器的额定电流按照下面曲线进行修正。
Rated Current Should be Corrected According to The Following Curve.



注/Notes：
1.客户端使用时必须保证铜排连接处温度不超过+120℃；
When using the pyro fuse, customers should ensure that the temperature at the busbar connection does not exceed +120℃.
2.以上接线修正曲线仅供参考，具体以实际工况测试为准。
The above wiring correction curve is for reference only; actual operating conditions shall prevail.

运输、存储/Transportation, Storage

运输/Transportation

避免过度挤压或冲击：在运输过程中，需要避免对熔断器施加过度挤压或直接冲击，这可能会损坏熔断器的外壳、接线端子或内部元件，从而影响其性能和安全性。运输过程中应避免雨雪侵袭和机械损伤。

Avoid excessive compression or shock: during transportation, it is necessary to avoid applying excessive compression or direct shock to the fuse. this may damage the fuse housing, terminals or internal components, thus affecting their performance and safety. Avoid rain, snow and mechanical damage during transportation.

防潮防湿：熔断器应远离潮湿和湿润的环境，以防止受潮和腐蚀。必要时，可以使用防潮包装材料或采取其他措施来保护熔断器免受潮湿影响。

Moisture and humidity protection: fuses should be kept away from damp and wet environments to prevent moisture and corrosion. If necessary, moisture-proof packing materials may be used or other measures taken to protect the fuse from moisture.

存储/Storage

1.产品存储温度：-40℃～+85℃；

Storage temperature:-40℃～+85℃.

2.包装存储温度：-40℃～+70℃；

Package temperature:-40℃～+70℃.

3.包装存储湿度：相对湿度≤90%，无凝露。

Package humidity: RH≤90%, no dewing.

使用条件/Use Conditions

熔断器所有试验均在标准测试条件下进行，因实际使用条件和标准测试条件存在差异，在选用时需考虑其影响。当实际使用条件不满足允许使用条件时，请咨询我司。

Tests of fuses are carried out under standardized typical test conditions. since there are differences between the actual use conditions and standardized typical test conditions, their effects should be considered when selecting fuses. When the actual use conditions do not meet the permissible use conditions, please consult our company.

大气条件/Atmosphere

空气是干净的，它的相对湿度在温度为40℃时不超过50%。

For clean air, maximum 50% RH at 40℃.

在较低的温度下可以有较高的相对湿度，例如，在20℃时，相对湿度可达90%。

Higher RH is allowed when temperature is lower, RH up to 90% without significant condensation.

周围空气温度/Ambient Air Temperature

允许使用条件：-40℃～+85℃；

Tolerable range：-40℃～+85℃.

当熔断器壳体温度工作至＞125℃，铜排表面温度工作至>120℃时，经过评估或试验测试，双方达成共识后，熔断器也可被正常选用。

When the operating temperature of the fuse housing exceeds 125℃ and the operating surface temperature of the busbar exceeds 120℃, the fuse may still be selected for normal use following mutual agreement reached through evaluation or test verification.

海拔/Altitude

允许使用条件：海拔≤5500m；

Tolerable range: altitude≤5500m.

当海拔超过5500m，经过评估或试验测试，双方达成共识后，熔断器也可被正常选用。

When altitude above 5000m, fuses can also be selected normally after evaluation or pilot testing and mutual agreement.

机械振动/冲击/Mechanical Vibration and Shock

机械振动满足LV124 M-04；
Mechanical vibration complies with LV124 M-04.
机械冲击满足LV124 M-05；
Mechanical shock meets LV124 M-05.
注：如产品使用其他标准或特殊应用环境时，请咨询我司。
If the product is used in other standards or special application environments, please consult our company.

污染等级/Pollution

熔断器满足污染等级2（详见GB 14048.1-2023 7.1.3.2）。
Fuse meets pollution level II (see GB 14048.1-2023 7.1.3.2 for details).
注：如产品使用其他标准或特殊应用环境时，请咨询我司。
Note: for products using other standards or in special application environments, please consult our company.

安装条件/Mounting Conditions

1.熔断器连接端子应保证电接触稳定可靠；
The fuse connection terminals should ensure stable and reliable electrical contact.
2.熔断器可垂直、水平或倾斜安装；
Fuse can be mounted vertically, horizontally or at an angle.