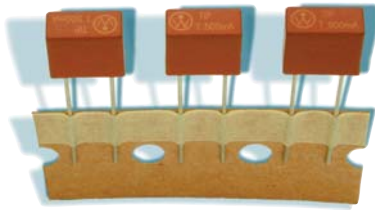


No. 385 / TIP



Telecom Interface Protector Specifications

Lead Free

Time-Current Characteristic
Transient Tolerant (T)

Standard
UL 248-14
CSA C22.2 No. 248.14

Approvals
cULus Recognized

Features

- Surge proof for telecom applications
- Reduced PCB space requirements
- Highly defined cut-off times
- Irreversible physical separation
- Low internal resistance
- Flame resistant encapsulated casing

Packaging

000: Tape/Ammopack (1400 pcs.)

Materials

Base/Cap: Brown Thermoplastic
Polyamide PA 6.6, UL 94V0
Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+85 °C/21 days
(EN 60068-1,-2-1,-2-2,-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

10N (EN 60068-2-21)

Solderability

260 °C, ≤ 3 s (Wave)
350 °C, ≤ 3 s (Soldering iron)

Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

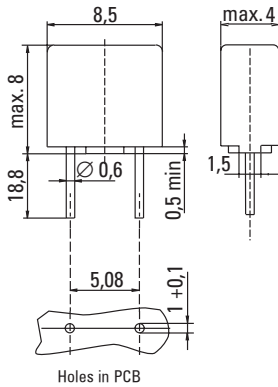
Marking

Ⓢ, TIP, T, Current Rating

Unit Weight

0.60 g (approx.)

Dimensions (mm)



Limits for Pre-arcing Time

| | | |
|-------------------|----------------------|------------------------|
| Rated Current | 1.0 x I _N | 3.0 x I _N Ⓢ |
| 350 mA ... 1.50 A | > 2 h | 300 ms ... 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 | Cold Resistance 0.1 x I _N Ⓢ max. (mΩ) | Voltage Drop 1.0 x I _N Ⓢ max. (mV) | Power Dissipation 1.0 x I _N Ⓢ max. (mW) | Melting Integral 10 x I _N Ⓢ min. (A²s) | Surge Amplitude (A) ¹ | | | Approvals |
|---------------|----------|----------------|--|--|---|--|---|----------------------------------|----------|-----|-----------|
| | | | | | | | | FCC | Bellcore | ITU | |
| 350mA | 0350 | 125V | 50 A / 125 V AC 50-60 Hz cos φ = 1.0 | 540 | 250 | 90 | 0.6 | 32 | 19 | 36 | • |
| 500mA | 0500 | 125V | | 320 | 220 | 110 | 1.2 | 48 | 26 | 61 | • |
| 800mA | 0800 | 125V | | 160 | 170 | 130 | 2.7 | 80 | 42 | 67 | • |
| 1.00A | 1100 | 125V | | 105 | 140 | 130 | 4.5 | 100 | 52 | 67 | • |
| 1.25A | 1125 | 125V | | 75 | 125 | 140 | 6.7 | 128 | 65 | 67 | • |
| 1.50A | 1150 | 125V | | 60 | 120 | 170 | 9.0 | 155 | 78 | 67 | • |

¹ FCC 47 Part 68: Minimum pulse load quantity is 2 pulses at a test generator output of 800V and 10x560µs waveform.
ITU-T K.20: Minimum pulse load quantity is 30 pulses at a test generator output of 1000V, 67A and 10x700µs waveform.
Bellcore GR-1089: Minimum pulse load quantity is 50 pulses at a test generator output of 1000V and 10x1000µs.

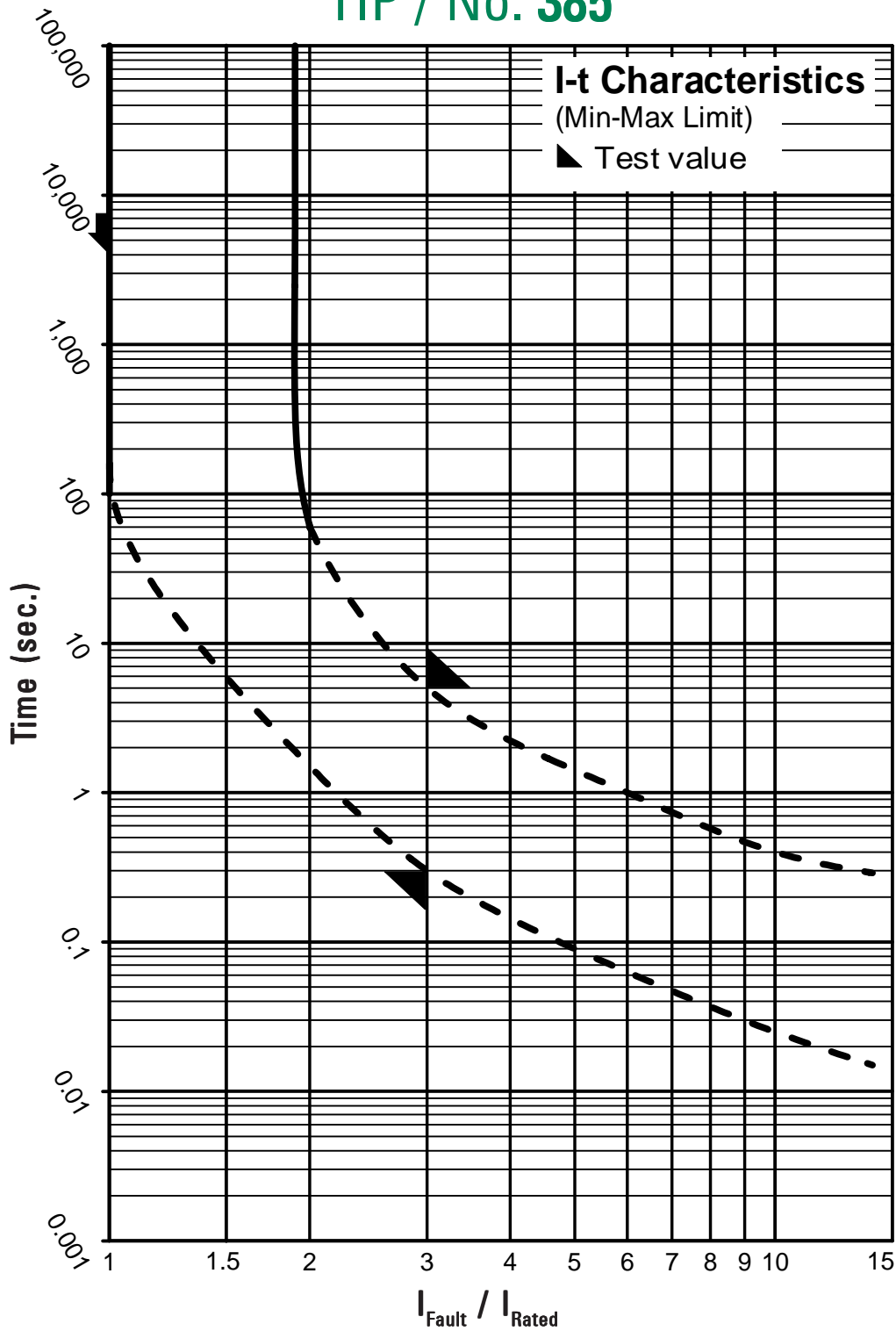
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
| | | 385 | | |

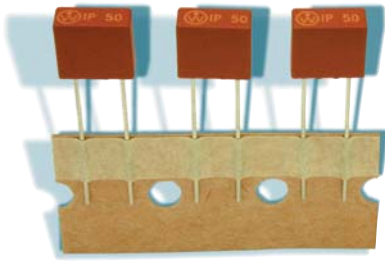
Specifications are subject to change without notice

TIP / No. 385

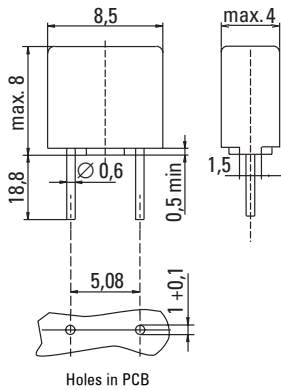


Contact Littelfuse for individual I-t curves

IP / No. 389



Dimensions (mm)



Protector, 65V

For Short Circuit Protection of Sensitive Electronic Components and Assemblies

Time-Current Characteristic

Time Lag (T)

Operating Criteria

Maximum continuous current:
 $I_C \geq I_{\text{operating max}} \times F_T$ time lag

Maximum fault current:
 $I_{\text{Fault}} \leq 10A$ at 250VAC

Features

- For worldwide applications
- Reduced PCB space requirements
- Highly defined cut-off times
- Irreversible physical separation
- Low internal resistance
- Flame resistant encapsulated casing

Specifications

Packaging

000: Tape/Ammopack (1400 pcs.)

Materials

Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94V0
 Round Pins: Copper, tin plated

Operating Temperature

-40°C to +85°C (consider de-rating)

Climatic Category

-25°C/+70°C/21 days (EN 60068-1..3)

Stock Conditions

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

Vibration Resistance

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

Lead Pull Strength

10N (EN 60068-2-21)

Solderability

260°C, ≤ 3 sec. (Wave)
 350°C, ≤ 1 sec. (Hand)

Soldering Heat Resistance

260°C, 10 sec. (IEC 60068-2-20)

Marking

Type

Unit Weight

0.60g (approx.)

Limits for Pre-arcing Time

| | | | |
|---------------|-----------------------------|------------------------------|-----------------------------|
| Rated Current | $1.4 \times I_{\text{Rat}}$ | $1.66 \times I_{\text{Rat}}$ | $2.5 \times I_{\text{Rat}}$ |
| 60mA | | > 600 s | < 45 s |



Permissible continuous operating current is $\leq 100\%$ at ambient temperature of 23°C (73.4°F).

| Continous Current I_C | Type | Amp Code | Voltage Rating | Fault Current max. | Cold Resistance $0.1 \times I_C$ typ. (mΩ) | Power Dissipation $1.0 \times I_C$ max. (mW) | Melting Integral $10 \times I_C$ typ. (A²s) |
|-------------------------|------|----------|----------------|--|--|--|---|
| 60mA | | 0060 | 250 V AC | 10A/250VAC/DC 50-60Hz $\cos\phi=1.0$ | 6080 | 100 | 0.033 |

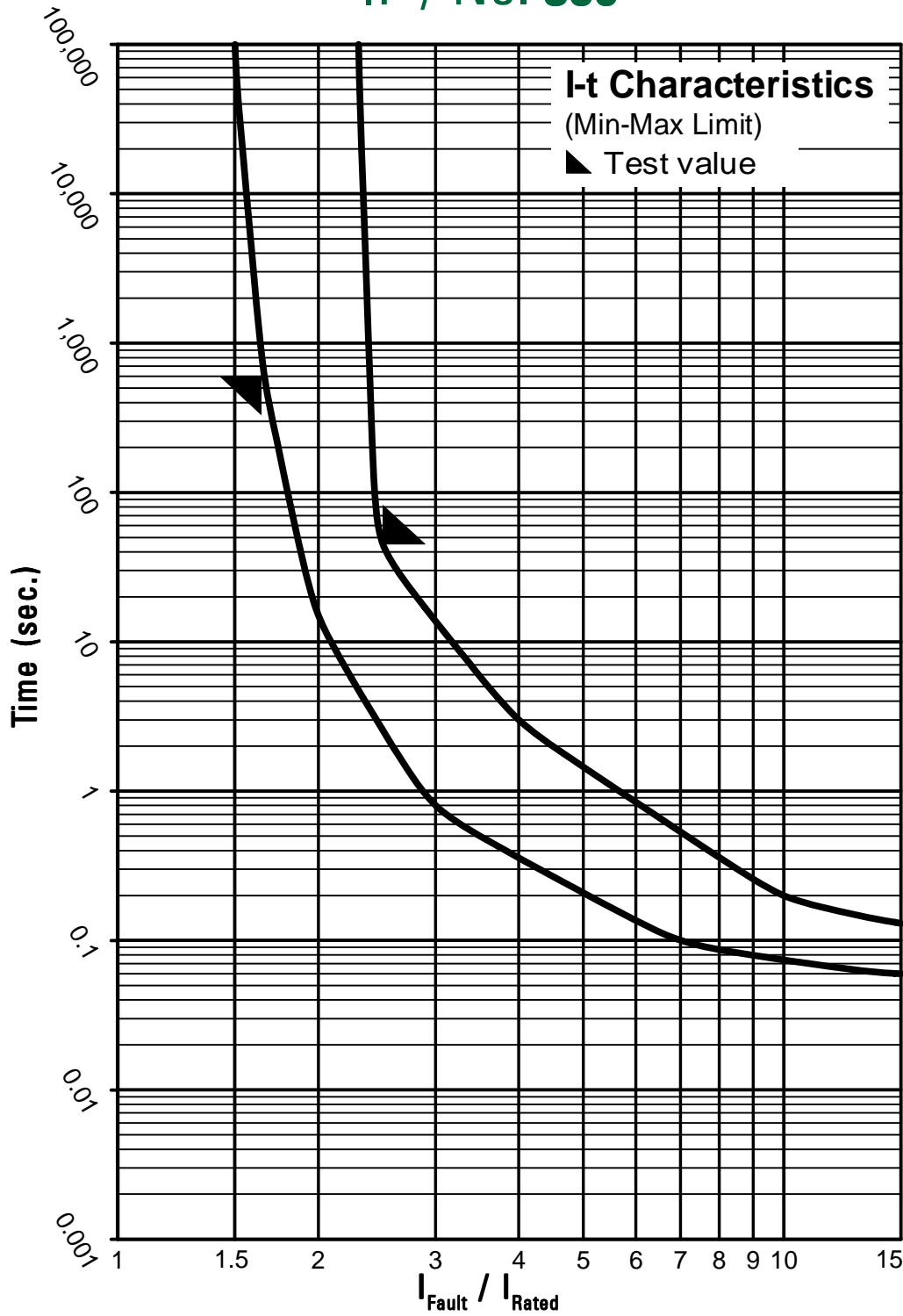
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
| | | 389 | | |

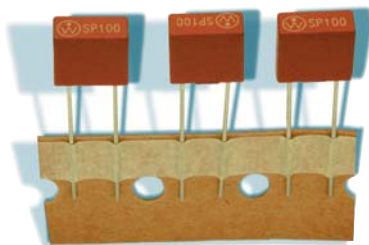
Specifications are subject to change without notice

IP / No. 389

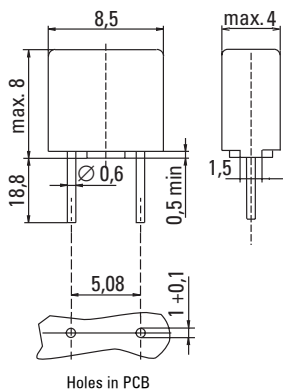


Contact Littelfuse for individual I-t curves

No. 391 / SP



Dimensions (mm)



Short Circuit Protector, 65 V leadfree

For Short Circuit Protection of Sensitive Electronic Components and Assemblies

Time-Current Characteristic
Quick Acting (F)

Approvals
cULus Recognized

Operating Criteria
Maximum continuous current:
 $I_C \geq I_{operating} \max \times F_T$ quick acting

Maximum melting integral:
 $I^2t_{SP} < I^2t_{semiconductor}$ (warm)

Minimum fault current:
 $I_{Fault} \geq 3 \times I_C$

Maximum fault current:
 $I_{Fault} \leq 50A$ at 65VAC/DC

Features

- For worldwide applications
- Reduced PCB space requirements
- Highly defined cut-off times
- Irreversible physical separation
- Low internal resistance
- Flame resistant encapsulated casing



Packaging

000: Tape/Ammopack (1400 pcs.)

Materials

Base/Cap: Brown Thermoplastic
Polyamide PA 6.6, UL 94V0
Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+85 °C/21 days (EN 60068-1,-2-1,-2-2,-78)

Stock Conditions

+10 °C to +60 °C
relative humidity $\leq 75\%$ 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, ≤ 3 s (Soldering Iron)

Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

Marking

Ⓢ, Type

Unit Weight

0.60 g (approx.)



Permissible continuous operating current is $\leq 100\%$ at ambient temperature of 23 °C (73.4 °F).

| Continous Current I_C | Type | Amp Code | Voltage Rating | Fault Current max. | Cold Resistance $0.1 \times I_C$ typ. (mΩ) | Power Dissipation $1.0 \times I_C$ max. (mW) | Melting Integral $10 \times I_C$ typ. (A ² s) | Approvals cULus |
|----------------------------|-------|----------|----------------|--------------------|--|--|--|--------------------|
| 125 mA | SP 13 | 0125 | 65 V | | 3400 | 190 | 0.005 | • |
| 160 mA | SP 16 | 0160 | 65 V | | 2450 | 210 | 0.0095 | • |
| 200 mA | SP 20 | 0200 | 65 V | | 1750 | 240 | 0.019 | • |
| 250 mA | SP 25 | 0250 | 65 V | | 195 | 52 | 0.012 | • |
| 315 mA | SP 32 | 0315 | 65 V | | 155 | 65 | 0.018 | • |
| 400 mA | SP 40 | 0400 | 65 V | | 120 | 85 | 0.034 | • |
| 500 mA | SP 50 | 0500 | 65 V | 50A/65 VAC/DC | 95 | 105 | 0.057 | • |
| 630 mA | SP 63 | 0630 | 65 V | 50-60Hz | 75 | 135 | 0.095 | • |
| 800 mA | SP 80 | 0800 | 65 V | $\cos \phi = 1.0$ | 58 | 170 | 0.16 | • |
| 1.00 A | SP100 | 1100 | 65 V | | 46 | 220 | 0.27 | • |
| 1.25 A | SP125 | 1125 | 65 V | | 37 | 270 | 0.45 | • |
| 1.60 A | SP160 | 1160 | 65 V | | 29 | 350 | 0.77 | • |
| 2.00 A | SP200 | 1200 | 65 V | | 23 | 440 | 0.85 | • |
| 2.50 A | SP250 | 1250 | 65 V | | 18 | 550 | 2.2 | • |
| 3.15 A | SP315 | 1315 | 65 V | | 14 | 700 | 3.7 | • |
| 4.00 A | SP400 | 1400 | 65 V | | 12 | 900 | 6.5 | • |

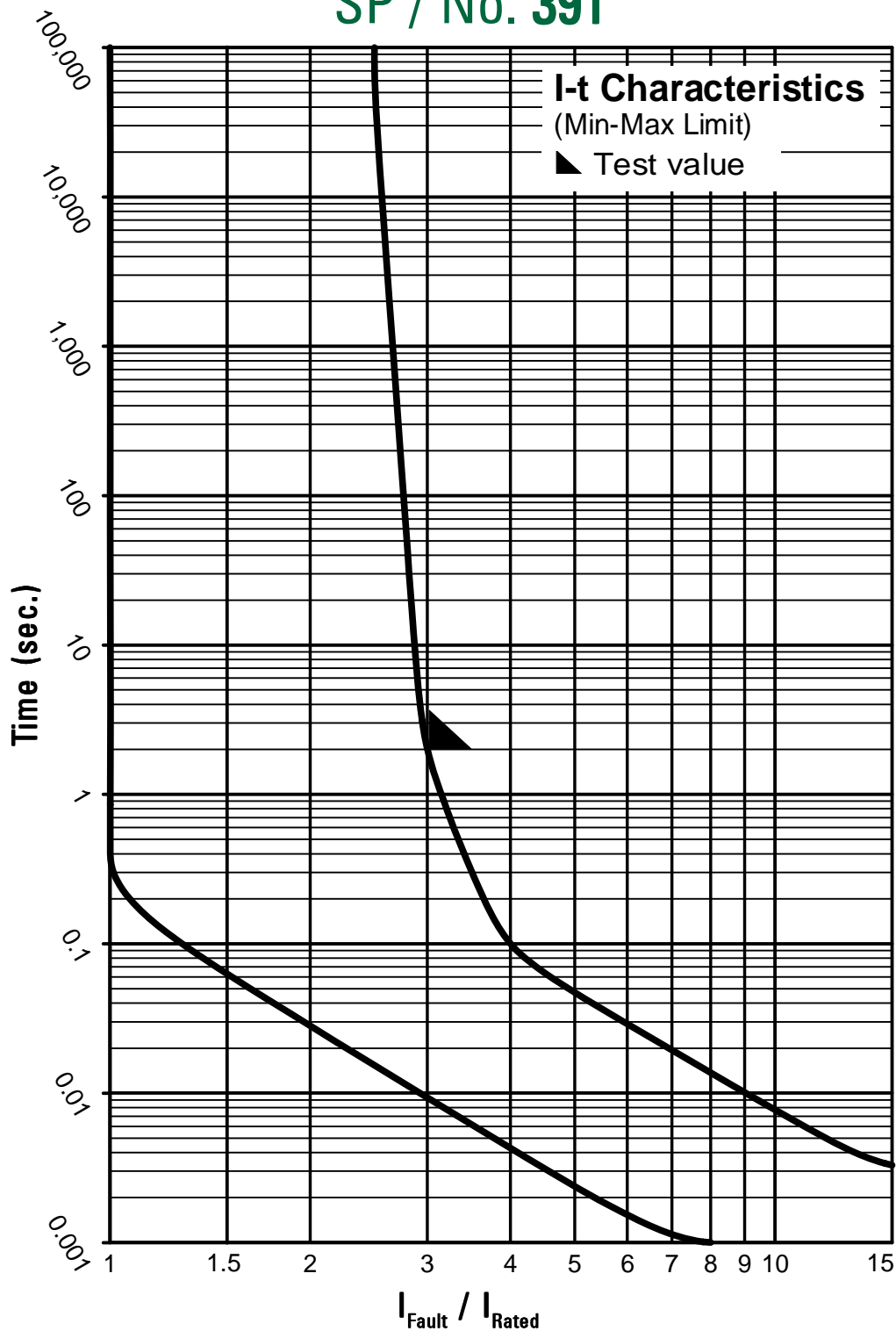
Note: 1.00 means the number one with two decimal places, 1,000 means the number one thousand.

Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
| | | 391 | | |

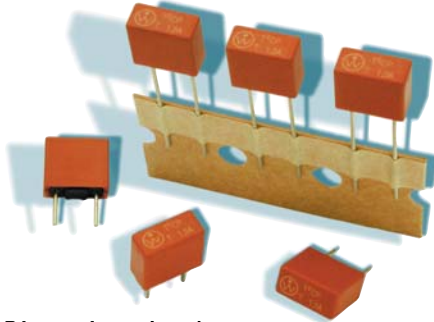
Specifications are subject to change without notice

SP / No. 391

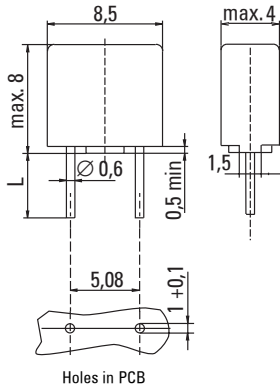


Contact Littelfuse for individual I-t curves

No. 397 / T²CP



Dimensions (mm)



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

UL 248-14, 125 V, T lead free

Time-Current Characteristic Transient Tolerant (T)

Standard

UL 248-14
CSA C22.2 No. 248.14

Approvals

UL Listed
cUL Listed

Features

- Surge Proof for telecom applications
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Low internal resistance
- Shocksafe casing
- Vibration resistant
- Halogen free

Specifications

Packaging

000: Tape/Ammopack (1400 pcs.)
044: Short Leads - Bulk (1400 pcs.)

Materials

Base/Cap: Brown Thermoplastic
Polyamide PA 6.6, UL 94 V0
Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+85 °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, ≤ 3 s (Soldering iron)

Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

Marking

Ⓢ, T²CP, T, Current Rating

Unit Weight

0.60 g (approx.)



Limits for Pre-arcing Time

| | | | |
|------------------|----------------------|------------------------|-----------------------|
| Rated Current | 2.0 x I _N | 5.7 x I _N Ⓢ | 17 x I _N Ⓢ |
| 350mA ... 1.50 A | < 60 s | 80 ms ... 2 s | < 200 ms |



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 _N Ⓢ max. (mV) | Power Dissipation 1.0 x I _N Ⓢ max. (mW) | Melting Integral 10 x I _N Ⓢ min. (A ² s) | Surge Amplitude (A) ¹ | | | Approvals | |
|---------------|----------|----------------|-------------------------------------|---|--|--|----------------------------------|----------|-----|-----------|-----|
| | | | | | | | FCC | Bellcore | ITU | UL | cUL |
| 350 mA | 0350 | 125 V | 50A/125V AC 50-60Hz cos φ=1.0 | 400 | 140 | 0.38 | 25 | 15 | 29 | • | • |
| 500 mA | 0500 | 125 V | | 340 | 170 | 0.79 | 30 | 17 | 38 | • | • |
| 800 mA | 0800 | 125 V | | 300 | 240 | 2.4 | 60 | 31 | 50 | • | • |
| 1.00 A | 1100 | 125 V | | 240 | 240 | 3.5 | 78 | 40 | 65 | • | • |
| 1.25 A | 1125 | 125 V | | 200 | 250 | 5 | 100 | 50 | 67 | • | • |
| 1.50 A | 1150 | 125 V | | 190 | 285 | 8.5 | 155 | 78 | 67 | • | • |

¹ FCC 47 Part 68: Minimum pulse load quantity is 2 pulses at a test generator output of 800 V and 10x560 μs waveform.
ITU-T K.20: Minimum pulse load quantity is 30 pulses at a test generator output of 1000 V, 67 A and 10x700 μs waveform.
Bellcore GR-1089: Minimum pulse load quantity is 50 pulses at a test generator output of 1000 V and 10x1000 μs.

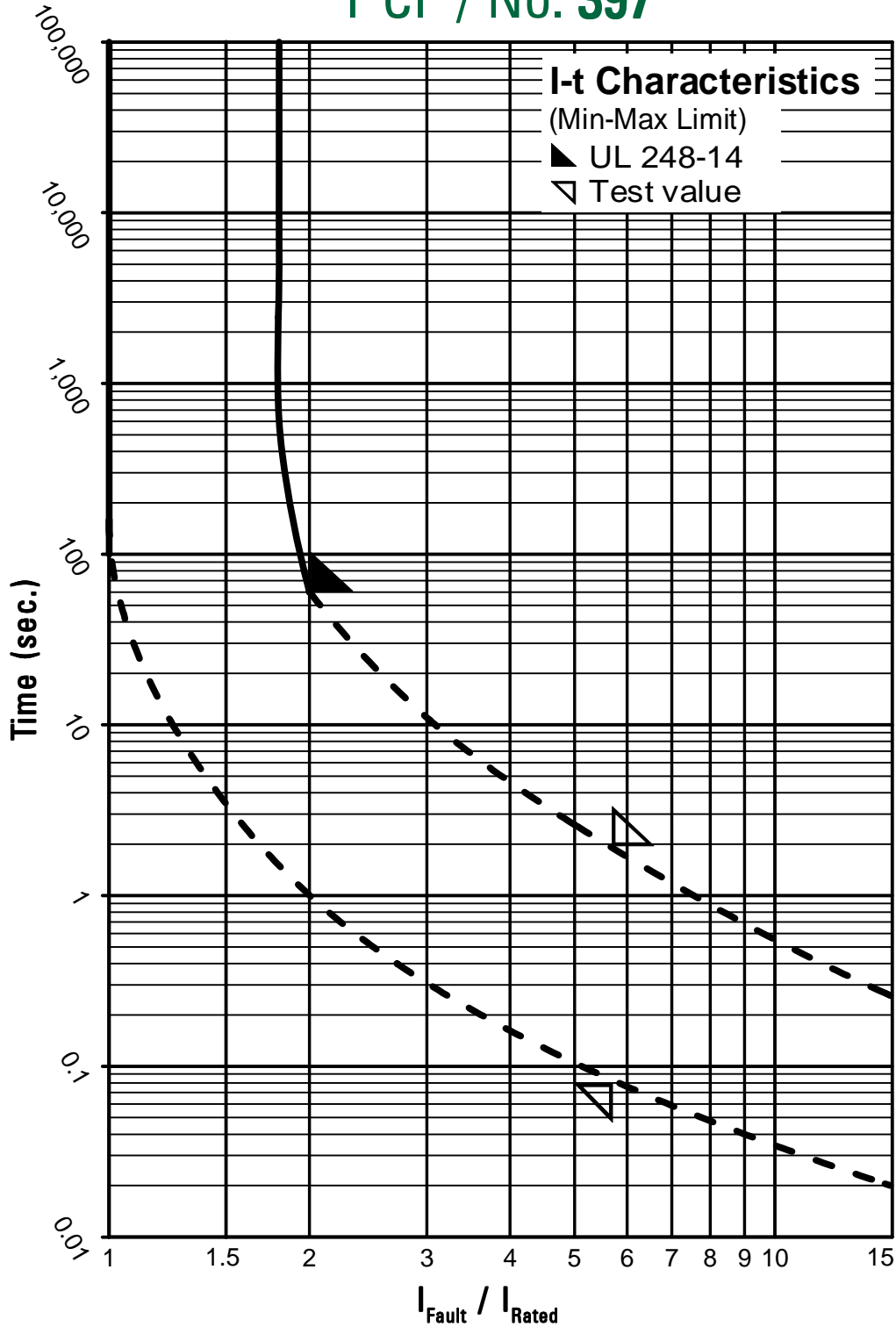
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
| | | 397 | | |

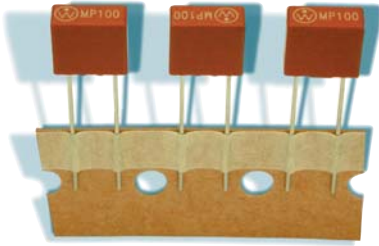
Specifications are subject to change without notice

T²CP / No. 397

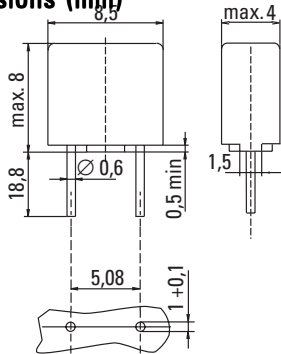


Contact Littelfuse for individual I-t curves

No. 398 / MP



Dimensions (mm)



Holes in PCB

Modul Protector®, 65 V leadfree

For Short Circuit Protection of Sensitive Electronic Components and Assemblies

Time-Current Characteristic
Medium Time Lag (M)

Approvals
cULus Recognized

Operating Criteria
Maximum continuous current:
 $I_C \geq I_{operating} \max \times F_T$ time lag

Maximum melting integral:
 $I^2t_{MP} < I^2t_{semiconductor}$ (warm)

Minimum fault current:
 $I_{Fault} \geq 3 \times I_C$

Maximum fault current:
 $I_{Fault} \leq 50A$ at 65VAC/DC

Features

- For worldwide applications
- Reduced PCB space requirements
- Highly defined cut-off times
- Irreversible physical separation
- Low internal resistance
- Flame resistant encapsulated casing

Specifications

Packaging

000: Tape/Ammopack (1400 pcs.)

Materials

Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94 V-0
Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+85 °C/21 days (EN 60068-1,-2-1,-2-2,-78)

Stock Conditions

+10 °C to +60 °C
relative humidity $\leq 75\%$ 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, ≤ 3 s (Soldering iron)

Soldering Heat Resistance

260°C, 10 sec. (IEC 60068-2-20)

Marking

Ⓢ, Type

Unit Weight

0.60 g (approx.)



| Permissible continuous operating current is $\leq 100\%$ at ambient temperature of 23 °C (73.4 °F). | | | | | | | | |
|---|-------|----------|----------------|--------------------|--|--|--|--------------------|
| Continous Current I_C | Type | Amp Code | Voltage Rating | Fault Current max. | Cold Resistance $0.1 \times I_C$ typ. (mΩ) | Power Dissipation $1.0 \times I_C$ max. (mW) | Melting Integral $10 \times I_C$ typ. (A ² s) | Approvals cULus |
| 125mA | MP 13 | 0125 | 65V | | 900 | 50 | 0.0093 | • |
| 250mA | MP 25 | 0250 | 65V | | 355 | 50 | 0.045 | • |
| 315mA | MP 32 | 0315 | 65V | | 260 | 60 | 0.081 | • |
| 400mA | MP 40 | 0400 | 65V | | 186 | 75 | 0.18 | • |
| 500mA | MP 50 | 0500 | 65V | | 155 | 90 | 0.2 | • |
| 630mA | MP 63 | 0630 | 65V | 50A/65 V AC/DC | 115 | 120 | 0.37 | • |
| 800mA | MP 80 | 0800 | 65V | 50-60 Hz | 85 | 140 | 0.64 | • |
| 1.00A | MP100 | 1100 | 65V | cos φ=1.0 | 65 | 170 | 1.1 | • |
| 1.25A | MP125 | 1125 | 65V | | 48 | 210 | 2.3 | • |
| 1.60A | MP160 | 1160 | 65V | | 34 | 320 | 4.5 | • |
| 2.00A | MP200 | 1200 | 65V | | 26 | 425 | 7.8 | • |
| 2.50A | MP250 | 1250 | 65V | | 21 | 550 | 13 | • |
| 3.15A | MP315 | 1315 | 65V | | 16 | 650 | 23 | • |
| 4.00A | MP400 | 1400 | 65V | | 12 | 1000 | 40 | • |

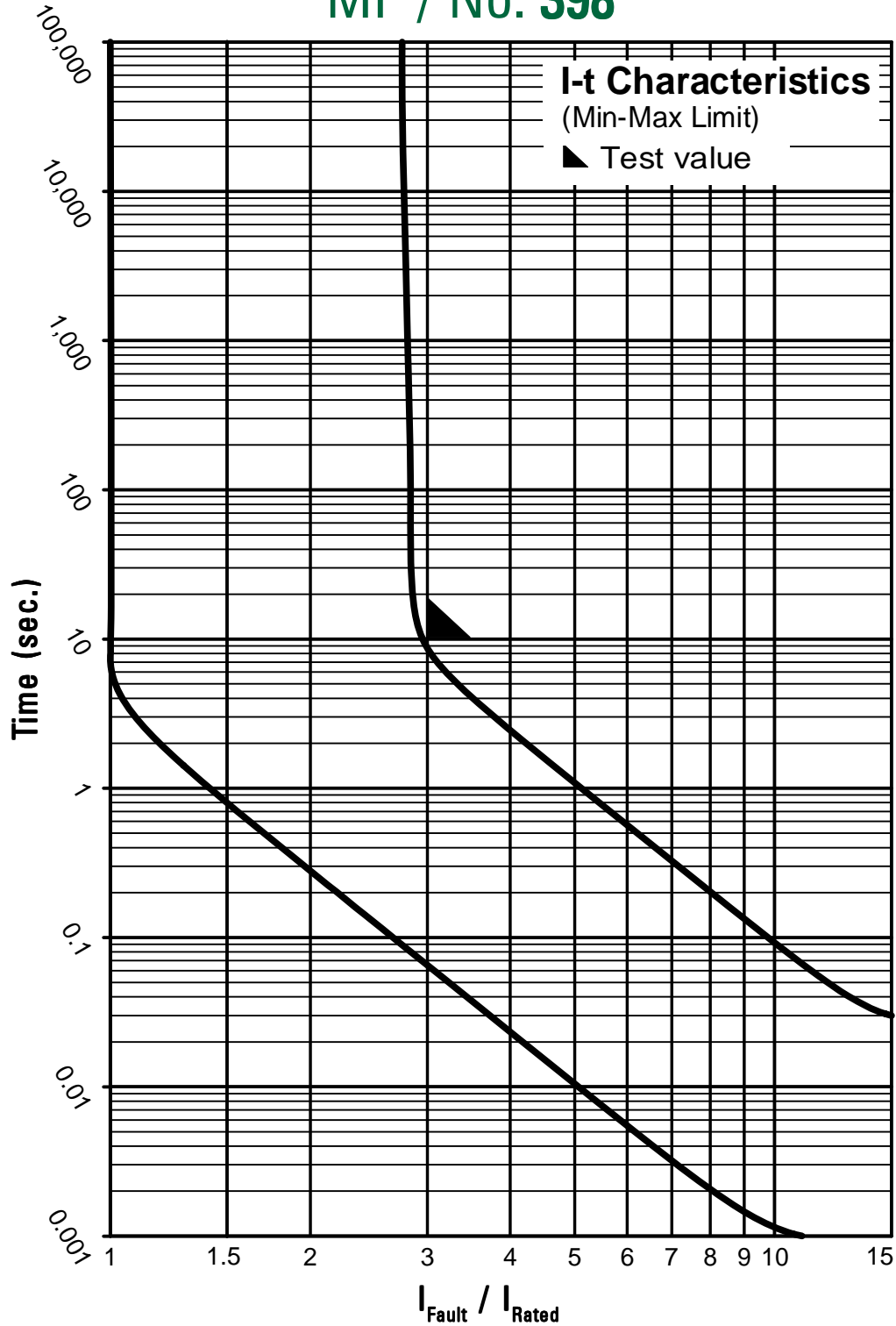
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
| | | 398 | | |

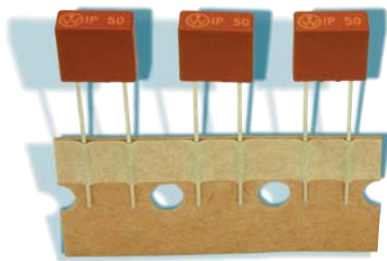
Specifications are subject to change without notice

MP / No. 398

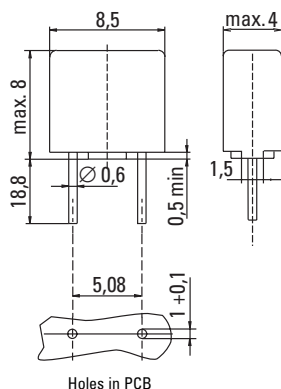


Contact Littelfuse for individual I-t curves

No. 399 / IP



Dimensions (mm)



Inrush Protector, 65 V Leadfree

For Short Circuit Protection of Sensitive Electronic Components and Assemblies

Time-Current Characteristic

Time Lag (T)

Approval

cULus Recognized

Operating Criteria

Maximum continuous current:
 $I_C \geq I_{operating\ max} \times T_{time\ lag}$

Minimum fault current:

$$I_{Fault} \geq 3 \times I_C$$

Maximum fault current:

$$I_{Fault} \leq 50A \text{ at } 65VAC/DC$$

Features

- For worldwide applications
- Reduced PCB space requirements
- Highly defined cut-off times
- Irreversible physical separation
- Low internal resistance
- Flame resistant encapsulated casing

Specifications

Packaging

000: Tape/Ampopack (1400 pcs.)

Materials

Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94V0
Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+85 °C/21 days (EN 60068-1,-2-1,-2-2,-78)

Stock Conditions

+10 °C to +60 °C
relative humidity \leq 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

10N (EN 60068-2-21)

Solderability

260 °C, \leq 3 s (Wave)
350 °C, \leq 3 s (Soldering Iron)

Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

Marking

, Type

Unit Weight

0.60 g (approx.)



Permissible continuous operating current is \leq 100 % at ambient temperature of 23 °C (73.4 °F).

| Continous Current I_C | Type | Amp Code | Voltage Rating | Fault Current max. | Cold Resistance $0.1 \times I_C$ typ. (m Ω) | Power Dissipation $1.0 \times I_C$ max. (mW) | Melting Integral $10 \times I_C$ typ. (A 2 s) | Approvals cULus |
|----------------------------|-------|----------|----------------|--|---|--|--|--------------------|
| 125 mA | IP 13 | 0125 | 65 V | | 1600 | 125 | 0.13 | • |
| 160 mA | IP 16 | 0160 | 65 V | | 1100 | 140 | 0.2 | • |
| 200 mA | IP 20 | 0200 | 65 V | | 775 | 155 | 0.29 | • |
| 250 mA | IP 25 | 0250 | 65 V | | 550 | 170 | 0.42 | • |
| 315 mA | IP 32 | 0315 | 65 V | | 330 | 190 | 0.62 | • |
| 400 mA | IP 40 | 0400 | 65 V | | 265 | 220 | 0.92 | • |
| 500 mA | IP 50 | 0500 | 65 V | 50 A/65 V AC/DC 50-60 Hz $\cos \phi = 1.0$ | 190 | 240 | 1.4 | • |
| 630 mA | IP 63 | 0630 | 65 V | | 130 | 265 | 2 | • |
| 800 mA | IP 80 | 0800 | 65 V | | 92 | 300 | 3 | • |
| 1.00 A | IP100 | 1100 | 65 V | | 65 | 330 | 4.3 | • |
| 1.25 A | IP125 | 1125 | 65 V | | 47 | 370 | 6.5 | • |
| 1.60 A | IP160 | 1160 | 65 V | | 33 | 420 | 9.8 | • |
| 2.00 A | IP200 | 1200 | 65 V | | 23 | 460 | 14 | • |
| 2.50 A | IP250 | 1250 | 65 V | | 17 | 520 | 20 | • |
| 3.15 A | IP315 | 1315 | 65 V | | 13 | 580 | 40 | • |
| 4.00 A | IP400 | 1400 | 65 V | | 10 | 650 | 75 | • |

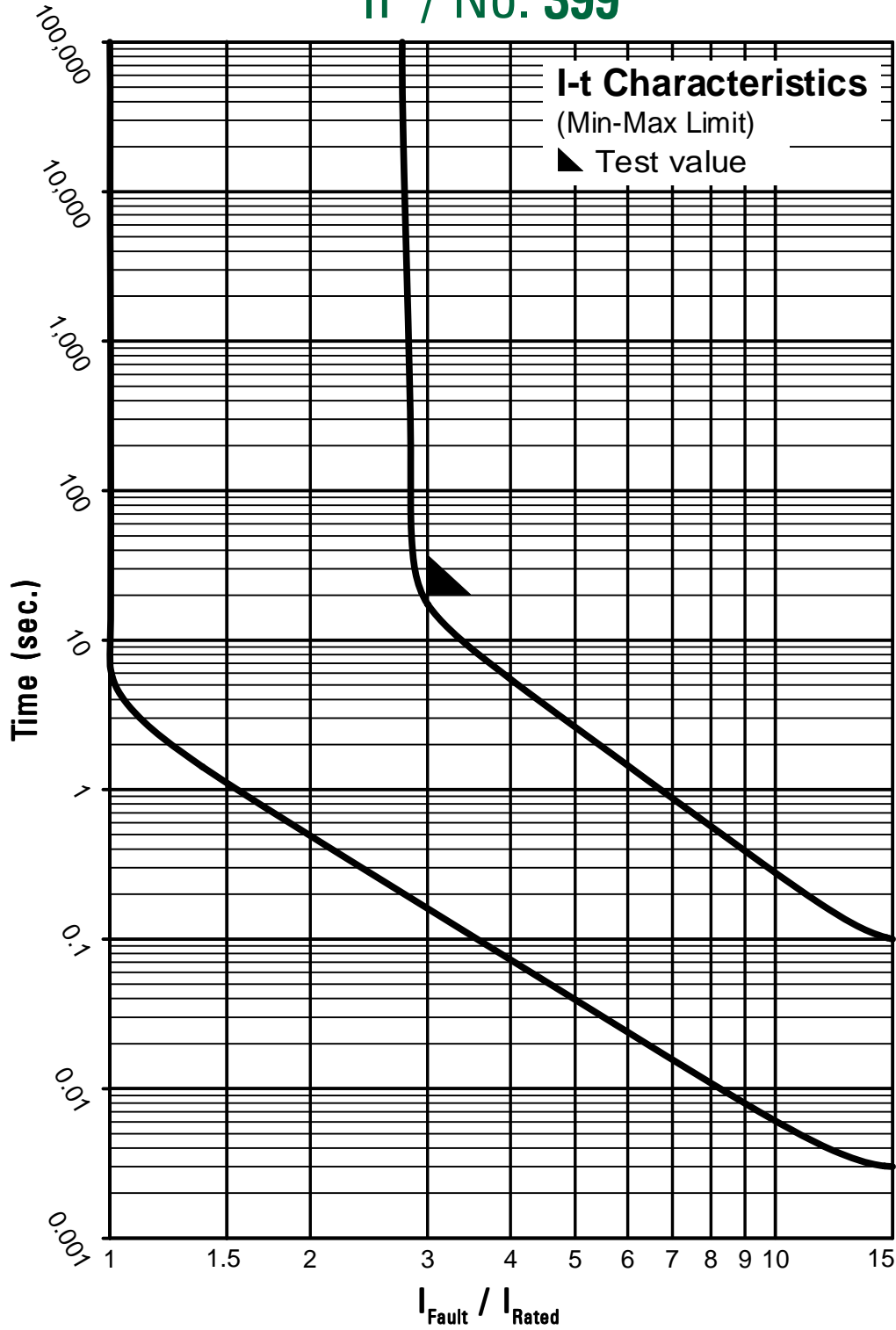
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
| | | 399 | | |

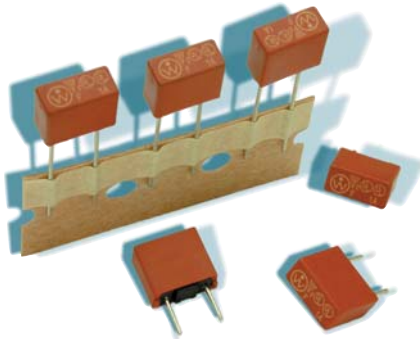
Specifications are subject to change without notice

IP / No. 399



Contact Littelfuse for individual I-t curves

No. 950



250 V, T Lead Free

Time-Current Characteristics
Time-Lag (T)

Standard
according to IEC 60127-3/IV

Features

- Lead Free
- High pulse load
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Low internal resistance
- Shocksafe casing
- Vibration resistant
- Halogen free

Specifications

Packaging

000: Tape/Ammopack (1400 pcs.)

Materials

Base/Cap: Brown Thermoplastic
Polyamide PA 6.6, UL 94 V-0
Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+85 °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 60068-2-6)
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, ≤ 3 s (Soldering iron)

Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

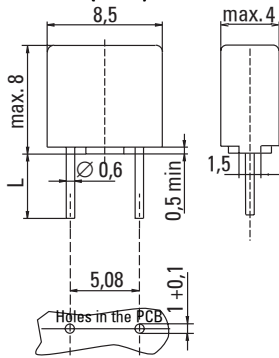
Marking

Ⓢ, 950, T, Current Rating

Unit Weight

0.60 g (approx.)

Dimensions (mm)



Long Leads (L=18.8 mm)

| Limits for Pre-arcing Time | | |
|----------------------------|----------------------|----------------------|
| Rated Current | 1.5 x I _N | 2.1 x I _N |
| 1.6 A | > 1 h | < 200 s |



| Permissible continuous operating current is ≤ 100 % at ambient temperature of 23 °C (73.4 °F). | | | | | | | |
|--|----------|----------------|-------------------|---|--|--|--|
| Rated current | Amp Code | Voltage Rating | Breaking Capacity | Voltage Drop 1.0 x I _N Ⓢ max. (mV) | Power Dissipation 1.0 x I _N Ⓢ max. (mW) | Cold Resistance 0.1 x I _N typ. (mΩ) | Melting Integral 10 x I _N Ⓢ min. (A ² s) |
| 1.60 A | 1160 | 250 V | 50A/250 V AC | 95 | 155 | 41 | 40 |

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 |
|------|--------------|--------|----------|-----------|
| | | 950 | | |

Specifications are subject to change without notice

No. 950

Time/Current Curve

