

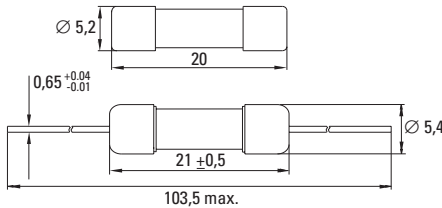
## 5x20mm / No. 191

## UL 248-14, 250V, F

## Specifications



### Dimensions (mm)



### Time-Current Characteristic

Quick Acting (F)

### Standard

UL 248-14  
CSA C22.2 No. 248.14

### Approvals

UL Listed: File No. E 67006  
cUL Listed: File No. E 67006

### Features

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

### WebLinks

#### Data Sheet

[www.wickmann.com/products/191.pdf](http://www.wickmann.com/products/191.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 # 201

### Packaging

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

### Materials

Tube: Glass  
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

, Current Rating, 250VAC, 191, Approvals

### Unit Weight

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

### Limits for Pre-arcing Time

Rated Current	$1.35 \times I_{\text{Rated}}$	$2.0 \times I_{\text{Rated}}$	$2.0 \times I_{\text{Rated}}$
250mA ... 7.00A	< 1h	< 120s	< 5s



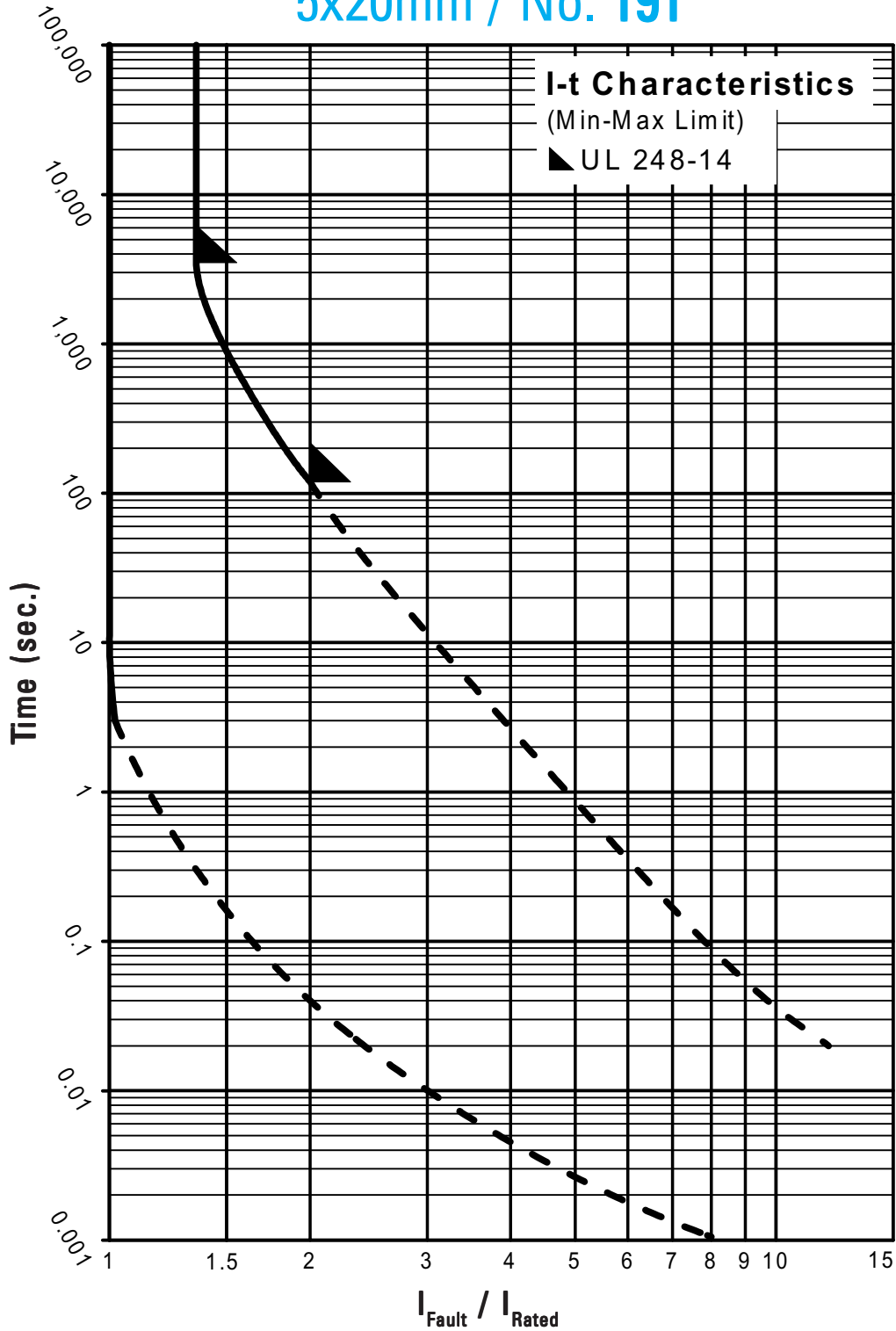
### Permissible continuous operating current is ≤ 75% at ambient temperature of 23°C (73.4°F).

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

### Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		191		

## 5x20mm / No. 191



Contact WICKMANN for individual I-t curves