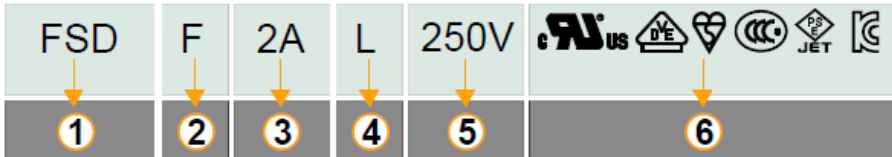


1. 適用範圍 / SCOPE

FSD 系列小型保險絲，適用於一般電子設備。
FSD 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~15A

額定電壓 / Rated Voltage:

200mA~6.3A : 250VAC

8A~15A : 125V/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~15A:  F_mA/_A L_V


②商 標：系列號+認證符號

Trade mark : Part Number + Approved Symbol.


200mA~800mA(250V) : FSD 

1A ~ 6.3A(250V) : FSD 

8A 、10A(250V) : FSD 

8A 、10A(125V) : FSD 

12A 、15A(250V) : FSD 

12A 、15A(125V) : FSD 

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、明顯的汗斑。

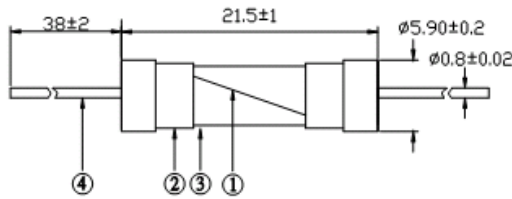
Appearances: There shall not be break up and any remarkable blotch.

5-2 形狀：帶腳的小型保險絲。

Configuration: Axial Leaded 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	玻璃管 Glass Tube	1
④	引線 Lead	鍍錫銅線 Tinned Copper wire	2

7. 產品特性 / PRODUCT CHARACTERISTICS

7-1 引腳拉力強度 / Lead Pull Strength

10 牛頓 10±1 秒 / 10N for 10±1 Sec.

7-2 引腳推力強度 / Lead Thrust Strength

2 牛頓 10±1 秒 / 2N for 10±1 Sec.

7-3 可焊性 / Solderability

波峰焊/Wave : 260°C , ≤3s;

烙鐵焊/Soldering Iron: 350±10°C , ≤3s.

7-4 耐焊接熱 / Soldering Heat Resistance

波峰焊/Wave : 260°C , 10s;

烙鐵焊/Soldering Iron: 350°C , 5s.

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.	Max.
32mA to 100mA	30 min	10 ms	500 ms	3 ms	100 ms	20 ms
Above 100mA to 6.3A	30 min	50 ms	2 s	10 ms	300 ms	20 ms
Above 6.3A to 10A	30 min	50 ms	2 s	10 ms	400 ms	40 ms

備注：12A和15A的測試條件與8A和10A相同，均依照IEC60127-2 標準規格單2之標準。

Remark：According to IEC60127-2 sheet2, the test conditions for 12A and 15A are same as the ratings for 8A and 10A.

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

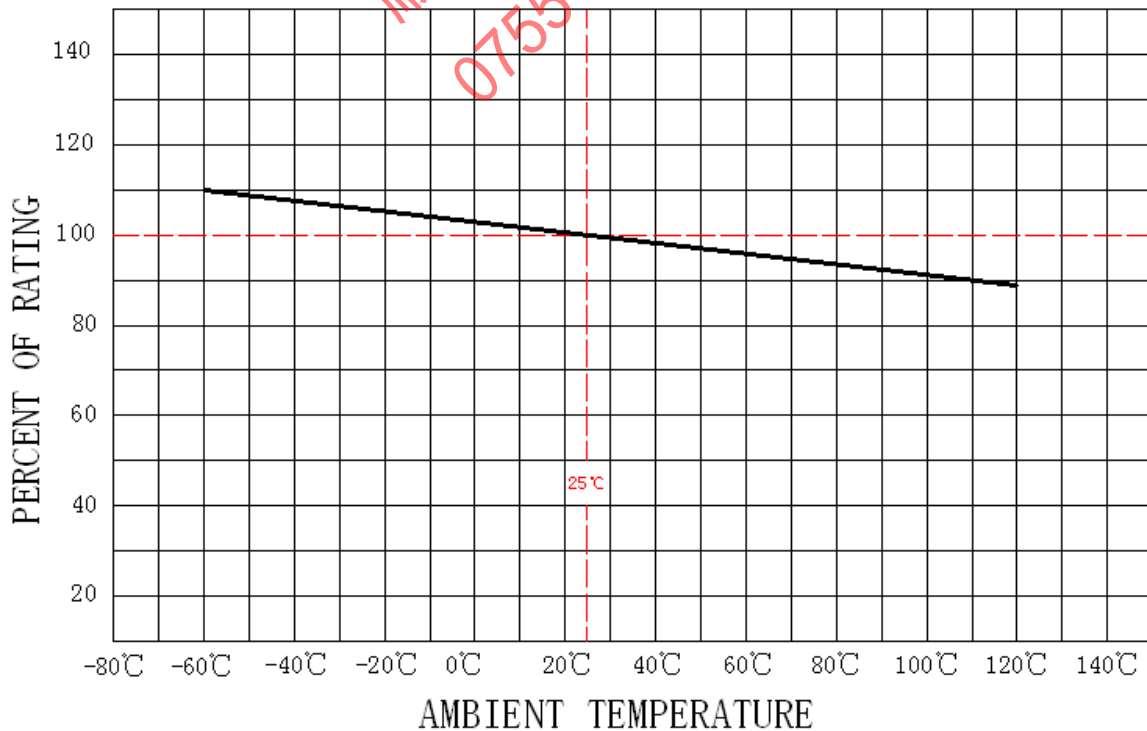
若貴司操作環境溫度超出25±5°C範圍，在選用保險絲規格時，需考慮操作環境溫度對保險絲的影響。

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.

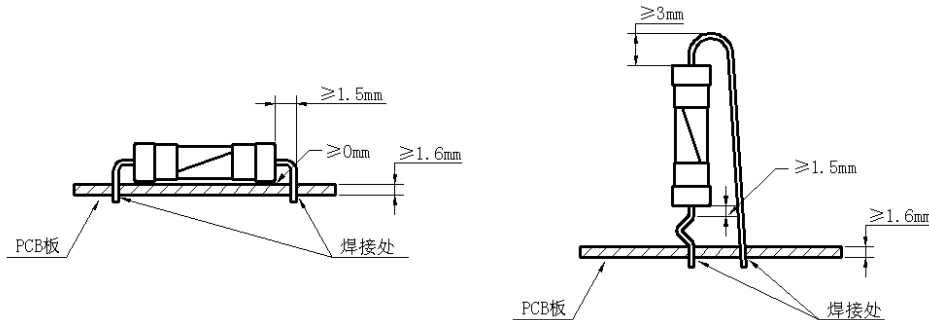
在溫度+10°C ~ 60°C、相對濕度為 95% 的非露天下最多可存放 30 天。
Without dew in temperature +10°C ~ 60°C、relative humidity be 95% maximum value for 30 days.



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

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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

UR		E56092(JDYX2)(200mA~15A)	
C-UR		E56092(JDYX8)(200mA~15A)	
VDE		40016929(200mA~10A)	40016932(12A ~15A)
BSI	東莞廠	KM576033(200mA~6.3A)	
	蘇州廠	KM70911(200mA~6.3A)	
CCC	東莞廠	2002010207023045(200mA~6.3A)	
	蘇州廠	2002010207006696(200mA~6.3A)	
PSE	東莞廠	JET5360-31003-1001(1A~5A)	JET5360-31003-1002(6.3A)
	蘇州廠	JET2179-31003-1009(1A~5A)	JET2179-31003-1010(6.3A)
KC	東莞廠	SU05010-9001C(12A~15A)	SU05010-9002C(8A~10A)
		SU05010-9003C(3.15A~6.3A)	SU05010-9004C(1A~2.5A)
		SU05010-9005C(200mA~6.3A)	
	蘇州廠	SU05015-9005(200mA~800mA)	SU05015-9001(1A~2.5A)
		SU05015-9003(3.15A~6.3A)	SU05015-9002(8A~10A)
		SU05015-9004(12A~15A)	

13. 包裝 / PACKING
13-1 包裝數量 / Packing Quantity

A：每內盒裝 500 個保險絲。

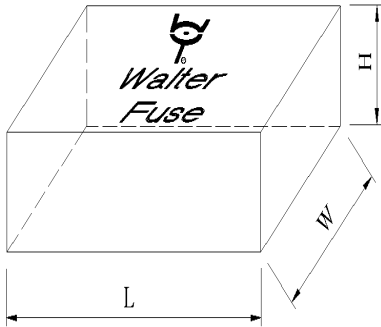
500pcs per inner box .

B：每外箱裝 20 內盒保險絲。

20 inner boxes per outer box .



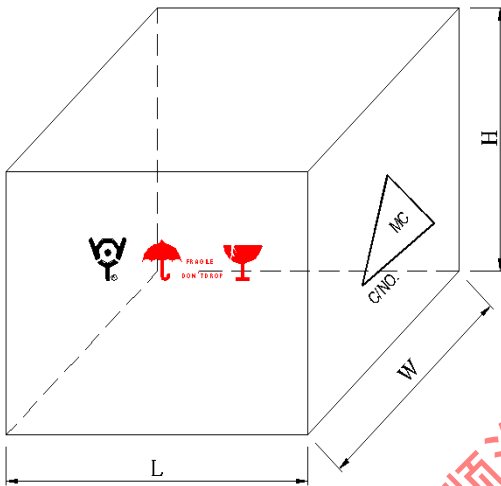
13-2 內包裝盒/Inner box of packing



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
335±5	451±5	285±5

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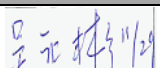

14.其他 / OTHERS

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
第七版			<i>Eris Kuo</i> 2017.12.01



JDYX2.E56092 Fuses, Supplemental - Component

If you notice a change to your JDYX2 Listing Card, click [here](#) to learn more.

[Page Bottom](#)

Fuses, Supplemental - Component

[See General Information for Fuses, Supplemental - Component](#)

WALTER ELECTRONIC CO LTD

E56092

2ND FL

97 CHUNG KING N RD, SEC 4

TAIPEI CITY, TAIWAN

Supplemental fuses

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
MTG	6.35 x 31.75 (0.25 x 1.25)	10 - 20	250Vac	300

Supplemental fuses: pigtail leads

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
TNP	3.3 x 8.5 (0.13 x 0.33)	0.25 - 5	250Vac	50
		0.25 - 5	250Vac	50
		0.25 - 5	250Vac	50
		0.25 - 5	250Vac	50
		6.3	250Vac	63
		6.3	250Vac	63
		6.3	250Vac	63
		6.3	250Vac	63

Supplemental fuses: pigtail leads, cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FDP	3.6 x 10 (0.14 x 0.39)	0.5 - 3.15	250Vac	35
		4.0	250Vac	40
		5.0	250Vac	50
		6.3	250Vac	63
FSD+P	5 x 20 (0.20 x 0.79)	0.2 - 3.15	250Vac	35
		4.0 - 6.3	250Vac	10x Ampere rating

		0.2 - 6.3	125Vdc	35
		0.2 - 0.8	125Vac	10000
		8 - 15	125Vac	10x Ampere rating
		8 - 15	250Vac	10x Ampere rating
		1.0 - 6.3	125Vac	10000
MFP	6.35 x 31.5 (0.25 x 1.24)	0.125 - 10	125Vac	10000
		3.6 - 10	250Vac	200
SFP	5.2 x 20 (0.20 x 0.79)	0.25 - 0.8	125Vac	10000
		0.25 - 0.8	250Vac	35
		1.0 - 3.5	125Vac	10000
		1.0 - 3.5	250Vac	100
		4.0 - 7.0	125Vac	10000
TMD+P	5 x 20 (0.20 x 0.79)	0.1 - 3.5	250Vac	35
		0.1 - 6.3	125Vdc	35
		0.1 - 6.3	125Vac	10000
		3.6 - 6.3	250Vac	10x Ampere rating
		8 - 15	125Vac	10x Ampere rating
		8 - 15	250Vac	10x Ampere rating
TME+P	6.0 x 24 (0.24 x 0.94)	0.1 - 16	250Vac	150
TSD+P	5 x 20 (0.20 x 0.79)	0.1 - 3.5	250Vac	35
		3.6 - 6.3	250Vac	10x Ampere rating
		0.1 - 6.3	125Vac	10000
		0.1 - 6.3	125Vdc	35

Supplemental fuses: pigtail leads, filled-tube

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
WN10.XXXP (!), WN20.XXXP (!), WN30.XXXP (!)				
	5.54 x 21.1 (0.22 x 0.83)	0.1 - 20	600Vac	200
		0.1 - 20	500Vdc	300
		0.1 - 10	400Vdc	2000
		0.1 - 1	600Vac	1000

Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FSC+P	5 x 20 (0.20 x 0.79)	0.25 - 6.3	125Vac	10000
		0.25 - 15	250Vac	1500

		0.25 - 6.3	125Vdc	35
MHP, followed by 0.1, 0.2, 0.25, 0.315, 0.4, 0.5, 0.6, 0.75, 0.8, 1, 1.5, 2, 2.5, 3, 4, 5, 6.3, 7, 8, 10, 12, 15, 20, 25 or 30				
	6.76 x 32.8 (0.27 x 1.29)	0.1 - 30	500Vac	1000
		0.1 - 30	500Vdc	1000
		0.1 - 30	500Vac	30K
		0.1 - 30	500Vdc	20K
MTP	6.35 x 31.75 (0.25 x 1.25)	15 - 20	250Vac	1500
		25 - 30	250Vac	500
TSS+P	5.6 x 19.5 (0.22 x 0.77)	3.15	125Vac	10000
		4	125Vac	10000
		3.15	250Vac	1500
		4	250Vac	1500
		3.15	125Vdc	35
		4	125Vdc	35

Supplemental fuses: cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FSD	5 x 20 (0.20 x 0.79)	0.2 - 3.15	250Vac	35
		4 - 15	250Vac	10x Ampere rating
		0.2 - 6.3	125Vdc	35
		0.2 - 6.3	125Vac	10000
MGF	6.35 x 31.5 (0.25 x 1.24)	0.125 - 10	125Vac	10000
		3.6 - 10	250Vac	200
SGF	5.2 x 20 (0.20 x 0.79)	0.25 - 0.8	125Vac	10000
		0.25 - 0.8	250Vac	35
		1.0 - 3.5	125Vac	10000
		1.0 - 3.5	250Vac	100
		4.0 - 7.0	125Vac	10000
TMD	5 x 20 (0.20 x 0.79)	0.1 - 3.5	250Vac	35
		0.1 - 6.3	125Vdc	35
		0.1 - 6.3	125Vac	10000
		3.6 - 6.3	250Vac	10x Ampere rating
		8 - 15	125Vac	10x Ampere rating
		8 - 15	250Vac	10x Ampere rating
TME	5.2 x 20 (0.20 x 0.79)	0.1 - 16	250Vac	150

TSD	5 x 20 (0.20 x 0.79)	0.1 - 3.5	250Vac	35
		3.6 - 6.3	250Vac	10x Ampere rating
		0.1 - 6.3	125Vac	10000
		0.1 - 6.3	125Vdc	35

Supplemental fuses: filled-tube

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
WM10	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000
		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM20	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000
		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM30	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000

		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM40 followed by ".", followed by 0.1 to 50, followed by P or blank.				
	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000
		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM50	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000
		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM70 followed by 0.1-50 and may followed by suffix P				
	6.3 x 25.4 (0.25 x 1.00)	0.1 - 20	250Vac	10000
		0.1 - 20	400Vdc	2000
		0.1 - 30	400Vdc	300
		0.1 - 50	75Vdc	2500
WN10	5.2 x 20 (0.20 x 0.79)	0.1 - 20	600Vac	200
		0.1 - 20	500Vdc	300
		0.1 - 10	400Vdc	2000

		0.1 - 1	600Vac	1000
WN20	5.2 x 20 (0.20 x 0.79)	0.1 - 20	600Vac	200
		0.1 - 20	500Vdc	300
		0.1 - 10	400Vdc	2000
		0.1 - 1	600Vac	1000
WN30	5.2 x 20 (0.20 x 0.79)	0.1 - 20	600Vac	200
		0.1 - 20	500Vdc	300
		0.1 - 10	400Vdc	2000
		0.1 - 1	600Vac	1000

Supplemental fuses: filled-tube, cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FHC	5.2 x 20 (0.20 x 0.79)	8 - 25	420Vac	300
		8 - 25	420Vdc	300
FSC	5 x 20 (0.20 x 0.79)	0.25 - 6.3	125Vac	10000
		0.25 - 15	250Vac	1500
		0.25 - 6.3	125Vdc	35
MHC, followed by 0.1, 0.2, 0.25, 0.315, 0.4, 0.5, 0.6, 0.75, 0.8, 1, 1.5, 2, 2.5, 3, 4, 5, 6.3, 7, 8, 10, 12, 15, 20, 25 or 30				
	6.4 x 31.75 (0.25 x 1.25)	0.1 - 30	500Vac	1000
		0.1 - 30	500Vdc	1000
		0.1 - 30	500Vac	30K
		0.1 - 30	500Vdc	20K
MTC	6.35 x 31.75 (0.25 x 1.25)	15 - 20	250Vac	1500
		25 - 30	250Vac	500
TSC	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

Supplemental fuses: pigtail leads, filled-tube

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
MTPP	6.76 x 32.8 (0.27 x 1.29)	40 - 50	250Vac	1000
		40 - 50	250Vac	300

Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FHP	5.9 x 21.5 (0.23 x 0.85)	8 - 25	420Vac	300
		8 - 25	420Vdc	300
TSC+P	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

Supplemental fuses: surface mount, cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
1032SF, 1032SS	10.3 x 3.2 x 3.2 (0.41 x 0.13 x 0.13)	20 - 60	250Vac	100
		20 - 60	65Vac	300
		40 - 60	72Vdc	180
		40 - 60	60Vdc	600
		20 - 30	100Vdc	300
		20 - 30	72Vdc	500
		20 - 30	32Vdc	1000

Supplemental micro fuses

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
2410F (@)	6.1 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	0.2 - 0.75	250Vac	35
		0.2 - 0.75	125Vdc	50
2410F (@)	6.1 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	1.0 - 5.0	250Vac	50
		1.0 - 5.0	125Vdc	50
2410H (@)	6.1 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	1.0 - 5.0	250Vac	50
		1.0 - 5.0	125Vdc	50
2410H (@)	6.1 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	0.2 - 0.75	250Vac	35
		0.2 - 0.75	125Vdc	50
6125SF (@)	6.0 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	12 - 20	65Vac	50
		12 - 20	65Vdc	50
6125SF (@)	6.0 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	0.4 - 10	125Vac	50
		0.4 - 10	160Vdc	50
		0.4 - 10	125Vdc	50

6125SF(@)	6.0 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	0.75 - 6.0	125Vac	50
		0.75 - 6.0	160Vdc	50
		0.75 - 6.0	125Vdc	50
6125SH (@)	6.0 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	12 - 20	65Vac	50
		12 - 20	65Vdc	50
6125SH (@)	6.0 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	0.75 - 6.0	125Vac	50
		0.75 - 6.0	160Vdc	50
		0.75 - 6.0	125Vdc	50
6125SH (@)	6.0 x 2.5 x 2.5 (0.24 x 0.10 x 0.10)	0.4 - 10	125Vac	50
		0.4 - 10	160Vdc	50
		0.4 - 10	125Vdc	50
F92, 1206T	3.2 x 1.6 (0.13 x 0.06)	0.8	63Vdc	50
		1.0	63Vdc	50
		1.25 - 1.75	63Vdc	50
		2.0 - 6.0	63Vdc	50
		6.3 - 10	63Vdc	50
		0.8	24Vdc	50
		0.8	32Vdc	50
		1.0	24Vdc	50
		1.0	32Vdc	50
		1.25 - 1.75	24Vdc	50
		1.25 - 1.75	32Vdc	50
		2.0 - 6.0	24Vdc	50
		2.0 - 6.0	32Vdc	50
		6.3 - 10	24Vdc	50
		6.3 - 10	32Vdc	50
F93, 1206F	3.2 x 1.6 x 0.6 (0.13 x 0.06 x 0.02)	0.5 - 0.8	125Vdc	50
		1.0 - 10	63Vdc	50
		1.0 - 10	24Vdc	50
		1.0 - 10	32Vdc	50
		0.5 - 0.8	24Vdc	50
		0.5 - 0.8	32Vdc	50
		0.5 - 0.8	63Vdc	50
J92, 0603T	1.60 x 0.80 x 0.60 (0.06 x 0.03 x 0.02)	1.0	32Vdc	50
		1.25 - 1.6	32Vdc	50
		1.75	32Vdc	50

		2.0 - 2.5	32Vdc	50
		3.0 - 3.5	32Vdc	50
		4.0 - 6.0	32Vdc	50
		1.0	24Vdc	50
		1.25 - 1.6	24Vdc	50
		1.75	24Vdc	50
		2.0 - 2.5	24Vdc	50
		3.0 - 3.5	24Vdc	50
		4.0 - 6.0	24Vdc	50
J93, 0603F	1.6 x 0.8 x 0.6 (0.06 x 0.03 x 0.02)	0.5 - 0.8	125Vdc	50
		1.0 - 6.0	63Vdc	50
		1.0 - 6.0	24Vdc	50
		1.0 - 6.0	32Vdc	50
		0.5 - 0.8	24Vdc	50
		0.5 - 0.8	32Vdc	50
		0.5 - 0.8	63Vdc	50
TSM	6.8 x 4.0 x 2.8 (0.27 x 0.16 x 0.11)	1 - 5	63Vdc	50
		1 - 5	125Vac	50

Supplemental micro fuses: pigtail leads

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
2010	8.4 x 4.1 x 8.4 (0.33 x 0.16 x 0.33)	0.1 - 10	250Vac	130
		0.1 - 6.3	300Vac	50
		8 - 10	300Vac	100
FEP	3.7 x 8.0 (0.15 x 0.31)	0.25 - 2.5	250Vac	50
		3.15 - 6.3	250Vac	50
TBP	3.6 x 9.5 (0.14 x 0.37)	0.25 - 3.15	250Vac	35
		0.25 - 3.15	63Vdc	35
		4 - 6.3	250Vac	10x Ampere rating
		4 - 6.3	63Vdc	10x Ampere rating
TDP	3.6 x 9.5 (0.14 x 0.37)	0.25 - 3.15	250Vac	35
		4 - 6.3	250Vac	10xAmpere rating
TEP	3.7 x 8.0 (0.15 x 0.31)	0.25 - 3.15	250Vac	35
		4.0 - 6.3	250Vac	10 x Ampere Rating

Supplemental micro fuses: pigtail leads, filled-tube

	Size	Amps	Volts	Interrupting Rating
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Cat. No.	mm (in)	(A)	(V)	(A)
2000	8.3 x 7.8 (0.33 x 0.31)	0.1 - 6.3	250Vac	100
		0.1 - 6.3	300Vac	100
2020	8.4 x 4.1 x 5.3 (0.33 x 0.16 x 0.21)	0.1 - 6.3	250Vac	160
		0.1 - 6.3	300Vac	130
		0.1 - 6.3	400Vac	50

(!) - ("XXX" represents current rating, i.e, 0.1 - 20)

(@) - followed by A,G,S or blank,and followed by F or blank.



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0755-28100018



JDYX8.E56092 Fuses, Supplemental Certified for Canada - Component

If you notice a change to your JDYX8 Listing Card, click [here](#) to learn more.

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Fuses, Supplemental Certified for Canada - Component

[See General Information for Fuses, Supplemental Certified for Canada - Component](#)

WALTER ELECTRONIC CO LTD

E56092

2ND FL

97 CHUNG KING N RD, SEC 4

TAIPEI CITY, TAIWAN

Supplemental fuses

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
MTG	6.35 x 31.75 (0.25 x 1.25)	10 - 20	250Vac	300

Supplemental fuses: pigtail leads

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
TNP	3.3 x 8.5 (0.13 x 0.33)	0.25 - 5	250Vac	50
		0.25 - 5	250Vac	50
		0.25 - 5	250Vac	50
		0.25 - 5	250Vac	50
		6.3	250Vac	63
		6.3	250Vac	63
		6.3	250Vac	63
		6.3	250Vac	63

Supplemental fuses: pigtail leads, cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FDP	3.6 x 10 (0.14 x 0.39)	0.5 - 3.15	250Vac	35
		4.0	250Vac	40
		5.0	250Vac	50
		6.3	250Vac	63
FSD+P	5 x 20 (0.20 x 0.79)	0.2 - 3.15	250Vac	35
		4.0 - 6.3	250Vac	10x Ampere rating

		0.2 - 6.3	125Vdc	35
		0.2 - 0.8	125Vac	10000
		8 - 15	125Vac	10x Ampere rating
		8 - 15	250Vac	10x Ampere rating
		1.0 - 6.3	125Vac	10000
MFP	6.35 x 31.5 (0.25 x 1.24)	0.125 - 10	125Vac	10000
		3.6 - 10	250Vac	200
SFP	5.2 x 20 (0.20 x 0.79)	0.25 - 0.8	125Vac	10000
		0.25 - 0.8	250Vac	35
		1.0 - 3.5	125Vac	10000
		1.0 - 3.5	250Vac	100
		4.0 - 7.0	125Vac	10000
TMD+P	5 x 20 (0.20 x 0.79)	0.1 - 3.5	250Vac	35
		0.1 - 6.3	125Vdc	35
		0.1 - 6.3	125Vac	10000
		3.6 - 6.3	250Vac	10x Ampere rating
		8 - 15	125Vac	10x Ampere rating
		8 - 15	250Vac	10x Ampere rating
TME+P	6.0 x 24 (0.24 x 0.94)	0.1 - 16	250Vac	150
TSD+P	5 x 20 (0.20 x 0.79)	0.1 - 3.5	250Vac	35
		3.6 - 6.3	250Vac	10x Ampere rating
		0.1 - 6.3	125Vac	10000
		0.1 - 6.3	125Vdc	35

Supplemental fuses: pigtail leads, filled-tube

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
WN10.XXXP (!), WN20.XXXP (!), WN30.XXXP (!)				
	5.54 x 21.1 (0.22 x 0.83)	0.1 - 20	600Vac	200
		0.1 - 20	500Vdc	300
		0.1 - 10	400Vdc	2000
		0.1 - 1	600Vac	1000

Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FSC+P	5 x 20 (0.20 x 0.79)	0.25 - 6.3	125Vac	10000
		0.25 - 15	250Vac	1500

		0.25 - 6.3	125Vdc	35
MHP, followed by 0.1, 0.2, 0.25, 0.315, 0.4, 0.5, 0.6, 0.75, 0.8, 1, 1.5, 2, 2.5, 3, 4, 5, 6.3, 7, 8, 10, 12, 15, 20, 25 or 30				
	6.76 x 32.8 (0.27 x 1.29)	0.1 - 30	500Vac	1000
		0.1 - 30	500Vdc	1000
		0.1 - 30	500Vac	30K
		0.1 - 30	500Vdc	20K
MTP	6.35 x 31.75 (0.25 x 1.25)	15 - 20	250Vac	1500
		25 - 30	250Vac	500
TSS+P	5.6 x 19.5 (0.22 x 0.77)	3.15	125Vac	10000
		4	125Vac	10000
		3.15	250Vac	1500
		4	250Vac	1500
		3.15	125Vdc	35
		4	125Vdc	35

Supplemental fuses: cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FSD	5 x 20 (0.20 x 0.79)	0.2 - 3.15	250Vac	35
		4 - 15	250Vac	10x Ampere rating
		0.2 - 6.3	125Vdc	35
		0.2 - 6.3	125Vac	10000
MGF	6.35 x 31.5 (0.25 x 1.24)	0.125 - 10	125Vac	10000
		3.6 - 10	250Vac	200
SGF	5.2 x 20 (0.20 x 0.79)	0.25 - 0.8	125Vac	10000
		0.25 - 0.8	250Vac	35
		1.0 - 3.5	125Vac	10000
		1.0 - 3.5	250Vac	100
		4.0 - 7.0	125Vac	10000
TMD	5 x 20 (0.20 x 0.79)	0.1 - 3.5	250Vac	35
		0.1 - 6.3	125Vdc	35
		0.1 - 6.3	125Vac	10000
		3.6 - 6.3	250Vac	10x Ampere rating
		8 - 15	125Vac	10x Ampere rating
		8 - 15	250Vac	10x Ampere rating
TME	5.2 x 20 (0.20 x 0.79)	0.1 - 16	250Vac	150

TSD	5 x 20 (0.20 x 0.79)	0.1 - 3.5	250Vac	35
		3.6 - 6.3	250Vac	10x Ampere rating
		0.1 - 6.3	125Vac	10000
		0.1 - 6.3	125Vdc	35

Supplemental fuses: filled-tube

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
WM10	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000
		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM20	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000
		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM30	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000

		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM40 followed by ".", followed by 0.1 to 50, followed by P or blank.				
	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000
		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM50	6.3 x 31.75 (0.25 x 1.25)	0.1 - 50	250Vac	1000
		0.1 - 30	660Vac	1000
		0.1 - 30	660Vdc	1000
		0.1 - 12	600Vdc	10000
		0.1 - 12	1000Vdc	10000
		0.1 - 50	150Vdc	1000
		0.1 - 12	600Vac	10000
		0.1 - 12	1000Vac	10000
		0.1 - 30	400Vac	1000
		0.1 - 30	400Vdc	1000
		0.1 - 12	300Vac	10000
		0.1 - 12	300Vdc	10000
WM70 followed by 0.1-50 and may followed by suffix P				
	6.3 x 25.4 (0.25 x 1.00)	0.1 - 20	250Vac	10000
		0.1 - 20	400Vdc	2000
		0.1 - 30	400Vdc	300
		0.1 - 50	75Vdc	2500
WN10	5.2 x 20 (0.20 x 0.79)	0.1 - 20	600Vac	200
		0.1 - 20	500Vdc	300
		0.1 - 10	400Vdc	2000

		0.1 - 1	600Vac	1000
WN20	5.2 x 20 (0.20 x 0.79)	0.1 - 20	600Vac	200
		0.1 - 20	500Vdc	300
		0.1 - 10	400Vdc	2000
		0.1 - 1	600Vac	1000
WN30	5.2 x 20 (0.20 x 0.79)	0.1 - 20	600Vac	200
		0.1 - 20	500Vdc	300
		0.1 - 10	400Vdc	2000
		0.1 - 1	600Vac	1000

Supplemental fuses: filled-tube, cartridge enclosed

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
FHC	5.2 x 20 (0.20 x 0.79)	8 - 25	420Vac	300
		8 - 25	420Vdc	300
FSC	5 x 20 (0.20 x 0.79)	0.25 - 6.3	125Vac	10000
		0.25 - 15	250Vac	1500
		0.25 - 6.3	125Vdc	35
MHC, followed by 0.1, 0.2, 0.25, 0.315, 0.4, 0.5, 0.6, 0.75, 0.8, 1, 1.5, 2, 2.5, 3, 4, 5, 6.3, 7, 8, 10, 12, 15, 20, 25 or 30				
	6.4 x 31.75 (0.25 x 1.25)	0.1 - 30	500Vac	1000
		0.1 - 30	500Vdc	1000
		0.1 - 30	500Vac	30K
		0.1 - 30	500Vdc	20K

ZEICHENGENEHMIGUNG MARKS APPROVAL

Walter Electronic Co. Ltd.
2F No.97 Chung King North Rd.
Section 4
11165 TAIPEI
TAIWAN

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

G-Sicherungseinsatz
Cartridge fuse-link
FSD-Serie(s)

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: 1979600-1170-0008 / 228952

File ref.:

Ausweis-Nr. 40016929

Blatt 1

Certificate No.

Page

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

Offenbach, 2006-02-22

(letzte Änderung / updated 2016-09-28)

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Aktenzeichen / File ref.

1979600-1170-0008 / 228952 / CC2 / EUL

letzte Änderung / updated

2016-09-28

Datum / Date

2006-02-22

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G-Sicherungseinsatz

Cartridge fuse-link

FSD-Serie(s)

Typ(en) / Type(s)

FSD-Serie(s)

Bemessungsspannung
Rated voltage

AC 250 V / AC 125 V (8 A; 10 A)
AC 250 V (200 mA - 6,3 A)

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

2

Kennzeichnung der Charakteristik
Characteristic symbol

F

Zeit/Strom-Charakteristik
Time/current-characteristic

flink
quick-acting

Maße in mm
Dimension in mm

5 x 20

Kennzeichnung des Ausschaltvermögens
Breaking capacity symbol

L

Bemessungsausschaltvermögen
Rated breaking capacity

35 A bzw. 10 x In
35 A resp. 10 x In

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
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2016-09-28

Datum / Date

2006-02-22

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Remark

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*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 CC2
Section CC2

顺海科技
0755-28100016

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /
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Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40016929.

This supplement is part of the Certificate No. 40016929.

G-Sicherungseinsatz

**Cartridge fuse-link
FSD-Serie(s)**

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.
Fenhu Technic Development Zone
215211 LUXU TOWN, WUJIANG CITY
Jiangsu
CHINA

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC2
Section CC2

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Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40016929.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40016929.

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.

EU-Konformitätserklärung

Name/Anschrift des Ausstellers:

Walter Electronic Co. Ltd.
2F No.97 Chung King North Rd.
Section 4
11165 TAIPEI
TAIWAN

Produktbezeichnung: G-Sicherungseinsatz

Typenbezeichnung: FSD-Serie(s)

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:

2014/35/EU

"Richtlinie des europäischen Parlaments und des Rates zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die Bereitstellung elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen auf dem Markt".

Die Übereinstimmung des bezeichneten Produktes mit den Anforderungen der Richtlinie wird durch die technische Dokumentation sowie die vollständige Einhaltung folgender Normen nachgewiesen:

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

Anmerkung: Das VDE Prüf- und Zertifizierungsinstitut, Merianstr. 28, D-63069 Offenbach, hat das Produkt nach diesen Normen geprüft und zertifiziert.

Zeichengenehmigungsausweis Nr. 40016929
Aktenzeichen 1979600-1170-0008 / 228952 / CC2 / EUL

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

(Ort, Datum)

(Name, Funktion) (Unterschrift)

EU Declaration of Conformity

Issuer's name and address:

Walter Electronic Co. Ltd.
2F No.97 Chung King North Rd.
Section 4
11165 TAIPEI
TAIWAN

Product: Cartridge fuse-link

Type designation: FSD-Serie(s)

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/35/EU

"Directive of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits".

The technical documentation and full compliance with the standards listed below proves the conformity of the product with the requirements of the above-mentioned EC Directive:

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

Remark: The VDE Testing and Certification Institute, Merianstr. 28, 63069 Offenbach (Germany), has tested and certified the product according to these standards.

Certificate No. 40016929

File Reference 1979600-1170-0008 / 228952 / CC2 / EUL

This declaration is issued under the sole responsibility of the manufacturer.

(Place, Date)

(name, function) (signature)

GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

Walter Electronic Co. Ltd.
2F No.97 Chung King North Rd.
Section 4
11165 TAIPEI
TAIWAN

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.-Nr. B632 oder/or



oder/or VDE-REG.-Nr. B632

REG.-Nr. B632

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: 1979600-1170-0008 / 228993

File ref.:

Ausweis-Nr. 40016932

Blatt 1

Certificate No.

Page

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

Offenbach, 2006-02-22

(letzte Änderung / updated 2016-09-28)

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

M. Tasotti

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

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

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

Walter Electronic Co. Ltd., 2F No.97 Chung King North Rd., Section 4, 11165 TAIPEI, TAIWAN

Aktenzeichen / File ref.

1979600-1170-0008 / 228993 / CC2 / EUL

letzte Änderung / updated

2016-09-28

Datum / Date

2006-02-22

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40016932.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40016932.

G-Sicherungseinsatz Cartridge fuse-link

Typ(en) / Type(s)

FSD

Bemessungsspannung
Rated voltage AC 250 V / AC 125 V

Bemessungsstrom
Rated current 12 A; 15 A

Normblatt
Standard sheet 2

Maße in mm
Dimension in mm 5 x 20

Kennzeichnung der Charakteristik
Characteristic symbol F

Kennzeichnung des Ausschaltvermögens
Breaking capacity symbol L

Bemessungsausschaltvermögen
Rated breaking capacity 10 x I_n

Zeit/Strom-Charakteristik
Time/current-characteristic flink
quick-acting

顺海科技
0755-28100016

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Blatt /
Certificate No. / Page
40016932 3

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

Walter Electronic Co. Ltd., 2F No.97 Chung King North Rd., Section 4, 11165 TAIPEI, TAIWAN

Aktenzeichen / File ref.

1979600-1170-0008 / 228993 / CC2 / EUL

letzte Änderung / updated

2016-09-28

Datum / Date

2006-02-22

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40016932.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40016932.

Anmerkung

Die Anforderungen für 12 A und 15 A waren die gleichen wie für 10 A (höchster Bemessungsstrom des Normblatts)
Wahlweise mit Drahtanschlüssen.

Remark

*The requirements for 12 A and 15 A were the same as for 10 A
(highest rated current in standard sheet).
Optional with lead wires (pigtails).*

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 CC2
Section CC2

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40016932

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

Walter Electronic Co. Ltd., 2F No.97 Chung King North Rd., Section 4, 11165 TAIPEI, TAIWAN

Aktenzeichen / File ref.

1979600-1170-0008 / 228993 / CC2 / EUL

letzte Änderung / updated

2016-09-28

Datum / Date

2006-02-22

Dieses Beiblatt ist Bestandteil des Gutachtens mit Fertigungsüberwachung Nr. 40016932.

This supplement is part of the Certificate of Conformity with factory surveillance No. 40016932.

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.
Fenhu Technic Development Zone
215211 LUXU TOWN, WUJIANG CITY
Jiangsu
CHINA

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC2
Section CC2

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

Walter Electronic Co. Ltd., 2F No.97 Chung King North Rd., Section 4, 11165 TAIPEI, TAIWAN

Aktenzeichen / File ref.

1979600-1170-0008 / 228993 / CC2 / EUL

letzte Änderung / updated

2016-09-28

Datum / Date

2006-02-22

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40016932.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40016932.

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.

EU-Konformitätserklärung

Name/Anschrift des Ausstellers:

Walter Electronic Co. Ltd.
2F No.97 Chung King North Rd.
Section 4
11165 TAIPEI
TAIWAN

Produktbezeichnung: G-Sicherungseinsatz

Typenbezeichnung: FSD

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:

2014/35/EU

"Richtlinie des europäischen Parlaments und des Rates zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die Bereitstellung elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen auf dem Markt".

Die Übereinstimmung des bezeichneten Produktes mit den Anforderungen der Richtlinie wird durch die technische Dokumentation sowie die vollständige Einhaltung folgender Normen nachgewiesen:

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

Anmerkung: Das VDE Prüf- und Zertifizierungsinstitut, Merianstr. 28, D-63069 Offenbach, hat das Produkt nach diesen Normen geprüft und zertifiziert.

Zeichengenehmigungsausweis Nr. 40016932

Aktenzeichen 1979600-1170-0008 / 228993 / CC2 / EUL

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

(Ort, Datum)

(Name, Funktion) (Unterschrift)

EU Declaration of Conformity

Issuer's name and address:

Walter Electronic Co. Ltd.
2F No.97 Chung King North Rd.
Section 4
11165 TAIPEI
TAIWAN

Product: Cartridge fuse-link

Type designation: FSD

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/35/EU

"Directive of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits".

The technical documentation and full compliance with the standards listed below proves the conformity of the product with the requirements of the above-mentioned EC Directive:

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

Remark: The VDE Testing and Certification Institute, Merianstr. 28, 63069 Offenbach (Germany), has tested and certified the product according to these standards.

Certificate No. 40016932

File Reference 1979600-1170-0008 / 228993 / CC2 / EUL

This declaration is issued under the sole responsibility of the manufacturer.

(Place, Date)

(name, function) (signature)

bsi.

Kitemark™ Licence



This is to certify that:

Dongguan Walter Electric Co Ltd
Yantian Fenggang
523702
Guangdong
China

Holds Kitemark Licence Number:

KM 576033

In respect of:

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 Licence 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 Licence provided at or from the above address.

顺海科技
0755-28100018

For and on behalf of BSI:

Gary Fenton, Global Assurance Director

First Issued: 17/06/2011

Latest Issue: 16/12/2013



Page 1 of 6

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This licence remains the property BSI Management Systems Certification (Beijing) Co. Ltd, and shall be returned immediately upon request. To check its validity and contact information: BSI Management Systems Certification (Beijing) Co. Ltd, Room No. 2008, East Ocean Center, No. 24A, Jianguomenwai, Beijing 100004, P.R. China, Tel. +86 21 2316 0200

Head Office: BSI Assurance UK Limited, Kitemark Court, Davey Avenue, Knowlhill, Milton Keynes, MK5 8PP, UK. Registered in England under number 7805321, at 389 Chiswick High Road, London, W4 4AL, United Kingdom. A member of the BSI Group of Companies

No. KM 576033

BS EN 60127-2:2003 + A2:2010 - Standard Sheet 2 Fuse-links.

Type: FSD Quick-acting, low breaking capacity

Type Ref	Rating	Reference Report
FSD	F 200 mA L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 250 mA L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 315 mA L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 400 mA L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 500 mA L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 630 mA L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 800 mA L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 1.00 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 1.25 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 1.60 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 2.00 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 2.50 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 3.15 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 4.00 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 5.00 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)
FSD	F 6.30 A L 250 V	0150179/01 (SE-20054), 2003-0032 & 8067038 (GJW2013-3491BSI)

First Issued: 17/06/2011

Latest Issue: 16/12/2013

Page 3 of 6

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Head Office: BSI Assurance UK Limited, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP, UK. Registered in England under number 7805321, at 389 Chiswick High Road, London, W4 4AL, United Kingdom. A member of the BSI Group of Companies



Kitemark™ Licence

This is to certify that:

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

Holds Kitemark Licence Number:

KM 70911

In respect of:

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 Licence 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 Licence provided at or from the above address.

顺海科技
0755-2800016

For and on behalf of BSI:

Gary Fenton, Global Assurance Director

First Issued: 21/02/2003

Latest Issue: 17/01/2014



No. KM 70911

BS EN 60127-2: 2003 Amendment 2 2010. Standard Sheet 2 Fuse-links

Type: FSD Quick-acting, low breaking capacity		
Type Ref	Rating	Reference Report
FSD	F 200 mA L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 250 mA L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 315 mA L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 400 mA L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 500 mA L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 630 mA L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 800 mA L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 1.00 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 1.25 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 1.60 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 2.00 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 2.50 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 3.15 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 4.00 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 5.00 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)
FSD	F 6.30 A L 250 V	0150179/01 (SE-20054), 2003-0028 & 8071524 (GJW2013-3563BSI)

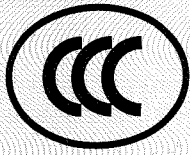
First Issued: 21/02/2003

Latest Issue: 17/01/2014

Page 3 of 6

This licence remains the property BSI Management Systems Certification (Beijing) Co. Ltd. and shall be returned immediately upon request. To check its validity and contact information: BSI Management Systems Certification (Beijing) Co. Ltd, Room No. 2008, East Ocean Center, No. 24A, Jianguomenwai, Beijing 100004, P.R. China. Tel. +86 21 2316 0200

Head Office: BSI Assurance UK Limited, Kitemark Court, Davey Avenue, Knowlhill, Milton Keynes, MK5 8PP, UK. Registered in England under number 7805321, at 389 Chiswick High Road, London, W4 4AL, United Kingdom. A member of the BSI Group of Companies



中国国家强制性产品认证证书

证书编号: 2002010207023045

委托人名称、地址

东莞华德电器有限公司
东莞市凤岗镇雁田村

生产者(制造商)名称、地址

东莞华德电器有限公司
东莞市凤岗镇雁田村

生产企业名称、地址

东莞华德电器有限公司
广东省东莞市凤岗镇雁田村

产品名称和系列、规格、型号

管状熔断体

FSD F200mAL250V, FSD F250mAL250V, FSD F315mAL250V, FSD F400mAL250V, FSD F500mAL250V, FSD F630mAL250V, FSD F800mAL250V, FSD F1AL250V, FSD F1.25AL250V, FSD F1.6AL250V, FSD F2-AL250V, FSD F2.5AL250V, FSD F3.15AL250V, FSD F4AL250V, FSD F5AL250V, FSD F6.3AL250V

产品标准和技术要求

GB9364.1-1997-GB9364.2-1997

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: 2015年08月24日

有效期至: 2020年08月24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11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:

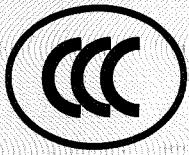
中国质量认证中心

中国·北京·南四环西路188号9区100070

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



Q 1204374



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2002010207023045

NAME AND ADDRESS OF THE APPLICANT

Dongguan Walter Electric Co., Ltd
Yantian Village, Fenggang Town, Dongguan

NAME AND ADDRESS OF THE MANUFACTURER

Dongguan Walter Electric Co., Ltd
Yantian Village, Fenggang Town, Dongguan

NAME AND ADDRESS OF THE FACTORY

Dongguan Walter Electric Co., Ltd
Yantian Village, Fenggang Town, Dongguan, Guangdong

NAME, MODEL AND SPECIFICATION

Cartridge Fuse-link

FSD F200mAL250V, FSD F250mAL250V, FSD F315mAL250V, FSD F400mAL250V, FSD
F500mAL250V, FSD F630mAL250V, FSD F800mAL250V, FSD F1AL250V, FSD
F1. 25AL250V, FSD F1. 6AL250V, FSD F2 AL250V, FSD F2. 5AL250V, FSD
F3. 15AL250V, FSD F4AL250V, FSD F5AL250V, FSD F6. 3AL250V

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB9364. 1-1997 GB9364. 2-1997

This is to certify that the above mentioned products have met the requirements of implementation rules for compulsory certification (REF NO. CNCA-C02-01:2014).

Date of issue: Aug. 24, 2015 Date of expiry: Aug. 24, 2020

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: Nov. 26, 2002

This certificate can be verified through CNCA's website: www.cnca.gov.cn



President:

Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

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

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

Q 1204374



中国国家强制性产品认证证书

证书编号: 2002010207006696

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南侧

产品名称和系列、规格、型号

管状熔断体

FSD F200mAL250V; FSD F250mAL250V; FSD F315mAL250V; FSD F400mAL250V; FSD F500mAL250V; FSD F630mAL250V; FSD F800mAL250V; FSD F1AL250V; FSD F1.25AL250V; FSD F2AL250V; FSD F1.6AL250V; FSD F2.5AL250V; FSD F3.15AL250V; FSD F4AL250V; FSD F5AL250V; FSD F6.3AL250V

产品标准和技术要求

GB9364.1-1997 GB9364.2-1997

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: 2015年03月18日

有效期至: 2020年03月18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

中国·北京·南四环西路188号9区100070

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



Q 1111633



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2002010207006696

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

NAME, MODEL AND SPECIFICATION

Cartridge Fuse-link

FSD F200mAL250V; FSD F250mAL250V; FSD F315mAL250V; FSD F400mAL250V; FSD
F500mAL250V; FSD F630mAL250V; FSD F800mAL250V; FSD F1AL250V; FSD
F1.25AL250V; FSD F2AL250V; FSD F1.6AL250V; FSD F2.5AL250V; FSD
F3.15AL250V; FSD F4AL250V; FSD F5AL250V; FSD F6.3AL250V

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB9364. 1-1997 GB9364. 2-1997

This is to certify that the above mentioned products have met the requirements of implementation rules for compulsory certification(REF NO. CNCA-C02-01:2014).

Date of issue: Mar. 18, 2015 Date of expiry: Mar. 18, 2020

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: Jul. 26, 2002

This certificate can be verified through CNCA's website: www.cnca.gov.cn



President:

Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

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

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

Q 1111633

適合性同等検査合格書

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 Appliance and Material Safety Law (hereunder referred to as the Law) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Law (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Law).

1. 合格書番号: JET5360-31003-1001
Statement Number
2. 交付年月日: 平成25年 2月21日
Effective Date February 21, 2013
3. 有効年月日: 平成32年 2月20日
Date of Validity February 20, 2020
4. 申込者名 (Applicant)
住 所: NO. 1, YIHENG ROAD, BULONG, IND. DISTR., PUXIN,
Address YANTIAN, FENGGANG, DONGGUAN, CHINA

氏名又は名称: DONGGUAN WALTER ELECTRIC 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: NO. 1, YIHENG ROAD, BULONG, IND. DISTR., PUXIN,
Address YANTIAN, FENGGANG, DONGGUAN, CHINA

氏名又は名称: DONGGUAN WALTER ELECTRIC 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第1項
Applied Standard for Testing Article 1 of The Technical Requirements of 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 Electrical Appliance and Material 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 Law.

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 末廣 恵雄
President Shigeo Suehiro

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

適合性同等検査合格書別紙

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	(1) 銀のもの Silver
可溶体の数 Number of fuse elements	(1) 1のもの One
内筒（筒形ヒューズの場合に限る。） Inner cartridge (limited to tubular fuses)	—
再使用（管形ヒューズを除く。） Reusability (excluding cartridge fuses)	—
内部充てん物 Filler materials	(2) ないもの Without filler materials
筒（内筒を除く。）の材料（管形ヒューズ、筒形ヒューズ及びその他の包装ヒューズの場合に限る。） Outer cartridge materials (limited to cartridge fuses, tubular fuses, and other enclosed fuses)	(3) 磁器のもの又はガラスのもの Ceramic or glass
端子（栓形ヒューズの場合を除く。） Terminals (excluding plug fuse (formerly known as end contact plug fuses))	(4) リード線付きのもの Lead terminal
排気孔 Exhausting opening	(2) ないもの Without exhausting opening
絶縁体の主材料（栓形ヒューズの場合に限る。） Insulating materials (limited to plug fuse (formerly known as end contact plug fuses))	—
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

合格書番号：JET5360-31003-1001

適合性同等検査合格書

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 Appliance and Material Safety Law (hereunder referred to as the Law) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Law (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Law).

1. 合格書番号: JET5360-31003-1002
Statement Number
2. 交付年月日: 平成25年 2月21日
Effective Date February 21, 2013
3. 有効年月日: 平成32年 2月20日
Date of Validity February 20, 2020
4. 申込者名 (Applicant)
住所: NO. 1, YIHENG ROAD, BULONG, IND. DISTR., PUXIN, YANTIAN, FENGGANG, DONGGUAN, CHINA
Address

氏名又は名称: DONGGUAN WALTER ELECTRIC 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: NO. 1, YIHENG ROAD, BULONG, IND. DISTR., PUXIN, YANTIAN, FENGGANG, DONGGUAN, CHINA
Address

氏名又は名称: DONGGUAN WALTER ELECTRIC 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第1項
Applied Standard for Testing Article 1 of The Technical Requirements of 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 Electrical Appliance and Material 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 Law.

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 末廣 恵雄
President Shigeo Suehiro

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

適合性同等検査合格書別紙

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	(1) 銀のもの Silver
可溶体の数 Number of fuse elements	(1) 1のもの One
内筒（筒形ヒューズの場合に限る。） Inner cartridge (limited to tubular fuses)	—
再使用（管形ヒューズを除く。） Reusability (excluding cartridge fuses)	—
内部充てん物 Filler materials	(2) ないもの Without filler materials
筒（内筒を除く。）の材料（管形ヒューズ、筒形ヒューズ及びその他の包装ヒューズの場合に限る。） Outer cartridge materials (limited to cartridge fuses, tubular fuses, and other enclosed fuses)	(3) 磁器のもの又はガラスのもの Ceramic or glass
端子（栓形ヒューズの場合を除く。） Terminals (excluding plug fuse (formerly known as end contact plug fuses))	(4) リード線付きのもの Lead terminal
排気孔 Exhausting opening	(2) ないもの Without exhausting opening
絶縁体の主材料（栓形ヒューズの場合に限る。） Insulating materials (limited to plug fuse (formerly known as end contact plug fuses))	—
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) 100A以下のもの 100A or less

合格書番号：JET5360-31003-1002

適合性同等検査合格書

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 Appliance and Material Safety Law (hereunder referred to as the Law) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Law (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Law).

1. 合格書番号: JET2179-31003-1009
Statement Number
2. 交付年月日: 平成25年 2月 1日
Effective Date February 1, 2013
3. 有効年月日: 平成32年 1月31日
Date of Validity January 31, 2020
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第1項
Applied Standard for Testing Article 1 of The Technical Requirements of 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 Electrical Appliance and Material 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 in the Appendix 4 of Enforcement Regulations of the Law.

一般財団法人 電気安全環境研究所
Japan Electrical Safety & Environment technology Laboratory

理事長 末廣 恵雄
President Shigeo Suehiro

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

適合性同等検査合格書別紙

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	(1) 銀のもの Silver
可溶体の数 Number of fuse elements	(1) 1のもの One
内筒（筒形ヒューズの場合に限る。） Inner cartridge (limited to tubular fuses)	—
再使用（管形ヒューズを除く。） Reusability (excluding cartridge fuses)	—
内部充てん物 Filler materials	(2) ないもの Without filler materials
筒（内筒を除く。）の材料（管形ヒューズ、筒形ヒューズ及びその他の包装ヒューズの場合に限る。） Outer cartridge materials (limited to cartridge fuses, tubular fuses, and other enclosed fuses)	(3) 磁器のもの又はガラスのもの Ceramic or glass
端子（栓形ヒューズの場合を除く。） Terminals (excluding plug fuse (formerly known as end contact plug fuses))	(4) リード線付きのもの Lead terminal
排気孔 Exhausting opening	(2) ないもの Without exhausting opening
絶縁体の主材料（栓形ヒューズの場合に限る。） Insulating materials (limited to plug fuse (formerly known as end contact plug fuses))	—
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

合格書番号：JET 2179-31003-1009

適合性同等検査合格書

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 Appliance and Material Safety Law (hereunder referred to as the Law) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Law (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Law).

1. 合格書番号: JET2179-31003-1010
Statement Number
2. 交付年月日: 平成25年 2月 1日
Effective Date February 1, 2013
3. 有効年月日: 平成32年 1月31日
Date of Validity January 31, 2020
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第1項
Applied Standard for Testing Article 1 of The Technical Requirements of 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 Electrical Appliance and Material 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 in the Appendix 4 of Enforcement Regulations of the Law.

一般財団法人 電気安全環境研究所
Japan Electrical Safety & Environment technology Laboratory

理事長 末廣 恵雄
President Shigeo Suehiro

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

適合性同等検査合格書別紙

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	(1) 銀のもの Silver
可溶体の数 Number of fuse elements	(1) 1のもの One
内筒（筒形ヒューズの場合に限る。） Inner cartridge (limited to tubular fuses)	—
再使用（管形ヒューズを除く。） Reusability (excluding cartridge fuses)	—
内部充てん物 Filler materials	(2) ないもの Without filler materials
筒（内筒を除く。）の材料（管形ヒューズ、筒形ヒューズ及びその他の包装ヒューズの場合に限る。） Outer cartridge materials (limited to cartridge fuses, tubular fuses, and other enclosed fuses)	(3) 磁器のもの又はガラスのもの Ceramic or glass
端子（栓形ヒューズの場合を除く。） Terminals (excluding plug fuse (formerly known as end contact plug fuses))	(4) リード線付きのもの Lead terminal
排気孔 Exhausting opening	(2) ないもの Without exhausting opening
絶縁体の主材料（栓形ヒューズの場合に限る。） Insulating materials (limited to plug fuse (formerly known as end contact plug fuses))	—
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) 100A以下のもの 100A or less

合格書番号：JET 2179-31003-1010

접수번호 : 17-064872-18-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SU05010-9001C
(Certificate No.)

제조사/수입자명 : Dongguan Walter Electric Co.,Ltd
(Manufacturer/Importer)

주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong
(Address) China

제품명 : 소형퓨즈(MINIAATURE FUSE)
(Product)

기본모델명 : FSD 12A
(Basic Model)

파생모델명 : FSD 12A(with pigtails), FSD 15A, FSD 15A(with pigtails)
(Series Model)

정격/안전기준상의 모델구분 : AC250V, 12A
(Rating)

시험기준 : K60127-1(2008-12), K60127-2(2006-11)
(Standard)

본 인증서는 제조국명 : 중국
제조사명 : Dongguan Walter Electric Co.,Ltd
제조공장의 주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항·제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4) or10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2017년 10월 27일
Year month day

한국산업기술시험원
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)
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첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명 (회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Not applicable				

유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등록을 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1항 또는 제 36 조제 1항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 12A (with pigtails)	Lead wire type(pigtails)
FSD 15A	Rated current and breaking capacity is changed(AC250V 15A, 150A)
FSD 15A(with pigtails)	Rated current and breaking capacity is changed(AC250V 15A, 150A), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0782 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F12AL 250 V, 120A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 : 인증산업본부 전기부품평가센터 이 웅 / 055-7913-422</p> <p>□ If you have any question on product testing, please contact the person below : Job holder: Certification Business Division, Electrical Components Testing Center, W. LEE /+82 55-7913-422</p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1 st Rev.) Change of company name (11-1920-2244 : 2011.05.09.) - Before : Ever Island Electric Co., Ltd. & Walter Electric After : Dongguan Walter Electric Co., Ltd
2 nd Rev.) Change of company name (17-049752-18-1 : 2017.08.22.) - Before : Dongguan Walter Electric Co., Ltd After : Dongguan Warren Electronic Co., Ltd.
3 rd Rev.) Change of company name (17-064872-18-1 : 2017.10.27.) - Before : Dongguan Warren Electronic Co., Ltd. After : Dongguan Walter Electric Co.,Ltd

FP511-06

顺海科技
0755-28100016

접수번호 : 17-064872-19-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SU05010-9002C
(Certificate No.)

제조사/수입업자명 : Dongguan Walter Electric Co.,Ltd
(Manufacturer/importer)

주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong
(Address) China

제품명 : 소형퓨즈(MINIAATURE FUSE)
(Product)

기본모델명 : FSD 8A
(Basic Model)

파생모델명 : FSD 8A(with pigtails), FSD 10A, FSD 10A(with pigtails)
(Series Model)

정격/안전기준상의 모델구분 : AC250V, 8A
(Rating)

시험기준 : K60127-1(2008-12), K60127-2(2006-11)
(Standard)

본 인증서는 제조국명 : 중국
제조사명 : Dongguan Walter Electric Co.,Ltd
제조공장의 주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항·제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4) or10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2017 년 10 월 27 일
Year month day

한국산업기술시험원

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)

첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명 (회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Types)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Not applicable				

유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 8A (with pigtails)	Lead wire type(pigtails)
FSD 10A	Rated current and breaking capacity is changed(AC250V 10A, 100A)
FSD 10A(with pigtails)	Rated current and breaking capacity is changed(AC250V 10A, 100A), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0783 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F8AL 250 V, 80A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 : 인증산업본부 전기부품평가센터 이 용 / 055-7913-422</p> <p>□ <i>If you have any question on product testing, please contact the person below :</i> <i>Job holder: Certification Business Division, Electrical Components Testing Center, W. LEE /+82 55-7913-422</i></p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1 st Rev.) Change of company name (11-1920-2245 : 2011.05.09.) - Before : Ever Island Electric Co., Ltd. & Walter Electric After : Dongguan Walter Electric Co., Ltd
2 nd Rev.) Change of company name (17-049752-19-1 : 2017.08.22.) - Before : Dongguan Walter Electric Co., Ltd After : Dongguan Warren Electronic Co., Ltd.
3 rd Rev.) Change of company name (17-064872-19-1 : 2017.10.27.) - Before : Dongguan Warren Electronic Co., Ltd. After : Dongguan Walter Electric Co.,Ltd

FP511-06

顺海科技
0755-28100016

접수번호 : 17-064872-20-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SU05010-9003C
(Certificate No.)

제조업자/수입업자명 : Dongguan Walter Electric Co.,Ltd
(Manufacturer/importer)

주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong China
(Address)

제품명 : 소형퓨즈(MINIAATURE FUSE)
(Product)

기본모델명 : FSD 3.15A
(Basic Model)

파생모델명 : See the attachment 2
(Series Model)

정격/안전기준상의 모델구분 : AC250V, 3.15A
(Rating)

시험기준 : K60127-1(2008-12), K60127-2(2006-11)
(Standard)

본 인증서는 제조국명 : 중국
제조업자명 : Dongguan Walter Electric Co.,Ltd
제조공장의 주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항·제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.

We issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4) or10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2017년 10월 27일
Year month day

한국산업기술시험원
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)
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첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명 (회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Not applicable				

유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수동재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 3.15A (with pigtails)	Lead wire type(pigtails)
FSD 4A	Rated current and breaking capacity is changed(AC250V 4A, 40A)
FSD 4A(with pigtails)	Rated current and breaking capacity is changed(AC250V 4A, 40A), Lead wire type(pigtails)
FSD 5A	Rated current and breaking capacity is changed(AC250V 5A, 50A)
FSD 5A(with pigtails)	Rated current and breaking capacity is changed(AC250V 5A, 50A), Lead wire type(pigtails)
FSD 6.3A	Rated current and breaking capacity is changed(AC250V 6.3A, 63A)
FSD 6.3A(with pigtails)	Rated current and breaking capacity is changed(AC250V 6.3A, 63A), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0784 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F3.15AL 250 V, 35A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 : 인증산업본부 전기부품평가센터 이 웅 / 055-7913-422</p> <p>□ <i>If you have any question on product testing, please contact the person below :</i> <i>Job holder: Certification Business Division, Electrical Components Testing Center, W. LEE /+82 55-7913-422</i></p>	

FP511-05

첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1 st Rev.) Change of company name (11-1920-2246 : 2011.05.09.) - Before : Ever Island Electric Co., Ltd. & Walter Electric After : Dongguan Walter Electric Co., Ltd
2 nd Rev.) Change of company name (17-049752-20-1 : 2017.08.22.) - Before : Dongguan Walter Electric Co., Ltd After : Dongguan Warren Electronic Co., Ltd.
3 rd Rev.) Change of company name (17-064872-20-1 : 2017.10.27.) - Before : Dongguan Warren Electronic Co., Ltd. After : Dongguan Walter Electric Co.,Ltd

FP511-06

顺海科技
0755-28100016

접수 번호 : 17-064872-21-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SU05010-9004C
(Certificate No.)

제조업자/수입업자명 : Dongguan Walter Electric Co.,Ltd
(Manufacturer/importer)

주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong
(Address) China

제품명 : 소형퓨즈(MINIAATURE FUSE)
(Product)

기본모델명 : FSD 1A
(Basic Model)

파생모델명 : See the attachment 2
(Series Model)

정격/안전기준상의 모델구분 : AC250V, 1A
(Rating)

시험기준 : K60127-1(2008-12), K60127-2(2006-11)
(Standard)

본 인증서는 제조국명 : 중국
제조업자명 : Dongguan Walter Electric Co.,Ltd
제조공장의 주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항·제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.

We issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4) or10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2017년 10월 27일
Year month day

한국산업기술시험원

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)

첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명 (회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Not applicable				

유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 1A (with pigtails)	Lead wire type(pigtails)
FSD 1.25A	Rated current is changed(AC250V 1.25A)
FSD 1.25A(with pigtails)	Rated current is changed(AC250V 1.25A), Lead wire type(pigtails)
FSD 1.6A	Rated current is changed(AC250V 1.6A)
FSD 1.6A(with pigtails)	Rated current is changed(AC250V 1.6A), Lead wire type(pigtails)
FSD 2A	Rated current is changed(AC250V 2A)
FSD 2A(with pigtails)	Rated current is changed(AC250V 2A), Lead wire type(pigtails)
FSD 2.5A	Rated current is changed(AC250V 2.5A)
FSD 2.5A(with pigtails)	Rated current is changed(AC250V 2.5A), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0785 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F1AL 250 V, 35A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 : 인증산업본부 전기부품평가센터 이 웅 / 055-7913-422</p> <p>□ If you have any question on product testing, please contact the person below : Job holder: Certification Business Division, Electrical Components Testing Center, W. LEE /+82 55-7913-422</p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1 st Rev.) Change of company name (11-1920-2247 : 2011.05.09.) - Before : Ever Island Electric Co., Ltd. & Walter Electric After : Dongguan Walter Electric Co., Ltd
2 nd Rev.) Change of company name (17-049752-21-1 : 2017.08.23.) - Before : Dongguan Walter Electric Co., Ltd After : Dongguan Warren Electronic Co., Ltd.
3 rd Rev.) Change of company name (17-064872-21-1 : 2017.10.27.) - Before : Dongguan Warren Electronic Co., Ltd. After : Dongguan Walter Electric Co.,Ltd

FP511-06

顺海科技
0755-28100016

접수번호 : 17-064872-22-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SU05010-9005C
(Certificate No.)

제조사/수입업자명 : Dongguan Walter Electric Co.,Ltd
(Manufacturer/Importer)

주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong
(Address) China

제품명 : 소형퓨즈(MINIAATURE FUSE)
(Product)

기본모델명 : FSD 200mA
(Basic Model)

파생모델명 : See the attachment 2
(Series Model)

정격/안전기준상의 모델구분 : AC250V, 200mA
(Rating)

시험기준 : K60127-1(2008-12), K60127-2(2006-11)
(Standard)

본 인증서는 제조국명 : 중국
제조사명 : Dongguan Walter Electric Co.,Ltd
제조공장의 주소 : No.1,Yiheng Rd, Ind Bulog Yantian Funggang Dongguan Guangdong China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항·제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.

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

2017년 10월 27일
Year month day

한국산업기술시험원
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)

첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명 (회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Not applicable				

유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등록을 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 200mA (with pigtails)	Lead wire type(pigtails)
FSD 250mA	Rated current is changed(AC250V 250mA)
FSD 250mA(with pigtails)	Rated current is changed(AC250V 250mA), Lead wire type(pigtails)
FSD 315mA	Rated current is changed(AC250V 315mA)
FSD 315mA(with pigtails)	Rated current is changed(AC250V 315mA), Lead wire type(pigtails)
FSD 400mA	Rated current is changed(AC250V 400mA)
FSD 400mA(with pigtails)	Rated current is changed(AC250V 400mA), Lead wire type(pigtails)
FSD 500mA	Rated current is changed(AC250V 500mA)
FSD 500mA(with pigtails)	Rated current is changed(AC250V 500mA), Lead wire type(pigtails)
FSD 630mA	Rated current is changed(AC250V 630mA)
FSD 630mA(with pigtails)	Rated current is changed(AC250V 630mA), Lead wire type(pigtails)
FSD 800mA	Rated current is changed(AC250V 800mA)
FSD 800mA(with pigtails)	Rated current is changed(AC250V 800mA), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0786 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F200mAL 250 V, 35A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 : 인증산업본부 전기부품평가센터 이 용 / 055-7913-422</p> <p>□ If you have any question on product testing, please contact the person below : Job holder: Certification Business Division, Electrical Components Testing Center, W. LEE /+82 55-7913-422</p>	

FP511-05

첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1 st Rev.) Change of company name (11-1920-2248 : 2011.05.09.) - Before : Ever Island Electric Co., Ltd. & Walter Electric After : Dongguan Walter Electric Co., Ltd
2 nd Rev.) Change of company name (17-049752-22-1 : 2017.08.23.) - Before : Dongguan Walter Electric Co., Ltd After : Dongguan Warren Electronic Co., Ltd.
3 rd Rev.) Change of company name (17-064872-22-1 : 2017.10.27.) - Before : Dongguan Warren Electronic Co., Ltd. After : Dongguan Walter Electric Co.,Ltd

FP511-06

顺海科技
0755-28100016

접수 번호 : 09-1920-0781
(Receipt No.)



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 (Certificate No.)	SU05015-9005
제조업자명 (Factory)	Suzhou Walter Electronic Co., Ltd.
대표자명 (President)	Mr. Yen Chun Chang
제조공장의 소재지 (Factory Address)	Fenhu, Technic Development Zone, Luxu Wu Jiang, Jiangsu, P.R.China
제품명 (Product)	소형퓨즈(Cartridge fuse-links)
기본모델명 (Basic Model)	FSD 200mA
정격 (Rating)	AC250V, 200mA
파생모델명 (Series Model)	See the attachment 2
적용기준 (Standard)	K60127-1, K60127-2

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2009년 03월 09일
year month day



한국산업기술시험원

KOREA TESTING LABORATORY



* 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부 : 1. 안전관리부품 및 재질목록 (List of Critical Components)
(Annex) 2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
3. 전기용품안전인증의 변경 현황 (Status of Certificate Revisions)

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 200mA (with pigtails)	Lead wire type(pigtails)
FSD 250mA	Rated current is changed(AC250V 250mA)
FSD 250mA(with pigtails)	Rated current is changed(AC250V 250mA), Lead wire type(pigtails)
FSD 315mA	Rated current is changed(AC250V 315mA)
FSD 315mA(with pigtails)	Rated current is changed(AC250V 315mA), Lead wire type(pigtails)
FSD 400mA	Rated current is changed(AC250V 400mA)
FSD 400mA(with pigtails)	Rated current is changed(AC250V 400mA), Lead wire type(pigtails)
FSD 500mA	Rated current is changed(AC250V 500mA)
FSD 500mA(with pigtails)	Rated current is changed(AC250V 500mA), Lead wire type(pigtails)
FSD 630mA	Rated current is changed(AC250V 630mA)
FSD 630mA(with pigtails)	Rated current is changed(AC250V 630mA), Lead wire type(pigtails)
FSD 800mA	Rated current is changed(AC250V 800mA)
FSD 800mA(with pigtails)	Rated current is changed(AC250V 800mA), Lead wire type(pigtails)
비고 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0781 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F200mAL 250 V, 35A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 전자부품센터 조인철 / (02)860-1425</p> <p>□ If you have any question on product testing, please contact the person below : Job holder : Digital Industry Division Electric Components Center, INCHUL CHO/+82 2 8601-425</p>	

FP511-09-00

접수 번호 : 09-1920-0777
(Receipt No.)



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 (Certificate No.)	SU05015-9001
제조업자명 (Factory)	Suzhou Walter Electronic Co., Ltd.
대표자명 (President)	Mr. Yen Chun Chang
제조공장의 소재지 (Factory Address)	Fenhu, Technic Development Zone, Luxu Wu Jiang, Jiangsu, P.R.China
제품명 (Product)	소형퓨즈(Cartridge fuse-links)
기본모델명 (Basic Model)	FSD 1A
정격 (Rating)	AC250V, 1A
파생모델명 (Series Model)	See the attachment 2
적용기준 (Standard)	K60127-1, K60127-2

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2009년 03월 09일
year month day

kti 한국산업기술시험원
KOREA TESTING LABORATORY



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

- 첨부 : 1. 안전관리부품 및 재질목록 (List of Critical Components)
(Annex) 2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
3. 전기용품안전인증의 변경 현황 (Status of Certificate Revisions)

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 1A (with pigtails)	Lead wire type(pigtails)
FSD 1.25A	Rated current is changed(AC250V 1.25A)
FSD 1.25A(with pigtails)	Rated current is changed(AC250V 1.25A), Lead wire type(pigtails)
FSD 1.6A	Rated current is changed(AC250V 1.6A)
FSD 1.6A(with pigtails)	Rated current is changed(AC250V 1.6A), Lead wire type(pigtails)
FSD 2A	Rated current is changed(AC250V 2A)
FSD 2A(with pigtails)	Rated current is changed(AC250V 2A), Lead wire type(pigtails)
FSD 2.5A	Rated current is changed(AC250V 2.5A)
FSD 2.5A(with pigtails)	Rated current is changed(AC250V 2.5A), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0777 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F1AL 250 V, 35A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 전자부품센터 조인철 / (02)860-1425</p> <p>□ If you have any question on product testing, please contact the person below : Job holder : Digital Industry Division Electric Components Center, INCHUL CHO/+82 2 8601-425</p>	

FP511-09-00

접수번호 : 09-1920-0779
(Receipt No.)



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 (Certificate No.)	SU05015-9003
제조업자명 (Factory)	Suzhou Walter Electronic Co., Ltd.
대표자명 (President)	Mr. Yen Chun Chang
제조공장의 소재지 (Factory Address)	Fenhu, Technic Development Zone, Luxu Wu Jiang, Jiangsu, P.R.China
제품명 (Product)	소형퓨즈(Cartridge fuse-links)
기본모델명 (Basic Model)	FSD 3.15A
정격 (Rating)	AC250V, 3.15A
파생모델명 (Series Model)	See the attachment 2
적용기준 (Standard)	K60127-1, K60127-2

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2009년 03월 09일
year month day



한국산업기술시험원
KOREA TESTING LABORATORY



* 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부 (Annex) :
1. 안전관리부품 및 재질목록 (List of Critical Components)
 2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
 3. 전기용품안전인증의 변경 현황 (Status of Certificate Revisions)

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 3.15A (with pigtails)	Lead wire type(pigtails)
FSD 4A	Rated current and breaking capacity is changed(AC250V 4A, 40A)
FSD 4A(with pigtails)	Rated current and breaking capacity is changed(AC250V 4A, 40A), Lead wire type(pigtails)
FSD 5A	Rated current and breaking capacity is changed(AC250V 5A, 50A)
FSD 5A(with pigtails)	Rated current and breaking capacity is changed(AC250V 5A, 50A), Lead wire type(pigtails)
FSD 6.3A	Rated current and breaking capacity is changed(AC250V 6.3A, 63A)
FSD 6.3A(with pigtails)	Rated current and breaking capacity is changed(AC250V 6.3A, 63A), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0779 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F3.15AL 250 V, 35A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 전자부품센터 조인철 / (02)860-1425</p> <p>□ If you have any question on product testing, please contact the person below : Job holder : Digital Industry Division Electric Components Center, INCHUL CHO/+82 2 8601-425</p>	

FP511-09-00

접수번호 : 09-1920-0778
(Receipt No.)



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 : SU05015-9002
(Certificate No.)

제조업자명 : Suzhou Walter Electronic Co., Ltd.
(Factory)

대표자명 : Mr. Yen Chun Chang
(President)

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

제품명 : 소형퓨즈(Cartridge fuse-links)
(Product)

기본모델명 : FSD 8A
(Basic Model)

정격 : AC250V, 8A
(Rating)

파생모델명 : FSD 8A(with pigtails), FSD 10A, FSD 10A(with pigtails)
(Series Model)

적용기준 : K60127-1, K60127-2
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2009년 03월 09일
year month day



한국산업기술시험원
KOREA TESTING LABORATORY



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- 첨부 : 1. 안전관리부품 및 재질목록 (List of Critical Components)
(Annex) 2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
3. 전기용품안전인증의 변경 현황 (Status of Certificate Revisions)

□ 첨부 2 : 기본모델 - 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 8A (with pigtails)	Lead wire type(pigtails)
FSD 10A	Rated current and breaking capacity is changed(AC250V 10A, 100A)
FSD 10A(with pigtails)	Rated current and breaking capacity is changed(AC250V 10A, 100A), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0778 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F8AL 250 V, 80A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 전자부품센터 조인철 / (02)860-1425</p> <p>□ If you have any question on product testing, please contact the person below : Job holder : Digital Industry Division Electric Components Center, INCHUL CHO/+82 2 8601-425</p>	

FP511-09-00

□ 첨부 3 : 전기용품안전인증의 변경 현황
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
<p>Not applicable</p>

FP511-11-00

접수 번호 : 09-1920-0780
(Receipt No.)



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호
(Certificate No.) SU05015-9004

제조업자명 : Suzhou Walter Electronic Co., Ltd.
(Factory)

대표자명 : Mr. Yen Chun Chang
(President)

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

제품명 : 소형퓨즈(Cartridge fuse-links)
(Product)

기본모델명 : FSD 12A
(Basic Model)

정격 : AC250V, 12A
(Rating)

파생모델명 : FSD 12A(with pigtails), FSD 15A, FSD 15A(with pigtails)
(Series Model)

적용기준 : K60127-1, K60127-2
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여
안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2
of the Electrical Appliances Safety Control Law Enforcement Regulation.

2009년 03월 09일
year month day

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한국산업기술시험원

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법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부 : 1. 안전관리부품 및 재질목록 (List of Critical Components)
(Annex) 2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
3. 전기용품안전인증의 변경 현황 (Status of Certificate Revisions)

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
FSD 12A (with pigtailed)	Lead wire type(pigtails)
FSD 15A	Rated current and breaking capacity is changed(AC250V 15A, 150A)
FSD 15A(with pigtailed)	Rated current and breaking capacity is changed(AC250V 15A, 150A), Lead wire type(pigtails)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report Ref. No. : 09-1920-0780 (2009.03.05.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - MINIATURE FUSE - Standard sheet 2 - Quick-acting - Low-breaking capacity - F12AL 250 V, 120A 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 전자부품센터 조인철 / (02)860-1425</p> <p>□ If you have any question on product testing, please contact the person below : Job holder : Digital Industry Division Electric Components Center, INCHUL CHO/+82 2 8601-425</p>	

FP511-09-00

□ 첨부 3 : 전기용품안전인증의 변경 현황
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
Not applicable

FP511-11-00