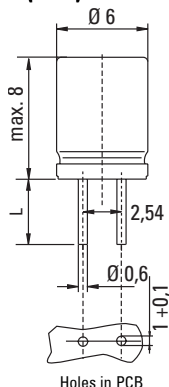


No. 303 / TR3



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/Ammopack (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	$2.0 \times I_N$	$2.0 \times I_N$ Ⓢ
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 $1.0 \times I_N$ Ⓢ max. (mV)	Power Dissipation $1.0 \times I_N$ Ⓢ max. (mW)	Melting Integral $10 \times I_N$ Ⓢ max. (A²s)	Approvals UL CSA
50mA	0050	125V		800	40	0.00007	• •
63mA	0063	125V		780	50	0.00013	• •
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	• •

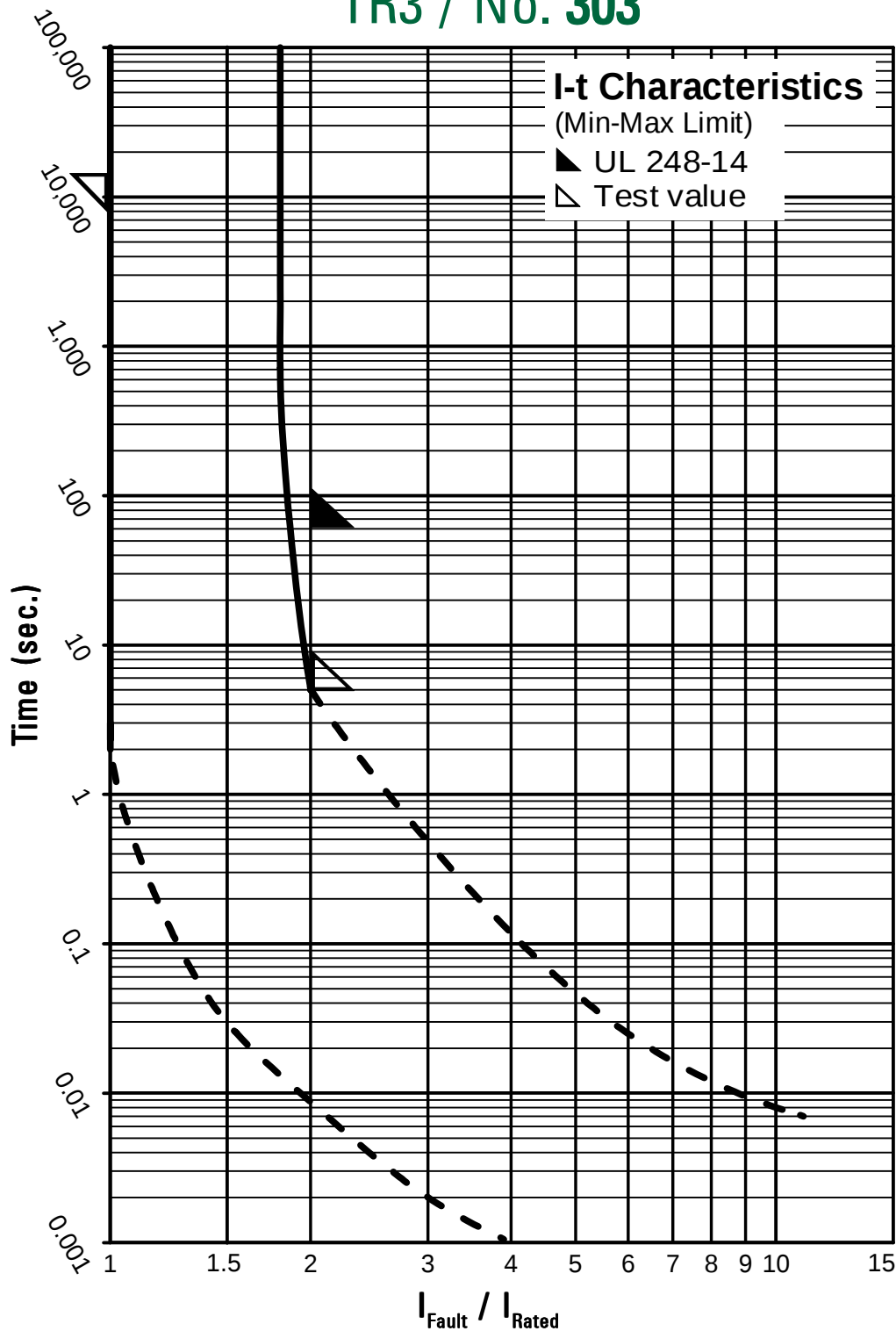
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

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