



Microfuse RoHS & Pb-free
好利® 保险丝管



产品规格书

PRODUCT SPECIFICATION

瓷管保险丝（速断型）

CERAMIC TUBE FUSE (QUICK-ACTING)

50CF (P) RoHS SERIES

编码: B03 HLD-PSI-8135 2022/9/14

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1 适用范围/ SCOPE

本规格书适用于公司按照 IEC 60127 标准生产的 50CF(P) RoHS 系列 HOLLY® 商标的小型保险丝管。

This specification defines the technical requirements of miniature fuse type 50CF(P) RoHS series with HOLLY® brand, which are according to IEC 60127.

产品部件号为: 型号 额定电流 额定电压

Construction of part no.: type rated current rated voltage

例如/ Example: 50CF 020 H

* 型号/ Type: 50CF(P) P - 尾线/ Pig Tail, 额定电压/ Voltage Rating: H - 250V.

产品部件号/ PART NUMBER

产品部件号 PART NUMBER	型号规格 MODEL DETAIL	产品部件号 PART NUMBER	型号规格 MODEL DETAIL
50CF(P)-0200H	50CF F200mAH 250V	50CF(P)-032H	50CF F3.15AH 250V
50CF(P)-0250H	50CF F250mAH 250V	50CF(P)-040H	50CF F4AH 250V
50CF(P)-0315H	50CF F315mAH 250V	50CF(P)-050H	50CF F5AH 250V
50CF(P)-0400H	50CF F400mAH 250V	50CF(P)-063H	50CF F6.3AH 250V
50CF(P)-0500H	50CF F500mAH 250V	50CF(P)-080H	50CF F8AH 250V
50CF(P)-0630H	50CF F630mAH 250V	50CF(P)-100H	50CF F10AH 250V
50CF(P)-0800H	50CF F800mAH 250V	50CF(P)-120H	50CF 12A 250V
50CF(P)-010H	50CF F1AH 250V	50CF(P)-125H	50CF 12.5A 250V
50CF(P)-013H	50CF F1.25AH 250V	50CF(P)-150H	50CF 15A 250V
50CF(P)-016H	50CF F1.6AH 250V	50CF(P)-160H	50CF 16A 250V
50CF(P)-020H	50CF F2AH 250V	50CF(P)-200H	50CF F20AH 250V
50CF(P)-025H	50CF F2.5AH 250V		

型号规格: 型号 特性符号 额定电流 分断能力符号 额定电压
 MODEL DETAIL: Type Characteristic Symbol Rated Current Breaking Capacity Symbol Rated Voltage
 例如/ Example: 50CF F 2A H 250V

*特性符号/ Characteristic Symbol: F – 速断型/ Quick-Acting,

分断能力符号/ Breaking Capacity Symbol: H - 高分断能力/ High Breaking Capacity.

(12-16A 仅含 CQC 和 SEMKO 标识时不必标注“F”“H” 12-16A need not be marked “F”“H”for CQC and Semko alone)

2 相关标准/ APPLICABLE STANDARDS

2.1 50CF(P) RoHS 系列产品适用的相关标准是 IEC 60127 和 GB 9364。

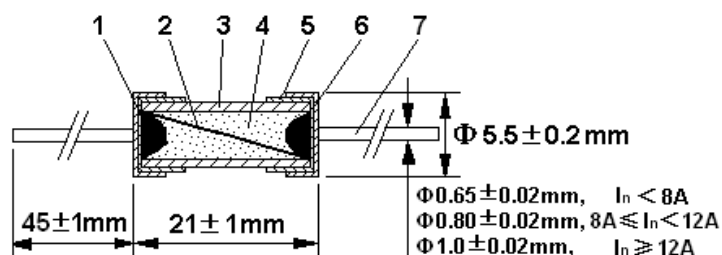
Applicable standards for 50CF(P) RoHS series are IEC 60127 and GB 9364.

2.2 认证情况/ APPROVED DETAILS

安全认证 SAFETY APPROVALS	额定电压 RATED VOLTAGE	认证范围 APPROVED RANGE	认证号码 CERT. NO.
SEMKO	250V	250mA~10A	SE-S-2201128
		12A~16A	SE-S-2201126
VDE	250V	250mA~10A	40020380
BSI	250V	250mA~10A	KM 52652
UR/cUR	250V	250mA~16A	E156471
KC	250V	250mA~800mA	SU05008-8013C
		1A~2.5A	SU05008-8016C
		3.15A~6.3A	SU05008-8014C
		8A~10A	SU05008-8015C
CCC	250V	250mA~10A	2020970207000175
CQC	250V	12.5A	CQC14012119631
PSE	250V	1A~5A	JET 2489-31003-2018
		6.3A~10A	JET 2489-31003-2021
		10.1A~15A	JET 2489-31003-1033

3 构造图/ CONSTRUCTION FIG.&DIMENSION

3.1 DIMENSION (Unit: mm)



编号 No.	品名 PART	材料名 MATERIAL MODEL	备注 NOTE
1	焊锡/Solder	无铅焊锡/ Pb Free	/
2	可熔体/ Element	金属丝/ Metal Wire	/
3	管体/ Tube	陶瓷管/ Ceramic Tube	灌砂/ Filled Sand
4	填充物/ Filler	石英砂/ Quartz Sand	/
5	铜帽/ Cap	黄铜/ Brass	镀镍/ Nickel Plated
6	尾线铜帽 Cap with Pig Tail	黄铜 Brass	镀镍/ Nickel Plated
7	尾线/ Pig Tail	镀锡铜线/ Tin Plated Copper	镀锡/ Tin Plated

3.2 陶瓷管/ CERAMIC TUBE

陶瓷管必须无缺陷破裂和缺损。

The ceramic tube shall have no defects such as crack and injury.

3.3 铜帽/ CAP

铜帽应焊接牢固，以保证在未损坏熔断体时，铜帽不能被卸脱。样品在 15℃-35℃ 水中浸 24 小时取出后，在每个端帽上，均匀地施加拉力至 10N，保持 1 分钟，铜帽不应脱落。

Cap should be firmly attached so that it is not possible to remove them without damaging the fuse itself. The samples are immersed in water for 24 hours at a temperature between 15℃ and 35℃. After remove from the

water, an axial pull steadily increasing to 10N is applied to each cap for 1 minute.

3.4 焊点/ SOLDERING JOINT

焊接铜帽端时，铜帽外表面不能有残留的助焊剂、焊锡、可熔体等异物。

Soldering joint in end cap shall not be melted during normal operation and shall not have solder chips on tube, element in view and outer surface of caps.

4 机械特性/ MECHANICAL PERFORMANCES

保险丝应能承受下列两项试验。/ Fuse shall be withstood following two testing.

4.1 拉力试验/ Tensile Strength

固定保险丝的一端铜帽，然后在另一端铜帽上，沿水平轴方向施加 10N 的拉力，两端铜帽不应松动且管体不应破碎。

When one end cap of the specimen is fixed and then the tensile force 10N is applied to the other end cap in a direction to separate the end caps, no looseness of end caps or damage of fuse-tube shall occur.

4.2 管体强度试验/ Strength of Fuse-tube

两端铜帽固定好后，在陶瓷管的中心位置施加 25N 的压力，管体不应破碎。

When middle parts of end caps at both ends of the specimen are supported and then the force 25N is applied to the middle part of the fuse-tube, no damage of the fuse-tube shall occur.

5 电气特性/ ELECTRICAL PERFORMANCE

5.1 测试条件/ TEST CONDITION

全部测试条件都应在环境温度 $24^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 条件下进行，在此期间温度变化不允许达到 $+5^{\circ}\text{C}$ 和到极限范围

All electrical tests are conducted at an ambient temperature of $24 \pm 3^{\circ}\text{C}$. The ambient temperature is not allowed to vary more than 5°C during the test, and must be within these limits.

5.2 技术参数/ TECHNICAL PARAMETERS

具体技术参数如下表

The specific technical parameters are shown in the table below.

额定电流 Rated Current (A)	额定电压 Rated Voltage (V)	最大电压降 Maximum Voltage Drop (mV)	最大维持功耗 Maximum Sustained Power Dissipations (W)	电阻 electric resistance(Ω)	I ² T
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200mA	250	3,800	1.6	5.3900	0.0048
250mA	250	2,800	2.5	4.5700	0.0071
315mA	250	2,500	2.5	3.1500	0.0142
400mA	250	2,000	2.5	2.0600	0.0200
500mA	250	1,800	2.5	1.5700	0.0309
630mA	250	1,500	2.5	1.1100	0.0671
800mA	250	1,200	2.5	0.7840	0.1211
1A	250	1,000	2.5	0.5500	0.2019
1.25A	250	800	4	0.3980	0.4489
1.6A	250	600	4	0.2450	1.2430
2A	250	500	4	0.1830	2.2040
2.5A	250	400	4	0.0615	1.9951
3.15A	250	350	4	0.0445	4.2710
4A	250	300	4	0.0286	12.220
5A	250	250	4	0.0201	24.206
6.3A	250	200	4	0.0126	51.308
8A	250	200	4	0.0081	135.7
10A	250	200	4	0.0067	237.8
12A	250	200	4	0.0048	383.9
12.5A	250	180	4	0.0046	439.2
15A	250	180	6	0.0039	698.5
16A	250	180	6	0.0032	891.2
20A	250	180	8	0.0023	1341.9

5.3 预飞弧时间-电流特性/ PRE-ARCING TIME-CURRENT CHARACTERISTICS

当保险丝通以下表规定的电流时，其熔断时间必须符合下表的要求，且铜帽不能飞脱、管体不应破裂、损坏。

When the current in the following table is passing the fuse, its opening time must be in accordance with the requirements in the following table, that is, the pre-arcing time. Moreover, neither damage of the fuse-tube nor shattering of the cap shall occur.

额定电流 Rated Current	2.1I _n	2.75I _n		4I _n		10I _n
	Max.	Min.	Max.	Min.	Max.	Max.
100mA-4A	30min.	10ms	2sec.	3ms	300ms	20ms
>4A-6.3A	30min.	10ms	3sec.	3ms	300ms	20ms
>6.3A-10A	30min.	40ms	20sec.	10ms	1sec.	30ms
>10A	30min.	40ms	20sec.	10ms	1sec.	40ms

5.5 分断能力/ BREAKING CAPACITY

这些型号的保险丝的分断能力应能达到下表规定的相应的各种安全认证的分断能力要求。保险丝分断电路后，保险丝管不应破裂、铜帽飞脱、且铜帽两端的绝缘电阻不小于 0.1MΩ。

The breaking capacity should reach the interrupting rated current given in the following table. And after this test, there should be no damage of the fuse-tube or shattering of the caps. After this test, the insulation resistance between the end caps shall be not less than 0.1MΩ

安全认证 SAFETY APPROVALS	认证范围 APPROVED RANGE	额定电压 RATED VOLTAGE	分断电流 BREAKING CURRENT
UR/cUR	250mA-6.3A A.C.	250V	1500A, 10kA
	8A-16A A.C.	250V	1500A

	250mA-6.3A DC	250V	1000A
	8A-16A DC	250V	1000A
CQC	12.5A A.C.	250V	1500A
TUV	12A~16AA.C.	250V	1500A
CCC/VDE/BSI/KC	250mA-10A A.C.	250V	1500A
PSE	1A-15A A.C.	250V	1500A
		250V	100A
SEMKO	250mA-16A A.C.	250V	1500A

5.6 耐久性试验/ ENDURANCE TEST

耐久性试验过程下。/ The process of endurance test is as follows.

A 对熔断体通过 1.2 倍的额定电流 1 小时,然后切断电流 15 分钟,重复此循环 100 次。/ A current $1.2I_n$ is passed through the fuse-link for a period of 1hour. The current is then switched off for a period of 15 minutes. The cycle is repeated 100 times.

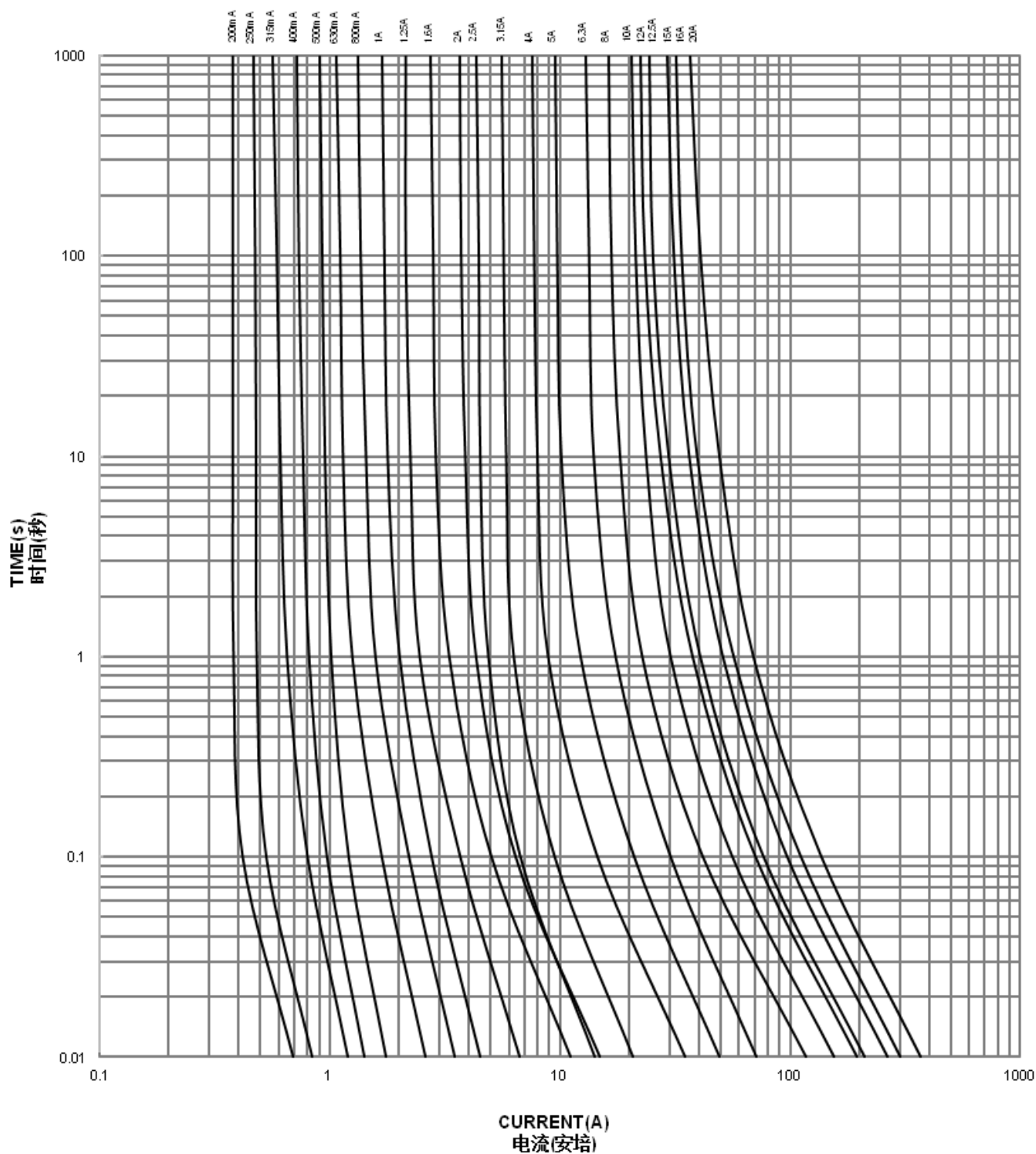
B 然后对熔断体通以 1.5 倍额定电流 1 小时($I_n \leq 6.3A$)或 0.5 小时($I_n > 6.3A$)。/ A current $1.5I_n$ is then passed through the fuse-link for 1hour($I_n \leq 6.3A$) or 0.5hour($I_n > 6.3A$).

C 测量熔断体两端的电压降。试验后,熔断体两端的电压降的增大量不大于试验前测得值的 10%。/ Finally, the voltage drop across the fuse-link is measured. The voltage drop across the fuse-link after the test shall not have increased by more than 10% of the Value measured before the test.

D 试验后,标记仍应清晰可辨,而且诸如端帽上的焊点不应出现任何明显的劣变。/ After the test, the marking shall still be legible and soldered joints on end caps, for example, shall not show and appreciable deterioration.

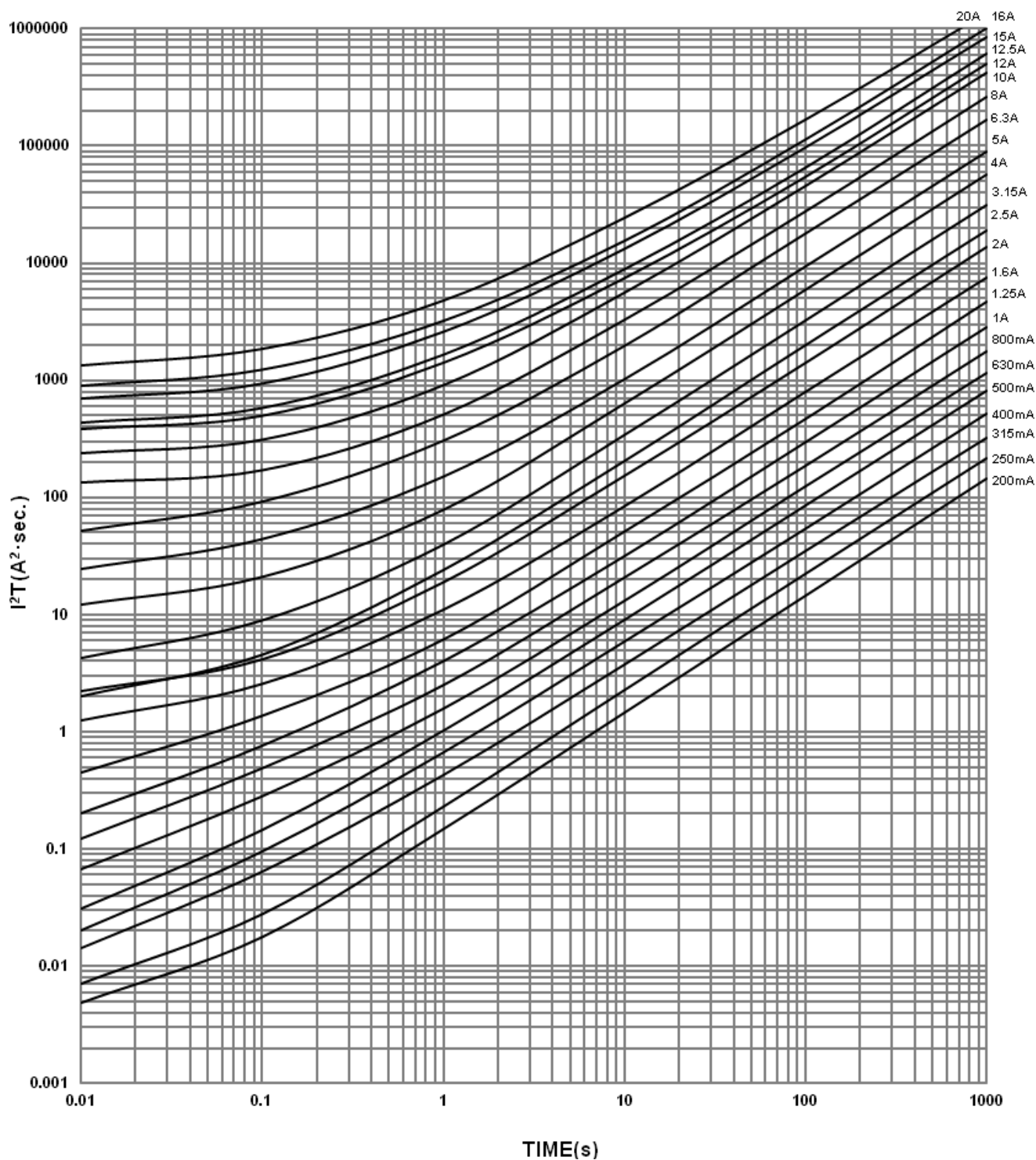
5.7 平均 I-T 特性曲线图(仅供参考)/ THE AVERAGE I-T CHARACTERISTICS CURVE(FOR REFERENCE ONLY)

50CF(P) RoHS 平均 I-T 曲线图(仅供参考)
50CF(P) RoHS AVERAGE I-T CHARACTERISTICS CURVE(FOR REFERENCE ONLY)



5.8 平均 I^2T -T 特性曲线图(仅供参考)/ THE AVERAGE I^2T -T CHARACTERISTICS CURVE(FOR REFERENCE ONLY)

50CF(P) RoHS Average I^2T -T Characteristics Curve(For Reference Only)



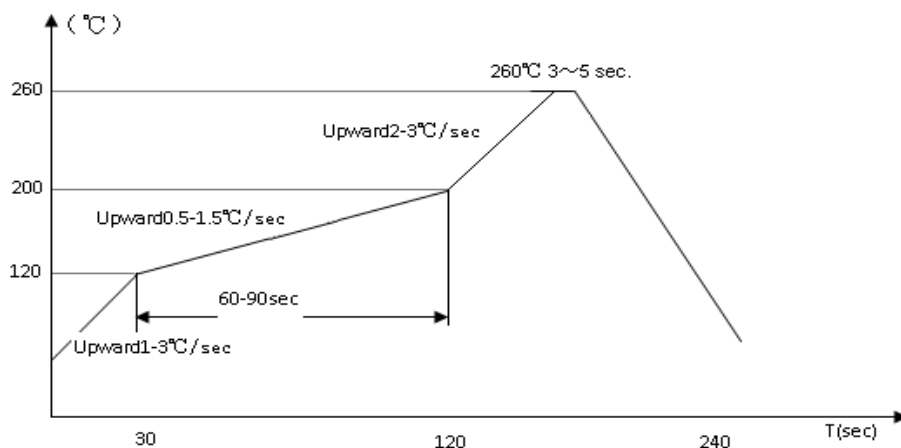
5.9 焊接参数/ Soldering Parameters

1) 波峰焊---260℃，最大 10 秒。 / Wave soldering---260℃, 10 seconds Maximum.

2) 手工焊接/ Manual soldering: 350℃, 3sec. Max..

3) 耐热焊接/ Resistance to soldering heat: 260℃, 10sec. Max

建议波峰焊接图形/ Suggest wave soldering graphics

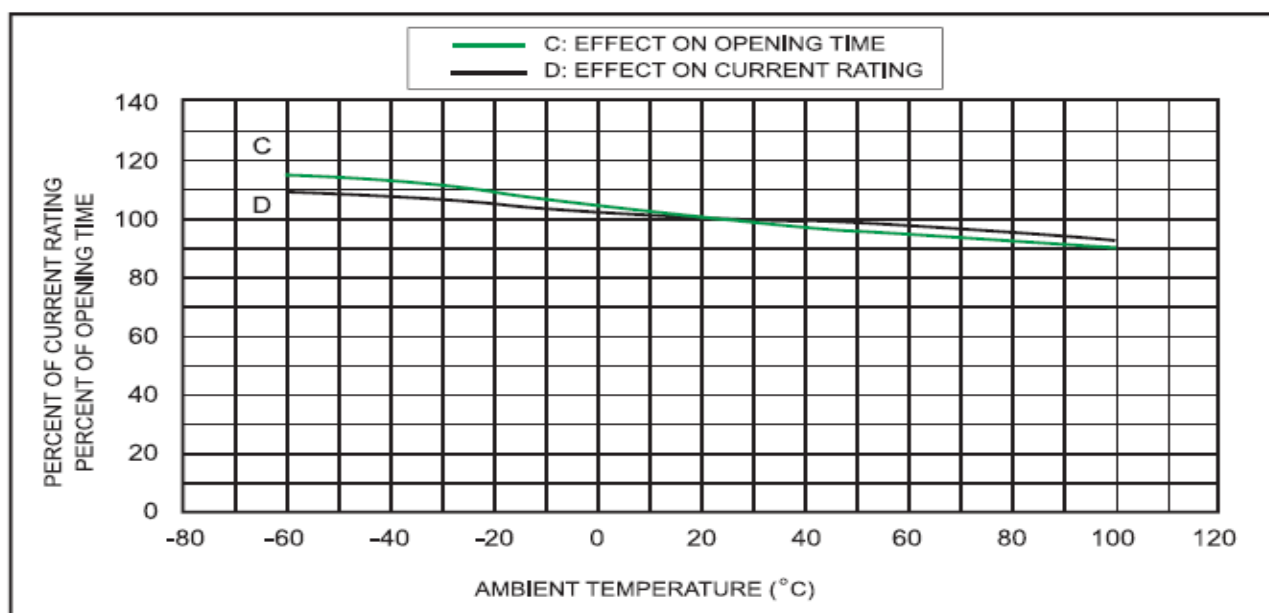


5.10 电阻测试/ COLD RESISTANCE TEST

环境温度为 $25 \pm 2^\circ\text{C}$ ，测试电流不大于保险丝额定电流的 10%。

Input 10% of fuse rated current to fuse for cold resistance test at surrounding temperature of $25 \pm 2^\circ\text{C}$.

5.11 温度降额曲线/ Temperature rating curve



(II) Effect on rating and opening time in 5In of fast-blow and slow-blow fuse

6 产品标志/ MARKING

6.1 保险丝上的标志应易于看清。

The relevant markings shall be marked on the caps of the fuse and shall be easily visible.

6.2 每个保险丝应标有下列标记。

The markings for every fuse shall be prescribed as below according to the types.

- 1) 安全认证标志/ Safety approval logo: 
- 2) 型号名称/Type: 50CF
- 3) 商标/ Trademark: 
- 4) 特性符号/ Characteristic Symbol: F(12-16A 仅含 CQC 和 SEMKO 标识时不必标注“F”12-16A need not be marked “F” for CQC and Semko alone)
- 5) 额定电流/ Rated Current
- 6) 分断能力符号/ Breaking Capacity Symbol: H(12-16A 仅含 CQC 和 SEMKO 标识时不必标注“H”12-16A need not be marked “H” for CQC and Semko alone)
- 7) 额定电压/ Rated Voltage
- 8) 注: 1)、2) 和 3)应标注在保险丝管一端铜帽的侧面。
Note: 1), 2) and 3) should be marked on the one side cap of the fuse.
4)、5)、6) 和 7)应标注在保险丝管另一端铜帽的侧面。
4), 5), 6) and 7) should be marked on the other side cap of the fuse.

7 包装要求/ PACKING DETAILS

7.1 包装方式 A(尾线<40mm)/ EXTERNAL CARTON PACKING A (Pig Tail<40mm)

7.1.1 参考尺寸: 长×宽×高=470×400×230mm。

Reference Dimension: length×width×height=470×400×230mm.

7.1.2 包装细节: 100 个/袋; 4 袋/盒; 25 盒/箱

Packing Details: 200EA/ little plastic-bag; 25 little plastic-bags/ big plastic-bag; 2 big plastic-bags/ External Carton.

7.2 包装方式 B(尾线≥40mm)/ EXTERNAL CARTON PACKING B(尾线≥40mm)

7.2.1 参考尺寸: 长×宽×高=470×400×230mm。

Reference Dimension: length×width×height=470×400×230mm.

7.2.2 包装细节: 100 个/袋; 2 袋/盒; 25 盒/箱

Packaging Details: 100 个/袋; 2 袋/盒; 25 盒/箱

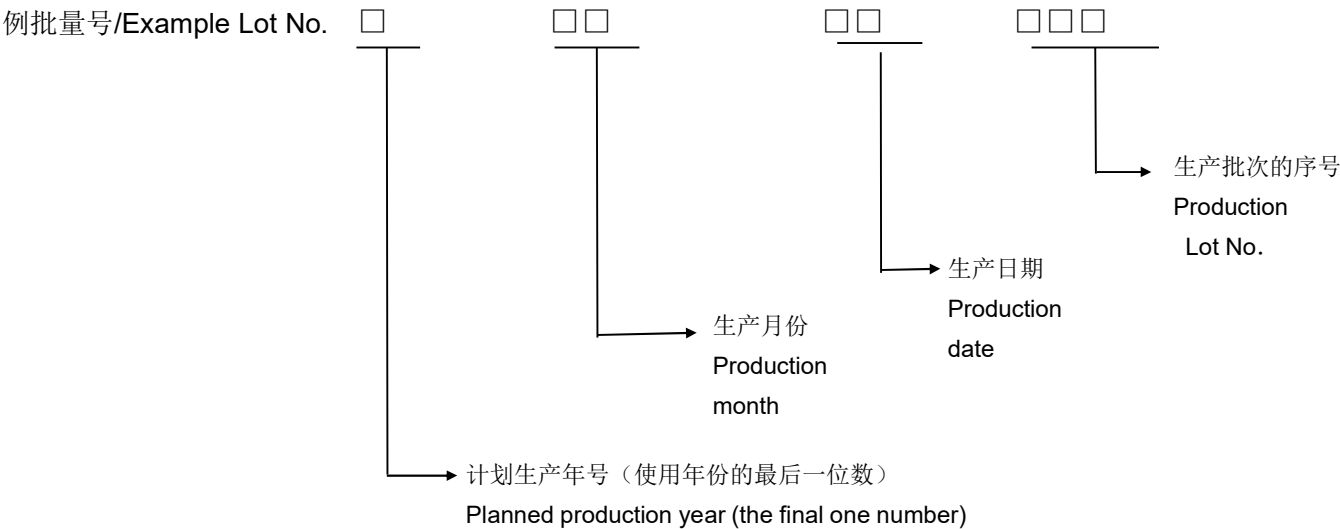
产品的包装应能达到防潮、抗振的作用，以防在运输或贮存过程中产品受潮或损坏。

Packing shall be so carried out that the products will not absorb moisture or be damaged during transportation or storage.

7.3 标签/ LABEL

标签应包括型号、额定电流、额定电压、分断电流、商标、安全标志、批量号码、公司名称、RoHS 标志、绿色“G”和“QA”标志。

The label in the smallest package in which the fuses are put shall contain the Type, Rated current, Rated voltage, Interrupting current, Trademark, Safety approval logo, Lot. No., Company name, “RoHS” mark, green “G” and “QA” mark.



8 环境参数/ ENVIRONMENT PARAMETERS

8.1 工作温度/ Operating Temperature: -55℃～125℃.

8.2 储存温度/ Storage Temperature: -55℃～85℃.

9 信赖性试验/RELIABILITY TEST

项目/ Item	试验要求/Test Requirement	试验条件/ Test Condition
高温试验 High Temperature Test	试验后保险丝管的电阻符合范围；电气特性符合：210%≤30 分、150%≥1 小时(I _n ≤6.3A)或 0.5 小时(I _n >6.3A)。 After high temperature test, the resistance value of the fuses shall be in range. Electrical Characteristics:210%≤30minutes, 150%≥1hour(I _n ≤6.3A) or 0.5hour(I _n >6.3A).	测试温度：105±2℃，测试时间：1000 小时。 Test Temperature: 105 ± 2℃，Test Time: 1000hours.

低温试验 Low Temperature Test	试验后保险丝管的电阻符合范围；电气特性符合：210%≤30 分、150%≥1 小时($I_n \leq 6.3A$)或 0.5 小时($I_n > 6.3A$)。 After low temperature test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210%≤30minutes, 150%≥1hour($I_n \leq 6.3A$) or 0.5hour($I_n > 6.3A$).	测试温度：-20±2℃，测试时间：1000 小时。 Test Temperature: -20 ± 2 °C , Test Time: 1000hours.
高湿试验 High Humidity Test	试验后保险丝管的电阻符合范围；电气特性符合：210%≤30 分、150%≥1 小时($I_n \leq 6.3A$)或 0.5 小时($I_n > 6.3A$)。 After high humidity test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210%≤30minutes, 150%≥1hour($I_n \leq 6.3A$) or 0.5hour($I_n > 6.3A$).	测试温度：40±2℃，测试湿度：90%~95%，测试时间：96 小时。 Test Temperature: 40 ± 2 °C , Test Humidity: 90%~95%, Test Time: 96hours.
热冲击试验 Thermal Shock Test	试验后保险丝管的电阻符合范围；电气特性符合：210%≤30 分、150%≥1 小时($I_n \leq 6.3A$)或 0.5 小时($I_n > 6.3A$)。 After thermal shock test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210%≤30minutes, 150%≥1hour($I_n \leq 6.3A$) or 0.5hour($I_n > 6.3A$).	每个循环：-40℃放置 30 分钟后 85℃放置 30 分钟，测试 10 循环。 -40 °C / 30minutes → 85 °C / 30minutes, 10 cycles.
落下、冲击试验 Falling Shock Test	铜帽应固定牢固,以保证在未损坏熔断体时,铜帽不能被卸下。铜帽表面镀层应牢固不易脱落，每个端帽应能经受专用的设备外加的轴向拉力 10N，保持 1 分钟。陶瓷管必须无缺陷破裂和缺损。试验后保险丝管的电阻符合范围；电气特性符合：210%≤30 分、150%≥1 小时($I_n \leq 6.3A$)或 0.5 小时($I_n > 6.3A$)。 Cap should be firmly attached so that it is not possible to remove them without damaging the fuse itself. The means of attachment shall be sufficient to withstand an axial pull of 10N applied to each cap for 1 minute. The cap shall be nickel plated firmly. The ceramic tube shall have no defects such as crack and injury. After falling shock test, the resistance value of the fuses shall be in range. Electrical Characteristics: 210%≤30minutes, 150%≥1hour($I_n \leq 6.3A$) or 0.5hour($I_n > 6.3A$).	一箱 10,000 个保险丝管从一米高自由落下，跌落 20 次。 10,000EA fuses/ one external carton, Falling height: 1 meter, Falling times: 20.
可焊性试验 Solderability Test	试验后尾线表面的焊锡覆盖率>95%。 After solderability test, solder coverage of fuse's pig tail will be no more than 95%.	预涂助焊剂 5±1 秒后，浸入 245±5℃的无铅焊锡 5±0.5 秒。 Immerse to flux 5±1sec. then dip in solder bath 245 ±5°C, 5±0.5sec..

强制性认证产品符合性自我声明



自我声明编号: 2020970207000175

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生产者地址: 香港皇后大道东213号 胡忠大厦28楼2804B室
依据的强制性产品认证规则: CNCA-00C-008: 2019 强制性产品认证实施规则自我声明
产品名称: 管状熔断体;带引线管状熔断体
产品系列、型号、规格: 见附件
依据的标准: GB/T 9364.1-2015;GB/T 9364.2-2018
生产企业名称: 好利来(厦门)电路保护科技有限公司
生产企业地址: 福建省厦门市翔安区舩山东二路829号

生产者联系信息

名称: 好利来有限公司
地址: 香港皇后大道东213号 胡忠大厦28楼2804B室
联系人: 赖文辉 先生
电话: 0592-5773891
电子邮箱: frank.lai@hollyfuse.com
自我声明时间: 2020-07-31
自我声明地点: 厦门
指定签字人: 
签章: 

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名称: 好利来(厦门)电路保护科技有限公司
地址: 福建省厦门市翔安区舩山东二路829号
联系人: 胡兴华 先生
电话: 0592-5772288
电子邮箱: harris.hu@hollyfuse.com
自我声明时间: 2020-07-31
自我声明地点: 
指定签字人: 
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自我声明编号: 2020970207000175



产品系列、型号、规格(本自我声明基于强制性产品认证证书2006010207194847转换, 以下内容同原证书附件):

产品名称: 管状熔断体; 带引线管状熔断体

型 号: 50CF F250mAH250V、50CF F315mAH250V、50CF F400mAH250V、50CF
F500mAH250V、50CF F630mAH250V、50CF F800mAH250V、50CF F1AH250V、50CF
F1.25AH250V、50CF F1.6AH250V、50CF F2AH250V、50CF F2.5AH250V、50CF
F3.15AH250V、50CF F4AH250V、50CF F5AH250V、50CF F6.3AH250V、50CF F8AH250V、50CF
F10AH250V; 50CF(P) F250mAH250V、50CF(P) F315mAH250V、50CF(P) F400mAH250V、50CF(P)
F500mAH250V、50CF(P) F630mAH250V、50CF(P) F800mAH250V、50CF(P) F1AH250V、50CF(P)
F1.25AH250V、50CF(P) F1.6AH250V、50CF(P) F2AH250V、50CF(P) F2.5AH250V、50CF(P)
F3.15AH250V、50CF(P) F4AH250V、50CF(P) F5AH250V、50CF(P) F6.3AH250V、50CF(P)
F8AH250V、50CF(P) F10AH250V

生产者联系信息

名称: 好利来有限公司
地址: 香港皇后大道东213号 胡忠大厦28楼 2804B室
联系人: 赖文辉 先生
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强制性认证产品符合性自我声明(附页)

自我声明编号: 2020970207000175



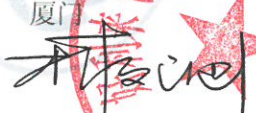
产品系列、型号、规格(本自我声明基于强制性产品认证证书2006010207194847转换, 以下内容同原证书附件):

50CF F250mAH250V、50CF F315mAH250V、50CF F400mAH250V、50CF F500mAH250V、50CF F630mAH250V、50CF F800mAH250V、50CF F1AH250V、50CF F1.25AH250V、50CF F1.6AH250V、50CF F2AH250V、50CF F2.5AH250V、50CF F3.15AH250V、50CF F4AH250V、50CF F5AH250V、50CF F6.3AH250V、50CF F8AH250V、50CF F10AH250V; 50CF(P) F250mAH250V、50CF(P) F315mAH250V、50CF(P) F400mAH250V、50CF(P) F500mAH250V、50CF(P) F630mAH250V、50CF(P) F800mAH250V、50CF(P) F1AH250V、50CF(P) F1.25AH250V、50CF(P) F1.6AH250V、50CF(P) F2AH250V、50CF(P) F2.5AH250V、50CF(P) F3.15AH250V、50CF(P) F4AH250V、50CF(P) F5AH250V、50CF(P) F6.3AH250V、50CF(P) F8AH250V、50CF(P) F10AH250V

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Fuses, Supplemental Certified for Canada - Component

COMPANY
HOLLYLAND CO LTD
Unit B, 31St Fl
Billion Centre, Tower A
1 Wang Kwong Rd
Kowloon Bay, Hong Kong

E156471

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
Supplemental fuses				
41S	4.5 x 15 (0.18 x 0.59)	4-10	125Vac	100
		4-10	250Vac	100
50F	5.2 x 20 (0.20 x 0.79)	0.2-0.8	250Vac	35
		1.0-3.15	250Vac	35
		4.0-6.3	250Vac	10x Ampere rating
		8-16	250Vac	10x Ampere rating
50T	5.2 x 20 (0.20 x 0.79)	0.125-0.4	250Vac	35
		0.5-3.15	250Vac	35
		4.0-6.3	250Vac	10x Ampere rating
		8-15	250Vac	63
65NM	-	20-30	125Vac	100
		20-30	250Vac	100
		20-30	125Vdc	400
		20-30	300Vac	1000
Supplemental fuses: pigtail leads				
3CT	3.6 x 10 (0.14 x 0.39)	1-10	125Vac	63
		1-10	250Vac	63

50CF(P)	5.6 x 21 (0.22 x 0.83)	0.25-2	250Vac	1500, 10000
		0.25-2	250Vdc	1000
		2.5-6.3	250Vac	1500, 10000
		2.5-6.3	250Vdc	1000
		8-16	250Vac	1500
		8-16	250Vdc	1000
61CT(P)	6.85 x 32.4 (0.27 x 1.28)	2-30	500Vac	500
65NM(P)	-	20-30	125Vac	100
		20-30	250Vac	100
		20-30	125Vdc	400
		20-30	300Vac	1000
Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed				
50CT(P)	5.2 x 20 (0.20 x 0.79)	16-16	250Vac	1500
50CT(P)	5.2 x 20 (0.20 x 0.79)	0.2-0.63	250Vac	200, 1500
		0.8-1	250Vac	200, 1500
		1.25-15	250Vac	200, 1500
		16-16	250Vac	1500
		20-25	250Vac	1500
50CT(P) (With Filler)	5.2 x 20 (0.20 x 0.79)	16-16	250Vac	1500
		20-25	250Vac	1500
5HF(P)	-	0.25-1.6	300Vac	1500
		0.25-1.6	500Vac	1000
		4-6.3	500Vac	200
		0.25-1.6	600Vac	100
		0.25-1.6	300Vdc	1500
		0.25-1.6	450Vdc	1500
		0.25-1.6	500Vdc	200
		4-6.3	450Vdc	400
		0.25-1.6	420Vac	1000
		4-6.3	420Vac	200

0805FT	2 x 1.5 x 0.57 (0.08 x 0.06 x 0.02)	0.4-5	50Vdc	50
1206FT	1.6 x 0.8 x 0.5 (0.06 x 0.03 x 0.02)	0.5-2	63Vdc	50
		2.5-7	32Vdc	50
		2.5-7	63Vdc	50
		0.5-4	76Vdc	50
25T	6.2 x 2.65 x 2.65 (0.24 x 0.10 x 0.10)	0.2-1	125Vac	100
		0.2-1	250Vac	50
		0.2-1	125Vdc	100
		1.2-5	125Vac	100
		1.2-5	125Vdc	100
		1.2-5	250Vac	50
Supplemental micro fuses: surface mount, cartridge enclosed				
25F	2.65 (0.24 x 0.10 x 0.10 x 0.10)	0.1-5	125Vac	100
		0.1-5	250Vac	50
		0.1-5	125Vdc	100
		6-10	125Vac	100
		6-10	250Vac	50
		6-10	125Vdc	100
		11-15	125Vac	50
		11-15	125Vdc	50
		11-15	65Vdc	100
		16-20	125Vac	50
		16-20	125Vdc	50
		16-20	65Vdc	100

(P) - Pigtail leads.

Note - The following models are identical to each other except for the model numbers: 41NM(P) and 42NM; 51NM(P) and 52NM; 51MS(P) and 52MS.

Marking: Company name or tradename "H in a circle", "HOLLY" or trademark  , model designation and the Recognized Component Mark for Canada, .

Feedback

Last Updated on 2023-06-21

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JDYX8.E156471 - Fuses, Supplemental Certified for Canada - Component

Fuses, Supplemental Certified for Canada - Component

HOLLYLAND CO LTD

Unit B, 31St Fl
Billion Centre, Tower A
1 Wang Kwong Rd
Kowloon Bay, Kowloon Hong Kong

E156471

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
Supplemental fuses				
41S	4.5 x 15 (0.18 x 0.59)	4-10	125Vac	100
		4-10	250Vac	100
50F	5.2 x 20 (0.20 x 0.79)	0.2-0.8	250Vac	35
		1.0-3.15	250Vac	35
		4.0-6.3	250Vac	10x Ampere rating
		8-16	250Vac	10x Ampere rating
50T	5.2 x 20 (0.20 x 0.79)	0.125-0.4	250Vac	35
		0.5-3.15	250Vac	35
		4.0-6.3	250Vac	10x Ampere rating
		8-15	250Vac	63
65NM	-	20-30	125Vac	100
		20-30	250Vac	100
		20-30	125Vdc	400
		20-30	300Vac	1000
Supplemental fuses: pigtail leads				
3CT	3.6 x 10 (0.14 x 0.39)	1-10	125Vac	63
		1-10	250Vac	63
42S,41S(P)	4.5 x 15 (0.18 x 0.59)	4-10	125Vac	100

		0.25-1.6	420Vac	1000
		2-3.15	420Vac	1000
		4-6.3	420Vac	200
		0.25-1.6	420Vdc	1500
		2-3.15	420Vdc	1500
		4-6.3	420Vdc	400
		8-25	500Vac	200
		8-25	420Vac	200
		8-20	600Vac	100
		8-20	300Vac	1500
		8-25	500Vdc	200
		21-25	420Vdc	200
		8-20	450Vdc	400
		8-20	420Vdc	400
		8-20	300Vdc	1500
60NM	6.35 x 25.4 (0.25 x 1.00)	5-50	250Vac	1500
		5-50	125Vdc	2000
		5-50	75Vdc	2500
6HF	6.35 x 31.8 (0.25 x 1.25)	12-30	500Vac	10000
		12-30	500Vdc	10000
Supplemental fuses: filled-tube, surface mount				
4NT	10.5 x 4.5 x 4.5 (0.41 x 0.18 x 0.18)	0.5-5	250Vac	150
		0.5-5	250Vdc	150
		0.5-5	125Vac	500
		0.5-5	125Vdc	500
Supplemental fuses: pigtail leads				
61NM(P)	-	12-30	32Vac	300
		12-30	32Vdc	300
Supplemental fuses: pigtail leads, filled-tube				
50CF(P)	5.6 x 21 (0.22 x 0.83)	0.25-2	250Vac	1500, 10000
		0.25-2	250Vdc	1000

		2.5-6.3	250Vac	1500, 10000
		2.5-6.3	250Vdc	1000
		8-16	250Vac	1500
		8-16	250Vdc	1000
61CT(P)	6.85 x 32.4 (0.27 x 1.28)	2-30	500Vac	500
65NM(P)	-	20-30	125Vac	100
		20-30	250Vac	100
		20-30	125Vdc	400
		20-30	300Vac	1000
Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed				
50CT(P)	5.2 x 20 (0.20 x 0.79)	16-16	250Vac	1500
50CT(P)	5.2 x 20 (0.20 x 0.79)	0.2-0.63	250Vac	200, 1500
		0.8-1	250Vac	200, 1500
		1.25-15	250Vac	200, 1500
		16-16	250Vac	1500
		20-25	250Vac	1500
50CT(P) (With Filler)	5.2 x 20 (0.20 x 0.79)	16-16	250Vac	1500
		20-25	250Vac	1500
5HF(P)	-	0.25-1.6	300Vac	1500
		0.25-1.6	500Vac	1000
		4-6.3	500Vac	200
		0.25-1.6	600Vac	100
		0.25-1.6	300Vdc	1500
		0.25-1.6	450Vdc	1500
		0.25-1.6	500Vdc	200
		4-6.3	450Vdc	400
		0.25-1.6	420Vac	1000
		4-6.3	420Vac	200
		0.25-1.6	420Vdc	1500
		4-6.3	420Vdc	400
		2-6.3	300Vac	1500

1206FT	1.6 x 0.8 x 0.5 (0.06 x 0.03 x 0.02)	0.5-2	63Vdc	50
		2.5-7	32Vdc	50
		2.5-7	63Vdc	50
		0.5-4	76Vdc	50
25T	6.2 x 2.65 x 2.65 (0.24 x 0.10 x 0.10)	0.2-1	125Vac	100
		0.2-1	250Vac	50
		0.2-1	125Vdc	100
		1.2-5	125Vac	100
		1.2-5	125Vdc	100
		1.2-5	250Vac	50
Supplemental micro fuses: surface mount, cartridge enclosed				
25F	2.65 (0.24 x 0.10 x 0.10 x 0.10)	0.1-5	125Vac	100
		0.1-5	250Vac	50
		0.1-5	125Vdc	100
		6-10	125Vac	100
		6-10	250Vac	50
		6-10	125Vdc	100
		11-15	125Vac	50
		11-15	125Vdc	50
		11-15	65Vdc	100
		16-20	125Vac	50
		16-20	125Vdc	50
		16-20	65Vdc	100

(P) - Pigtail leads.

Note - The following models are identical to each other except for the model numbers: 41NM(P) and 42NM; 51NM(P) and 52NM; 51MS(P) and 52MS.

Marking: Company name or tradename "H in a circle", "HOLLY" or trademark , , model designation and the Recognized Component Mark for Canada, .

Last Updated on 2022-11-03

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CERTIFICATE

FOR EUROPEAN PRODUCT SAFETY

Reference No. SE-S-2201128

Miniature fuse-link

Type designation:

50CF

Certificate holder:

Hollyland (Xiamen) Technology Corporation Limited
829 Fangshan East 2nd Road, Xiang'an,
361101 Xiamen, Fujian China

The product complies with the standard(s):

EN 60127-2:2014

Date of expiry:

12 September, 2027

EU Directive information:

According to the principle of presumption of conformity, this certificate constitutes support for an EU Declaration of Conformity to the Low Voltage Directive 2014/35/EU.

Additional information in Appendix

Certification Body:

Intertek Semko AB, Product Certification

Place:

Kista - Stockholm

Signed:

Date:

12 September, 2022

Leif Mattsson

APPENDIX:

Reference No. SE-S-2201128

Technical Data:

Type designation	50CF
Rated voltage (V)	250V AC
Rated current (A)	250mA, 315mA, 400mA, 500mA, 630mA 800mA, 1A, 1,25A, 1,6A, 2A, 2,5A, 3,15A, 4A, 5A, 6,3A, 8A, 10A
Standard sheet	1
Trademark	
Test Report	2206684STO-001
Product information	Quick-acting, high-breaking capacity. Size 5x20mm. With or without wire terminations. Also shows compliance with A1 of IEC 60127-2:2014.

Manufacturing Sites:

Hollyland (Xiamen) Technology Corporation Limited
829 Fangshan East 2nd Road, Xiang'an,
361101 Xiamen, Fujian China

According to the principle of presumption of conformity, this certificate, which includes production control, constitutes support for an EU Declaration of Conformity to the Low Voltage Directive 2014/35/EU. This presumption can expire before end of validity of this certificate due to new issued Standard or Amendment and changes within the EU legislation.

This certificate replaces previously issued ref. No. 1713316 dated 27 October 2017. A new certificate has been issued due to renewal testing.

Certification Body:

Intertek Semko AB, Product Certification

Place: Kista - Stockholm

Signed:



Leif Mattsson

Date: 12 September, 2022

ZEICHENGENEHMIGUNG MARKS APPROVAL

Hollyland Company Limited
Unit B, 31/F Billion Centre, Tower A
1 Wang Kwong Road
KOWLOON BAY
Kowloon
HONG KONG

ist berechtigt, für ihr Produkt /
is authorized to use for their product

G-Sicherungseinsatz
Cartridge fuse-link

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 60127-1 (VDE 0820-1):2015-12; EN 60127-1:2006+A1:2011+A2:2015
DIN EN 60127-2 (VDE 0820-2):2015-07; EN 60127-2:2014
IEC 60127-1:2006
IEC 60127-1:2006/AMD1:2011
IEC 60127-1:2006/AMD2:2015
IEC 60127-2:2014

Aktenzeichen: 1913000-1170-0008 / 243045

File ref.:

Ausweis-Nr. 40020380

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2007-03-07

(letzte Änderung / updated 2017-11-29)

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification


R. Nickel

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Hollyland Company Limited, Unit B, 31/F Billion Centre, Tower A, 1 Wang Kwong Road, KOWLOON BAY,
Kowloon, HONG KONG

Aktenzeichen / *File ref.*

1913000-1170-0008 / 243045 / TL3 / EUL

letzte Änderung / *updated*

2017-11-29

Datum / *Date*

2007-03-07

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40020380.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40020380.

G-Sicherungseinsatz Cartridge fuse-link

Typ(en) / *Type(s)*

50CF

Bemessungsspannung
Rated voltage

AC 250 V

Bemessungsstrom
Rated current

250 mA; 315 mA; 400 mA; 500 mA; 630 mA;
800 mA; 1 A; 1,25 A; 1,6 A; 2 A; 2,5 A; 3,15 A;
4 A; 5 A; 6,3 A; 8 A; 10 A

Normblatt
Standard sheet

1

Maße in mm
Dimension in mm

5 x 20

Kennzeichnung der Charakteristik
Characteristic symbol

F

Kennzeichnung des Ausschaltvermögens
Breaking capacity symbol

H

Bemessungsausschaltvermögen
Rated breaking capacity

1500 A

Zeit/Strom-Charakteristik
Time/current-characteristic

flink
quick-acting

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. Page
40020380 3

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Hollyland Company Limited, Unit B, 31/F Billion Centre, Tower A, 1 Wang Kwong Road, KOWLOON BAY,
Kowloon, HONG KONG

Aktenzeichen / *File ref.*

1913000-1170-0008 / 243045 / TL3 / EUL

letzte Änderung / *updated*

2017-11-29

Datum / *Date*

2007-03-07

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40020380.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40020380.

Anmerkung

Wahlweise mit Drahtanschlüssen. Die Endkappen-Version und die Version mit Drahtanschlüssen für 8 A und 10 A verwenden unterschiedliche Schmelzleiter.

Remark

Optional with lead wires (pigtails). The endcap-version and the version with lead wires for 8 A and 10 A use different fuse elements.

Dieser Zeichengenehmigungs-Ausweis bildet eine Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den grundlegenden Schutzanforderungen der **EG-Niederspannungsrichtlinie 2014/35/EU**.

*This Marks Approval is a basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and proves the conformity with the essential safety requirements of the **EC Low-Voltage Directive 2014/35/EU**.*

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet TL3
Section TL3

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40020380

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Hollyland Company Limited, Unit B, 31/F Billion Centre, Tower A, 1 Wang Kwong Road, KOWLOON BAY,
Kowloon, HONG KONG

Aktenzeichen / *File ref.*

1913000-1170-0008 / 243045 / TL3 / EUL

letzte Änderung / *updated*

2017-11-29

Datum / *Date*

2007-03-07

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40020380.

This supplement is part of the Certificate No. 40020380.

G-Sicherungseinsatz Cartridge fuse-link

Fertigungsstätte(n)
Place(s) of manufacture

Referenz/*Reference*
30023119

Hollyland (Xiamen) Technology
Corporation Limited
829 Fangshan East 2nd Road
361101 XIANG'AN, XIAMEN
Fujian
CHINA

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet TL3
Section TL3

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Infoblatt /
Certificate No. Info sheet
40020380

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

Hollyland Company Limited, Unit B, 31/F Billion Centre, Tower A, 1 Wang Kwong Road, KOWLOON BAY,
Kowloon, HONG KONG

Aktenzeichen / File ref.

1913000-1170-0008 / 243045 / TL3 / EUL

letzte Änderung / updated

2017-11-29

Datum / Date

2007-03-07

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40020380.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40020380.

Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH (www.vde.com\AGB-Institut). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

Die Genehmigung ist so lange gültig wie die VDE-Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

Approval to use the legally protected Mark of the VDE as shown on the first page:

Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute (www.vde.com\terms-institute). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.

The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).

The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.

Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.

The approval is solely signed on the first page.

Kitemark™ Certificate

This is to certify that:

Hollyland (Xiamen) Technology Co. Ltd
829 Fangshan East 2nd Road
Xiang'an
Xiamen
Fujian
361101
China

Holds Certificate Number:

KM 52652

In respect of:

BS EN 60127
Cartridge fuse-links

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.



For and on behalf of BSI:

Chris Lewis - Certification Director, Product Certification

First Issued: 1999-10-29

Latest Issue: 2020-11-12

Effective Date: 2020-11-12

Expiry Date: 2023-11-07

Page: 1 of 7



...making excellence a habit.™

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A member of BSI Group of Companies.

Kitemark™ Certificate

No. KM 52652

BS EN 60127-2:2014 (BS EN 60127-1:2006 + A2:2015) - Standard Sheet I Fuse-links
Lead-free & RoHS* Fuse-links with & without wire terminations

Type: 50 CF– 'HOLLYLAND', 'HOLLY' or 'H'

Type Ref.	Rating	Reference Reports
50 CF	F 250 mA H / 250 V	GTIHEA 2925/1 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 315 mA H / 250 V	GTIHEA 2925/2 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 400 mA H / 250 V	GTIHEA 2925/3 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 500 mA H / 250 V	GTIHEA 2925/4 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 630 mA H / 250 V	GTIHEA 2925/5 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 800 mA H / 250 V	GTIHEA 2925/6 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 1 A H / 250 V	GTIHEA 2925/7 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 1.25 A H / 250 V	GTIHEA 2925/8 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 1.6 A H / 250 V	GTIHEA 2925/9 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 2 A H / 250 V	GTIHEA 2925/10 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 2.5 A H / 250 V	GTIHEA 2925/11 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 3.15 A H / 250 V	GTIHEA 2925/12 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 4 A H / 250 V	GTIHEA 2925/13 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 5 A H / 250 V	GTIHEA 2925/14 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 6.3 A H / 250 V	GTIHEA 2925/15 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 8 A H / 250 V	GTIHEA 2925/16 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)
50 CF	F 10 A H / 250 V	GTIHEA 2925/17 (CN8473), 249/7070411 & GJW2013-4143BSI (8034345)

Note: * As declared by the manufacturer for RoHS Directive 2002/95/EC compliance.

Factory relocation assessment report numbers 8443536 and 8262842.

First Issued: 1999-10-29

Latest Issue: 2020-11-12

Effective Date: 2020-11-12

Expiry Date: 2023-11-07

Page: 5 of 7

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To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

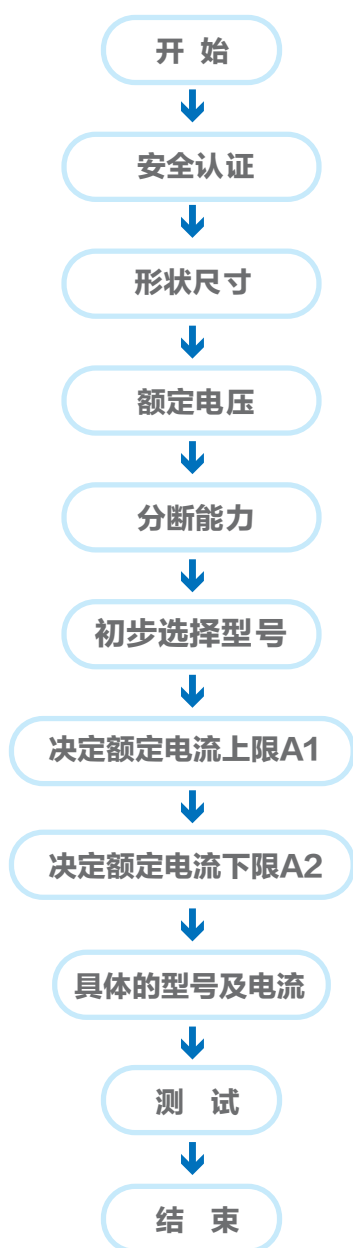
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A member of BSI Group of Companies.

用户指南

保险丝管的选用

为便于用户针对所需保护的元件、电路或设备选用合适的保险丝管，特制定本指南。保险丝管的选用可依以下流程：

选用流程



需考虑因素

根据整机所需的安全认证决定保险丝管的安全认证，在此，可初步确定选用 IEC 规格或 UL 规格保险丝管。

- ▶ 设计时电路中空间的限制。
- ▶ 安装方式

额定电压应大于等于有效的电路电压。

分断能力的电流应大于电路中的最大故障电流。

整机开关时电路中是否存在起动电流，起动电流在某些电路中是正常的，这种场合应使用慢断型或中等慢断型保险丝管。

保险丝管必须切断的电流及持续时间（该条件由设计人员依具体电路的保护需求而定），参考相应型号的 I-T 曲线，取满足要求的最大额定电流作为上限值 A1。

- ▶ 通过保险丝管的稳态电流（依具体电路而定）。
- ▶ IEC 规格及 UL 规格保险丝管的额定电流的差别，详见“稳态电流”。
- ▶ 环境温度对保险丝管承载能力的影响，详见“环境温度”。
- ▶ 脉冲（冲击电流，浪涌电流，起动电流及电流瞬变值）对保险丝管寿命的影响，详见“脉冲”。
- ▶ 起动电流及持续时间与相应型号的 I-T 曲线比较。
综合考虑以上五个因素后，选出满足要求的最小额定电流作为下限 A2。

综合考虑以上因素后，选出最合适的型号及额定电流。

- ▶ 当 $A1 \geq A2$ 时，则可选用 A2 到 A1 区间内的任一规格的保险丝管。
- ▶ 当 $A1 < A2$ 时，则建议选用其它型号的保险丝管。

样品应在实际电路中试运行。



用户指南

稳态电流

在实际应用中和实验室之间有不同的条件，如：

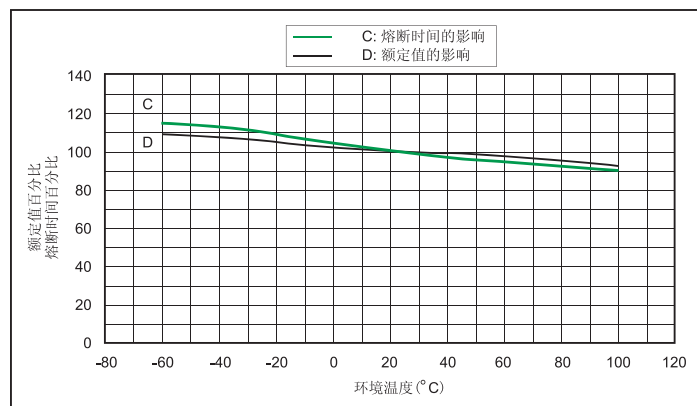
- ▶ 有时使用保险丝盒；
- ▶ 电路中的电线横截面积；
- ▶ 保险丝管夹的接触电阻等。

考虑到以上因素，故在 25℃ 条件下所选用的保险丝管应满足如下条件才可使得保险丝管持续可靠地工作：

IEC 规格：保险丝管的额定电流 I_n = 稳态电流 / 0.9

环境温度

保险丝管的电流承载能力测试是在环境温度 25℃ 条件下进行的，而保险丝管的电流承载能力是会受环境温度影响的。环境温度越高，保险丝管的寿命越短，承载能力就越低。所以选用保险丝管时应考虑保险丝管周边的环境温度，环境温度对各类保险丝管承载能力的影响如下图所示：



(b) 表示环境温度对快速熔断型及慢断型保险丝管承载能力及 5I_n 熔断时间的影响

用户指南

脉冲

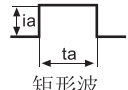
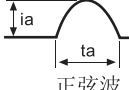
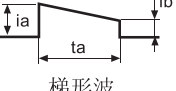
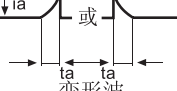
脉冲产生热循环，从而产生机械疲劳影响保险丝管寿命。设计时应使脉冲 I^2T 远远小于保险丝管标称熔化热能 I^2T 。保险丝管寿命（可承受的脉冲循环次数）与 U （脉冲 I^2T 值与保险丝管 I^2T 值之比率）的关系参照表 1。本目录提供的各种规格的保险丝管熔化热能 I^2T 可供参考，表 2 提供各种典型脉冲波形的 I^2T 值近似计算公式：

表 1

可承受脉冲次数	U (比率)
100,000 次	20%
10,000 次	30%
1,000 次	40%

注：脉冲间隔时间必须足够长才可使前一脉冲产生的热量散失。

表 2

波形	I^2T 值计算公式	波形	I^2T 值计算公式
 矩形波	$ia^2 ta$	 正弦波	$(1/2) ia^2 ta$
 梯形波	$(1/3) (ia^2 + iaib + ib^2) ta$	 变形波	$(1/5) ia^2 ta$
 三角形波	$(1/3) ia^2 ta$	 充、放电波	$(1/2) ia^2 ta$

测试

所选定的样品必须在实际的被保护电路中进行测试，以验证所选择的保险丝管。此验证应包括正常条件及故障条件下的测试，以确保所选择的保险丝管在被保护电路中能正常运行。

如您在电路保护方面遇见各种疑问，欢迎与好利来（中国）电子科技有限公司工程技术人员联系，好利来（中国）电子科技有限公司将提供恰当建议协助您共同解决。