

1. 適用範圍 / SCOPE
WN20 系列小型保險絲，適用於數字儀表。
WN20 series Miniature-Fuse, used in Digital Measuring Instruments.



2. 產品型號 / TYPE
例「example」：



- ① 系列號 / Series Number
- ② 額定電流 / Rated Current
- ③ 額定電壓 / Rated Voltage
- ④ 認證符號 / Approved Symbol

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

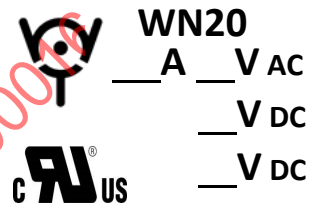
額定電流 / Rated Current: 500mA~20A
額定電壓 / Rated Voltage: 400/500V DC 600VAC

4. 標示 / MARKING

保險絲上需有下列標示/The fuses shall have the following marking

製造工廠的標識+系列號/ Manufacture's Logo+ Part Number:

額定電流+額定電壓/ Rated Current (A)+ Rated Voltage(V):



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.

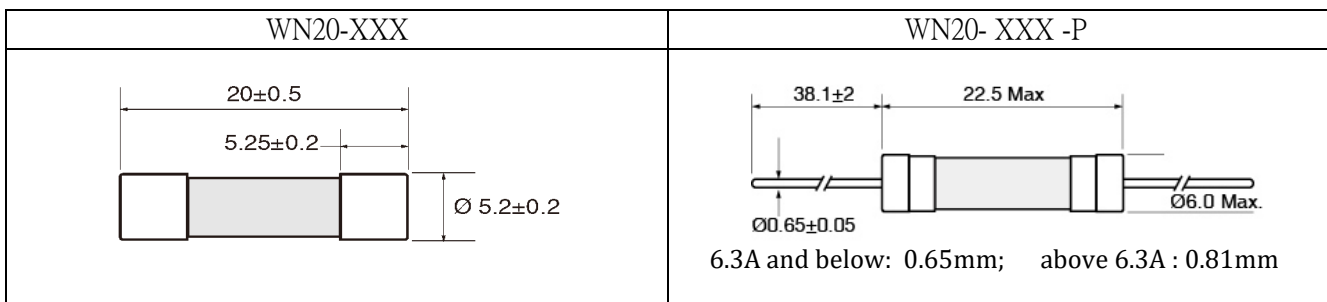
5. 外觀及形狀 / APPEARANCES AND CONFIGURATION

5-1 外觀：不應有破碎、明顯的污斑。 / Appearances: There shall not be break up and any remarkable blotch.

5-2 形狀：小型保險絲。 / Configuration: Miniature-Fuse

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

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



7. 電氣特性 / ELECTRICAL CHARACTERISTICS

Rated Current	1.5In	2.1In	2.75In	3.0In	4.0In	10.0In
< 1A	1 hour min.	N/A	N/A	120s max	N/A	N/A
1A - 3.15A	1 hour min.	30min. max.	750ms - 80s	N/A	95ms - 5s	10ms - 150ms
4A - 6.3A	1 hour min.	30min. max.	750ms - 80s	N/A	150ms - 5s	10ms - 150ms
8A - 20A	30min. min.	30min. max.	750ms - 80s	N/A	150ms - 8s	10ms - 150ms

說明/Specifications

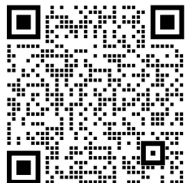
品名 Part No	料號 Ordering P/N		額定電壓 Rated Voltage		額定電流 Rated Current	分斷能力 Breaking Capacity (A)			電阻 Typical Cold Resistance (mΩ)	電壓降 Typical Voltage Drop (mV)	I ² t 值 Typical Pre-Arcing I ² t (A ² S)
			AC	DC		600Vac	400Vdc	500Vdc			
WN20	WN20-XXX	WN20-XXX-P									
	WN20-0.5	WN20-0.5-P	600V	400V 500V	500mA	200A	2000A	300A	382	190	0.287
	WN20-0.63	WN20-0.63-P			630mA				359	261	0.34
	WN20-0.8	WN20-0.8 -P			800mA				175	144	1.18
	WN20-1	WN20-1 -P			1A				210	250	1.40
	WN20-1.25	WN20-1.25-P			1.25A				134	138	2.34
	WN20-1.6	WN20-1.6 -P			1.6A				100	180	3.90
	WN20-2	WN20-2 -P			2A				65	158	9.4
	WN20-2.5	WN20-2.5 -P			2.5A				34	93	12.5
	WN20-3.15	WN20-3.15-P			3.15A				28	110	17.8
	WN20-4	WN20-4 -P			4A				24	118	25
	WN20-5	WN20-5 -P			5A				17	104	50
	WN20-6.3	WN20-6.3 -P			6.3A				13	100	80
	WN20-8	WN20-8 -P			8A				9	85	179
	WN20-10	WN20-10 -P			10A				7.6	90	400
	WN20-12	WN20-12 -P			12A				6	80	576
	WN20-15	WN20-15 -P			15A				4.3	75	900
	WN20-16	WN20-16 -P			16A				3.7	68	1024
WN20-20	WN20-20 -P	20A			3.3				75	1600	

*冷電阻在直流<10%額定電流條件下 25°C 環境溫度中測量

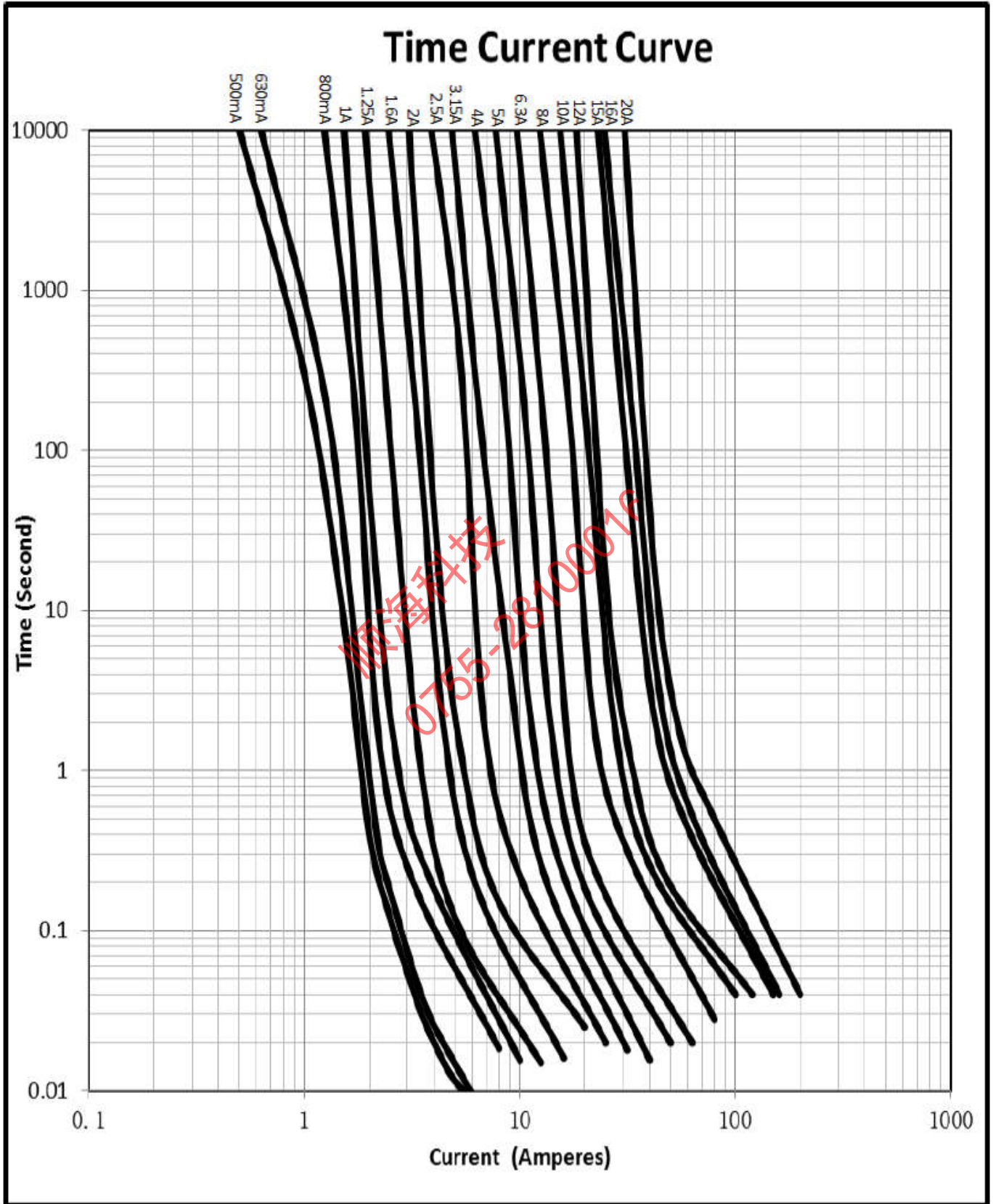
DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

* I²t 值是以 10In 電流測量

Typical Pre-arching I²t are measured at 10In Current



8. 時間電流曲線 Time-Current Curve



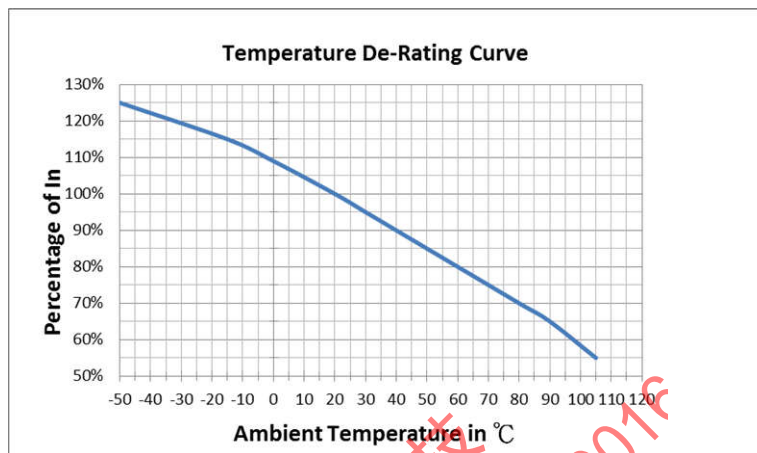
9.環境特性 / ENVIRONMENTAL CHARACTERISTIC

9-1操作溫度範圍: $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ / Operating Temperature: $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$

若貴司操作環境溫度超出 $25 \pm 5^{\circ}\text{C}$ 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 $20 \sim 30^{\circ}\text{C}$, 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 $+10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ 、相對濕度 $\leq 75\%$ 的密閉條件下可存放3年。

Under airtight in temperature $+10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ 、relative humidity $\leq 75\%$ can store 3 years.

在溫度 $+10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ 、相對濕度為95%的非露天下最多可存放30天。

Without dew in temperature $+10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ 、relative humidity be 95% maximum value for 30days.

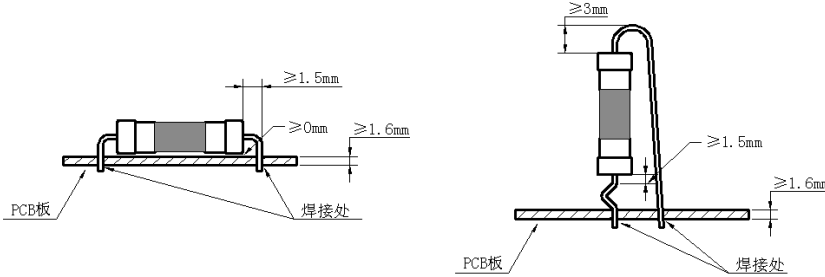
10.安全認證及編號 / STANDARDS AND APPROVALS

UR	E56092 (100mA~20A JDYX2)
CUR	E56092 (100mA~20A JDYX8)
TUV	B 101823 0001 Rev. 00 (1A~16A)

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

11-1 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.



11-2 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±3°C

焊接時間 / Solder Dwell Time: 10s Max

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

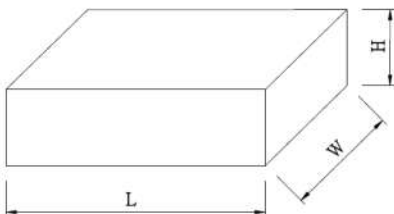
12. 包裝 / PACKING

12-1 數量 / Quantity

規格/Specs	袋 Inner polybag	小盒 Inner small box .	大盒 Inner big box	外箱 outer carton
WN20-XXX (rated current <1A)	500 PCS	/	500 PCS	10K PCS
WN20-XXX (rated current 1-2.5A)	/	40 PCS	400 PCS	9600 PCS
WN20-XXX (rated current ≥3A)	500 PCS	/	500 PCS	10K PCS
WN20-XXX-P	50 PCS	/	200 PCS	4000 PCS

12-2 內盒(大) / Inner big box

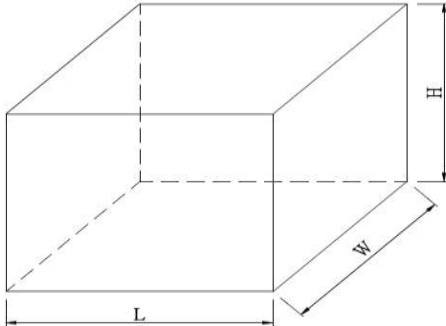
單位/Unit : mm



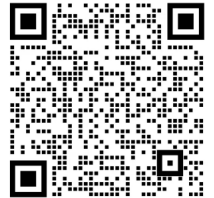
規格/ Specs	L	W	H
WN20-XXX (rated current <1A)	185±3	75±3	65±3
WN20-XXX (rated current 1-2.5A)	115±3	110±3	45±3
WN20-XXX (rated current ≥3A)	185±3	75±3	65±3
WN20-XXX-P	140±3	105±3	45±3

12-3 外箱 / Outer carton

單位/Unit : mm



規格/ Specs	L	W	H
WN20-XXX (rated current <1A)	400±5	380±5	140±5
WN20-XXX (rated current 1-2.5A)	380±5	245±5	200±5
WN20-XXX (rated current ≥3A)	400±5	380±5	140±5
WN20-XXX-P	340±5	270±5	210±5



13.其他 / OTHERS

13-1 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.

13-2 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.

順海科技 0755-29100018

版次	製作	確認	審核
第七版	侯愛珍	吳讓彬	Andrew



UL iQ for Fuses



Fuses

E56092

Guide Information

SUZHOU WALTER ELECTRONIC CO LTD

NO.99 Xinli Road, Fenhu Technic Development Zone, Wujiang Jiangsu 215211 CN

WN20

Supplemental fuses: filled-tube

<u>Size</u> mm(in)	<u>Amps</u> (A)	<u>Volts</u> (V)	<u>Interrupting</u> <u>Rating (A)</u>
-	0.1 - 20	600Vac	200
	0.1 - 20	500Vdc	300
	0.1 - 10	400Vdc	2000
	0.1 - 1	600Vac	1000

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