

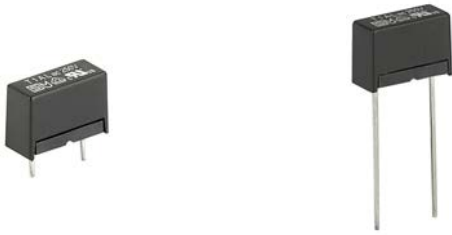
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Subminiature Fuse, 11.5 x 5 mm, Time-Lag T



IEC 60127-4 · 250VAC · Time-Lag T



### Description

- Subminiature fuse time-lag T

### Standards

- IEC 60127-4/1  
- UL 248-14  
- CSA C22.2 no. 248.14

### Approvals

- Approval Reference Type: FRT 250T  
- UL File Number: E41599

### Applications

- Primary Protection on PCB  
- Power Supply Adapter for e.g. laptops



### References

[Packaging Details](#)  
Corresponding Fuseholder [231819](#)

### Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

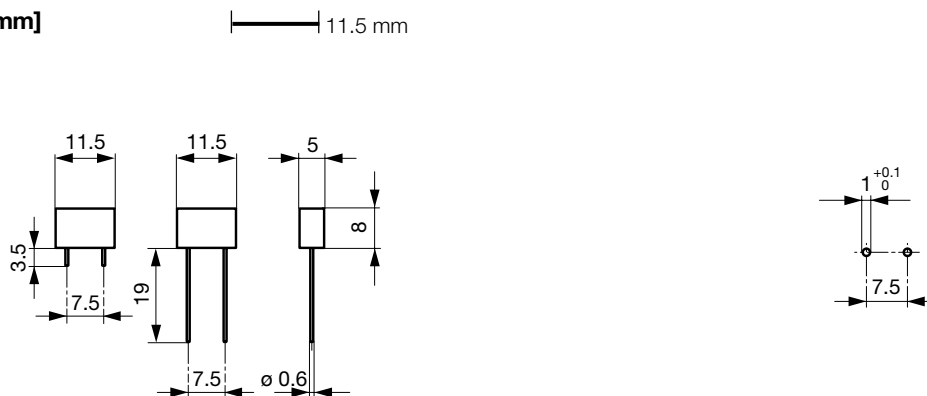
### Technical Data

|                              |  |
|------------------------------|--|
| Rated Voltage                | 250 VAC  |
| Rated current                | 0.2 - 10A  |
| Breaking Capacity            | 50A - 100A   |
| Characteristic               | Time-Lag T   |
| Mounting                     | PCB, THT   |
| Admissible Ambient Air Temp. | -40 °C to 85 °C  |
| Climatic Category            | 40/085/21 acc. to IEC 60068-1  |
| Material: Housing            | Thermoplastic, UL 94V-0  |
| Material: Terminals          | Tin-Plated Copper  |
| Unit Weight                  | 0.72 g   |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.   |
| Product Marking              |   , Rated current, Rated Voltage, Characteristic, Breaking Capacity, Approvals |

|                              |   |
|------------------------------|---|
| Soldering Methods            | Wave, Iron<br><a href="#">Soldering Profile</a>           |
| Solderability                | 235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1  |
| Resistance to Soldering Heat | 260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A |
| Resistance to Vibration      | acc. to IEC 60068-2-6, test Fc                            |

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

### Dimension [mm]



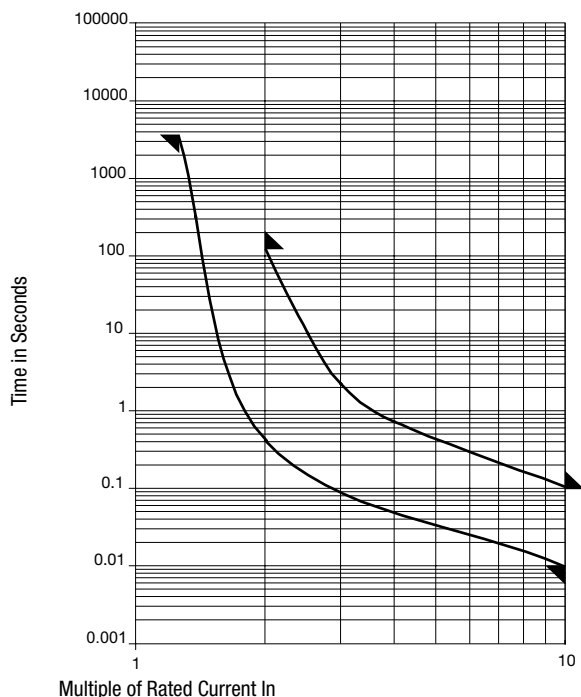
Drilling diagram

## Pre-Arcing Time


Rated Current  $I_n$     1.25 x  $I_n$  min.    2.0 x  $I_n$  max.    10.0 x  $I_n$  min.    10.0 x  $I_n$  max.


|              |        |       |       |        |
|--------------|--------|-------|-------|--------|
| 0.2 A - 10 A | 60 min | 120 s | 10 ms | 100 ms |
|--------------|--------|-------|-------|--------|

## Time-Current-Curves




## All Variants

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 $I_n$ typ. [mV] | Power Dissipation 1.25 $I_n$ typ. [mW] | Melting I <sup>2</sup> t 10.0 $I_n$ typ. [A <sup>2</sup> s] |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|----------------------------------|--|---|---|---|---|---|--------------|
| 0.2               | 250                 | 1)                | 235                              | 85                                     | 0.1   | ●   | ● |   |   | 7100.1008.13 |
| 0.25              | 250                 | 1)                | 180                              | 80                                     | 0.2   | ●   | ● |   |   | 7100.1009.13 |
| 0.315             | 250                 | 1)                | 130                              | 70                                     | 0.3   | ●   | ● |   |   | 7100.1010.13 |
| 0.4               | 250                 | 1)                | 130                              | 90                                     | 0.49  | ●   | ● |   |   | 7100.1011.13 |
| 0.5               | 250                 | 1)                | 120                              | 110                                    | 0.53  | ●   | ● |   |   | 7100.1012.13 |
| 0.63              | 250                 | 1)                | 100                              | 115                                    | 1.13  | ●   | ● |   |   | 7100.1013.13 |
| 0.8               | 250                 | 2)                | 230                              | 330                                    | 1.5   | ●   | ● |   |   | 7100.1014.13 |
| 1                 | 250                 | 2)                | 155                              | 300                                    | 1.6   | ●   | ● |   |   | 7100.1015.13 |
| 1.25              | 250                 | 2)                | 120                              | 270                                    | 3   | ●   | ● |   |   | 7100.1016.13 |
| 1.6               | 250                 | 2)                | 120                              | 375                                    | 4.9   | ●   | ● |   |   | 7100.1017.13 |
| 2                 | 250                 | 2)                | 105                              | 400                                    | 7   | ●   | ● |   |   | 7100.1018.13 |
| 2.5               | 250                 | 3)                | 95                               | 420                                    | 7.3   | ●   | ● |   |   | 7100.1019.13 |
| 3.15              | 250                 | 3)                | 92                               | 520                                    | 4.7   | ●   | ● |   |   | 7100.1020.13 |
| 4                 | 250                 | 3)                | 90                               | 600                                    | 25  | ●   | ● |   |   | 7100.1021.13 |
| 5                 | 250                 | 3)                | 92                               | 800                                    | 32  | ●   | ● |   |   | 7100.1022.13 |
| 6.3               | 250                 | 4)                | 93                               | 680                                    | 53  | ●   | ● |   |   | 7100.1023.13 |
| 8                 | 250                 | 4)                | 65                               | 500                                    | 87  | ●   | ● |   |   | 7100.1024.13 |
| 10                | 250                 | 4)                | 63                               | 900                                    | 160   | ●   | ● |   |   | 7100.1025.13 |
| 0.2               | 250                 | 1)                | 235                              | 85                                     | 0.1   | ●   |   | ● | ● | 7100.1108.13 |
| 0.2               | 250                 | 1)                | 235                              | 85                                     | 0.1   | ●   |   | ● | ● | 7100.1108.95 |
| 0.2               | 250                 | 1)                | 235                              | 85                                     | 0.1   | ●   |   | ● | ● | 7100.1108.96 |

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.25 I <sub>n</sub> typ. [mW] | Melting Pt 10.0 Intyp. [A <sup>2</sup> s] |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|-------------------------------|---|---|---|---|---|---|--------------|
| 0.25              | 250                 | 1)                | 180                           | 80  | 0.2                                       | ●   | ● | ● | ● | 7100.1109.13 |
| 0.25              | 250                 | 1)                | 180                           | 80  | 0.2                                       | ●   | ● | ● | ● | 7100.1109.95 |
| 0.25              | 250                 | 1)                | 180                           | 80  | 0.2                                       | ●   | ● | ● | ● | 7100.1109.96 |
| 0.315             | 250                 | 1)                | 130                           | 70  | 0.3                                       | ●   | ● | ● | ● | 7100.1110.13 |
| 0.315             | 250                 | 1)                | 130                           | 70  | 0.3                                       | ●   | ● | ● | ● | 7100.1110.95 |
| 0.315             | 250                 | 1)                | 130                           | 70  | 0.3                                       | ●   | ● | ● | ● | 7100.1110.96 |
| 0.4               | 250                 | 1)                | 130                           | 90  | 0.49                                      | ●   | ● | ● | ● | 7100.1111.13 |
| 0.4               | 250                 | 1)                | 130                           | 90  | 0.49                                      | ●   | ● | ● | ● | 7100.1111.95 |
| 0.4               | 250                 | 1)                | 130                           | 90  | 0.49                                      | ●   | ● | ● | ● | 7100.1111.96 |
| 0.5               | 250                 | 1)                | 120                           | 110   | 0.53                                      | ●   | ● | ● | ● | 7100.1112.13 |
| 0.5               | 250                 | 1)                | 120                           | 110   | 0.53                                      | ●   | ● | ● | ● | 7100.1112.95 |
| 0.5               | 250                 | 1)                | 120                           | 110   | 0.53                                      | ●   | ● | ● | ● | 7100.1112.96 |
| 0.63              | 250                 | 1)                | 100                           | 115   | 1.13                                      | ●   | ● | ● | ● | 7100.1113.13 |
| 0.63              | 250                 | 1)                | 100                           | 115   | 1.13                                      | ●   | ● | ● | ● | 7100.1113.95 |
| 0.63              | 250                 | 1)                | 100                           | 115   | 1.13                                      | ●   | ● | ● | ● | 7100.1113.96 |
| 0.8               | 250                 | 2)                | 230                           | 330   | 1.5                                       | ●   | ● | ● | ● | 7100.1114.13 |
| 0.8               | 250                 | 2)                | 230                           | 330   | 1.5                                       | ●   | ● | ● | ● | 7100.1114.95 |
| 0.8               | 250                 | 2)                | 230                           | 330   | 1.5                                       | ●   | ● | ● | ● | 7100.1114.96 |
| 1                 | 250                 | 2)                | 155                           | 300   | 1.6                                       | ●   | ● | ● | ● | 7100.1115.13 |
| 1                 | 250                 | 2)                | 155                           | 300   | 1.6                                       | ●   | ● | ● | ● | 7100.1115.95 |
| 1                 | 250                 | 2)                | 155                           | 300   | 1.6                                       | ●   | ● | ● | ● | 7100.1115.96 |
| 1.25              | 250                 | 2)                | 120                           | 270   | 3   | ●   | ● | ● | ● | 7100.1116.13 |
| 1.25              | 250                 | 2)                | 120                           | 270   | 3   | ●   | ● | ● | ● | 7100.1116.95 |
| 1.25              | 250                 | 2)                | 120                           | 270   | 3   | ●   | ● | ● | ● | 7100.1116.96 |
| 1.6               | 250                 | 2)                | 120                           | 375   | 4.9                                       | ●   | ● | ● | ● | 7100.1117.13 |
| 1.6               | 250                 | 2)                | 120                           | 375   | 4.9                                       | ●   | ● | ● | ● | 7100.1117.95 |
| 1.6               | 250                 | 2)                | 120                           | 375   | 4.9                                       | ●   | ● | ● | ● | 7100.1117.96 |
| 2                 | 250                 | 2)                | 105                           | 400   | 7   | ●   | ● | ● | ● | 7100.1118.13 |
| 2                 | 250                 | 2)                | 105                           | 400   | 7   | ●   | ● | ● | ● | 7100.1118.95 |
| 2                 | 250                 | 2)                | 105                           | 400   | 7   | ●   | ● | ● | ● | 7100.1118.96 |
| 2.5               | 250                 | 3)                | 95                            | 420   | 7.3                                       | ●   | ● | ● | ● | 7100.1119.13 |
| 2.5               | 250                 | 3)                | 95                            | 420   | 7.3                                       | ●   | ● | ● | ● | 7100.1119.95 |
| 2.5               | 250                 | 3)                | 95                            | 420   | 7.3                                       | ●   | ● | ● | ● | 7100.1119.96 |
| 3.15              | 250                 | 3)                | 92                            | 520   | 4.7                                       | ●   | ● | ● | ● | 7100.1120.13 |
| 3.15              | 250                 | 3)                | 92                            | 520   | 4.7                                       | ●   | ● | ● | ● | 7100.1120.95 |
| 3.15              | 250                 | 3)                | 92                            | 520   | 4.7                                       | ●   | ● | ● | ● | 7100.1120.96 |
| 4                 | 250                 | 3)                | 90                            | 600   | 25  | ●   | ● | ● | ● | 7100.1121.13 |
| 4                 | 250                 | 3)                | 90                            | 600   | 25  | ●   | ● | ● | ● | 7100.1121.95 |
| 4                 | 250                 | 3)                | 90                            | 600   | 25  | ●   | ● | ● | ● | 7100.1121.96 |
| 5                 | 250                 | 3)                | 92                            | 800   | 32  | ●   | ● | ● | ● | 7100.1122.13 |
| 5                 | 250                 | 3)                | 92                            | 800   | 32  | ●   | ● | ● | ● | 7100.1122.95 |
| 5                 | 250                 | 3)                | 92                            | 800   | 32  | ●   | ● | ● | ● | 7100.1122.96 |
| 6.3               | 250                 | 4)                | 93                            | 680   | 53  | ●   | ● | ● | ● | 7100.1123.13 |
| 6.3               | 250                 | 4)                | 93                            | 680   | 53  | ●   | ● | ● | ● | 7100.1123.95 |
| 6.3               | 250                 | 4)                | 93                            | 680   | 53  | ●   | ● | ● | ● | 7100.1123.96 |
| 8                 | 250                 | 4)                | 65                            | 500   | 87  | ●   | ● | ● | ● | 7100.1124.13 |
| 8                 | 250                 | 5)                | 65                            | 500   | 87  | ●   | ● | ● | ● | 7100.1124.95 |
| 8                 | 250                 | 5)                | 65                            | 500   | 87  | ●   | ● | ● | ● | 7100.1124.96 |
| 10                | 250                 | 4)                | 63                            | 900   | 160                                       | ●   | ● | ● | ● | 7100.1125.13 |
| 10                | 250                 | 5)                | 63                            | 900   | 160                                       | ●   | ● | ● | ● | 7100.1125.95 |
| 10                | 250                 | 5)                | 63                            | 900   | 160                                       | ●   | ● | ● | ● | 7100.1125.96 |

Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

| Rated Current [A]   | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.25 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  | S | L | T | Order Number |
|---|---------------------|-------------------|---|---|---|---|---|---|---|--------------|
| 1) UL : 35 A @ 250 VAC/DC / 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 |                     |                   |   |   |   |   |   |   |   |              |
| 2) UL: 50 A @ 250 VAC/DC / 10 kA @ 125 VAC, p.f. = 0.7 - 0.8  |                     |                   |   |   |   |   |   |   |   |              |
| 3) UL: 50 A @ 250 VAC, p.f. ≥ 0.95                            |                     |                   |   |   |   |   |   |   |   |              |
| 4) UL: 63 A @ 250 VAC, p.f. ≥ 0.95                            |                     |                   |   |   |   |   |   |   |   |              |

| Packaging Unit                  |                              |
|---------------------------------|------------------------------|
| .xx = .13 / S = Short Terminals | Plastic Bag (100 pcs.)       |
| .xx = .13 / L = Long Terminals  | Plastic Bag (100 pcs.)       |
| .xx = .95 / T = Reeled          | Taped 36 cm Reel (500 pcs.)  |
| .xx = .96 / T = Reeled          | Taped 36 cm Reel (1000 pcs.) |