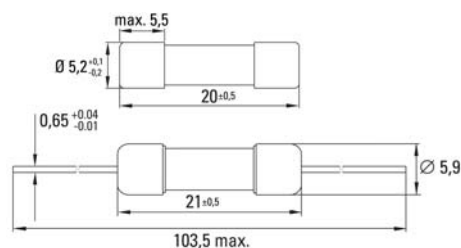


## 5x20 mm / No. 181

This product is not recommended for new designs. Please refer to Littelfuse No. 215.



### Dimensions (mm)



Optional holders\*

## IEC 60127-2/V, 250 V, T

### Time-Current Characteristic

Time Lag (T)

### Standard

IEC 60127-2/V

### Approvals

VDE  
SEMKO  
cULus Recognized  
BSI  
SEV  
METI-PSE  
CCC

## Features

High breaking capacity  
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\*  
\*approvals pending for Pb-free fuse with holders

### Materials

Tube: Ceramic  
End Caps: Nickel-plated brass  
Optional holders: Nickel-plated caps  
Tin-plated copper wires

### Operating Temperature

-40 °C to +85 °C (consider de-rating)

### Climatic Category

-40 °C / +85 °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 60068-2-6)  
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

W, T, Current Rating, H, 250 V, Approvals

### Unit Weight

1.2g (approx.)  
2.2g (with mounted holders)



only 1.25 up to 10.0 A

### Limits for Pre-arcing Time

Rated Current	1.5 x I <sub>N</sub>	2.1 x I <sub>N</sub>	2.75 x I <sub>N</sub>	4 x I <sub>N</sub>	10 x I <sub>N</sub>
125 ... 800 mA / 8 ... 10 A	> 1h	< 30 min	--	60 ms ... 5 s	10 ms ... 100 ms
1.00 A ... 3.15 A	> 1h	< 30 min	1 s ... 80 s	95 ms ... 5s	10 ms ... 100 ms
4.00 mA ... 6.30 A	> 1h	< 30 min	1 s ... 80 s	150 ms ... 5 s	20 ms ... 100 ms



### 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 <sub>N</sub> (W) max. (mV)	Power Dissipation 1.5 x I <sub>N</sub> (W) max. (W)	Melting Integral 10 x I <sub>N</sub> (A <sup>2</sup> s) min. (A <sup>2</sup> s)	Approvals							
							VDE	SEMKO	cURus	BSI	SEV	METI-PSE	CCC	CNCA
125 mA	0125	250 V		2000	0.5	0.025	p	p	•					•
160 mA	0160	250 V		1550	0.6	0.035	p	p	•					•
200 mA	0200	250 V		1300	0.6	0.084	p	p	•					•
250 mA	0250	250 V		1000	0.7	0.11	p	p	•					•
315 mA	0315	250 V		900	0.8	0.19	p	p	•					•
400 mA	0400	250 V		800	0.9	0.34	p	p	•					•
500 mA	0500	250 V		650	1.0	0.56	p	p	•					•
630 mA	0630	250 V	1500 A / 250 V AC	550	1.1	0.77	p	p	•					•
800 mA	0800	250 V	50-60 Hz	450	1.2	1.6	p	p	•					•
1.00 A	1100	250 V	cos φ = 0.7-0.8	250	1.4	1.0	•	•	•	•	•	•	•	•
1.25 A	1125	250 V		190	0.65	2.2	•	•	•	•	•	•	•	•
1.60 A	1160	250 V		160	0.67	5.34	•	•	•	•	•	•	•	•
2.00 A	1200	250 V		160	0.86	8.64	•	•	•	•	•	•	•	•
2.50 A	1250	250 V		180	0.95	19.5	•	•	•	•	•	•	•	•
3.15 A <sup>1</sup>	1315	250 V		180	1.12	34	•	•	•	•	•	•	•	•
4.00 A <sup>1</sup>	1400	250 V		96	1.37	77.9	•	•	•	•	•	•	•	•
5.00 A <sup>1</sup>	1500	250 V		95	1.5	77	•	•	•	•	•	•	•	•
6.30 A <sup>1</sup>	1630	250 V		90	1.6	115	•	•	•	•	•	•	•	•
8.00 A <sup>1</sup>	1800	250 V		90	3.6	77	•	•	•	•	•	•	•	•
10.00 A <sup>1</sup>	2100	250 V		90	4.0	180	•	•	•	•	•	•	•	•

<sup>1</sup> Depending on the application and mounting, the fuse heating at max. ambient temperature in a closed fuseholder should be considered.

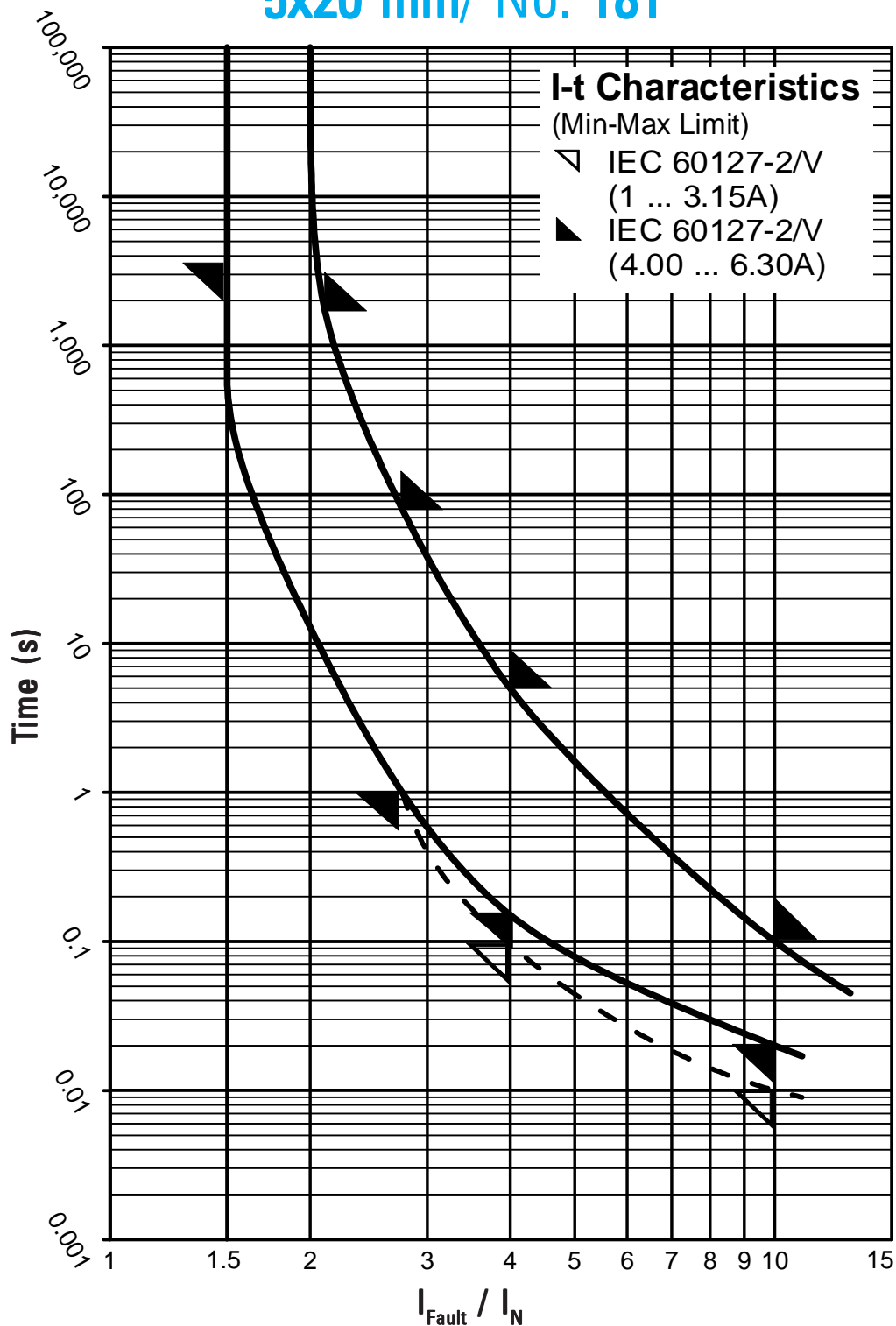
p=pending

### Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		181		

Specifications are subject to change without notice

## 5x20 mm/ No. 181



Contact WICKMANN for individual I-t curves