



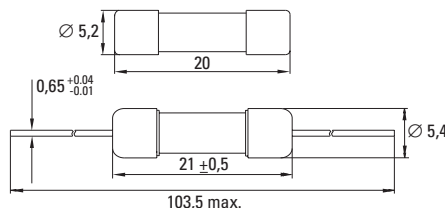
## 5x20mm / No. 194

## IEC 60127-2/I, 250V, F

## Specifications



### Dimensions (mm)



### Time-Current Characteristic

Quick Acting (F)

### Standard

IEC 60127-2/I  
DIN 41660

### Approvals

VDE: License No. 115270/97123  
SEMKO: Certificate No. 9841086  
cULus Recognized: File No. E 67006

### Features

High breaking capacity  
Direct solderable or plug-in versions  
Internationally approved  
Worldwide availability

### WebLinks

#### Data Sheet

[www.wickmann.com/products/194.pdf](http://www.wickmann.com/products/194.pdf)

#### Approval Certificates

[www.wickmann.com/approvals](http://www.wickmann.com/approvals)

#### Time-Current Curve

[www.wickmann.com/itcurves](http://www.wickmann.com/itcurves)

#### Packaging

[www.wickmann.com/pack](http://www.wickmann.com/pack)

#### FaxBack Document # 203

### Packaging

000: Bulk (1000 pcs.)  
002: Bulk (10 pcs.)  
040: Axial Leads - Bulk (1000 pcs.)  
043: Axial Leads - Tape/Reel (1250 pcs.)

### Materials

Tube: Ceramic  
End Caps: Nickel-plated brass  
Axial Leads: Silver-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

Ⓜ, F, Current Rating, H, 250V, Approvals

### Unit Weight

1.2g (approx.)  
2.2g (with leads)



### Limits for Pre-arcing Time

| Rated Current    | 1.5 x I <sub>Rated</sub> | 2.1 x I <sub>Rated</sub> | 2.75 x I <sub>Rated</sub> | 4 x I <sub>Rated</sub> | 10 x I <sub>Rated</sub> |
|------------------|--------------------------|--------------------------|---------------------------|------------------------|-------------------------|
| 200mA ... 3.15A  | > 1h                     | < 30 min                 | 10ms ... 2s               | 3ms ... 300ms          | <20ms                   |
| 4.00A ... 6.30A  | > 1h                     | < 30 min                 | 10ms ... 3s               | 3ms ... 300ms          | <20ms                   |
| 8.00A ... 10.00A | > 30min                  | < 30 min                 | 10ms ... 3s               | 3ms ... 300ms          | <20ms                   |

### 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<br>1.0 x I <sub>Rated</sub><br>max. (mV) | Power Dissipation<br>1.5 x I <sub>Rated</sub><br>max. (W) | Melting Integral<br>10 x I <sub>Rated</sub><br>max. (A²s) | Approvals<br>VDE SEMKO cULus |
|-----------------------|----------|----------------|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------|
| 200mA <sup>1</sup>    | 0200     | 250V           |                                              | 3500                                                  | 1.2                                                       | 0.007                                                     | • •                          |
| 250mA <sup>1</sup>    | 0250     | 250V           |                                              | 1000                                                  | 0.8                                                       | 0.013                                                     | • •                          |
| 315mA <sup>1</sup>    | 0315     | 250V           |                                              | 950                                                   | 0.8                                                       | 0.015                                                     | • • •                        |
| 400mA <sup>1</sup>    | 0400     | 250V           |                                              | 900                                                   | 0.9                                                       | 0.027                                                     | • • •                        |
| 500mA <sup>1</sup>    | 0500     | 250V           |                                              | 850                                                   | 1.0                                                       | 0.041                                                     | • • •                        |
| 630mA <sup>1</sup>    | 0630     | 250V           |                                              | 800                                                   | 1.1                                                       | 0.075                                                     | • • •                        |
| 800mA <sup>1</sup>    | 0800     | 250V           |                                              | 750                                                   | 1.3                                                       | 0.12                                                      | • • •                        |
| 1.00A                 | 1100     | 250V           |                                              | 700                                                   | 1.4                                                       | 0.29                                                      | • • •                        |
| 1.25A                 | 1125     | 250V           | 1500A / 250VAC<br>50-60Hz<br>cos φ = 0.7-0.8 | 650                                                   | 1.6                                                       | 0.7                                                       | • • •                        |
| 1.60A                 | 1160     | 250V           |                                              | 500                                                   | 1.8                                                       | 1.0                                                       | • • •                        |
| 2.00A                 | 1200     | 250V           |                                              | 400                                                   | 2.0                                                       | 1.8                                                       | • • •                        |
| 2.50A                 | 1250     | 250V           |                                              | 350                                                   | 2.3                                                       | 3.0                                                       | • • •                        |
| 3.15A                 | 1315     | 250V           |                                              | 300                                                   | 2.8                                                       | 7.8                                                       | • • •                        |
| 4.00A                 | 1400     | 250V           |                                              | 270                                                   | 3.5                                                       | 15                                                        | • • •                        |
| 5.00A                 | 1500     | 250V           |                                              | 250                                                   | 3.7                                                       | 35                                                        | • • •                        |
| 6.30A <sup>2</sup>    | 1630     | 250V           |                                              | 200                                                   | 4.0                                                       | 75                                                        | • • •                        |
| 8.00A <sup>2</sup>    | 1800     | 250V           |                                              | 180                                                   | 3.0                                                       | 130                                                       |                              |
| 10.00A <sup>1,2</sup> | 2100     | 250V           |                                              | 170                                                   | 4.0                                                       | 150                                                       |                              |

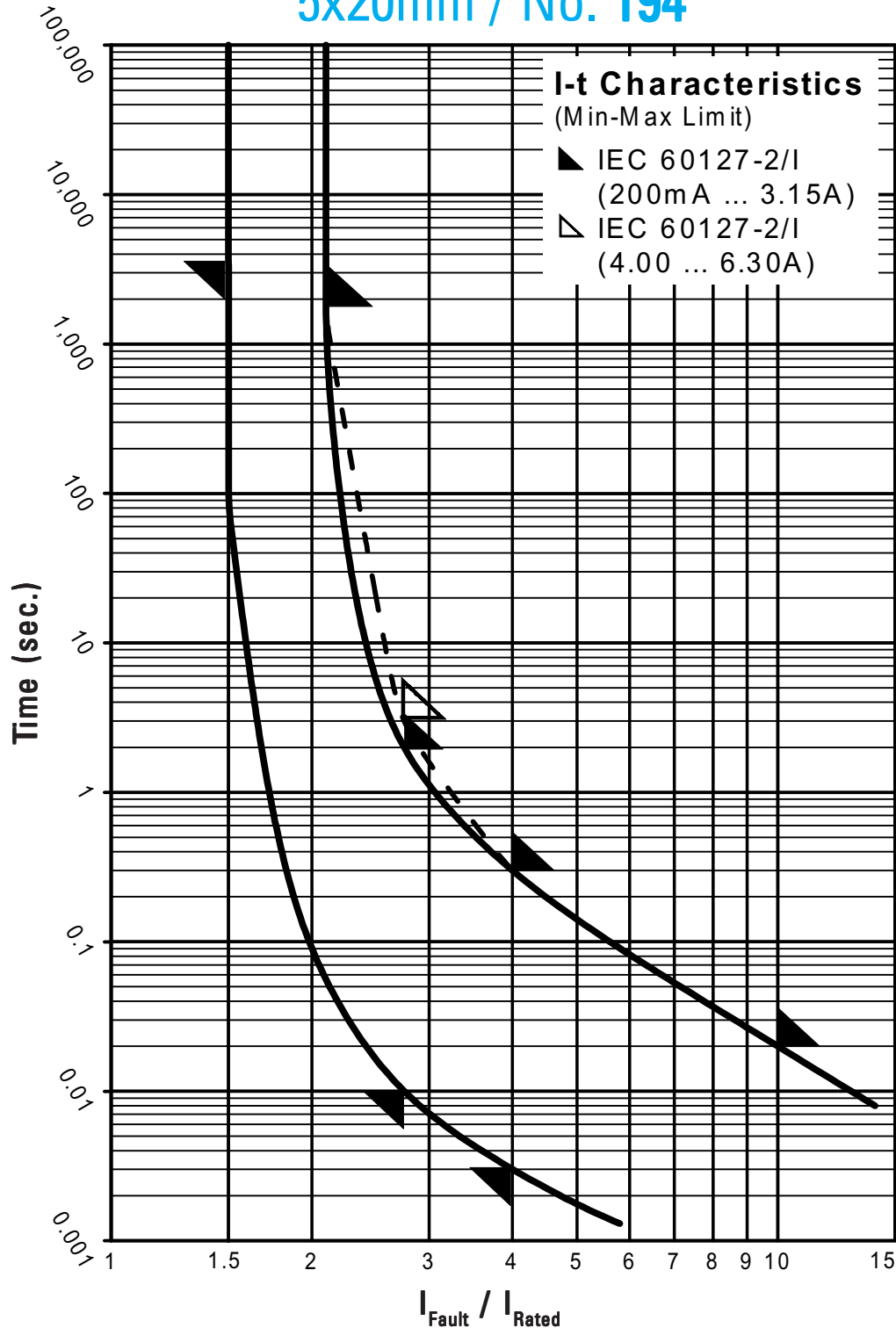
<sup>1</sup> Axial leads not available below 1A or above 8A.

<sup>2</sup> Not mentioned in the fuse standards.

### Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
|      |              | 194    |          |           |

## 5x20mm / No. 194



Contact WICKMANN for individual I-t curves