

Material	Body: Ceramic tube Terminal Cap: Silver plated Copper Leads: Tin plated Copper
Melting Test	UL-248-1/UL-248-14 IEC60127-2/IEC60127-3
Interrupting Capacity	UL248-1 IEC60127-2
Temperature Rise	UL248 At 1.0In rated current, when the temperature reaches stability, the temperature difference should be less than130K
Mechanical Vibration	MIL-STD-202G, Method 204D Frequency: 10-55-10Hz/Min, Amplitude: 1.5mm
Mechanical Shock	MIL-STD-202G, Method 213B 50g, Half-sine for 11ms
Terminal Strength	MIL-STD-202G, Method 211A 9N for 1Min
Thermal Shock	MIL-STD-202G, Method 107G -55℃~125℃, 5 circles
Heat Resistance	IEC60127-2C lauseA3.4 260℃, 10s
Salt Spray	GB/T2423.17/IEC 60068-2-20
High Temperature and Humidity	MIL-STD-202, Method 103B 85℃/85%RH, 1000 hrs
Solderability	MIL-STD-202, Method 208 with a little flux in the end of terminal, immerse in 245±5℃ tin furnace at an Angle of 45° for 5s
Flammability	UL94-V0

Description

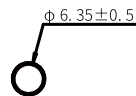
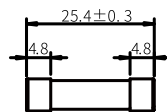
- High breaking capacity;
- 6 x 25mm physical size;
- Ceramic tube, Silver plated copper cap;
- Designed to UL 248-1;
- Lead free and Halogen free material;
- Normal operating conditions: - 5°C ~40°C;
- Permissible conditions of use: - 40°C~125°C;
- Lightning Surge(Test: 8/20us)
- High inrush current withstanding capability

Applications

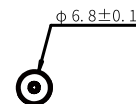
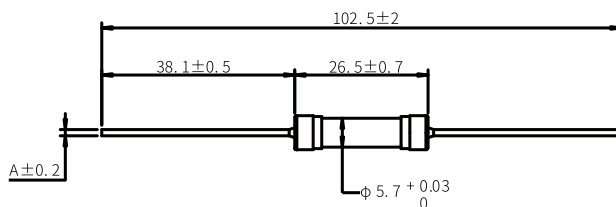
Wireless base station; Power supply; A packet data unit of telecom data center; Power conversion equipment; Power inverter; VFD; Motor drive; High performance application.

Dimensions (Unit: mm)

625TD-A Series



625TD-AP Series



Note: 5A-10A select φ0.8±0.1mm needle cover
10A-20A select φ1.0±0.1mm needle cover
25A-50A select φ1.2±0.1mm needle cover
*Special length customization consulting FAE

Structural Characteristics:

Ceramic Tube: No breakage and cracks

Verification 1: Fix the end caps on both sides, apply 30N pressure at the center of the ceramic tube, and the ceramic tube shall not break.

End caps: The end cap shall be welded/riveted firmly, and the end cap shall not fall off without the elements damage.

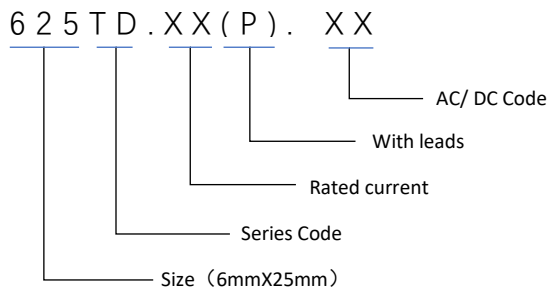
Verification 1: soaking in 15-35°C water for more than 24hrs, then apply a pull force of 7N is evenly to both caps for 60s.

The end caps should not fall off.

Verification 2: Fix the one of caps, apply 7N tension along the horizontal axis on the other cap, and the caps on both sides shall not be loose and the body shall not be broken.

Verification 3: Fix the one of caps, apply 50N torque to twist the other cap in the clockwise and counter-clockwise direction, and the caps on both sides should not be loose and the body should not be broken.

Ordering Information



Electrical Characteristics

- All the test conditions were carried out at 23±5°C. During this period, the variation of lab temperature should not exceed ±5°C.
- Load capacity test: when the fuse is tested at 100% rated current, the circuit shall not be disconnected, the fuse shall not be electrically fused, and the body shall not be broken within 4 hours.
- Temperature rise test: The fuse is tested at 100% rated current, when the fuse reaches heat balance, temperature rise of fuse surface and the caps must be no more than 130°C.

*Note: Temperature appreciation is constant fuse surface temperature minus current room temperature (ambient temperature).

- Current characteristics: When the fuse passes at the current specified below, the fuse time must meet the requirements of the table. The tube body should not be broken and the end caps should not fall off after fuse.

Current	1.0I _n	2.0I _n
5A-50A	4 Hour Min	30min Max

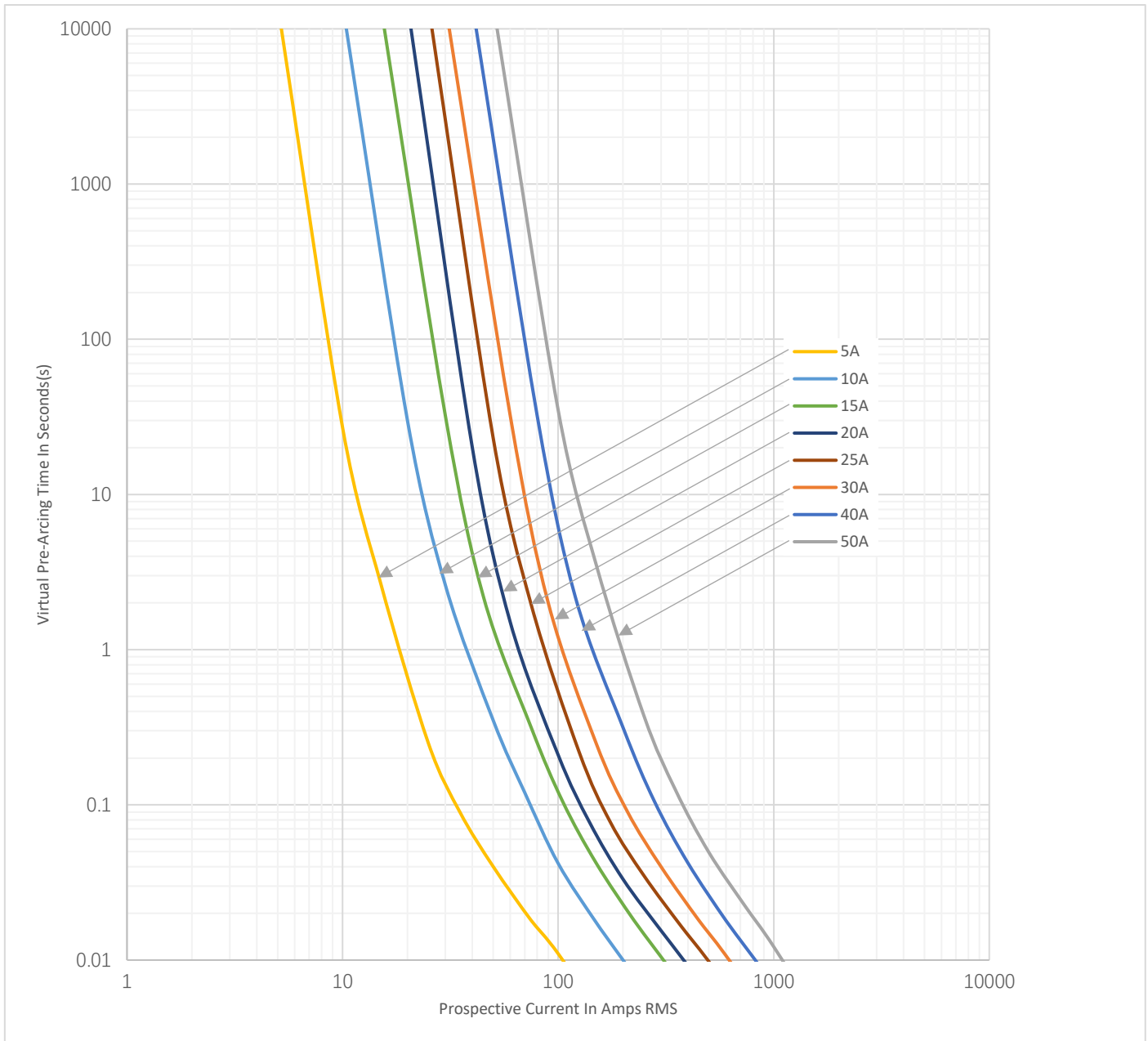
Technical Parameter

Item	Part No.	Rated Current	Rated Voltage			Interrupting Capacity	Typ.Cold Resistance (mΩ)	Typical Pre-arcing I ² t(A ² s)
1	625TD.5	5A	250Vac	250Vdc	125Vdc/ 80Vdc/ 75Vdc	2000A@250Vac (5~20A) 300A@250Vdc (5~30A) 2000A@125Vdc (5~50A) 2500A@80Vdc (5~50A) 2500A@75Vdc (5~50A)	22.5	45
2	625TD.10	10A					9.20	300
3	625TD.15	15A					5.60	640
4	625TD.20	20A					3.90	1040
5	625TD.25	25A	-	-	-	2.90	2750	
6	625TD.30	30A	-	-	-	2.00	3950	
7	625TD.40	40A	-	-	-	1.40	9100	
8	625TD.50	50A	-	-	-	1.05	13550	

*Surge rating: 1.2/50-8/20μs, 5-50A (DY193404)

* Surge rating:8/20μs, Peak surge current is 8(±10%) kA, 5 times at each polarity.

Time Current Curve



*For reference only

*For more details, please consult our Fae

INTERRUPTING CAPACITY

- The interrupting capacity of the stated type fuse shall meet the safety certification capacity requirements of the form below.
- After the fuse cuts off the circuit, the body should not be broken and the caps should not fall off.
- Insulation resistance at the ends of the points after melting <math>< 0.1 \text{ M}\Omega</math> .

Temperature Derating Curve (Recommended)

Effect of ambient temperature on current-carrying capacity

