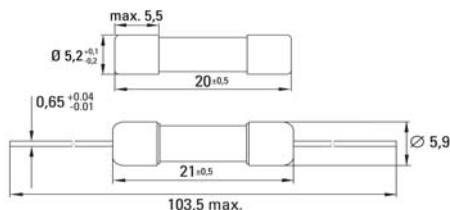


## 5x20 mm / No. 191

This product is not recommended for new designs. Please refer to Littelfuse No. 235.



### Dimensions (mm)



Optional Holders

## UL 248-14, 250 V, F

### Time-Current Characteristic

Quick Acting (F)

### Standard

UL 248-14  
CSA C22.2 No. 248.14

### Approvals

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 holders - 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  
(IEC 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

### Solderability

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

### Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

### Marking

Ⓢ, Current Rating, 250 V AC, 191, Approvals

### Unit Weight

1.0 g (approx.)  
1.9 g (with mounted holders)

### Limits for Pre-arcing Time

Rated Current	1.35 x I <sub>N</sub>	2.0 x I <sub>N</sub>	2.0 x I <sub>N</sub> Ⓢ
250 mA ... 7.00 A	< 1 h	< 120 s	< 5 s



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

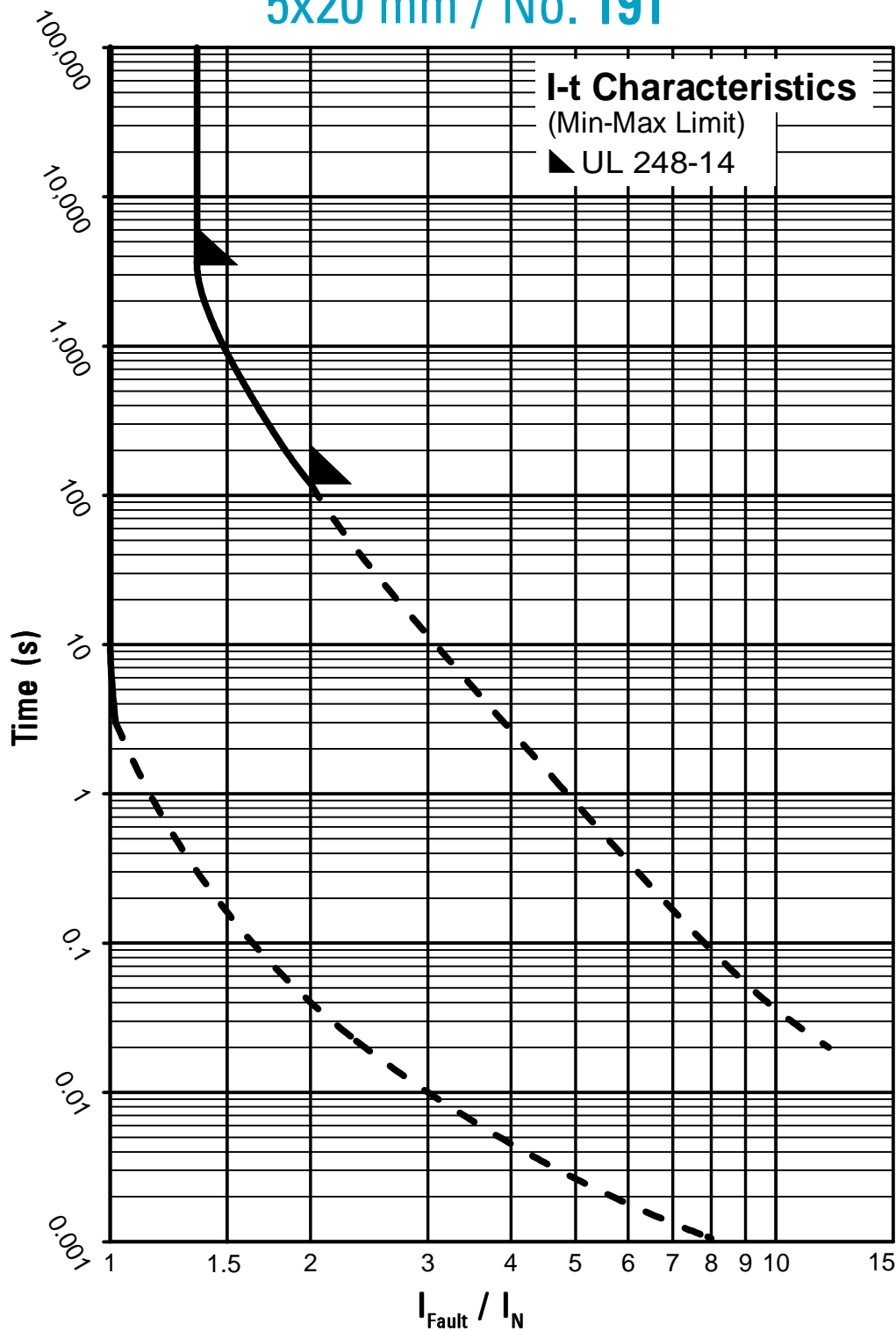
Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I <sub>N</sub> Ⓢ max. (mV)	Power Dissipation 1.0 x I <sub>N</sub> Ⓢ max. (W)	Melting Integral 10 x I <sub>N</sub> Ⓢ max. (A <sup>2</sup> s)	Approvals UL cUL METI-PSE
250 mA	0250	250 V		350	0.3	0.024	• •
300 mA	0300	250 V		300	0.3	0.047	• •
350 mA	0350	250 V		300	0.4	0.081	• •
400 mA	0400	250 V	35 A / 250 V AC	280	0.4	0.11	• •
500 mA	0500	250 V	10 kA / 125 V AC	250	0.4	0.24	• •
600 mA	0600	250 V	50-60 Hz	230	0.5	0.38	• •
700 mA	0700	250 V	cos φ = 0.7-0.8	210	0.5	0.54	• •
800 mA	0800	250 V		200	0.6	0.6	• •
1.00 A	1100	250 V		180	0.6	1.7	• • •
1.25 A	1125	250 V		170	0.7	2.8	• • •
1.60 A	1160	250 V	100 A / 250 V AC	150	0.8	5.4	• • •
2.00 A	1200	250 V	10 kA / 125 V AC	130	0.9	11	• • •
2.50 A	1250	250 V	50-60 Hz	120	1.0	13	• • •
3.00 A	1300	250 V	cos φ = 0.7-0.8	115	1.1	21	• • •
3.50 A	1350	250 V		110	1.3	32	• • •
4.00 A	1400	125 V		105	1.3	40	• • •
5.00 A	1500	125 V	10 kA / 125 V AC	100	1.4	69	• • •
6.00 A	1600	125 V	50-60 Hz	95	1.4	120	• •
7.00 A	1700	125 V	cos φ = 0.7-0.8	90	1.4	180	• •

### Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		191		

Specifications are subject to change without notice

## 5x20 mm / No. 191



Contact WICKMANN for individual I-t curves