

Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, 100 A



IEC 60127-3 · 250 VAC · Time-Lag T

**Description**

- Directly solderable on printed circuit boards
- High breaking capacity

**Standards**

- IEC 60127-3/4
- UL 248-14
- CSA C22.2 no. 248.14

**Approvals**

- VDE Certificate Number: 40008838
- UL File Number: E41599
- CSA File Number: 51172

**Applications**

- Primary Protection on PCB
- Power Supply Adapter for e.g. laptops
- SMPS (Switching Mode Power Supply) for TV's and DVD's

**References**

[Packaging Details](#)

Corresponding Fuseholder [FMS \(250V\)](#)

**Weblinks**

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

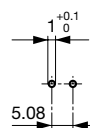
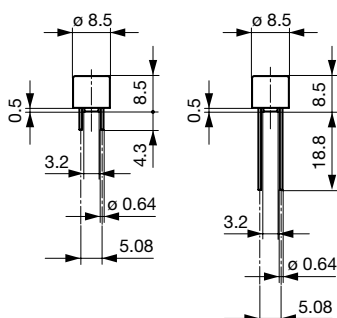
**Technical Data**

|                              |                                                               |
|------------------------------|---------------------------------------------------------------|
| Rated Voltage                | 250 VAC                                                       |
| Rated current                | 0.8 - 10 A                                                    |
| Breaking Capacity            | 100 A                                                         |
| 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                  | 0.78 g                                                        |
| Storage Conditions           | 0 °C to 40 °C, max. 70% r.h.                                  |
| Product Marking              | Type, Current, Dielectric strength, Characteristic, Approvals |

|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| Soldering Methods            | Wave, Iron                                                        |
| Solderability                | 235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta                    |
| Resistance to Soldering Heat | 260 °C / 10 sec acc. to IEC 60068-2-20, Test Tb                   |
| Resistance to Vibration      | acc. to IEC 60068-2-6, test Fc                                    |
| Life Test                    | 1000h @ 0.60 x In @ 70 °C<br>(acc. to EIA/IS-722, Test 4.4.1)     |
| Load Humidity Test           | MIL-STD-202, Method 103B<br>0.1 x In @ 0.85 r.H. @ 85 °C          |
| Moisture Resistance Test     | MIL-STD-202, Method 106E<br>(50 cycles in a temp./mister chamber) |
| Terminal Strength            | Tensile load min. 9 N<br>(acc. to EIA/IS-722, Test 4.5.5)         |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7<br>>100 MΩ (between leads and body)  |
| Mechanical Shock             | MIL-STD-202, Method 213B<br>(Shock 50g, half sine wave, 11 ms)    |
| Resistance to Solvents       | MIL-STD-202, Method 215A                                          |
| Flammability                 | UL 94V-0<br>(acc. to EIA/IS-722, Test 4.12)                       |

**Dimensions**

8.5 mm



Drilling diagram

## Pre-Arcing Time

| Rated Current In | 1.0 x In min. | 1.5 x In min. | 2.0 x In max. | 2.1 x In max. | 2.75 x In min. | 2.75 x In max. | 4.0 x In min. | 4.0 x In max. | 10.0 x In min. | 10.0 x In max. |
|------------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|----------------|
| 0.8 A - 6.3 A    | -             | 60 min        | -             | 120 s         | 400 ms         | 10 s           | 150 ms        | 3 s           | 20 ms          | 150 ms         |
| 8 A - 10 A       | 4 h           | -             | 60 s          | -             | -              | -              | -             | -             | -              | -              |

## Variants

S = Short Terminals

L = Long Terminals

T = Taped and Reeled

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Melting P <sub>t</sub> 10.0 Intyp. [A²s] |  |  |  |  |  |  |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|---|--------------|
| 0.8               | 250                 | 1)                | 160                           | 128                           | 430                                            | 1.5                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |   |   | 0034.6914    |
| 1                 | 250                 | 1)                | 140                           | 130                           | 500                                            | 4.4                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6915    |
| 1.25              | 250                 | 1)                | 130                           | 120                           | 600                                            | 6.3                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6916    |
| 1.6               | 250                 | 1)                | 120                           | 110                           | 730                                            | 10                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6917    |
| 2                 | 250                 | 1)                | 100                           | 85                            | 870                                            | 16                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6918    |
| 2.5               | 250                 | 1)                | 100                           | 85                            | 1000                                           | 32                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6919    |
| 3.15              | 250                 | 1)                | 100                           | 75                            | 1200                                           | 57                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6920    |
| 4                 | 250                 | 1)                | 100                           | 75                            | 1400                                           | 77                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6921    |
| 5                 | 250                 | 1)                | -                             | 70                            | -                                              | 155                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   |                                                                                     |   |   | ● | 0034.6922    |
| 6.3               | 250                 | 1)                | -                             | 60                            | -                                              | 262                                      |                                                                                   | ●                                                                                 |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   | ● | 0034.6923    |
| 8                 | 250                 | 1)                | -                             | 62                            | -                                              | 397                                      |                                                                                   |                                                                                   | ●                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     |   |   | ● | 0034.6924    |
| 10                | 250                 | 1)                | -                             | 62                            | -                                              | 440                                      |                                                                                   |                                                                                   | ●                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     |   |   | ● | 0034.6925    |
| 0.8               | 250                 | 1)                | 160                           | 128                           | 430                                            | 1.5                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   |                                                                                     | ●                                                                                   | ● |   | ● | 0034.6944    |
| 1                 | 250                 | 1)                | 140                           | 130                           | 500                                            | 4.4                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6945    |
| 1.25              | 250                 | 1)                | 130                           | 120                           | 600                                            | 6.3                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6946    |
| 1.6               | 250                 | 1)                | 120                           | 110                           | 730                                            | 10                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6947    |
| 2                 | 250                 | 1)                | 100                           | 85                            | 870                                            | 16                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6948    |
| 2.5               | 250                 | 1)                | 100                           | 85                            | 1000                                           | 32                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6949    |
| 3.15              | 250                 | 1)                | 100                           | 75                            | 1200                                           | 57                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6950    |
| 4                 | 250                 | 1)                | 100                           | 75                            | 1400                                           | 77                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● | ● |   | 0034.6951    |
| 5                 | 250                 | 1)                | -                             | 70                            | -                                              | 155                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   |                                                                                     |   |   | ● | 0034.6952    |
| 6.3               | 250                 | 1)                | -                             | 60                            | -                                              | 262                                      |                                                                                   | ●                                                                                 |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   | ● | 0034.6953    |
| 8                 | 250                 | 1)                | -                             | 62                            | -                                              | 397                                      |                                                                                   |                                                                                   | ●                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     |   |   | ● | 0034.6954    |
| 10                | 250                 | 1)                | -                             | 62                            | -                                              | 440                                      |                                                                                   |                                                                                   | ●                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     |   |   | ● | 0034.6955    |
| 0.8               | 250                 | 1)                | 160                           | 128                           | 430                                            | 1.5                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   |                                                                                     | ●                                                                                   | ● |   | ● | 0034.6974    |
| 1                 | 250                 | 1)                | 140                           | 130                           | 500                                            | 4.4                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |   | ● | 0034.6975    |
| 1.25              | 250                 | 1)                | 130                           | 120                           | 600                                            | 6.3                                      | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |   | ● | 0034.6976    |
| 1.6               | 250                 | 1)                | 120                           | 110                           | 730                                            | 10                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |   | ● | 0034.6977    |
| 2                 | 250                 | 1)                | 100                           | 85                            | 870                                            | 16                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |   | ● | 0034.6978    |
| 2.5               | 250                 | 1)                | 100                           | 85                            | 1000                                           | 32                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |   | ● | 0034.6979    |
| 3.15              | 250                 | 1)                | 100                           | 75                            | 1200                                           | 57                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |   | ● | 0034.6980    |
| 4                 | 250                 | 1)                | 100                           | 75                            | 1400                                           | 77                                       | ●                                                                                 |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |   | ● | 0034.6981    |
| 5                 | 250                 | 1)                | -                             | 70                            | -                                              | 155                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   |                                                                                     |   |   | ● | 0034.6982    |
| 6.3               | 250                 | 1)                | -                             | 60                            | -                                              | 262                                      |                                                                                   | ●                                                                                 |                                                                                   |                                                                                    | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   | ● | 0034.6983    |
| 8                 | 250                 | 1)                | -                             | 62                            | -                                              | 397                                      |                                                                                   |                                                                                   | ●                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     |   |   | ● | 0034.6984    |
| 10                | 250                 | 1)                | -                             | 62                            | -                                              | 440                                      |                                                                                   |                                                                                   | ●                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     |   |   | ● | 0034.6985    |

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1) 100 A @ 250 VAC, p.f. = 1.0

## Packaging Unit

S = Plastic Bag (100 pcs.)  
 L = Bulk (100 pcs.)  
 T = Taped 36 cm Reel (750 pcs.)

## Time-Current-Curves

