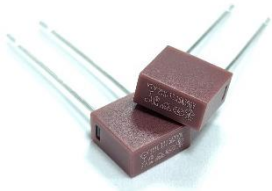


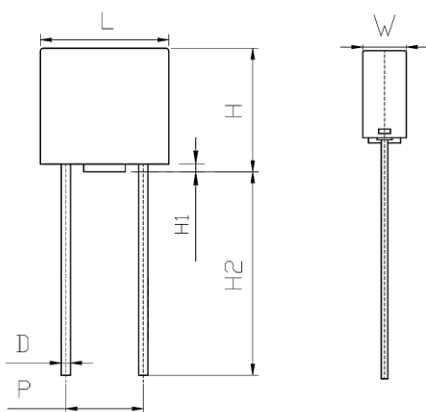
■ **产品系列 / Product Family:** 超小型保险丝 / Subminiature Fuses

■ **零件系列 / Part Series:** 2010系列 / 2010 Series



	结构 / Construction: - 外壳/ Enclosure & 内芯/ Inner core: 耐热性塑胶 (聚酰胺66, UL-94-V0) / Heat-resistant plastics (Polyamide66, UL-94-V0) - 熔体 / Fuse-link: 合金 / Alloy - 填充物 / Filler: 石英砂 / Quartz Sand - 引线 / Lead: 镀锡铜线 / Tinned Copper wire	特征 / Features: - 延时 / Time-lag - 额定电流 / Rated current: 100mA~20A - 额定电压 / Rated Voltage: 300V/350V/400V AC - 分断能力 / Breaking capacity: 100A@250V AC - 大批量生产适合商业和特殊应用 / High volume production suitable for commercial and special applications - 质量 / Mass: 0.388g - 不含PFAS / PFAS Free - 符合 RoHS 规定无豁免 / RoHS Compliant without exemptions
描述 / Description: 2010系列超小型保险丝, 获得UL/VDE/TUV/ CQC/PSE/KC安规证书, 适用于一般电子设备。 2010 seri Subminiature Fuses, has obtained UL/VDE/TUV/ CQC/PSE/KC safety certificates, used in electronic equipments.		

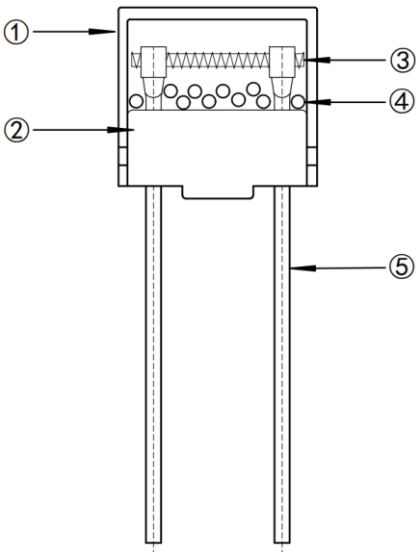
产品尺寸 / Product Dimensions



单位/Unit : mm

尺寸 (公制) Size (Metric)	L	W	H	H1	H2	D	P
2010系列	8.2±0.3	4.0±0.2	8.1±0.3	0.5Min	19.2±0.5 or 4.5±0.5	φ0.6±0.1	5.08±0.2

产品结构 / Product Construction



根据上面的产品尺寸图标注 / Callouts per Product Dimensions diagram above

编号 / No.	组件 / Component	材质 / Material	数量 / Quantity
1	外壳 / Enclosure	耐热性塑胶(聚酰胺66,UL-94-V0)/Heat-resistant plastics (Polyamide66,UL-94-V0)	1
2	内芯 / Inner core	耐热性塑胶(聚酰胺66,UL-94-V0)/Heat-resistant plastics (Polyamide66,UL-94-V0)	1
3	熔体 / Fuse-link	合金 / Alloy	1
4	填充物 / Filler	石英砂 / Quartz Sand	/
5	引线 / Lead	镀锡铜线 / Tinned Copper wire	2

零件编号 / Part Numbering （例/Example）： 2010 T1A300V

系列号 Series Number	特性符号 Characteristic Symbol	额定电流 Rated Current	额定电压 Rated Voltage
2010	T (延时/Time-lag)	1A	300V AC

标示 / Marking

- 保险丝上需有下列标示 / The fuses shall have the following marking:

- ① 制造工厂及品名的标识 / Manufacture's Logo and product name:  2010
- ② 电气特性 / Electrical Characteristic: T (延时的保险丝符号 symbol for Time-Lag)
- ③ 额定电流 / Rated Current (A): ____ A 或 ____ mA
- ④ 额定电压 / Rated Voltage (V): 300V (100mA ~ 20A) & 350V (12A ~ 20A) & 400V (12A ~ 20A)
- ⑤ 认证符号 / Approval Marks:

额定电流 / Rated Current	标示 / Marking
100mA ~ 800mA (300V)	 
1A ~ 6.3A (300V)	   
8A ~ 10A (300V)	   
12A ~ 20A (300V & 350V & 400V)	 

注: 对标示的大小和位置没有规定。

Note: Size and position of the markings shall not be provided.

熔断/电流特性 Pre-Arcing Time / Current Characteristics

额定电流 Rated Current	2.1 In	2.75 In		4 In		10 In	
	Max	Min	Max	Min	Max	Min	Max
100mA ~ 6.3A	2min	400ms	10s	150ms	3s	20ms	150ms
8A ~ 10A	5min	1s	20s	150ms	3s	20ms	150ms
12A ~ 20A	5min	400ms	10s	150ms	3s	20ms	150ms

电气规格 / Electrical Specifications

额定电流 Rated Current	冷电阻范围 Cold Resistance Range	最大电压降 Max Voltage Drop (mV)	最大功耗 Max Power Dissipation (mW)	I ² t值 I ² t Value (A ² Sec)
100mA	1.90 ~ 3.30 Ω	350	170	0.075
125mA	1.20 ~ 2.30 Ω	300	180	0.11
160mA	0.90 ~ 1.60 Ω	280	190	0.17
200mA	0.60 ~ 1.20 Ω	260	200	0.3
250mA	0.42 ~ 0.84 Ω	240	220	0.71
315mA	0.35 ~ 0.70 Ω	220	250	1.0
400mA	0.23 ~ 0.45 Ω	200	280	1.5
500mA	0.16 ~ 0.32 Ω	190	310	2.9
630mA	0.11 ~ 0.22 Ω	180	360	4.3
800mA	0.08 ~ 0.16 Ω	160	430	6.5
1A	64.00 ~ 115.00 mΩ	140	500	11
1.25A	46.50 ~ 79.00 mΩ	130	600	15
1.6A	33.50 ~ 55.00 mΩ	120	730	26
2A	25.00 ~ 44.00 mΩ	100	870	37
2.5A	18.50 ~ 30.00 mΩ	100	1000	61
3.15A	13.50 ~ 23.00 mΩ	100	1200	98
4A	9.00 ~ 16.00 mΩ	100	1400	136
5A	6.50 ~ 12.00 mΩ	100	1500	212
6.3A	4.50 ~ 8.50 mΩ	100	1650	321
8A	3.50 ~ 7.50 mΩ	80	1800	360
10A	3.00 ~ 6.00 mΩ	75	2000	405
12A	2.62 ~ 6.75 mΩ	220	4000	700
12.5A	2.37 ~ 6.08 mΩ	180	4000	730
15A	1.80 ~ 4.90 mΩ	180	4000	900
16A	1.92 ~ 5.13 mΩ	140	4000	950
20A	1.56 ~ 3.85 mΩ	100	4000	1050

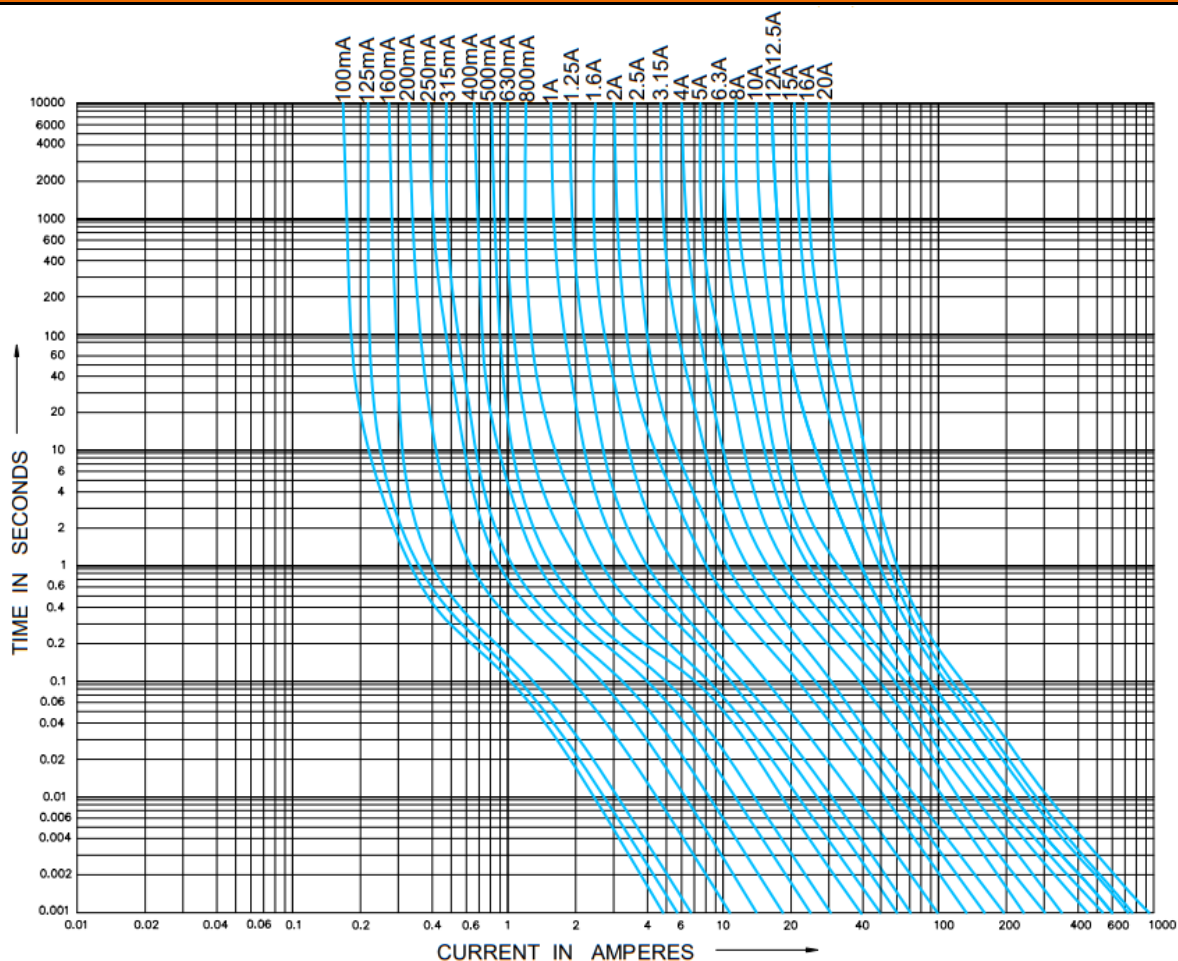
注：此I²T值为产品10In时的参考值，产品具体的I²T值可参考相关产品的I²T图，或有需要时可另获取产品具体的测试数据。

Note: This I²T value is the reference value of the product at 10In, and the specific I²T value of the product can refer to the I²T diagram of the relevant product, or the specific test data of the product can be obtained if necessary.

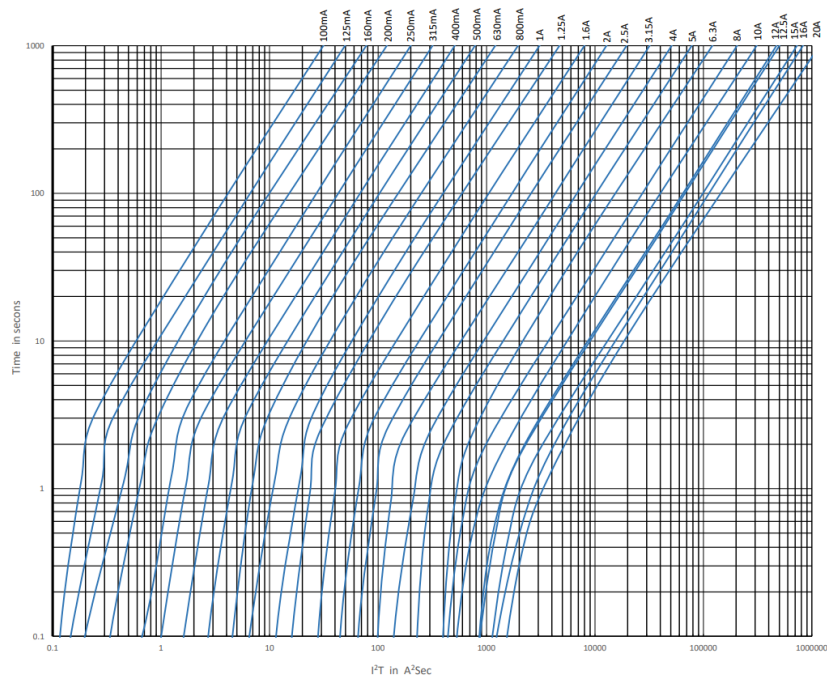
分断能力 / Breaking Capacity

安规认证 / Safety certification	额定电流 / Rated Current	分断能力 / Breaking Capacity
UL	100mA ~ 10A	50A @ 300V AC
	12A ~ 20A	100A @300V AC& 50A@350V/400V AC
VDE	100mA ~ 6.3A	50A @ 300V AC
TUV	8A ~ 10A	100A @ 300V AC
	12A ~ 20A	100A @300V AC& 50A@350V/400V AC
CQC	1A ~ 5A	50A @ 300V AC
	6.3A ~ 10A	100A @ 300V AC
PSE	1A ~ 10A	100A @ 300V AC
KC	100mA ~ 6.3A	50A @ 300V AC

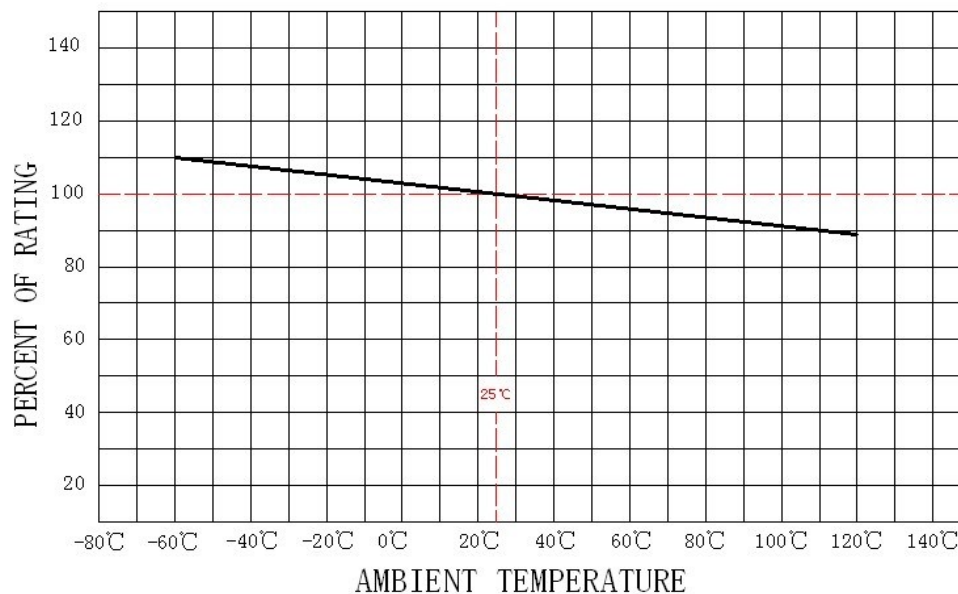
时间电流曲线 / Time Current Curves



I²t-T 曲线 / I²t-T Curves



温度电流曲线 / Temperature Current Curve



环境特性 / Environmental Characteristic

- 操作温度范围: -55°C ~ +125°C。

Operating Temperature: -55°C ~ +125°C .

- 选择保险丝规格时, 若使用环境温度超出范围20~30°C, 需考虑环境温度对保险丝的影响, 请参考上表。

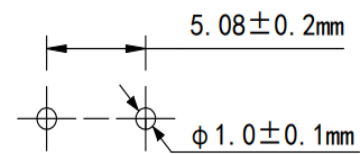
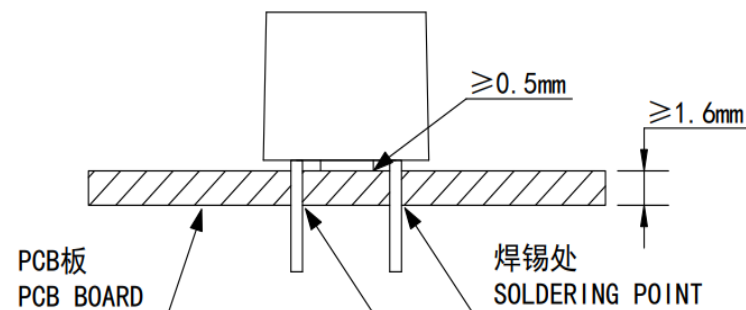
When choosing the fuse' s specification, if the operating environmental temperature is 20~30°C beyond the range, consider the environmental temperature' s effects on the fuse. Please refer to the table above.

安全认证及编号 / Standards and Approvals

UL	E56092 (100mA~20A/300V、12A~20A/350V&400V)
VDE	40018781 (100mA~6.3A/300V)
TUV	J50361151 (8A~10A/300V)、R50604490 (12A~20A/300V&350V&400V)
CQC	CQC20012271742 (1A~10A/300V)
PSE	JET2179-31007-1003 (1A~5A/300V)、JET2179-31007-1004 (6.3A~10A/300V)
KC	SU05015-12004A (100 mA/300V)、SU05015-12005A (125mA~800mA/300V) SU05015-12001A (1A~2.5A/300V)、SU05015-12003A (3.15A~6.3A/300V)

安装方法及参数 / Installation Method and Parameters

- 建议安装方法如下图所示 / The recommended installation method is shown in the figure below.



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注：如果客户有特殊安装需求，可联系我司。

Note: If customers have special installation needs, please contact our company.

建议客户焊接参数 / Recommended Customer Soldering Parameters

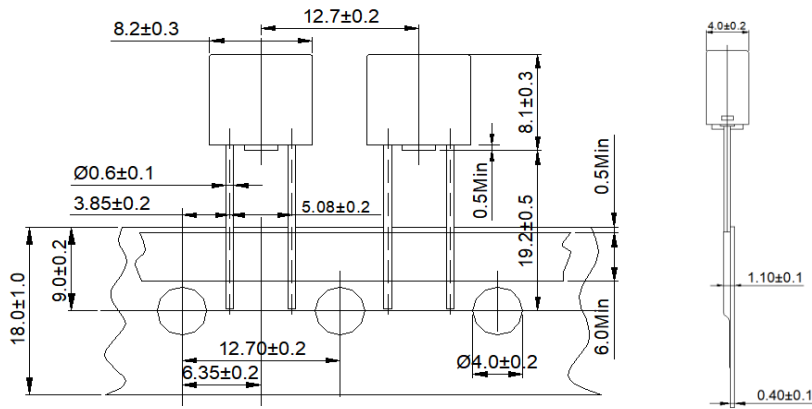
- 波峰焊参数 / Wave Parameters :
 - 锡炉温度 / Solder Pot Temperature: 260°C Max
 - 焊接时间 / Solder Dwell Time: 2~5s
- 手工焊参数 / Hand-Solder Parameters:
 - 烙铁温度 / Solder Iron Temperature: 350±5°C
 - 焊接时间 / Heat Time: 5s Max

包装方式 / Packaging

A: 编带/Taping

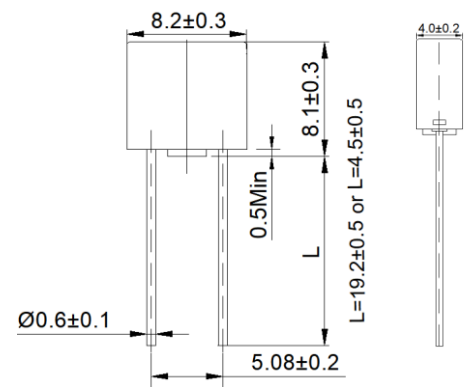
- 每内盒装1000个保险丝
1000 pcs per box
- 每箱 10 盒 = 每箱 10,000pcs
10 boxes per case = 10,000 pcs per case

单位 / Unit: mm



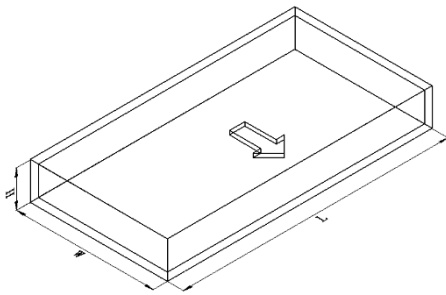
B: 散装/Bulk

- 每胶袋装1000个保险丝
1000 pcs per polybag
- 每内盒装2000个保险丝
2000 pcs per box
- 每箱 5 盒 = 每箱 10,000pcs
5 boxes per case = 10,000 pcs per case

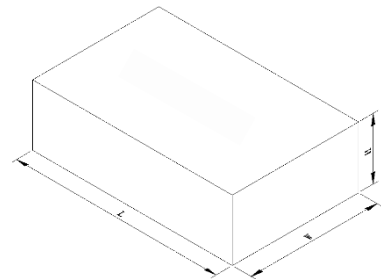


内盒 / Inner tape box

A: 编带/Taping



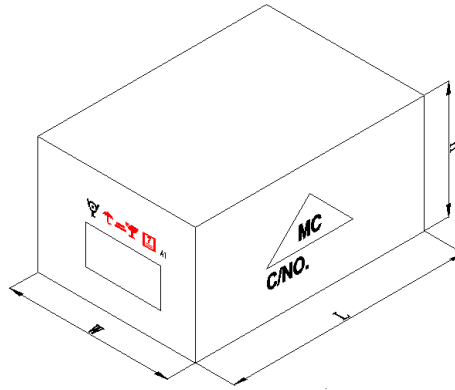
B: 散装/Bulk



单位 / Unit: mm

类别 / Category	L	W	H
A: 编带/Taping	330±3	175±3	39±2
B: 散装/Bulk	245±3	155±3	75±2

外箱 / Outer box with tape



单位 / Unit: mm

类别 / Category	L	W	H
A: 编带/Taping	430±5	345±5	205±5
B: 散装/Bulk	430±5	270±5	180±5

储存条件 / Storage Conditions

- 在温度+10°C~60°C、相对湿度≤75%的密闭条件下可存放3年。
Under airtight in temperature+10°C~60°C relative humidity ≤75% can store 3 years.
- 在温度+10°C~60°C、相对湿度为95%的非露天下最多可存放30天。
Without dew in temperature+10°C~60°C relative humidity of 95% maximum value for 30 days.

其他 / Others

- 如果在使用中有超出本规格书的要求，必须经由双方协商确认。
In the event that an impropriety is found beyond this specification, it shall be fixed by mutual agreement between the parties.
- 如果本规格书有不适当的情况，必须通过双方协商并由本公司修改。
In the event that an impropriety is found in this specification, SUZHOU WALTER ELECTRONIC CO., LTD. shall amend it by mutual agreement between the parties.

Model 2010
File Number: E56092

COMPANY

SUZHOU WALTER ELECTRONIC CO LTD
NO.99 Xinli Road
Fenhu Technic Development Zone
Wujiang, Jiangsu 215211 China

MODEL INFO

2010
Supplemental micro fuses: pigtail leads

SUPPLEMENTAL FUSES	额定值
Micro Fuse	Yes
Pigtail Leads	Yes
Surface Mount	No
Cartridge Enclosed	No
Time Delay	No
Paper Tube	No
Filled Tube	No
OD - Length	8.4 mm
Length - Width	4.1 mm
Height	8.4 mm

RATING TABLE				
Amps Minimum (A)	Amps Maximum (A)	Voltage (V)	Voltage Source	Interrupting Rating (A)
0.1	10	250	ac	130
0.1	10	250	dc	100
0.1	6.3	300	ac	50

RATING TABLE

Amps Minimum (A)	Amps Maximum (A)	Voltage (V)	Voltage Source	Interrupting Rating (A)
8	10	300	ac	100
12	20	125	ac	160
12	20	250	ac	160
12	20	300	ac	100
12	20	350	ac	50
12	20	400	ac	50

Report Date: 2004-05-07

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GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

Suzhou Walter Electronic
Co. Ltd.
Fenhu Technic Development Zone
215211 Luxu Town, Wujiang City
Jiangsu
China

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

Kleinstsicherungseinsatz
Sub-miniature 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.



REG B936 oder/or



oder/or VDE-REG B936

REG B936

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 60127-3 (VDE 0820-3):2021-08; EN 60127-3:2015+A1:2020

Das Produkt erfüllt auch die Anforderungen nach /
The product also fulfills the requirements of

IEC 60127-1:2006

IEC 60127-1:2006/AMD1:2011

IEC 60127-1:2006/AMD2:2015

IEC 60127-3:2015

IEC 60127-3:2015/AMD1:2020

Aktenzeichen: 5000410-1170-0023 / 303555

File ref.:

Ausweis-Nr. 40018781

Blatt 1

Certificate No.

Page

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

Offenbach, 2006-09-05

(letzte Änderung / updated 2023-03-20)

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

R. Nickel

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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*

Suzhou Walter Electronic Co. Ltd., Fenu Technic Development Zone, 215211 LUXU TOWN, WUJIANG CITY,
Jiangsu, CHINA

Aktenzeichen / *File ref.*

5000410-1170-0023 / 303555 / TL3 / EUL

letzte Änderung / *updated*

2023-03-20

Datum / *Date*

2006-09-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40018781.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40018781.

Kleinstsicherungseinsatz *Sub-miniature fuse-link*

Typ(en) / *Type(s)*

2010

Bemessungsspannung
Rated voltage

AC 250 V ; AC 300 V

Bemessungsstrom
Rated current

100 mA; 125 mA; 160 mA; 200 mA;
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

Normblatt
Standard sheet

4

Kennzeichnung der Charakteristik
Characteristic symbol

T

Bemessungsausschaltvermögen
Rated breaking capacity

130 A (AC 250 V; 3,15 A - 6,3 A)
100 A (AC 250 V; 100 mA - 6,3 A)
50 A (AC 300 V; 100 mA - 5 A)
63 A (AC 300 V; 6,3 A)

Zeit/Strom-Charakteristik
Time/current-characteristic

träge
time-lag

Anmerkung

Die Prüfspannung in Abschnitt 9.2 war DC 63V.
Jetzt auch mit zwei alternativen Kunststoffmaterialien
genehmigt.

Remark

*The test voltage in clause 9.2 was DC 63 V.
Now also approved with two alternative plastic materials.*

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Blatt /
Certificate No. Page
40018781 3

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

Suzhou Walter Electronic Co. Ltd., Fenu Technic Development Zone, 215211 LUXU TOWN, WUJIANG CITY,
Jiangsu, CHINA

Aktenzeichen / *File ref.*

5000410-1170-0023 / 303555 / TL3 / EUL

letzte Änderung / *updated*

2023-03-20

Datum / *Date*

2006-09-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40018781.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40018781.

Ausführung(en)
Construction(s)

Rechteckige Bauform
Rectangular shape

Dieser Zeichengenehmigungsausweis bildet eine Grundlage für die EU-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten.

This Marks Approval is a basis for the EU Declaration of Conformity and the CE Marking by the manufacturer or his agent.

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40018781

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

Suzhou Walter Electronic Co. Ltd., Fenu Technic Development Zone, 215211 LUXU TOWN, WUJIANG CITY,
Jiangsu, CHINA

Aktenzeichen / *File ref.*

5000410-1170-0023 / 303555 / TL3 / EUL

letzte Änderung / *updated*

2023-03-20

Datum / *Date*

2006-09-05

Dieses Beiblatt ist Bestandteil des Gutachtens mit Fertigungsüberwachung Nr. 40018781.

This supplement is part of the Certificate of Conformity with factory surveillance No. 40018781.

Kleinstsicherungseinsatz

Sub-miniature fuse-link

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/*Reference*

30011941

Suzhou Walter Electronic

Co. Ltd.

Fenu Technic Development Zone

215211 LUXU TOWN, WUJIANG CITY

Jiangsu

CHINA

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Infoblatt /
Certificate No. Info sheet
40018781

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

Suzhou Walter Electronic Co. Ltd., Fenu Technic Development Zone, 215211 LUXU TOWN, WUJIANG CITY, Jiangsu, CHINA

Aktenzeichen / File ref.

5000410-1170-0023 / 303555 / TL3 / EUL

letzte Änderung / updated

2023-03-20

Datum / Date

2006-09-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40018781.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40018781.

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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.

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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.

Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. Certificate No.
J 50361151

Blatt Page
0001

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue

05-ZHANGVIVI-50049138 001 26.10.2016 (day/mo/yr)

Genehmigungsinhaber License Holder

Walter Electronic Co., Ltd.
2nd FL. 97 Chung King N RD., Sec. 4
Taipei
Taiwan

Fertigungsstätte Manufacturing Plant

Dongguan Walter Electric Co., Ltd.
Yantian Village, Fenggang Town
Dongguan, Guangdong 523702
P.R. China

Prüfzeichen Test Mark



Geprüft nach Tested acc. to

EN 60127-1:2006+A1+A2
EN 60127-3:2015

Zertifiziertes Produkt (Geräteidentifikation)

Certified Product (Product Identification)

Lizenzentgelte - Einheit

License Fee - Unit

(Sub-miniature Fuse)

Type Designation : 2010
Trademark : Walter (Logo)
Rated Voltage : AC 250V
Rated Current : 8A; 10A
Rated Breaking Capacity : 130A at 250VAC
100A at 300VAC
T/I Characteristic : T

6

Remark :

- 1) The requirements of standard sheet 4 were taken into consideration.
- 2) The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.
- 3) The installation has to be carried out according to installation instruction accompanying the products.

6

ANLAGE (Appendix) : 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements; the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com

Fax: +49 221 806-3935 http://www.tuv.com/safety



Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. *Certificate No.*
J 50361151

Blatt *Page*
0002

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*

Ausstellungsdatum

Date of Issue

05-ZHANGVIVI-50049138 001 26.10.2016 (day/mo/yr)

Genehmigungsinhaber *License Holder*

Walter Electronic Co., Ltd.
2nd FL. 97 Chung King N RD., Sec. 4
Taipei
Taiwan

Fertigungsstätte *Manufacturing Plant*

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City, Jiangsu
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1+A2

EN 60127-3:2015

Zertifiziertes Produkt (Geräteidentifikation)

Certified Product (Product Identification)

Lizenzentgelte - Einheit

License Fee - Unit

(Sub-miniature Fuse)

As page 0001

Addition

Factory : see above

Remark :

The labelling requirements acc. to EU Directive
2001/95 have to be observed for distribution within the EEA.
The installation has to be carried out according to
installation instruction accompanying the products.

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com

Fax: +49 221 806-3935 http://www.tuv.com/safety



G. Yin

Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. *Certificate No.*
J 50361151

Blatt *Sheet*
0003

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*

Ausstellungsdatum

Date of Issue

05-YFC-50049138 002

17.07.2018

(day/mo/yr)

Genehmigungsinhaber *License Holder*

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City, Jiangsu
P. R. China

Fertigungsstätte *Manufacturing Plant*

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City, Jiangsu
P. R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1+A2

EN 60127-3:2015

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

(Sub-miniature Fuse)

as pages 0001-0002

Change

Name and address of License Holder : see above

Remark :

The labelling requirements acc. to EU Directive
2001/95 have to be observed for distribution within the EEA.
The installation has to be carried out according to
installation instruction accompanying the products.

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com

Fax: +49 221 806-3935 <http://www.tuv.com/safety>



Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. *Certificate No.*
J 50361151

Blatt *Sheet*
0004

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*

Ausstellungsdatum

Date of Issue

05-YFC-50049138 003

06.09.2018

(day/mo/yr)

Genehmigungsinhaber *License Holder*

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City, Jiangsu
P. R. China

Fertigungsstätte *Manufacturing Plant*

Dongguan Walter Electric Co., Ltd.
Yantian Village, Fenggang Town
Dongguan, Guangdong 523702
P. R. China

Prüfzeichen *Test Mark*



Safety
Regular
Production
Surveillance

www.tuv.com
ID 1419040825

Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1+A2

EN 60127-3:2015

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

(Sub-miniature Fuse)

as pages 0001-0003

Addition

Rated Voltage : AC 300V

Remark :

The labelling requirements acc. to EU Directive
2001/95 have to be observed for distribution within the EEA.
The installation has to be carried out according to
installation instruction accompanying the products.

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 <http://www.tuv.com/safety>



Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. *Certificate No.*
J 50361151

Blatt *Sheet*
0005

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*

Ausstellungsdatum

Date of Issue

05-YFC-50049138 004

29.04.2022

(day/mo/yr)

Genehmigungsinhaber *License Holder*

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Fertigungsstätte *Manufacturing Plant*

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1+A2
EN 60127-3:2015



Zertifiziertes Produkt (Geräteidentifikation)

Certified Product (Product Identification)

Lizenzentgelte - Einheit

License Fee - Unit

(Sub-miniature Fuse)

as pages 0001-0004

Change

Name and Address of Factory : See above

ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

<http://www.tuv.com/safety> E-mail: markcheck@tuv.com

Fax: +49 221 806-3935



Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. Certificate No.
J 50361151

Blatt Sheet
0006

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue

05-xieb-50049138 005

27.09.2023

(day/mo/yr)

Genehmigungsinhaber License Holder

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Fertigungsstätte Manufacturing Plant

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Prüfzeichen Test Mark



Safety
Regular
Production
Surveillance

www.tuv.com
ID 1419040825

Geprüft nach Tested acc. to

EN 60127-1:2006+A1+A2
EN 60127-3:2015+A1

IEC 60127-1:2006+A1
IEC 60127-3:2015+A1

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

(Sub-miniature Fuse)

as pages 0001-0005

Change

Test Requirement: see above

Remark:

The labelling requirements acc. to EU Directive 2001/95
have to be observed for distribution within the EEA.

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



Zertifizierungsstelle

G. Yin

G. Yin

Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. Certificate No.
J 50361151

Blatt Sheet
0007

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue

05-yuansim-50049138 006 11.12.2024 (day/mo/yr)

Genehmigungsinhaber License Holder

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Fertigungsstätte Manufacturing Plant

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Prüfzeichen Test Mark



Safety
Regular
Production
Surveillance

www.tuv.com
ID 1419040825

Geprüft nach Tested acc. to

EN 60127-1:2006+A1+A2 IEC 60127-1:2006+A1+A2
EN 60127-3:2015+A1 IEC 60127-3:2015+A1

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

(Sub-miniature Fuse)

as pages 0001-0006

Addition

Rated Voltage : DC 250V
Rated Current : 100mA, 125mA, 160mA, 200mA, 250mA,
315mA, 400mA, 500mA, 630mA, 800mA,
1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A,
4A, 5A, 6.3A

Rated Breaking Capacity: 100A at 250VDC

ANLAGE (Appendix): 1.2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



Zertifizierungsstelle

Sarah Chen
Sarah Chen

Zertifikat *Certificate*

Zertifikatsnummer Certificate No.:

R 50604490 0001

Berichtsnummer Report No.:

CN23B3HY 001

Genehmigungsinhaber License Holder:

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Fertigungsstätte Manufacturing Site:

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu
Wujiang City
Jiangsu
P.R. China

Prüfzeichen Test Mark:


Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111275870

Geprüft nach Tested according to:

EN 60127-1:2006+A1+A2
EN 60127-7:2016
IEC 60127-1:2006+A1+A2
IEC 60127-7:2015

Geräteidentifikation
Product Identification

Produkt: Fuse Link (Miniature Fuse-links)

Product:

Modell: Modelle sind auf nächste(r) Seite(n) gelistet

Type: Type designation(s) are listed on the next page(s)

Technische Daten: Rated Voltage (Un) : AC 125V/250V/300V/350V/400V

Technical Data: Rated Current (In) : 12A, 12.5A, 15A, 16A, 20A

Time/Current Characteristic: 2.1In:≤300s, 2.75In:400ms-10s
4In:150ms-3s, 10In:20ms-150ms

Rated Breaking Capacity : 200A @ AC 250V (only for 20A)
160A @ AC 125V/250V
100A @ AC 300V
50A @ AC 350V/400V

Dimension : 8.4mmx4.1mmx8.4mm with pigtail

Gültig ab: 2023-11-20

Valid from:

Zertifizierungsstelle:

Certification body:

Ausstellungsdatum: 2023-11-20

Date of issue:

Audrey Wang



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

<http://www.tuv.com/safety> E-mail: markcheck@tuv.com

Fax: +49 221 806-3935

Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*

R 50604490 0001

Berichtsnummer *Report No.:*

CN23B3HY 001

Produkt *Product:*

Fuse Link
(Miniature Fuse-links)

Modell *Type:*

Bezeichnung *Designation:*
2010

Trademark

: Walter(Logo)

Remark:

The labelling requirements acc. to EU Directive
2001/95 have to be observed for distribution within the EEA.

ANLAGE (Appendix): 1





产品认证证书

证书编号: CQC20012271742

发证日期: 2023 年 07 月 31 日
有效期至: 2028 年 07 月 30 日

委托人名称 苏州华德电子有限公司
及注册地址 江苏省吴江市汾湖经济技术开发区(芦墟)

制造商名称 苏州华德电子有限公司
及注册地址 江苏省吴江市汾湖经济技术开发区(芦墟)

生产企业名称 苏州华德电子有限公司
及生产地址 江苏省吴江汾湖经济开发区新黎路 99 号

产品名称和系列、规格、型号 特殊应用的小型熔断体
2010 1A a.c. 300V、2010 1.25A a.c. 300V、2010 1.6A a.c. 300V、2010 2A a.c. 300V、2010 2.5A a.c. 300V、2010 3.15A a.c. 300V、2010 4A a.c. 300V、2010 5A a.c. 300V、2010 6.3A a.c. 300V、2010 8A a.c. 300V、2010 10A a.c. 300V(额定分断能力: 1A、1.25A、1.6A、2A、2.5A、3.15A、4A、5A: 50A, 6.3A、8A、10A: 100A; 主要尺寸:8.4mm×8.4mm×4.1mm)

产品标准和技术要求 GB/T 9364.1-2015;GB/T 9364.7-2016

认证模式 产品型式试验+初次工厂检查+获证后监督

上述产品符合 CQC11-462125-2018 认证规则的要求, 特发此证。
本证书为变更证书, 证书首次颁发日期: 2020 年 10 月 29 日
证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

可通过扫描下方二维码或登录国家认监委网站 (www.cnca.gov.cn) 查验证书信息



签发:

谢肇煦



中国质量认证中心



<http://www.cqc.com.cn>

中国·北京·南四环西路188号9区 100070

电话: +86 10 83886666

C 0559320



CERTIFICATE OF PRODUCT CERTIFICATION

CERTIFICATE NO.: CQC20012271742

Valid from: Jul.31,2023

Valid until:Jul.30,2028

NAME AND REGISTERED
ADDRESS OF THE APPLICANT

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu

NAME AND REGISTERED
ADDRESS OF THE
MANUFACTURER

Suzhou Walter Electronic Co., Ltd.
Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu

NAME AND LOCATION
OF THE FACTORY

Suzhou Walter Electronic Co., Ltd.
South of Xinli Road, Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu

PRODUCT NAME, MODEL
AND SPECIFICATION

Miniature Fuse-links for Special applications
2010 1A a.c. 300V、2010 1.25A a.c. 300V、2010 1.6A a.c. 300V、2010 2A a.c. 300V、2010 2.5A a.c.
300V、2010 3.15A a.c. 300V、2010 4A a.c. 300V、2010 5A a.c. 300V、2010 6.3A a.c. 300V、2010 8A
a.c. 300V、2010 10A a.c. 300V(额定分断能力: 1A、1.25A、1.6A、2A、2.5A、3.15A、4A、5A: 50A,
6.3A、8A、10A: 100A; 主要尺寸:8.4mm×8.4mm×4.1mm)

THE STANDARDS AND
TECHNICAL REQUIREMENTS
FOR THE PRODUCTS

GB/T 9364.1-2015;GB/T 9364.7-2016

TYPE OF CERTIFICATION
SCHEMES

Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC11-462125-2018.

Date of original issued: Oct.29,2020

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: www.cnca.gov.cn



SIGNATURE:

谢肇煦

CHINA QUALITY CERTIFICATION CENTRE



<http://www.cqc.com.cn>

Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R. China

Tel: +86 10 83886666

C 0559320

適 合 同 等 証 明 書

Statement of Conformity Assessment

電気用品安全法第8条第1項に規定する技術基準及び同法第9条第2項の経済産業省令で定める基準（法第9条第1項第2号に係る検査に係るものに限る）に適合していることを証明します

I hereby certify that the product mentioned below complies with the technical requirements stipulated in Paragraph 1 of Article 8 of Electrical Appliances and Materials Safety Act (here under referred to as the Act) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Act (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Act).

1. 証明書番号: J E T 2 1 7 9 - 3 1 0 0 7 - 1 0 0 3
Statement Number
2. 交付年月日: 2019年11月18日
Effective Date November 18, 2019
3. 有効年月日: 2026年11月17日
Date of Validity November 17, 2026
4. 申込者名 (Applicant)
住所: FENHU TECHNIC DEVELOPMENT ZONE WUJIANG, JIANGSU PROVINCE, CHINA
Address

氏名又は名称: SUZHOU WALTER ELECTRONIC CO., LTD.
Name

5. 特定電気用品名: その他の包装ヒューズ
Name of Product Other enclosed fuses
6. 型式の区分: 別紙のとおり
Type Classification See attached "Type Classification"
7. 製造工場名 (Manufacturer)
住所: FENHU TECHNIC DEVELOPMENT ZONE WUJIANG, JIANGSU PROVINCE, CHINA
Address

氏名又は名称: SUZHOU WALTER ELECTRONIC CO., LTD.
Name

8. 適用試験規格: 電気用品の技術上の基準を定める省令の解釈
Applied Standard for Testing Description of the technical requirements by the METI Ordinance
別表第三 2

Appendix 3 Section 2

9. 適合性検査の方法: (Testing Method for Conformity Assessment)
 - 1) 試験用の特定電気用品については、電気用品の技術上の基準を定める省令の解釈に定める方法
With respect to testing for Category A products, the testing method is based on the technical requirements of the description of Electrical Appliances and Materials stipulated in the METI Ordinance.
 - 2) 当該特定電気用品に係る届出事業者又は事業場における検査設備については、電気用品安全法施行規則別表第四の検査設備の欄に掲げる検査設備ごとにそれぞれ同表の技術上の基準の欄に掲げる方法
With respect to inspection facilities required for Category A products at the factory, Testing Method described in the column of the technical requirements for each inspection facilities in the column of inspection facilities is shown in the Appendix 4 of Enforcement Regulations of the Act.

10. 注意事項

- 1) この適合同等証明書は、提出された試験用の電気用品に関して評価を行った上で交付したものであり、同一の型式の区分にある電気用品について電気用品安全法第8条1項に規定する技術基準適合確認の義務を履行したことを示すものではありません。

This Statement of Conformity Assessment, which is issued on the evaluation of the submitted test-use Electrical Appliances and Materials, does not signify that the Obligation to Comply with Requirements, which is prescribed at Paragraph 1 of Article 8 of the Act, is fulfilled on Electrical Appliances and Materials in the same Type Classification.

- 2) この適合同等証明書は、別紙に記載されている型式の区分の範囲内及び区分の組み合わせについてのみ有効です。

This Statement of Conformity Assessment is valid only for Electrical Appliances and Materials within the Type Classifications and their combination as stated in the attached "Type Classification".

一般財団法人 電気安全環境研究所
Japan Electrical Safety & Environment technology Laboratories (JET)

理事長 薦田 康久
President Yasuhisa Komoda

東京都渋谷区代々木5-14-12
(5-14-12, Yoyogi, Shibuya-ku, Tokyo, Japan)

証明書番号: JET2179-31007-1003

適合同等証明書別紙

Statement of Conformity Assessment

型式の区分

Type Classification

要素 Factor	区分 Classification
定格電圧 Rated voltage	(2) 125Vを超えるもの Exceeding 125V
定格電流（定格電流表示のあるものの場合に限る。） Rated current (limited to those with rated current markings)	(1) 5 A以下のもの 5A or less
適用電動機の定格容量（定格電流表示のないものの場合に限る。） Rated capacity of applicable motor (limited to those without rated current markings)	—
可溶体の主材料 Fuse element materials	(5) 銅のもの Copper
可溶体の数 Number of fuse elements	(1) 1のもの One
再使用（管形ヒューズを除く。） Reusability (excluding cartridge fuses)	(2) できないもの Not reusable
内部充てん物 Filler materials	(1) あるもの With filler materials
筒（内筒を除く。）の材料 Outer cartridge materials	(7) その他のもの Others
端子 Terminals	(5) その他のもの Others
排気孔 Exhausting opening	(2) ないもの Without exhausting opening
溶断の表示 Blowout fuse indicator	(2) ないもの Without blowout fuse indicator
用途 Application	(2) 電子機器用のもの For use in electric appliances
定格遮断電流 Rated breaking capacity	(1) 100 A以下のもの 100A or less

証明書番号：JET2179-31007-1003

適合同等証明書

Statement of Conformity Assessment

電気用品安全法第8条第1項に規定する技術基準及び同法第9条第2項の経済産業省令で定める基準（法第9条第1項第2号に係る検査に係るものに限る）に適合していることを証明します

I hereby certify that the product mentioned below complies with the technical requirements stipulated in Paragraph 1 of Article 8 of Electrical Appliances and Materials Safety Act (here under referred to as the Act) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Act (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Act).

1. 証明書番号: J E T 2 1 7 9 - 3 1 0 0 7 - 1 0 0 4
Statement Number
2. 交付年月日: 2019年11月18日
Effective Date November 18, 2019
3. 有効年月日: 2026年11月17日
Date of Validity November 17, 2026
4. 申込者名 (Applicant)
住所: FENHU TECHNIC DEVELOPMENT ZONE WUJIANG, JIANGSU PROVINCE, CHINA
Address

氏名又は名称: SUZHOU WALTER ELECTRONIC CO., LTD.
Name

5. 特定電気用品名: その他の包装ヒューズ
Name of Product Other enclosed fuses
6. 型式の区分: 別紙のとおり
Type Classification See attached "Type Classification"
7. 製造工場名 (Manufacturer)
住所: FENHU TECHNIC DEVELOPMENT ZONE WUJIANG, JIANGSU PROVINCE, CHINA
Address

氏名又は名称: SUZHOU WALTER ELECTRONIC CO., LTD.
Name

8. 適用試験規格: 電気用品の技術上の基準を定める省令の解釈
Applied Standard for Testing Description of the technical requirements by the METI Ordinance
別表第三 2

Appendix 3 Section 2

9. 適合性検査の方法: (Testing Method for Conformity Assessment)
 - 1) 試験用の特定電気用品については、電気用品の技術上の基準を定める省令の解釈に定める方法

With respect to testing for Category A products, the testing method is based on the technical requirements of the description of Electrical Appliances and Materials stipulated in the METI Ordinance.

- 2) 当該特定電気用品に係る届出事業者又は事業場における検査設備については、電気用品安全法施行規則別表第四の検査設備の欄に掲げる検査設備ごとにそれぞれ同表の技術上の基準の欄に掲げる方法

With respect to inspection facilities required for Category A products at the factory, Testing Method described in the column of the technical requirements for each inspection facilities in the column of inspection facilities is shown in the Appendix 4 of Enforcement Regulations of the Act.

10. 注意事項

- 1) この適合同等証明書は、提出された試験用の電気用品に関して評価を行った上で交付したものであり、同一の型式の区分にある電気用品について電気用品安全法第8条1項に規定する技術基準適合確認の義務を履行したことを示すものではありません。

This Statement of Conformity Assessment, which is issued on the evaluation of the submitted test-use Electrical Appliances and Materials, does not signify that the Obligation to Comply with Requirements, which is prescribed at Paragraph 1 of Article 8 of the Act, is fulfilled on Electrical Appliances and Materials in the same Type Classification.

- 2) この適合同等証明書は、別紙に記載されている型式の区分の範囲内及び区分の組み合わせについてのみ有効です。

This Statement of Conformity Assessment is valid only for Electrical Appliances and Materials within the Type Classifications and their combination as stated in the attached "Type Classification".

一般財団法人 電気安全環境研究所
Japan Electrical Safety & Environment Technology Laboratories (JET)

理事長 薦田 康久
President Yasuhisa Komoda

東京都渋谷区代々木5-14-12
(5-14-12, Yoyogi, Shibuya-ku, Tokyo, Japan)

証明書番号: JET2179-31007-1004

適合同等証明書別紙

Statement of Conformity Assessment

型式の区分

Type Classification

要素 Factor	区分 Classification
定格電圧 Rated voltage	(2) 125Vを超えるもの Exceeding 125V
定格電流（定格電流表示のあるものの場合に限る。） Rated current (limited to those with rated current markings)	(2) 5 Aを超え15 A以下のもの Exceeding 5A, and less than or equal to 15A
適用電動機の定格容量（定格電流表示のないものの場合に限る。） Rated capacity of applicable motor (limited to those without rated current markings)	—
可溶体の主材料 Fuse element materials	(5) 銅のもの Copper
可溶体の数 Number of fuse elements	(1) 1のもの One
再使用（管形ヒューズを除く。） Reusability (excluding cartridge fuses)	(2) できないもの Not reusable
内部充てん物 Filler materials	(1) あるもの With filler materials
筒（内筒を除く。）の材料 Outer cartridge materials	(7) その他のもの Others
端子 Terminals	(5) その他のもの Others
排気孔 Exhausting opening	(2) ないもの Without exhausting opening
溶断の表示 Blowout fuse indicator	(2) ないもの Without blowout fuse indicator
用途 Application	(2) 電子機器用のもの For use in electric appliances
定格遮断電流 Rated breaking capacity	(1) 100 A以下のもの 100A or less

証明書番号：JET 2179-31007-1004

접 수 번 호 : 22-056572-10-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SU05015-12004A
(Certificate No.)

제 조 업 자/수 입 업 자 명 : Suzhou Walter Electronic Co., Ltd.
(Manufacturer/importer)

주 소 : Fenhui, Technic Development Zone, Luxu Wu Jiang, Jiangsu, China
(Address)

제 품 명 : 퓨즈(Sub-miniature fuse-links)
(Product)

기 본 모 델 명 : 2010 100mA 300V
(Basic Model)

파 생 모 델 명 : Not Applicable
(Series Model)

정 격/안전기준상의 모델구분 : T100mA 300Vac
(Rating)

시 험 기 준 : K60127-1(2011-12), K60127-3(2006-07)
(Standard)

본 인증서는 제 조 국 명 : 중국
제 조 업 자 명 : Suzhou Walter Electronic Co., Ltd.
제조공장의 주소 : Fenhui, Technic Development Zone, Luxu Wu Jiang, Jiangsu, China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2022 년 09 월 15 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY



※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)

접 수 번 호 : 22-056572-11-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SU05015-12005A
(Certificate No.)

제 조 업 자/수 입 업 자 명 : Suzhou Walter Electronic Co., Ltd.
(Manufacturer/importer)

주 소 : Fenhui, Technic Development Zone, Luxu Wu Jiang, Jiangsu, China
(Address)

제 품 명 : 퓨즈(Sub-miniature fuse-links)
(Product)

기 본 모 델 명 : 2010 800mA 300V
(Basic Model)

파 생 모 델 명 : See the attachment 2
(Series Model)

정 격/안전기준상의 모델구분 : T800mA 300Vac
(Rating)

시 험 기 준 : K60127-1(2011-12), K60127-3(2006-07)
(Standard)

본 인증서는 제 조 국 명 : 중국
제 조 업 자 명 : Suzhou Walter Electronic Co., Ltd.
제조공장의 주소 : Fenhui, Technic Development Zone, Luxu Wu Jiang, Jiangsu, China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4),10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2022 년 09 월 15 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY



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첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)

□ 첨부 2 : 기본모델 · 파생모델의 내용
Description of the basic and series model

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
2010 125mA 300V	Rated current(125mA) is different
2010 160mA 300V	Rated current(160mA) is different
2010 200mA 300V	Rated current(200mA) is different
2010 250mA 300V	Rated current(250mA) is different
2010 315mA 300V	Rated current(315mA) is different
2010 400mA 300V	Rated current(400mA) is different
2010 500mA 300V	Rated current(500mA) is different
2010 630mA 300V	Rated current(630mA) is different
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test Report Ref. No. : 12-1920-0347 (2012.02.14.) 2. Product Description - 800mA 300Vac - Breaking capacity : 50A - Time lag type, Low-breaking capacity - Standard sheet 4 □ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 / 연락처 : 고객지원본부 인증융합평가센터 신 종욱 / 02-8601-1437 □ If you have any question on product review, please contact the person below : Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.U.Shin / +82 2 860-1437	

FP511-05

접 수 번 호 : 22-056572-07-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SU05015-12001A
(Certificate No.)

제 조 업 자/수 입 업 자 명 : Suzhou Walter Electronic Co., Ltd.
(Manufacturer/importer)

주 소 : Fenhui, Technic Development Zone, Luxu Wu Jiang, Jiangsu, China
(Address)

제 품 명 : 퓨즈(Sub-miniature fuse-links)
(Product)

기 본 모 델 명 : 2010 2.5A 300V
(Basic Model)

파 생 모 델 명 : See the attachment 2
(Series Model)

정 격/안전기준상의 모델구분 : T2.5A 300Vac
(Rating)

시 험 기 준 : K60127-1(2011-12), K60127-3(2006-07)
(Standard)

본 인증서는 제 조 국 명 : 중국
제 조 업 자 명 : Suzhou Walter Electronic Co., Ltd.
제조공장의 주소 : Fenhui, Technic Development Zone, Luxu Wu Jiang, Jiangsu, China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4),10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2022 년 09 월 15 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY



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첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)

☐ **첨부 2 : 기본모델 · 파생모델의 내용**
Description of the basic and series model

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
2010 1A 300V	Rated current(1A) is different
2010 1.25A 300V	Rated current(1.25A) is different
2010 1.6A 300V	Rated current(1.6A) is different
2010 2A 300V	Rated current(2A) is different
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test Report Ref. No. : 12-1920-0339 (2012.02.14.) 2. Product Description - 2.5A 300Vac - Breaking capacity : 50A - Time lag type, Low-breaking capacity - Standard sheet 4	
□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 / 연락처 : 고객지원본부 인증융합평가센터 신 종욱 / 02-8601-1437 □ <i>If you have any question on product review, please contact the person below :</i> <i>Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.U.Shin / +82 2 860-1437</i>	

FP511-05

☐ **첨부 3 : 안전인증의 변경 현황**
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Reissue certificate due to loss of certificate (22-056572-07-1 : 2022.09.15.)

FP511-06

접 수 번 호 : 22-056572-09-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SU05015-12003A
(Certificate No.)

제 조 업 자/수 입 업 자 명 : Suzhou Walter Electronic Co., Ltd.
(Manufacturer/importer)

주 소 : Fenhui, Technic Development Zone, Luxu Wu Jiang, Jiangsu, China
(Address)

제 품 명 : 퓨즈(Sub-miniature fuse-links)
(Product)

기 본 모 델 명 : 2010 6.3A 300V
(Basic Model)

파 생 모 델 명 : 2010 3.15A 300V, 2010 4A 300V, 2010 5A 300V
(Series Model)

정격/안전기준상의 모델구분 : T6.3A 300Vac
(Rating)

시 험 기 준 : K60127-1(2011-12), K60127-3(2006-07)
(Standard)

본 인증서는 제 조 국 명 : 중국
제 조 업 자 명 : Suzhou Walter Electronic Co., Ltd.
제조공장의 주소 : Fenhui, Technic Development Zone, Luxu Wu Jiang, Jiangsu, China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4),10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2022 년 09 월 15 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY



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첨부서류

1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 안전인증의 변경 현황 (Revisions Status)

☐ **첨부 2 : 기본모델 · 파생모델의 내용**
Description of the basic and series model

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
2010 3.15A 300V	Rated current(3.15A) and Breaking capacity(50A) are different
2010 4A 300V	Rated current(4A) and Breaking capacity(50A) are different
2010 5A 300V	Rated current(5A) and Breaking capacity(50A) are different
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test Report Ref. No. : 12-1920-0343 (2012.02.14.) 2. Product Description - 6.3A 300Vac - Breaking capacity : 63A - Time lag type, Low-breaking capacity - Standard sheet 4	
□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 / 연락처 : 고객지원본부 인증융합평가센터 신 종욱 / 02-8601-1437 □ <i>If you have any question on product review, please contact the person below :</i> <i>Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.U.Shin / +82 2 860-1437</i>	

FP511-05

☐ **첨부 3 : 안전인증의 변경 현황**
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Reissue certificate due to loss of certificate (22-056572-09-1 : 2022.09.15.)

FP511-06