

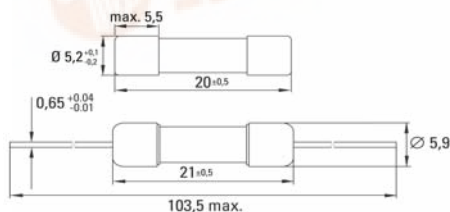


## 5x20mm / No. 197

This product is not recommended for new designs. Please refer to Littelfuse No. 233/234.



### Dimensions (mm)



Optional Holders

## UL 248-14, 250V, M

**Time-Current Characteristic**  
Medium Time Lag (M)

### Standard

UL 248-14  
CSA C22.2 No. 248.14

### Approvals

CSA certified  
UL Listed  
cUL Listed  
METI-PSE

## Features

Visual fault indication  
Direct solderable or plug-in versions  
Internationally approved  
Worldwide availability

## WebLinks

### Further info see:

[www.wickmanngroup.com](http://www.wickmanngroup.com)

### Further application info see fuseology:

[www.wickmanngroup.com/download/fuseology.pdf](http://www.wickmanngroup.com/download/fuseology.pdf)

## Specifications

### Packaging

000: Bulk (1000 pcs.)  
002: Bulk (20x10 pcs.)  
043: With mounted holder - Tape/Reel (1250 pcs.) on request

### Materials

Tube: Glass  
End Caps: Nickel-plated brass  
Optional Holders: Nickel-plated caps  
Tin-plated copper wires

### Operating Temperature

-25°C to +70°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 ≤ 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

### Solderability

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

### Soldering Heat Resistance

260°C, 10 sec. (IEC 60068-2-20)

### Marking

Ⓢ, Current Rating, 250VAC, 197, Approvals

### Unit Weight

1.0g (approx.)  
1.9g (with leads)

### Limits for Pre-arcing Time

| Rated Current   | $1.35 \times I_{\text{Rated}}$ | $2.0 \times I_{\text{Rated}}$ |
|-----------------|--------------------------------|-------------------------------|
| 250mA ... 7.00A | < 1h                           | < 120s                        |



Permissible continuous operating current is ≤ 75% at ambient temperature of 23°C (73.4°F).

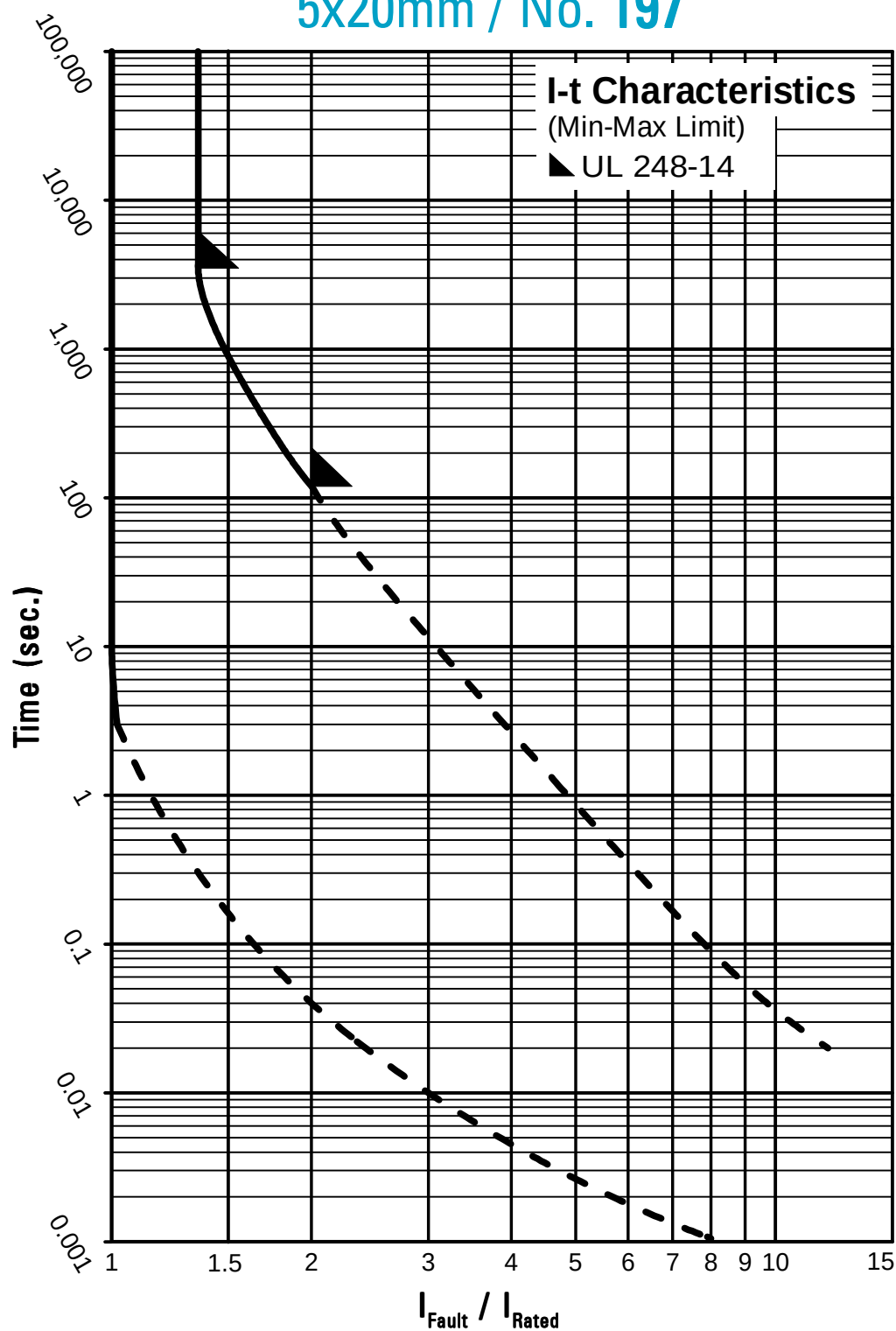
| Rated Current | Amp Code | Voltage Rating | Breaking Capacity | Voltage Drop<br>$1.0 \times I_{\text{Rated}}$<br>max. (mV) | Power Dissipation<br>$1.0 \times I_{\text{Rated}}$<br>max. (W) | Melting Integral<br>$10 \times I_{\text{Rated}}$<br>typ. (A²s) | Approvals           |
|---------------|----------|----------------|-------------------|------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|---------------------|
|               |          |                |                   |                                                            |                                                                |                                                                | CSA UL cUL METI-PSE |
| 250mA         | 0250     | 250V           |                   | 350                                                        | 0.3                                                            | 0.019                                                          | • • •               |
| 300mA         | 0300     | 250V           |                   | 300                                                        | 0.3                                                            | 0.038                                                          | • • •               |
| 350mA         | 0350     | 250V           |                   | 300                                                        | 0.4                                                            | 0.065                                                          | • • •               |
| 400mA         | 0400     | 250V           | 35A / 250VAC      | 280                                                        | 0.4                                                            | 0.092                                                          | • • •               |
| 500mA         | 0500     | 250V           | 10kA / 125VAC     | 250                                                        | 0.4                                                            | 0.19                                                           | • • •               |
| 600mA         | 0600     | 250V           | 50-60Hz           | 230                                                        | 0.5                                                            | 0.31                                                           | • • •               |
| 700mA         | 0700     | 250V           | cos φ = 0.7-0.8   | 210                                                        | 0.5                                                            | 0.43                                                           | • • •               |
| 800mA         | 0800     | 250V           |                   | 200                                                        | 0.6                                                            | 0.48                                                           | • • •               |
| 1.00A         | 1100     | 250V           |                   | 180                                                        | 0.6                                                            | 1.3                                                            | • • •               |
| 1.25A         | 1125     | 250V           |                   | 170                                                        | 0.7                                                            | 2.2                                                            | • • •               |
| 1.60A         | 1160     | 250V           |                   | 150                                                        | 0.8                                                            | 4.3                                                            | • • •               |
| 2.00A         | 1200     | 250V           | 100A / 250VAC     | 130                                                        | 0.9                                                            | 8.6                                                            | • • •               |
| 2.50A         | 1250     | 250V           | 10kA / 125VAC     | 120                                                        | 1.0                                                            | 10                                                             | • • •               |
| 3.00A         | 1300     | 250V           | 50-60Hz           | 115                                                        | 1.1                                                            | 17                                                             | • • •               |
| 3.50A         | 1350     | 250V           | cos φ = 0.7-0.8   | 110                                                        | 1.3                                                            | 26                                                             | • • •               |
| 4.00A         | 1400     | 125V           |                   | 105                                                        | 1.3                                                            | 32                                                             | • • •               |
| 5.00A         | 1500     | 125V           | 10kA / 125VAC     | 100                                                        | 1.4                                                            | 55                                                             | • • •               |
| 6.00A         | 1600     | 125V           | 50-60Hz           | 95                                                         | 1.4                                                            | 96                                                             | • • •               |
| 7.00A         | 1700     | 125V           | cos φ = 0.7-0.8   | 90                                                         | 1.4                                                            | 140                                                            | • • •               |

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
|      |              | 197    |          |           |

Specifications are subject to change without notice



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Contact WICKMANN for individual I-t curves