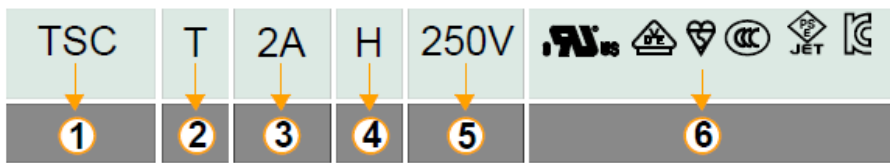


1. 適用範圍 / SCOPE

TSC 系列小型保險絲，適用於一般電子設備。
TSC series Miniature-Fuse，used in electronic equipment.

2. 產品型號 / TYPE

例「example」：



- ① 系列號 / Series Number
- ② 特性符號 / Characteristic Symbol
- ③ 額定電流 / Rated Current
- ④ 斷路容量符號 / Breaking Capacity Symbol
- ⑤ 額定電壓 / Rated Voltage
- ⑥ 認證符號 / Approved Symbol

3. 額定電流和額定電壓/ RATED CURRENT AND RATED VOLTAGE

額定電流 / Rated Current:

200mA~20A

額定電壓 / Rated Voltage:

250VAC

4. 標示 / MARKING

保險絲兩端銅帽上需有下列標示/The fuses cap shall have the following marking



①規 格：製造工廠的商標+額定電流+額定電壓







Specification：The Manufacture's Logo + Rated Current + Rated Voltage




200mA~800mA:  T__mA H 250 V
1A~20A:  T__A H 250 V





②系列號+認證符號




Trade mark：Part Number + Approved Symbol.



200mA~800mA(250V): TSC  

1A ~ 6.3A(250V): TSC      

8A、10A(250V): TSC   

12.5A(250V): TSC    

12A、15A(250V): TSC   

16A、20A(250V): TSC  

注意 / Note:

對標示的大小和位置沒有規定 / Size and position of the markings shall not be provided.

5. 外觀及形狀 / APPEARANCES AND CONFIGURATION

5-1 外觀：不應有破碎、明顯的汙斑。

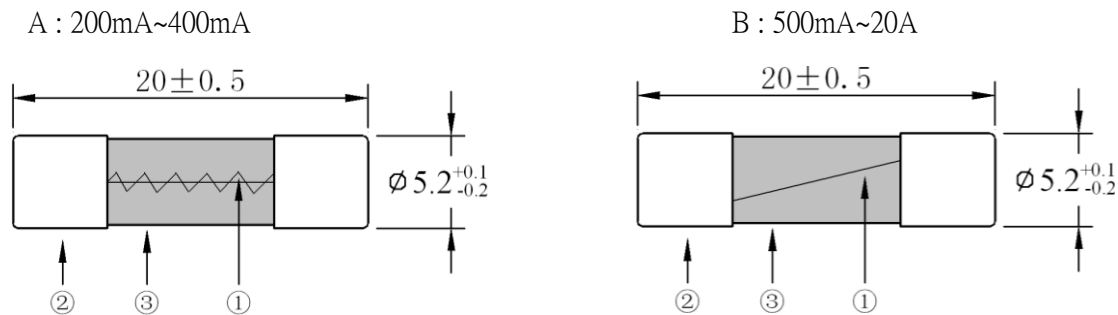
Appearances: There shall not be break up and any remarkable blotch.

5-2 形狀：小型保險絲。

Configuration: Miniature-Fuse.

6. 工程圖和結構 / OUTLINE DRAWING AND STRUCTURE

6-1 工程圖（單位：mm） / Outline Drawing and Dimensions (Unit: mm)



6-2 結構 / Structure

編號 No.	元件 Component	材質 Material	數量 Quantity
①	熔絲 Wire	合金 Alloy	1
②	銅帽 Cap	黃銅鍍鎳 Brass with nickel plated	2
③	本體 Body	陶瓷管 Ceramic Tube	1
④	填充物 Filler	石英砂 Quartz sand	

7. 產品特性 / PRODUCT CHARACTERISTICS

7-1 拉力測試/Tensile test

軸向拉力 5 牛頓，持續 60 秒/Pulling the cap of the fuse with 5 N at axial direction keep 60 sec.

7-2 推力測試/Thrust test

軸向推力 2 牛頓，持續 10±1 秒/Thrust two cap's bottom of the fuse with 2N at axial direction keep 10±1sec.

8. 電氣特性 / ELECTRICAL CHARACTERISTICS

8-1 熔斷 / 電流特性：Pre-Arcing Time / Current Characteristic (limits)

RATED CURRENT	2.1 In	2.75 In		4 In		10 In	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.
200mA to 800mA	30 min	250 ms	80 s	50ms	5 s	5 ms	150 ms
Above 800mA to 3.15A	30 min	750 ms	80 s	95 ms	5 s	10 ms	150 ms
Above 3.15A to 20A	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms

9. 環境特性 / ENVIRONMENTAL CHARACTERISTIC

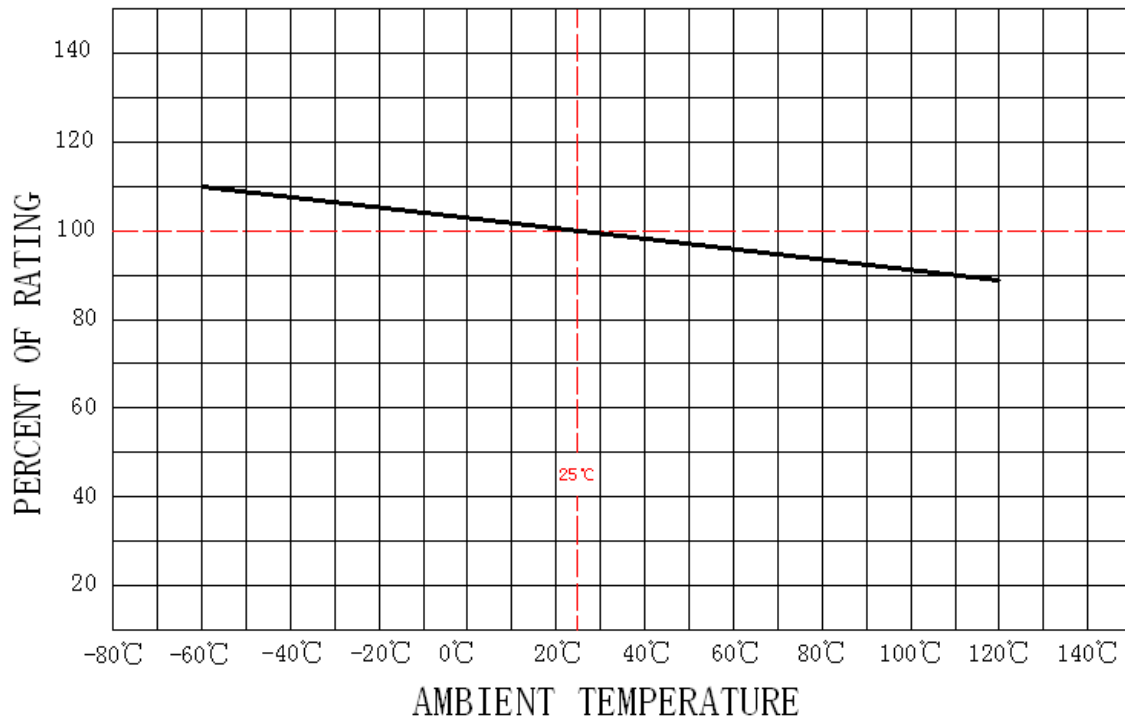
9-1 操作溫度範圍: -55°C ~ 125°C / Operating Temperature: -55°C ~ 125°C

若貴司操作環境溫度超出25±5°C範圍，在選用保險絲規格時，需考慮操作環境溫度對保險絲的影響。
 請參照：溫度-電流曲線圖。

When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.

Please refer:

Temperature-Current curve:



9-2 存儲條件 / Storage Conditions

在溫度+10°C ~ 60°C、相對濕度 ≤ 75%的密閉條件下可存放 3 年。

Under airtight in temperature+10°C ~ 60°C、relative humidity ≤ 75% can store 3 years.

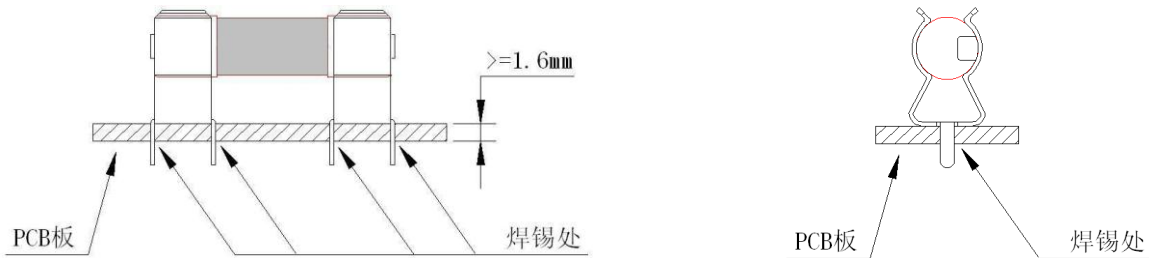
在溫度+10°C ~ 60°C、相對濕度為 95%的非露天下最多可存放 30 天。

Without dew in temperature+10°C ~ 60°C、relative humidity be 95% maximum value for 30days.

10. 安裝方式及條件 / INSTALLATION WAY AND PARAMETERS

10-1 建議如下圖安裝方式安裝，並滿足所要求的尺寸。

Propose that the following picture installation way is installed, and satisfied the required size.



10-2 建議客戶焊接參數 / Recommended Customer Soldering Parameters

波峰焊參數 / Wave Parameters:

錫爐溫度 / Solder Pot Temperature:

260°C Max

焊接時間 / Solder Dwell Time:

2~5s

手工焊參數 / Hand-Solder Parameters:

烙鐵溫度 / Solder Iron Temperature:

350±5°C

焊接時間 / Heating Time:

5 s Max.

11.其他使用注意事項 / OTHER NOTICE IN USED

如果需在保險絲上加熱縮套管，烘烤溫度與時間需參照以下規定

If need to add heat draws back the sleeve pipe on the fuse, it needs to consult the following regulation to toast temperature and time

溫度 temperature	120°C	130°C	140°C	150°C	160°C	170°C	180°C
時間 time	Max 80s	Max 75s	Max 70s	Max 65s	Max 60s	Max 55s	Max 50s

12.安全認證及編號 / STANDARDS AND APPROVALS

UL	E56092(200mA~20A)
VDE	40016670(200mA~10A 250V) 40026062(12A~15A 250V)
TUV	R50314175 (12.5A、16A、20A / 250V)
BSI	KM70911(1A~6.3A 250V)
CCC	2002010207006694(1A~6.3A 250V)
CQC	CQC10012041025(12.5A 250V)
PSE	JET2179-31003-2005(1A~5A 250V) JET2179-31003-2008 (5.1A~15A 250V)
KC	SU05015-5002 (1A~2.5A 250V) SU05015-5001(3.15A~6.3A 250V)

13.包裝 / PACKING

13-1 包裝數量 / Packing Quantity

A：每內盒裝 1000 個保險絲。

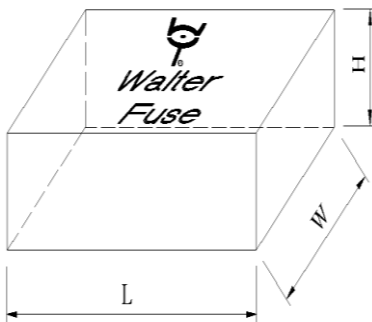
1000pcs per inner box .

B：每外箱裝 10 內盒保險絲。

10 inner boxes per outer box .

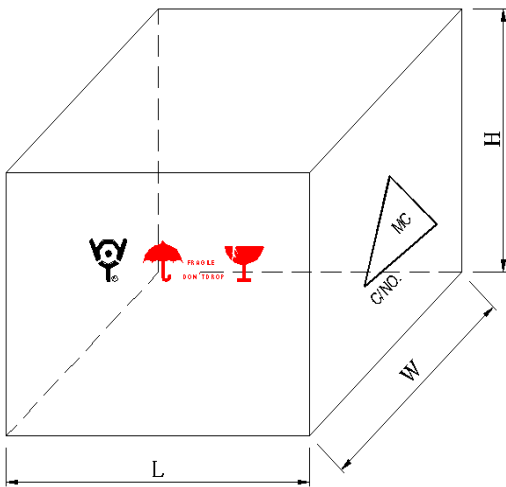
13-2 內包裝盒/Inner box of packing

單位/Unit : mm



L	W	H
157±3	127±3	84±2

13-3 外包裝箱/Outer box of packing



單位/Unit : mm

L	W	H
270±5	445±5	190±5

14.其他 / OTHERS

14-1 如果在使用中有超出本規格書的要求，必須經由雙方協商確認。

In the event that an impropriety is found beyond this specification, it shall be fixed by mutual agreement between the parties.

14-2 如果本規格書有不適當的情況，必須通過雙方協商並由本公司修改。

In the event that an impropriety is found in this specification, WALTER ELECTRONIC CO., LTD. shall amend it by mutual agreement between the parties.

版次	製作	確認	審核
第十一版	饒紅	蔡明威	郭硯玲



UL iQ for Fuses



Fuses

E56092

Guide Information

SUZHOU WALTER ELECTRONIC CO LTD

Fenhu Technic Development Zone, Wujiang Jiangsu 215211 CN

TSC

Supplemental fuses: filled-tube, cartridge enclosed

<u>Size</u> <u>mm(in)</u>	<u>Amps</u> <u>(A)</u>	<u>Volts</u> <u>(V)</u>	<u>Interrupting</u> <u>Rating (A)</u>
5 x 20 (0.20 x 0.79)	0.2 - 6.3	250Vac	1500
	0.2 - 6.3	125Vac	10000
	0.2 - 6.3	125Vdc	35
	8 - 10	250Vac	1500
	12 - 20	250Vac	1500

Report Date: 1997-04-04

Last Revised: 2018-09-04

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ZEICHENGENEHMIGUNG MARKS APPROVAL

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

Geräteschutzsicherung
Miniature fuse

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: 5000410-1170-0029 / 253503

File ref.:

Ausweis-Nr. 40016670

Blatt 1

Certificate No.

Page

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

Offenbach, 2006-01-30

(letzte Änderung / updated 2018-12-07)

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VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

R. Nickel

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

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Jiangsu, CHINA

Aktenzeichen / *File ref.*

5000410-1170-0029 / 253503 / TL3 / EUL

letzte Änderung / *updated*

2018-12-07

Datum / *Date*

2006-01-30

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40016670.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40016670.

Geräteschutzsicherung

Miniature fuse

Typ(en) / *Type(s)*

TSC

TSC+P

Bemessungsspannung
Rated voltage

AC 250 V

Bemessungsstrom
Rated current

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; 8 A; 10 A

Normblatt

Standard sheet

5

Kennzeichnung der Charakteristik
Characteristic symbol

T

Maße in mm

Dimension in mm

5 x 20

Kennzeichnung des Ausschaltvermögens
Breaking capacity symbol

H

Bemessungsausschaltvermögen
Rated breaking capacity

1500 A

Zeit/Strom-Charakteristik
Time/current-characteristic

träge
time-lag

Anmerkung

wahlweise mit Drahtanschlüssen:

Version mit doppelter Endkappe
(alle Bemessungsströme)

Version mit einfacher Endkappe
(1 A; 1,25 A; 1,6 A; 2 A; 2,5 A; 3,15 A; 4A; 5 A; 6,3 A)

Remark

optional with lead wires (pigtails):

*Version with double-endcap
(all rated currents)*

*Version with single-endcap
(1 A; 1,25 A; 1,6 A; 2 A; 2,5 A; 3,15 A; 4A; 5 A; 6,3 A)*

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. / Page
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Aktenzeichen / *File ref.*

5000410-1170-0029 / 253503 / TL3 / EUL

letzte Änderung / *updated*

2018-12-07

Datum / *Date*

2006-01-30

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40016670.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40016670.

Weitere Angaben

Siehe Anlage 1 vom 2012-08-13

Siehe Anlage 2 vom 2012-11-27

Further information

See appendix 1 dated 2012-08-13

See appendix 2 dated 2012-11-27

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
40016670

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5000410-1170-0029 / 253503 / TL3 / EUL

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2018-12-07

Datum / *Date*

2006-01-30

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40016670.

This supplement is part of the Certificate No. 40016670.

Geräteschutzsicherung

Miniature fuse

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/*Reference*

30006375

Dongguan Walter Electric Co., Ltd.

Yan Tian, Feng Gang Town

523702 DONGGUAN CITY

Guangdong

CHINA

Referenz/*Reference*

30011941

Suzhou Walter Electronic

Co. Ltd.

Fenu Technic Development Zone

215211 LUXU TOWN, WUJIANG CITY

Jiangsu

CHINA

VDE Prüf- und Zertifizierungsinstitut GmbH

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5000410-1170-0029 / 253503 / TL3 / EUL

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2018-12-07

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2006-01-30

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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.

GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

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215211 LUXU TOWN, WUJIANG CITY
Jiangsu
CHINA

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.



REG C956 oder/or



oder/or VDE-REG C956

REG C956

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: 5000410-1170-0022 / 253477

File ref.:

Ausweis-Nr. 40026062

Blatt 1

Certificate No.

Page

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

Offenbach, 2008-12-05

(letzte Änderung / updated 2018-11-28)

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Aktenzeichen / *File ref.*

5000410-1170-0022 / 253477 / TL3 / EUL

letzte Änderung / *updated*

2018-11-28

Datum / *Date*

2008-12-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40026062.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40026062.

G-Sicherungseinsatz Cartridge fuse-link

Typ(en) / *Type(s)*

TSC-Serie(s)

Bemessungsspannung <i>Rated voltage</i>	AC 250 V
Bemessungsstrom <i>Rated current</i>	12 A; 15 A
Normblatt <i>Standard sheet</i>	5
Kennzeichnung der Charakteristik <i>Characteristic symbol</i>	T
Maße in mm <i>Dimension in mm</i>	5 x 20
Kennzeichnung des Ausschaltvermögens <i>Breaking capacity symbol</i>	H
Bemessungsausschaltvermögen <i>Rated breaking capacity</i>	1500 A
Zeit/Strom-Charakteristik <i>Time/current-characteristic</i>	träge <i>time-lag</i>

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

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2018-11-28

Datum / *Date*

2008-12-05

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This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40026062.

Anmerkung

Die Prüfspannung in Abschnitt 9.2 war DC 125 V.
Wahlweise mit Drahtanschlüssen.
Die Anforderungen für 12 A und 15 A waren die gleichen
wie für 10 A (höchster Bemessungsstrom des Normblatts).

Remark

*The test voltage in clause 9.2 was DC 125 V.
Optional with lead wires (pigtailed).
The requirements for 12 A and 15 A were the same
as for 10 A (highest rating in standard sheet).*

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 Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40026062

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Aktenzeichen / *File ref.*

5000410-1170-0022 / 253477 / TL3 / EUL

letzte Änderung / *updated*

2018-11-28

Datum / *Date*

2008-12-05

Dieses Beiblatt ist Bestandteil des Gutachtens mit Fertigungsüberwachung Nr. 40026062.

This supplement is part of the Certificate of Conformity with factory surveillance No. 40026062.

G-Sicherungseinsatz Cartridge fuse-link

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/*Reference*
30006375

Dongguan Walter Electric Co., Ltd.
Yan Tian, Feng Gang Town
523702 DONGGUAN CITY
Guangdong
CHINA

Referenz/*Reference*
30011941

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

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



VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Infoblatt /
Certificate No. / Info sheet
40026062

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

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

Aktenzeichen / File ref.

5000410-1170-0022 / 253477 / TL3 / EUL

letzte Änderung / updated

2018-11-28

Datum / Date

2008-12-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40026062.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40026062.

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.

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50314175

Blatt *Page*
0001

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*

Ausstellungsdatum

Date of Issue
(day/mo/yr)

05-YFC- 16069077 001

26.06.2015

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*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 2000000000

Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1

EN 60127-7:2013

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Fuse Link (Miniature fuse-links)

Type Designation : TSC
Trademark : Walter(Logo) Walter
Rated Voltage : AC 250V
Rated Current : 12,5A
T/I Characteristic : t2=30min; t3=750ms; t4=80s;
t5=95ms; t6=5s; t7=10ms; t8=150ms
Rated Breaking Capacity : 1500A

5

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.

5

ANLAGE (Appendix): 1

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

Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com

Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

G. Yin

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50314175

Blatt Page
0002

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Ausstellungsdatum	Date of Issue (day/mo/yr)
	05-YFC- 16069077 002	01.06.2016	

Genehmigungsinhaber License Holder	Fertigungsstätte Manufacturing Plant
Walter Electronic Co., Ltd. 2nd FL. 97 Chung King N RD., Sec. 4 Taipei Taiwan	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 2000000000

Geprüft nach Tested acc. to

EN 60127-1:2006+A1
EN 60127-7:2013

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Fuse Link (Miniature fuse-links)

as page 0001

Addition

Name of the Factory : see above
Address of the Factory : see above

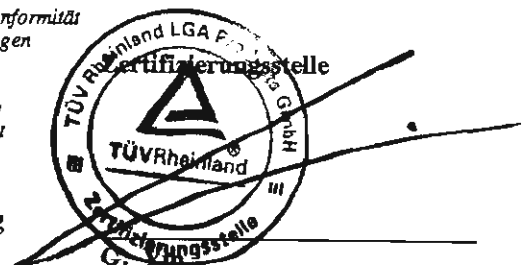
Remark :

- 1) Adding a construction (details see appendix 1.1).
- 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.

ANLAGE (Appendix): 1.1

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
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50314175

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0003

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i> (day/mo/yr)
	05-YFC- 16069077 003	22.06.2017	

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 60127-7:2016

Zertifiziertes Produkt *(Geräteidentifikation)*
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Fuse Link (Miniature fuse-links)

as page 0001-0002

Change

Test Requirement : see above

Remark :

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

*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
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50314175

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0004

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Ausstellungsdatum Date of Issue (day/mo/yr)
	05-YFC- 16069077 004	17.07.2018

Genehmigungsinhaber License Holder	Fertigungsstätte Manufacturing Plant
Suzhou Walter Electronic Co., Ltd. Fenhu Technic Development Zone, Luxu Wujiang City, Jiangsu P. R. China	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 60127-7:2016

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Fuse Link (Miniature fuse-links)

as pages 0001-0003

Change

Name and Address of License Holder : see above

Remark :

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

ANLAGE (Appendix): 1.2

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
Tel.: (+49/221) 8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221) 8 06 - 39 35 http://www.tuv.com/safety



Zertifikat *Certificate*



Zertifikat Nr. *Certificate No.*
R 50314175

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0005

<i>Ihr Zeichen Client Reference</i>	<i>Unser Zeichen Our Reference</i>	<i>Ausstellungsdatum</i>	<i>Date of Issue</i> (day/month/yr)
	05-YFC- 16069077 005	08.11.2018	

Genehmigungsinhaber *License Holder*

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

Herstellungsstätte *Manufacturing Plant*

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

Prüfzeichen *Test Mark*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 2000000000

Geprüft nach *Tested acc. to*

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

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Fuse Link (Miniature fuse-links)

as pages 0001-0004

Addition

Rated Current : 16A, 20A

Change

T/I Characteristic : $t_5=150\text{ms}$ (see appendix 1.3)

Remark :

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

ANLAGE (Appendix): 1.3

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
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@dc.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Kitemark™ Certificate

This is to certify that:

Suzhou Walter Electronic Co., Ltd
Fenhu Technic Development Zone
Wujiang
Jiang Su Province
China

Holds Certificate Number:

KM 70911

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: 2003-02-21
Latest Issue: 2017-11-02

Effective Date: 2017-11-02
Expiry Date: 2020-11-01



Page: 1 of 6

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Kitemark™ Certificate

No. KM 70911

BS EN 60127-2:2014 (BS EN 60127-1:2006 + A2:2015) Standard Sheet 5 Fuse-links

Type: TSC Time-lag, high breaking capacity		
Type Ref	Rating	Reference Report
TSC	T 1.00 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565
TSC	T 1.25 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565
TSC	T 1.60 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565
TSC	T 2.00 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565
TSC	T 2.50 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565
TSC	T 3.15 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565
TSC	T 4.00 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565
TSC	T 5.00 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565
TSC	T 6.30 A H 250 V	0150176/01 (SE-20052), 2003-0025 & 1979600-1170-0011/166565

First Issued: 2003-02-21
Latest Issue: 2017-11-02

Effective Date: 2017-11-02
Expiry Date: 2020-11-01

Page: 6 of 6

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.



中国国家强制性产品认证证书

证书编号：2002010207006694

委托人名称、地址

苏州华德电子有限公司
江苏省吴江市汾湖经济技术开发区(芦墟)

生产者(制造商)名称、地址

苏州华德电子有限公司
江苏省吴江市汾湖经济技术开发区(芦墟)

生产企业名称、地址

苏州华德电子有限公司
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

管状熔断体

TSC T1AH250V; TSC T1.25AH250V; TSC T1.6AH250V; TSC T2AH250V; TSC T2.5AH250V; TSC T3.15AH250V; TSC T4AH250V; TSC T5AH250V; TSC T6.3AH250V

产品标准和技术要求

GB9364.1-1997; GB/T9364.2-1997

上述产品符合强制性产品认证实施规则 CNCA-C02-01:2014 的要求，特发此证。

发证日期：2018年02月01日 有效期至：2023年02月01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。

本证书为变更证书，证书首次颁发日期：2002年07月26日

本证书的相关信息可通过国家认监委网站 www.cnca.gov.cn 查询



主任：



中国质量认证中心



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2002010207006694

NAME AND ADDRESS OF THE APPLICANT

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

NAME AND ADDRESS OF THE MANUFACTURER

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

NAME AND ADDRESS 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

Cartridge Fuse-link

TSC T1AH250V; TSC T1.25AH250V; TSC T1.6AH250V; TSC T2AH250V; TSC T2.5AH
250V; TSC T3.15AH250V; TSC T4AH250V; TSC T5AH250V; TSC T6.3AH250V

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB9364.1-1997;GB/T9364.2-1997

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO.CNCA-C02-01:2014).

Valid from: Feb.01,2018

Valid until: Feb.01,2023

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

Date of original issued: Jul.26,2002

The certificate information is available through CNCA's website: www.cnca.gov.cn



President:

Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE



产品认证证书

证书编号: CQC10012041025

申请人名称及地址

苏州华德电子有限公司
江苏省吴江市汾湖经济技术开发区(芦墟)

制造商名称及地址

苏州华德电子有限公司
江苏省吴江市汾湖经济技术开发区(芦墟)

生产企业名称及地址

苏州华德电子有限公司 (V005437)
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
管状熔断体;带引线管状熔断体

TSC T12. 5AH250V;TSC T12. 5AH250V

产品标准和技术要求

GB9364.1-1997 IEC60127-2:2003 +A1:2003 CQC11-462125-2009
附件2

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CQC11-462125-2009认证规则的要求,特发此证。

发证日期: 2016年07月19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。

本证书为变更证书,证书首次颁发日期: 2010年01月20日

主任: 



中国质量认证中心

中国·北京·南四环西路188号9区100070

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

C 0085265



PRODUCT CERTIFICATE

No.: CQC10012041025

NAME AND ADDRESS OF THE APPLICANT

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

NAME AND ADDRESS OF THE MANUFACTURER

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

NAME AND ADDRESS OF THE FACTORY

Suzhou Walter Electronic Co., Ltd. (V005437)
South of Xinli Road, Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu

NAME, MODEL AND SPECIFICATION

Cartridge Fuse-link; Cartridge fuse-links with wire terminations
TSC T12.5AH250V; TSC T12.5AH250V

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB9364.1-1997 IEC60127-2:2003 +A1:2003 CQC11-462125-2009附件2

CERTIFICATION MODEL

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

This is to certify that the above mentioned products have met the requirements of certification rules
CQC11-462125-2009.

Date of issue: Jul.19,2016

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

Date of original certification: Jan.20,2010

President:


Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

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

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

C 0085265

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 3 - 2 0 0 5
Statement Number

2. 交付年月日： 平成29年 1月 5日
Effective Date January 5, 2017

3. 有効年月日： 平成36年 1月 4日
Date of Validity January 4, 2024

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： 管形ヒューズ
Name of Product Cartridge 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
別表第十二 J60127-1 (H26) 及び J60127-2 (H26)

Appendix 12 J60127-1 (H26) and J60127-2 (H26)

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
15-14-12, Yoyogi, Shibuya-ku, Tokyo, Japan)

証明書番号 : J E T 2 1 7 9 - 3 1 0 0 3 - 2 0 0 5

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	(6) その他のもの Others
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)	—
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	(3) 磁器のもの又はガラスのもの Ceramic or glass
端子 Terminals	(2) 筒形のもの Tubular terminal
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	(5) 1,000 Aを超え1,500 A以下のもの Exceeding 1,000A, and less than or equal to 1,500A

証明書番号：JET 2179-31003-2005

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 3 - 2 0 0 8
Statement Number
2. 交付年月日: 平成29年 1月 5日
Effective Date January 5, 2017
3. 有効年月日: 平成36年 1月 4日
Date of Validity January 4, 2024
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: 管形ヒューズ
Name of Product Cartridge 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
別表第十二 J60127-1 (H26) 及び J60127-2 (H26)
Appendix 12 J60127-1 (H26) and J60127-2 (H26)

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 : J E T 2 1 7 9 - 3 1 0 0 3 - 2 0 0 8

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) 5Aを超え15A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	(6) その他のもの Others
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)	—
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	(3) 磁器のもの又はガラスのもの Ceramic or glass
端子 Terminals	(2) 筒形のもの Tubular terminal
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	(5) 1,000Aを超え1,500A以下のもの Exceeding 1,000A, and less than or equal to 1,500A

証明書番号：JET 2179-31003-2008



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호
(Certificate No.) : SU05015-5002

접수번호
(Order No.) : 05-1920-3186

제조사명
(Manufacturer) : Suzhou Waiier Electronic Co., Ltd.

공장소재지
(Factory Address) : Fenu, Technic Development Zone, Luxu Wu Jiang, Jiangsu, P.R.China

제품명
(Product) : 소형퓨즈(관형퓨즈) (Miniature fuse-link)

기본모델명
(Basic Model) : TSC 2.5A

정격
(Electrical Ratings) : AC250V~, 2.5A

파생모델명
(Series Model) : See the Attachment 1

적용기준
(Applied Standard) : K60127-1, K60127-2

- 첨부 : 1. 기본모델-파생모델의 내용 (General Descriptions of Certified Products)
2. 전기용품안전인증서의 변경발급 현황 (Status of Compliance Certificate Revisions)

전기용품 안전관리법 제5조의 규정에 의하여 위의 전기용품에 대하여 안전인증서를 교부합니다.

We Certificate Electrical Appliances Safety Certification as above product by Article 5 of the Electrical Appliance Safety Control Law.

2005년 08월 05일
year month day



안전인증기관
산업기술시험원
KOREA TESTING LABORATORY



첨부 1 : 기본모델·파생모델의 내용
General description of Certified Products

모델명 Basic model	기본모델과의 차이점 Differences between the basic and derivative models
TSC 1A	A rated current is different from the basic model.
TSC 1.25A	A rated current is different from the basic model.
TSC 1.6A	A rated current is different from the basic model.
TSC 2.0A	A rated current is different from the basic model.
TSC 1A+P	A rated current is different from the basic model and adhere lead wire.
TSC 1.25A+P	A rated current is different from the basic model and adhere lead wire.
TSC 1.6A+P	A rated current is different from the basic model and adhere lead wire.
TSC 2.0A+P	A rated current is different from the basic model and adhere lead wire.
TSC 2.5A+P	adhere lead wire.
첨부 1의 조건 Conditions of Attachment 1	
1. Review Report, No.: 05-1920-3185 (2005. 07. 28) 2. Product Description - AC 250V~, 2.5A - Miniature fuse-link	
☞ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 전기전자본부, 부품평가팀, 정문석 / (02)8601-406 ☞ If you have any question on product testing, please contact the person below : Job holder : Electro-Technical Center, Components Assessment Team, M.S. Jung / +82 2 8601-406	

첨부 2 : 전기용품안전인증서의 변경발급현황
Status of Compliance Certificate Revisions

변경내용 Contents of Certificate Revision	비고 Remarks
Not Applicable	

FP511-11-00



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 : SU05015-5001
(Certificate No.)

접수번호 : 05-1920-3185
(Order No.)

제조사명 : Suzhou Waller Electronic Co., Ltd.
(Manufacturer)

공장소재지 : Fenhu, Technic Development Zone, Luxu Wu Jiang, Jiangsu,
(Factory Address) P.R.China

제품명 : 소형퓨즈(관형퓨즈) (Miniature fuse-link)
(Product)

기본모델명 : TSC 6.3A
(Basic Model)

정격 : AC250V~, 6.3A
(Electrical Ratings)

파생모델명 : See the Attachment 1
(Series Model)

적용기준 : K60127-1, K60127-2
(Applied Standard)

- 첨부 : 1. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
2. 전기용품안전인증서의 변경발급 현황 (Status of Compliance Certificate Revisions)

전기용품 안전관리법 제5조의 규정에 의하여 위의 전기용품에 대하여 안전인증서를 교부합니다.

We Certificate Electrical Appliances Safety Certification as above product by Article 5 of the Electrical Appliance Safety Control Law.

2005년 06월 05일
year month day



안전인증기관
산업기술시험원
KOREA TESTING LABORATORY



첨부 1 : 기본모델·파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Difference between the basic and derivative models
TSC 3,15A	A rated current is different from the basic model.
TSC 4A	A rated current is different from the basic model.
TSC 5A	A rated current is different from the basic model.
TSC 3,15A+P	A rated current is different from the basic model and adhere lead wire.
TSC 4A+P	A rated current is different from the basic model and adhere lead wire.
TSC 5A+P	A rated current is different from the basic model and adhere lead wire.
TSC 6,3A+P	adhere lead wire.
비고 Remarks	
1. Review Report No. 05-1920-3185 (2006. 07. 29) 2. Product Description - AC 250V~, 6.3A - Miniature fuse-link	
<input type="checkbox"/> 본 제품의 사용내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 서울담당자 : 권가관자본부, 부품평가팀, 정문석 / (02)8601-406 <input type="checkbox"/> If you have any question on product testing, please contact the person below : Job holder : Electro-Technical Center, Component's Assessment Team, M.S. Jung /-B2 2 8601-406	

첨부 2 : 전기용품안전인증서의 변경발급현황
Status of Compliance Certificate Revisions

변경발급 내용 Contents of Certificate Revision	비고 Remarks
Not Applicable	

FP511-11-00

单击下面可查看定价，库存，交付和生命周期等信息

[>>Walter\(华德\)](#)