



承 认 书

SPECIFICATION FOR APPROVAL

客户名称
Customer Name

客户料号
Customer Material No.

产品名称
Product Name 中号插片保险丝 / Standard Blade Fuses

产品型号
Product Model ATO-NL5-N 80V (N=001-050)

送样日期
Sample Submission Date

本司确认 (COMPANY APPROVAL)

检验 Inspection	校对 Proofreading	批准 Approval	签章 Signature & Seal
黄壁昌	邱曜东	Tommy	

客户确认 (CUSTOMER APPROVAL)

检验 Inspection	校对 Proofreading	批准 Approval	签章 Signature & Seal

确认结果 Verify the results:

☐合格 Qualified ☐不合格 Unqualified ☐其他 Other



ATO 80V Bolt-on-Fuses

SPECIFICATION



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一， 产品用途 / Product Application

ATO 熔断器是标准片式熔断器，快熔断保险丝，最早用于替代管式产品。早期应用电压都在 32V 以下，随着新能源的普及和大家对电路保护意识的提高，使用电压也随之增加，目前，新能源电池包基本使用 48V 电压，这就要求高于此要求，赛力特生产的这类保险丝最高可达 80V。您可以使用我们的保险丝座 SL-709J/SL-506J/SL-506A/SL-506BT/SL-506AB/SL-707A/SL-707C/SL-708C/SL-703C 安装到线路中。

ATO fuses are standard, fast-acting blade fuses originally developed to replace cartridge fuses. Early applications typically operated at voltages below 32 V. With the wider adoption of new energy technologies and growing awareness of circuit protection, operating voltages have increased. Battery packs in new energy applications typically operate at 48 V, requiring fuses with higher voltage ratings. Our ATO fuses offer voltage ratings up to 80 V. These fuses can be installed using our SL-709J, SL-506J, SL-506A, SL-506BT, SL-506AB, SL-707A, SL-707C, SL-708C, and SL-703C fuse holders.



二， 产品特性 / Product Feature

1. 适用额定电压直流至 80V,额定电流至 50A，材质使用塑胶和合金。当被保护电路发生异常或短路或过载严重时，本保险丝将会及时熔断，达到保护被保护电气电路的目的，熔断后不可恢复，需要更换新保险丝继续工作。

The rated operating voltage is DC up to 80V. The rated current is up to 50A. The standard materials are plastic and alloy.

When an abnormal condition, short circuit, or severe overload occurs in the protected circuit, the fuse will blow promptly to protect the electrical system. The fuse is non-resettable after opening and must be replaced with a new one before the circuit can operate again.

2. 熔断能力 Interrupting Rating: 1000A@80VDC
3. 额定电压 Voltage Rating: $\leq$ 80VDC
4. 工作温度 Operating Temperature Range: -40°C to +125°C
5. 壳体材料 Housing Material: 尼龙 / PA66
6. 熔断金属 Terminal: 铜合金 / Copper Alloy
7. 壳体标志 Housing Markings: Rating Current / Voltage / Company Logo



三，熔断特性 / Functional Characteristics

测试电流 Test Current	Opening Time 1A-20A		25A-40A	
	Min.	Max.	Min.	Max.
100%	----	---	100hrs	---
110%	100Hrs	---	---	---
135%	0.75s	600s	0.75s	600s
160%	0.25S	50S	0.25S	50S
200%	0.15s	5s	0.15s	5s
350%	0.04s	0.5s	0.04s	0.5s
600%	0.02 s	0.1 s	0.02 s	0.1 s

备注：根据使用条件的不同，以上特性也会相应的变化。

Remark: Characteristics of fuses according to use conditions may change.

四，产品适应标准 / Complies Standard

SAE J2077, JASO D612, ISO 8820-3, GB/T31465.3

UL 248 Special Purpose Fuses



五，产品规格对照表 / Current Rating List

Assembly P/N	Voltage Drop	Cold Resistance	I ² t	Voltage Rating	Case color	Current Rating
ATO-NL5-001	176mV	110.82mΩ	9.7A ² s	80	Black	1A
ATO-NL5-002	171 mV	55.60mΩ	2.8A ² s	80	Grey	2A
ATO-NL5-003	153 mV	31mΩ	9.4A ² s	80	Violet	3A
ATO-NL5-004	121 mV	23.48mΩ	17A ² s	80	Pink	4A
ATO-NL5-005	129 mV	15mΩ	25A ² s	80	Tan	5A
ATO-NL5-07.5	135 mV	10.3mΩ	68A ² s	80	Brown	7.5A
ATO-NL5-010	108mV	8.3mΩ	93A ² s	80	Red	10A
ATO-NL5-015	98mV	5.8mΩ	270A ² s	80	Blue	15A
ATO-NL5-020	96mV	3.6mΩ	380A ² s	80	Yellow	20A
ATO-NL5-025	86mV	3.1mΩ	625A ² s	80	White	25A
ATO-NL5-030	87mV	2.1mΩ	1130A ² s	80	Green	30A
ATO-NL5-035	85mV	1.95mΩ	1430A ² s	80	Purple	35A
ATO-NL5-040	84mV	1.65mΩ	1530A ² s	80	Orange	40A
ATO-NL5-050	84mV	1.2mΩ	1750A ² s	80	Light green	50A

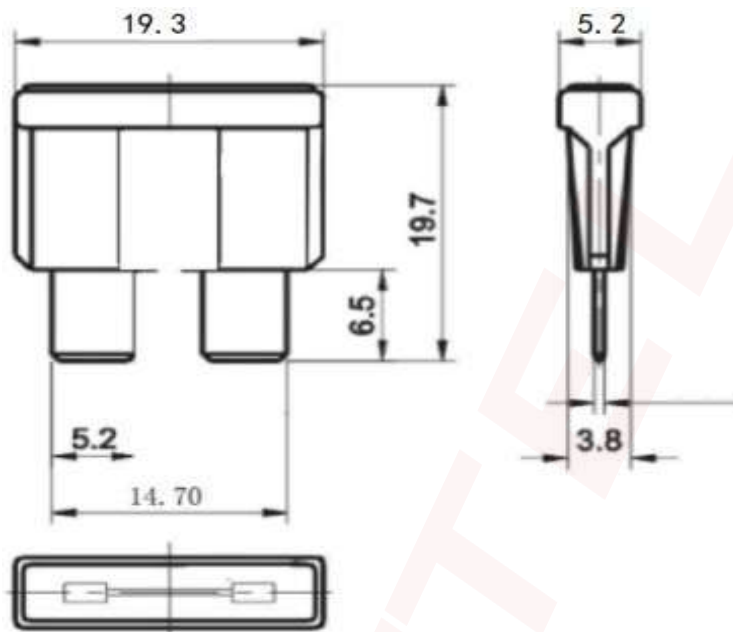
备注：1. 测量时，温度不是 20℃时，应按材料的电阻温度系数换算之。

2. 表格所示 R 值实际偏差允许 20%。

3. R 超过规定范围值偏差时，允许进行约定熔断试验，再判定是否合格。

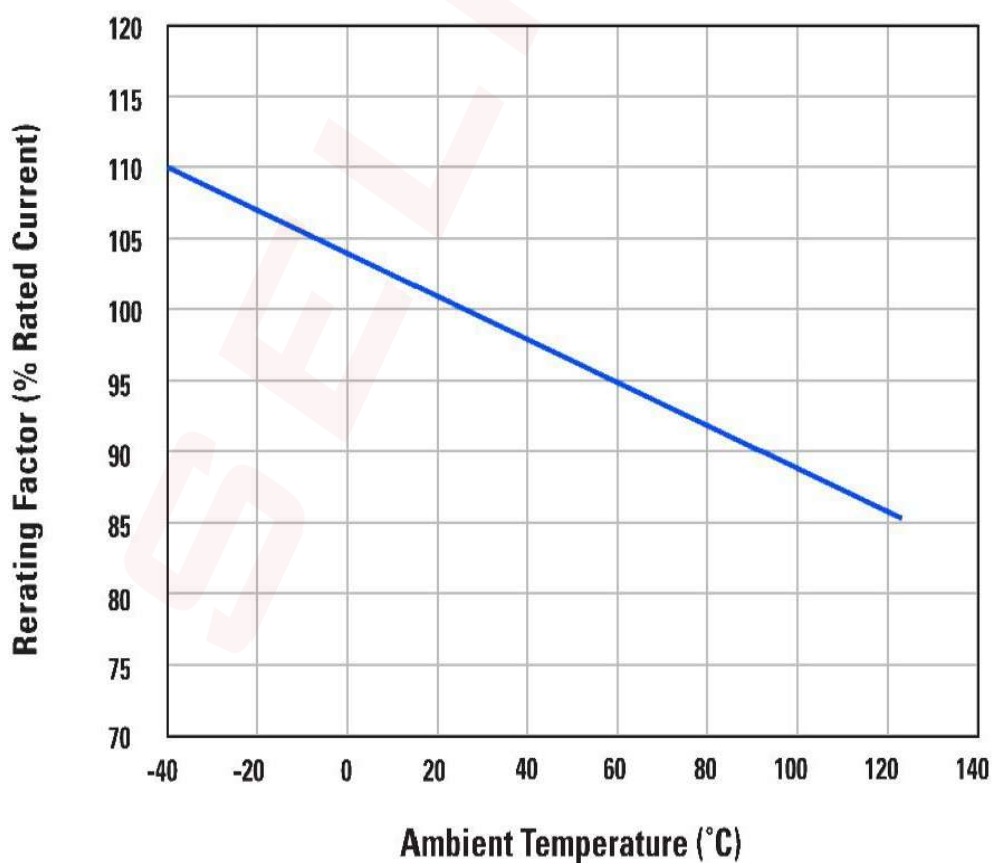


六，产品尺寸图 / Size Drawing



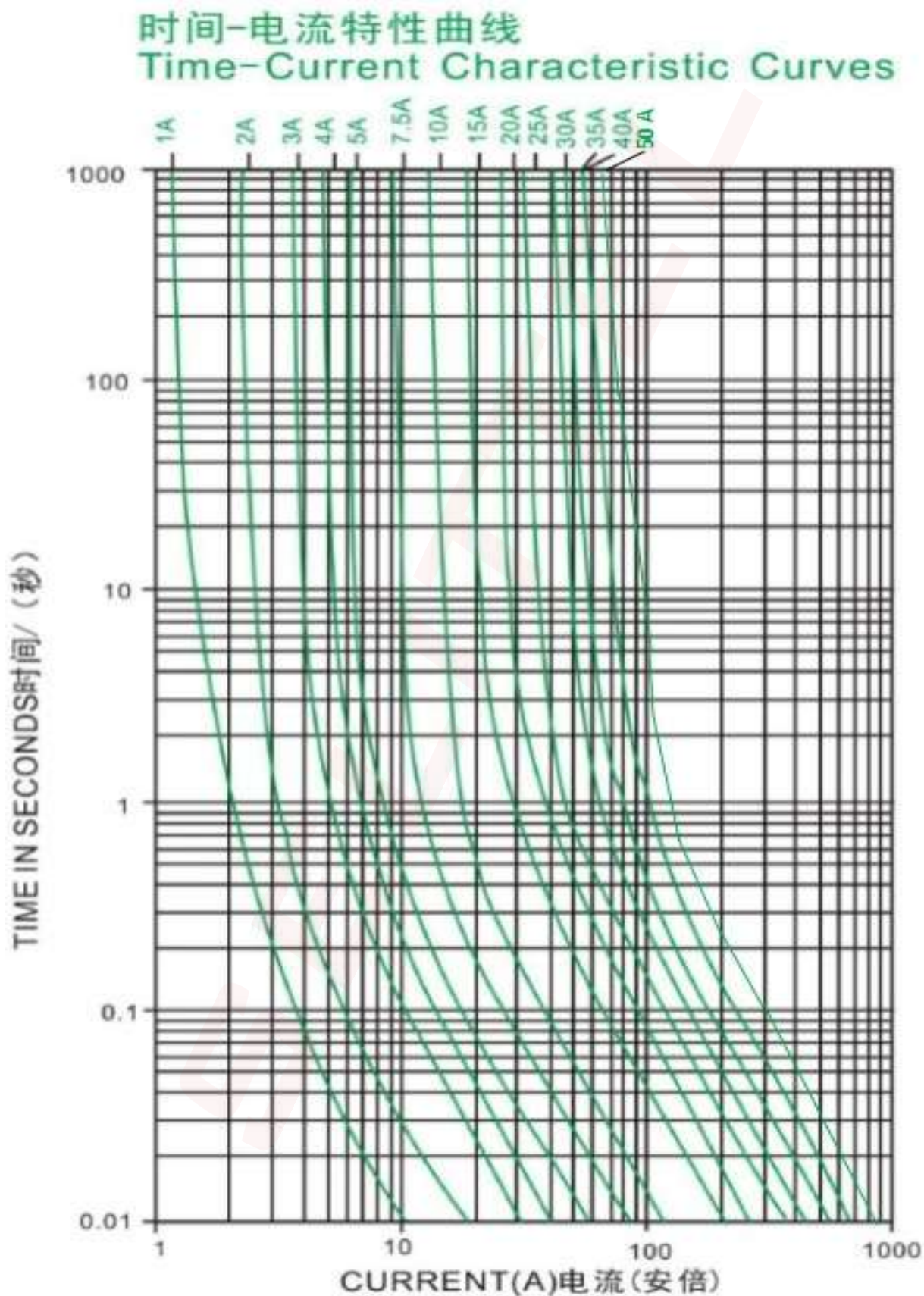
七，温度额定值修正曲线 / Temperature Rerating Curve

Temperature Rerating Curve





八，产品电流时间特性曲线 / I-T curve





九，包装 / Packing

1000PCS/bag

10000PCS/carton

1000 个一袋

10000 个一箱

