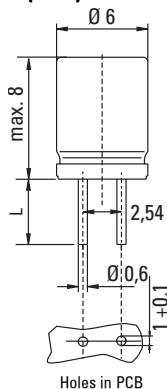


## No. 303 / TR3



### Dimensions (mm)



Long Leads (L=18.8mm)  
Short Leads (L=4.3mm)

## UL 248-14, 125V, F

### Time-Current Characteristic

Quick Acting (F)

### Standard

UL 248-14  
CSA C22.2 No. 248.14

### Approvals

UL Listed  
CSA Certified

## Features

- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shocksafe casing
- Vibration resistant

## Specifications

### Packaging

- 000: Tape/Ampack (1500 pcs.)
- 013: Long Leads - Bulk (200 pcs.)
- 042: Short Leads - Bulk (300 pcs.)

### Materials

- Base/Cap: Black Thermoplastic Base  
Polyamide PA 6.6, UL 94V0  
Brass, nickel-plated Cap
- Round Pins: Copper alloy, tin plated

### Operating Temperature

-25 °C to +70 °C (consider de-rating)

### Climatic Category

-25 °C/+70 °C/21 days (EN 60068-1,-2-1,-2-2,-78)

### Stock Conditions

- +10 °C to +60 °C
- relative humidity ≤ 75 % yearly average,
- without dew, maximum value for 30 days-95 %

### Vibration Resistance

- 24 cycles at 15 min. each (EN 60068-6)
- 10 - 60 Hz at 0.75 mm amplitude
- 60 - 2000 Hz at 10 g acceleration

### Lead Pull Strength

10 N (EN 60068-2-21)

### Solderability

- 260 °C, ≤ 3 s (Wave)
- 350 °C, ≤ 1 s (Soldering Iron)

### Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

### Marking

Ⓢ, Voltage Rating, Current Rating, Approvals

### Unit Weight

0.40 g (approx.)

### Limits for Pre-arcing Time

Rated Current	2.0 x I <sub>N</sub>	2.0 x I <sub>N</sub> Ⓢ
50 mA ... 5.00 A	< 60 s	< 5 s



Permissible continuous operating current is ≤ 70 % at ambient temperature of 23 °C (73.4 °F).

Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I <sub>N</sub> Ⓢ max. (mV)	Power Dissipation 1.0 x I <sub>N</sub> Ⓢ max. (mW)	Melting Integral 10 x I <sub>N</sub> Ⓢ max. (A²s)	Approvals	
							UL	CSA
50mA	0050	125V		800	40	0.0007	•	•
63mA	0063	125V		780	50	0.0013	•	•
80mA	0080	125V		730	60	0.0002	•	•
100mA	0100	125V		700	70	0.0004	•	•
125mA	0125	125V		650	85	0.0022	•	•
160mA	0160	125V		600	100	0.0029	•	•
200mA	0200	125V		550	110	0.0042	•	•
250mA	0250	125V	50A / 125 V AC	500	125	0.0082	•	•
315mA	0315	125V	50-60Hz	450	145	0.015	•	•
400mA	0400	125V	cos φ = 1.0	400	160	0.025	•	•
500mA	0500	125V		380	190	0.042	•	•
630mA	0630	125V		160	100	0.015	•	•
800mA	0800	125V	50A / 63 V DC	155	125	0.025	•	•
1.00A	1100	125V		150	155	0.039	•	•
1.25A	1125	125V		145	185	0.059	•	•
1.60A	1160	125V		140	225	0.11	•	•
2.00A	1200	125V		130	260	0.17	•	•
2.50A	1250	125V		125	315	0.23	•	•
3.15A	1315	125V		120	380	0.45	•	•
4.00A	1400	125V		110	440	1.0	•	•
5.00A	1500	125V		105	525	1.5	•	•

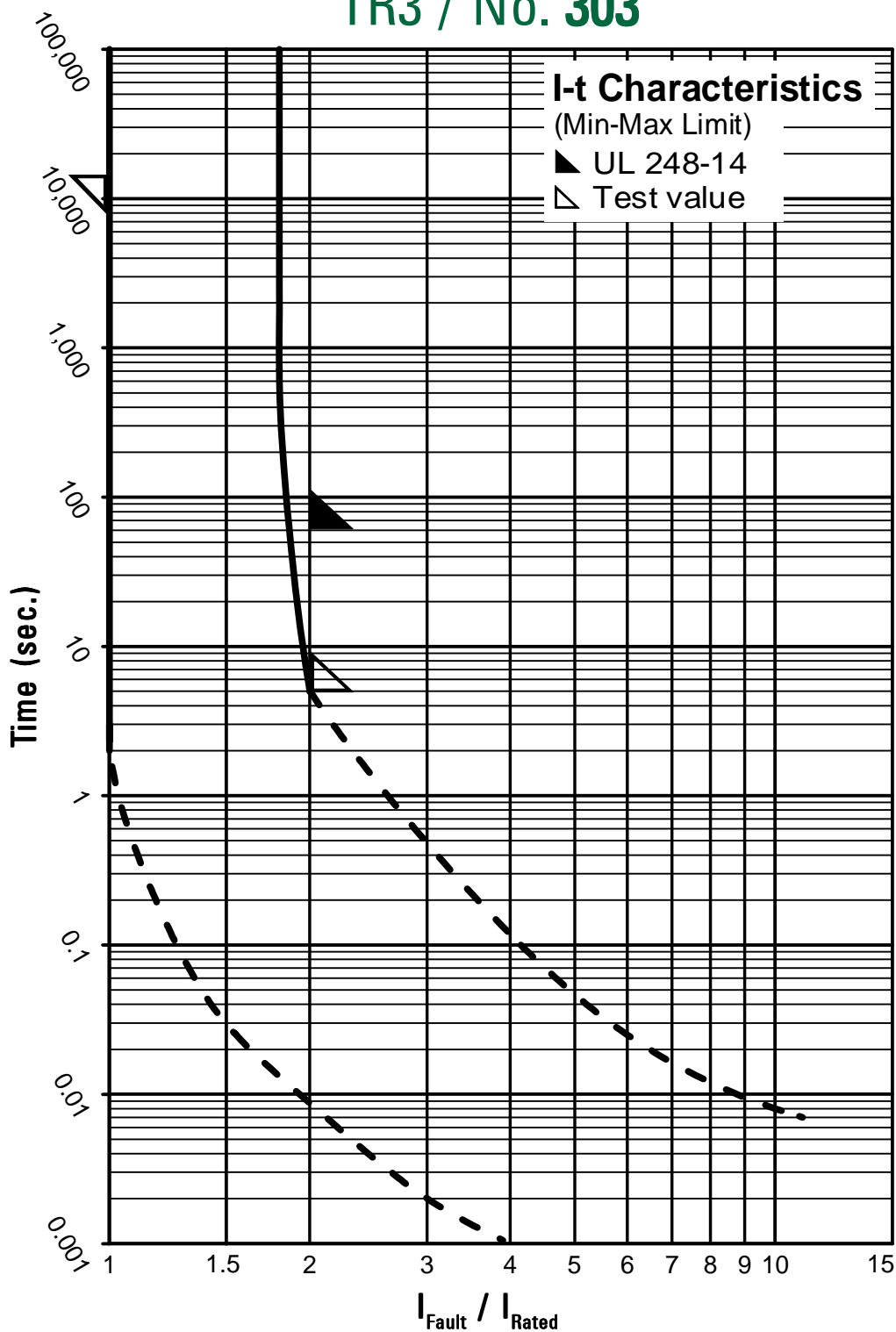
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

### Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		303		

Specifications are subject to change without notice

## TR3 / No. 303



Contact Littelfuse for individual I-t curves