

## 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

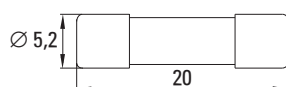
### Vibration Resistance

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<br>1.0 x I <sub>N</sub> Ⓜ<br>max. (mV) | Power Dissipation<br>1.5 x I <sub>N</sub> Ⓜ<br>max. (W) | Melting Integral<br>10 x I <sub>N</sub> Ⓜ<br>max. (A²s) | Approvals |
|----------------------|----------|----------------|-------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------|
| 1.60 A               | 1160     | 250 V          | 1000 A @ 250 V AC<br>50 Hz<br>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                                                   |           |

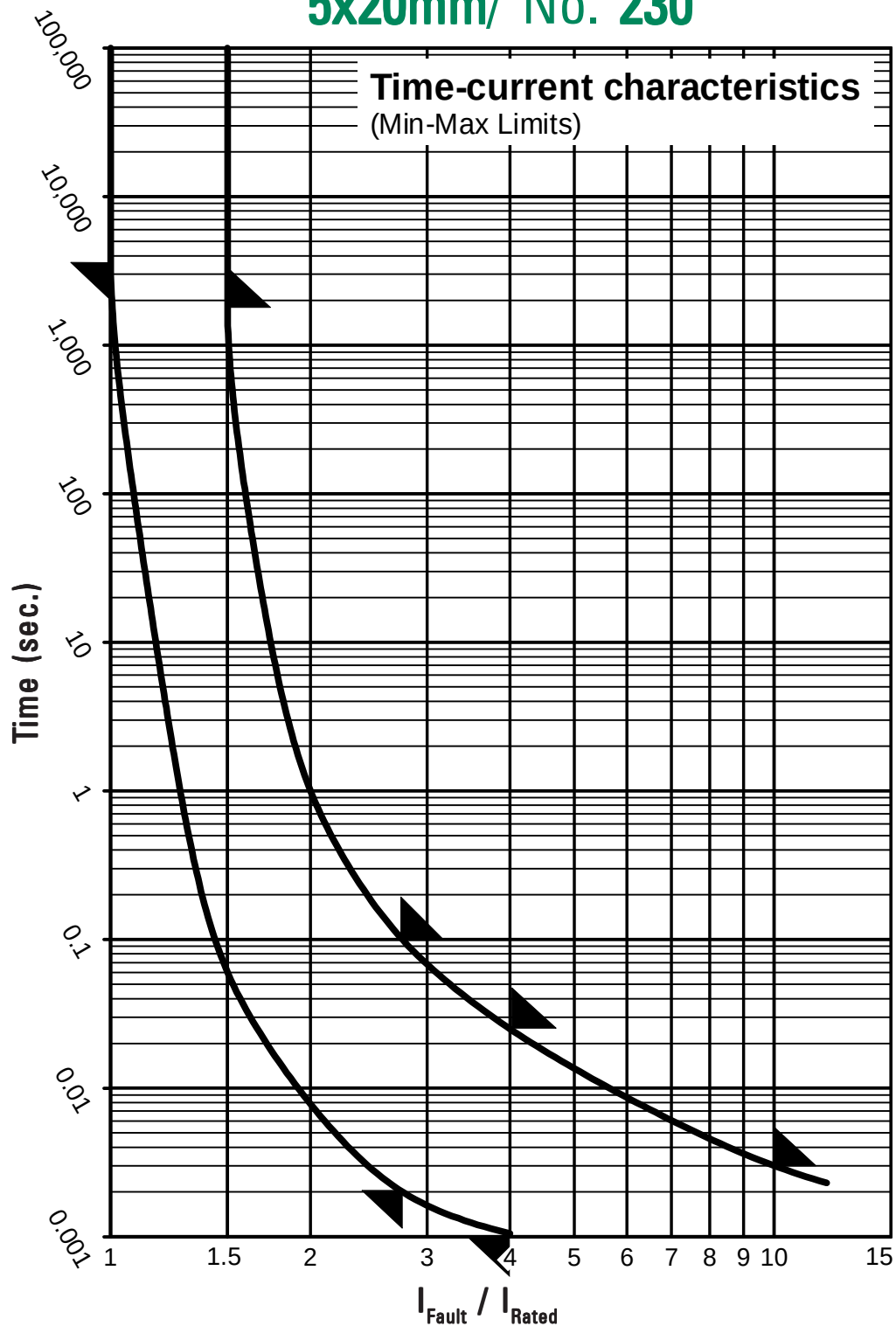
<sup>1</sup> Depending on the application and mounting, the fuse heating at max. ambient temperature in a closed fuseholder should be considered.

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