

## 5x20 mm/No. 230

## 250V



### Time-Current Characteristic

Very Quick Acting (FF)

### Standard

None

### Approvals

None

## Specifications

### Packaging

000: Bulk (1,000 pcs.)  
002: Pack (100 pcs.)

### Materials

Tube: Ceramic  
End Caps: Nickel-plated brass

### 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

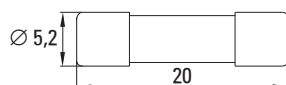
### Vibration Resistance

24 cycles at 15 min. each (EN 60068-6)  
10 - 60 Hz at 0.75 mm amplitude  
60 - 2000 Hz at 10 g acceleration

### Marking

Ⓢ, FF, Current Rating, 250V, E

### Dimensions (mm)



Limits for Pre-arcing Time					
Rated Current	1.0 x I <sub>N</sub>	1.5 x I <sub>N</sub>	2.75 x I <sub>N</sub>	4 x I <sub>N</sub>	10 x I <sub>N</sub>
1.60 A ... 10.00 A	> 1 h	< 30 min	2 ms ... 100 ms	1 ms ... 25 ms	< 3 ms

Permissible continuous operating current is ≤ 80 % 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 1.5 x I <sub>N</sub> Ⓢ max. (W)	Melting Integral 10 x I <sub>N</sub> Ⓢ max. (A <sup>2</sup> s)	Approvals
1.60 A	1160	250 V	1000A 50 Hz cos φ=1.0	1000		0.12	None
2.00 A	1200	250 V		600		0.35	
2.50 A	1250	250 V		500		0.44	
3.15 A	1315	250 V		480		0.75	
4.00 A	1400	250 V		480		1.60	
5.00 A <sup>1</sup>	1500	250 V		500		2.50	
6.30 A <sup>1</sup>	1630	250 V		480		5.00	
8.00 A <sup>1</sup>	1800	250 V		400		10.00	
10.00 A <sup>1</sup>	2100	250 V		400		20.00	

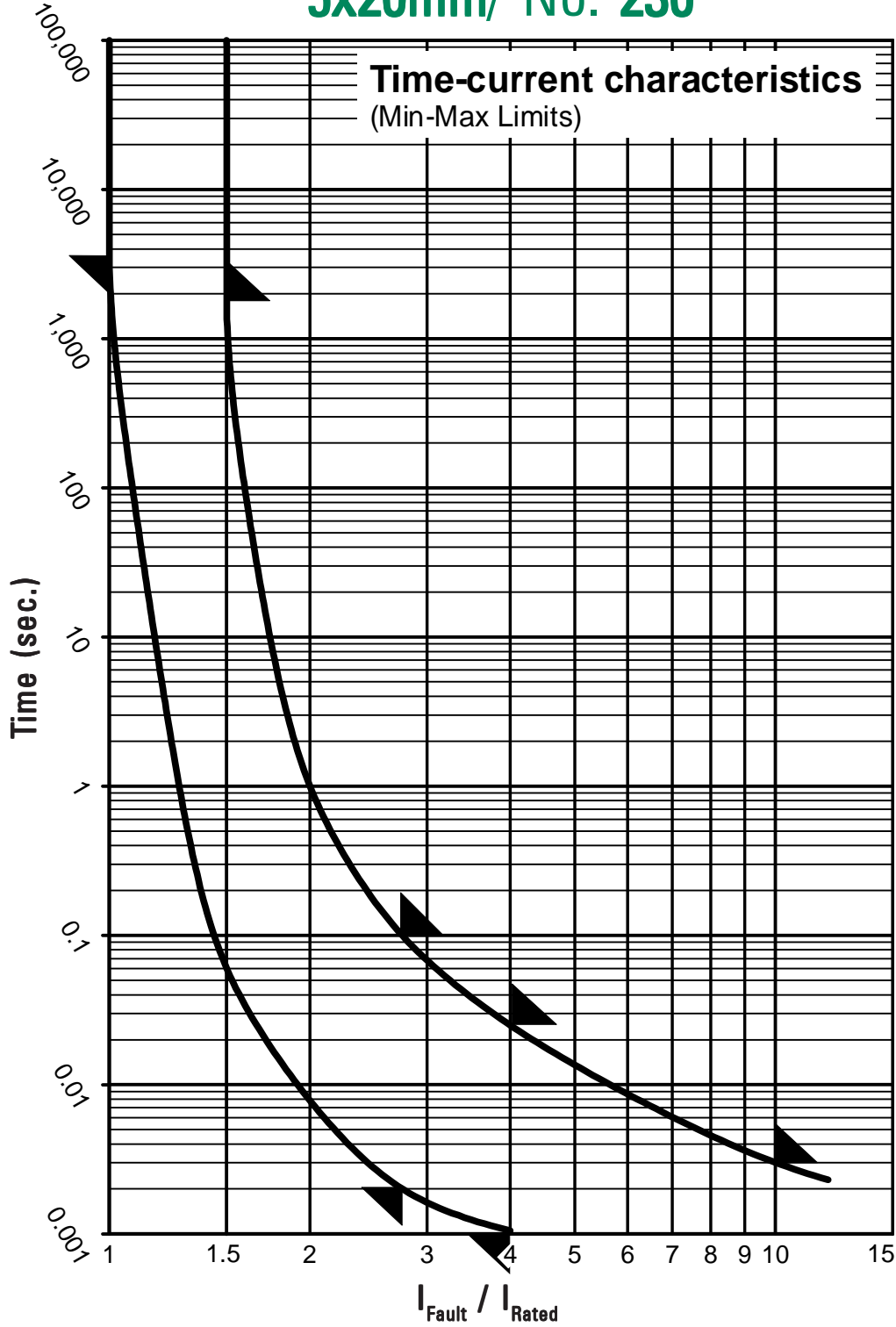
<sup>1</sup> Depending on the application and mounting, the fuse heating at max. ambient temperature in a closed fuseholder should be considered.

Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

### Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		230		

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Contact Littelfuse for individual I-t curves