

Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, 63 VDC



Subminiature fuse 8.5 mm, time-lag T,
250 VAC
Short terminal



Subminiature fuse 8.5 mm, time-lag T,
250 VAC
Terminal long
PCB

IEC 60127-3 · 250VAC · Time-Lag T

See below:

[Approvals and Compliances](#)

Description

- Directly solderable on printed circuit boards
- Low Breaking Capacity

Applications

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


References

Corresponding Fuseholder [FMS \(250V\)](#)Fuse Kit [Fuse Kit MST250 / MSF 250](#)

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

| | |
|--------------------------|---|
| Rated Voltage | 250VAC, 63 VDC |
| Rated current | 0.05 - 6.3A |
| Breaking Capacity | 35A - 63A |
| Characteristic | Time-Lag T |
| Mounting | PCB, THT |
| Admissible Ambient Temp. | -55 °C to 125 °C |
| Climatic Category | 55/125/21 acc. to IEC 60068-1 |
| Material: Housing | Thermoplastic, UL 94V-0 |
| Material: Terminals | Tin-Plated Copper |
| Unit Weight | 0.53 g |
| Storage Conditions | 0 °C to 40 °C, max. 70% r.h. |
| Product Marking |  Type, Rated current, Rated Voltage, Characteristic, Certification marks |

| | |
|------------------------------|--|
| Soldering Methods | Wave Soldering Profile |
| 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 |
| Case Resistance | acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body) |
| Flammability | UL 94V-0 (acc. to EIA/IS-722, Test 4.12) |
| Current Carrying Capacity | acc. to EIA/IS-722, Test 4.3.3 |
| Moisture Sensitivity Level | MIL-STD-202, Method 106 (50 cycles in a temp./mister chamber) |
| Vibration, High Frequency | MIL-STD-202, Method 204 Condition D |
| Mechanical Shock | MIL-STD-202, Method 213 Condition A |
| Resistance to Solvents | MIL-STD-202, Method 215 |
| Terminal Strength | Tensile load min. 9 N (acc. to EIA/IS-722, Test 4.5.1) |

Approvals and Compliances







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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals




The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: MST 250

| Approval Logo | Certificates | Certification Body | Description |
|--|--------------------------------|--------------------|---|
|  | VDE Approvals | VDE | VDE Certificate Number: 40046346 |
|  | VDE Approvals | VDE | VDE Certificate Number: 40002080 |
|  | UL Approvals | UL | UR File Number: E41599 |
|  | CCC Approvals | CCC | CCC Certificate Number: 2020970207000096 |
|  | KTL Approvals | KTL | Korea Testing Laboratory |
|  | METI Approvals | METI | Japan Electrical Safety and Environment technology Laboratories |

Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|--|-----------------------|--------------------|---|
|  | Designed according to | IEC 60127-3/4 | Miniature fuses - Part 3: Miniature fuse-links |
|  | Designed according to | UL 248-14 | Low voltage fuses - Part 14: Supplemental fuses |
|  | Designed according to | CSA22.2 No. 248.14 | Low-Voltage Fuses - Part 14: Supplemental Fuses |






Application standards

Application standards where the product can be used

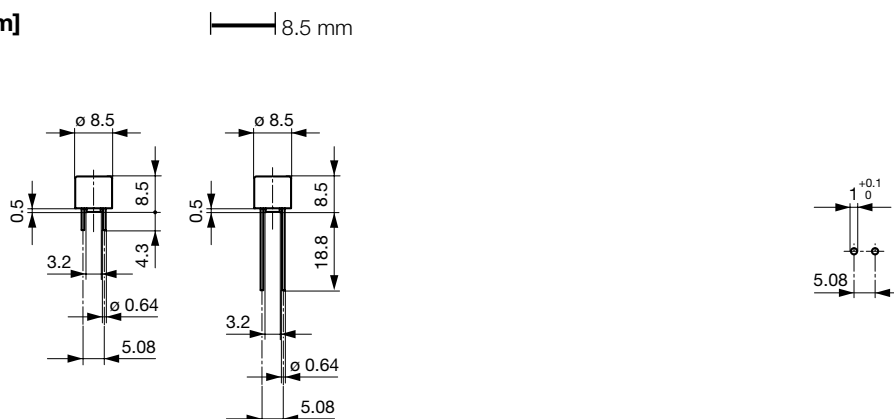
| Organization | Design | Standard | Description |
|--|--------------------------------|----------------|---|
|  | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

Compliances

The product complies with following Guide Lines

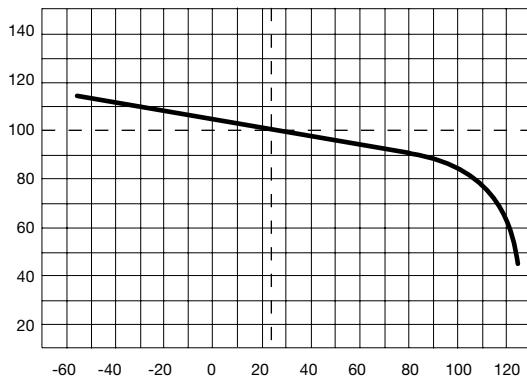
| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | UKCA declaration of conformity | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008. |
|  | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

Dimension [mm]



Drilling diagram

Derating Curves

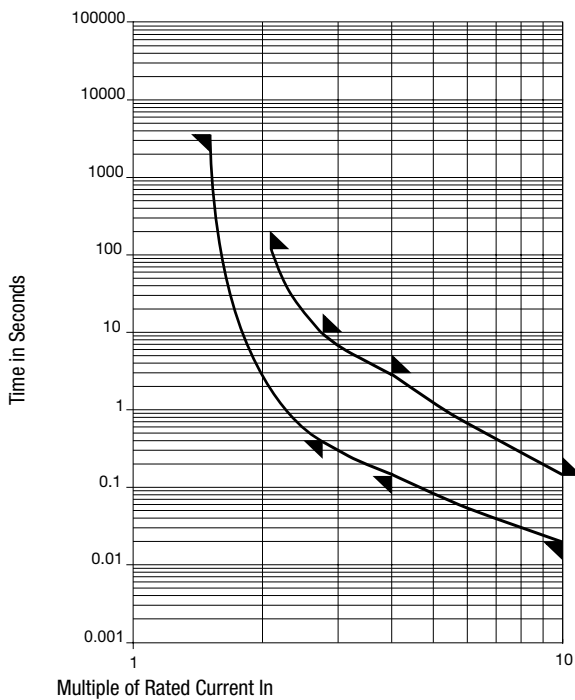


Pre-Arcing Time

Rated Current I_n 1.5 x I_n min. 2.1 x I_n max. 2.75 x I_n min. 2.75 x I_n max. 4.0 x I_n min. 4.0 x I_n max. 10.0 x I_n min. 10.0 x I_n max.







| | | | | | | | | |
|----------------|--------|-------|--------|------|--------|-----|-------|--------|
| 0.05 A - 6.3 A | 60 min | 120 s | 400 ms | 10 s | 150 ms | 3 s | 20 ms | 150 ms |
|----------------|--------|-------|--------|------|--------|-----|-------|--------|








Time-Current-Curves



All Variants

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 I_n max. [mV] | Voltage Drop 1.0 I_n typ. [mV] | Power Dissipation 1.5 I_n max. [mW] | Melting I^2t 10.0 I_n typ. [A ² s] | | | | | | | S | L | T | Order Number |
|-------------------|---------------------|-------------------|----------------------------------|----------------------------------|---------------------------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| 0.05 | 250 | 1) | 550 | 415 | 155 | 0.03 | ● | ● | ● | ● | ● | ● | ● | ● | ● | 0034.6602 |
| 0.05 | 250 | 1) | 550 | 415 | 155 | 0.03 | ● | ● | ● | ● | ● | ● | ● | ● | ● | 0034.6702 |
| 0.05 | 250 | 1) | 550 | 415 | 155 | 0.03 | ● | ● | ● | ● | ● | ● | ● | ● | ● | 0034.6802 |
| 0.063 | 250 | 1) | 480 | 420 | 160 | 0.05 | ● | ● | ● | ● | ● | ● | ● | ● | ● | 0034.6603 |
| 0.063 | 250 | 1) | 480 | 420 | 160 | 0.05 | ● | ● | ● | ● | ● | ● | ● | ● | ● | 0034.6703 |
| 0.063 | 250 | 1) | 480 | 420 | 160 | 0.05 | ● | ● | ● | ● | ● | ● | ● | ● | ● | 0034.6803 |

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 I _n max. [mV] | Voltage Drop 1.0 I _n typ. [mV] | Power Dissipation 1.5 I _n max. [mW] | Melting I ² t 10.0 I _n typ. [A ² s] |  |  |  |  |  |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|---|---|--|--|---|---|--|---|---|---|---|---|---|--------------|
| 0.08 | 250 | 1) | 400 | 360 | 165 | 0.06 | ● | ● | ● | ● | ● | ● | | | | 0034.6604 |
| 0.08 | 250 | 1) | 400 | 360 | 165 | 0.06 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6704 |
| 0.08 | 250 | 1) | 400 | 360 | 165 | 0.06 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6804 |
| 0.1 | 250 | 1) | 350 | 320 | 170 | 0.08 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6605 |
| 0.1 | 250 | 1) | 350 | 320 | 170 | 0.08 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6705 |
| 0.1 | 250 | 1) | 350 | 320 | 170 | 0.08 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6805 |
| 0.125 | 250 | 1) | 300 | 270 | 180 | 0.12 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6606 |
| 0.125 | 250 | 1) | 300 | 270 | 180 | 0.12 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6706 |
| 0.125 | 250 | 1) | 300 | 270 | 180 | 0.12 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6806 |
| 0.16 | 250 | 1) | 280 | 190 | 190 | 0.24 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6607 |
| 0.16 | 250 | 1) | 280 | 190 | 190 | 0.24 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6707 |
| 0.16 | 250 | 1) | 280 | 190 | 190 | 0.24 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6807 |
| 0.2 | 250 | 1) | 260 | 150 | 200 | 0.35 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6608 |
| 0.2 | 250 | 1) | 260 | 150 | 200 | 0.35 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6708 |
| 0.2 | 250 | 1) | 260 | 150 | 200 | 0.35 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6808 |
| 0.25 | 250 | 1) | 240 | 120 | 220 | 0.6 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6609 |
| 0.25 | 250 | 1) | 240 | 120 | 220 | 0.6 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6709 |
| 0.25 | 250 | 1) | 240 | 120 | 220 | 0.6 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6809 |
| 0.315 | 250 | 1) | 220 | 120 | 250 | 0.8 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6610 |
| 0.315 | 250 | 1) | 220 | 120 | 250 | 0.8 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6710 |
| 0.315 | 250 | 1) | 220 | 120 | 250 | 0.8 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6810 |
| 0.4 | 250 | 1) | 200 | 110 | 280 | 1.1 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6611 |
| 0.4 | 250 | 1) | 200 | 110 | 280 | 1.1 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6711 |
| 0.4 | 250 | 1) | 200 | 110 | 280 | 1.1 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6811 |
| 0.5 | 250 | 1) | 190 | 100 | 310 | 2.5 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6612 |
| 0.5 | 250 | 1) | 190 | 100 | 310 | 2.5 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6712 |
| 0.5 | 250 | 1) | 190 | 100 | 310 | 2.5 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6812 |
| 0.63 | 250 | 1) | 180 | 90 | 360 | 4 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6613 |
| 0.63 | 250 | 1) | 180 | 90 | 360 | 4 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6713 |
| 0.63 | 250 | 1) | 180 | 90 | 360 | 4 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6813 |
| 0.8 | 250 | 1) | 160 | 80 | 430 | 8 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6614 |
| 0.8 | 250 | 1) | 160 | 80 | 430 | 8 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6714 |
| 0.8 | 250 | 1) | 160 | 80 | 430 | 8 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6814 |
| 1 | 250 | 1) | 140 | 70 | 500 | 12 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6615 |
| 1 | 250 | 1) | 140 | 70 | 500 | 12 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6715 |
| 1 | 250 | 1) | 140 | 70 | 500 | 12 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6815 |
| 1.25 | 250 | 1) | 130 | 70 | 600 | 15 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6616 |
| 1.25 | 250 | 1) | 130 | 70 | 600 | 15 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6716 |
| 1.25 | 250 | 1) | 130 | 70 | 600 | 15 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6816 |
| 1.6 | 250 | 1) | 120 | 60 | 730 | 30 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6617 |
| 1.6 | 250 | 1) | 120 | 60 | 730 | 30 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6717 |
| 1.6 | 250 | 1) | 120 | 60 | 730 | 30 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6817 |
| 2 | 250 | 1) | 100 | 60 | 870 | 34 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6618 |
| 2 | 250 | 1) | 100 | 60 | 870 | 34 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6718 |
| 2 | 250 | 1) | 100 | 60 | 870 | 34 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6818 |
| 2.5 | 250 | 1) | 100 | 50 | 1000 | 55 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6619 |
| 2.5 | 250 | 1) | 100 | 50 | 1000 | 55 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6719 |
| 2.5 | 250 | 1) | 100 | 50 | 1000 | 55 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6819 |
| 3.15 | 250 | 1) | 100 | 50 | 1200 | 76 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6620 |
| 3.15 | 250 | 1) | 100 | 50 | 1200 | 76 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6720 |
| 3.15 | 250 | 1) | 100 | 50 | 1200 | 76 | ● | ● | ● | ● | ● | ● | | ● | | 0034.6820 |
| 4 | 250 | 2) | 100 | 50 | 1400 | 80 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6621 |
| 4 | 250 | 2) | 100 | 50 | 1400 | 80 | ● | ● | ● | ● | ● | ● | ● | | | 0034.6721 |

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 I _n max. [mV] | Voltage Drop 1.0 I _n typ. [mV] | Power Dissipation 1.5 I _n max. [mW] | Melting I ² t 10.0 I _n typ. [A ² s] |  |  |  |  |  |  |  | S | L | T | Order Number | |
|-------------------|---------------------|-------------------|---|---|--|--|---|---|--|---|---|---|---|---|---|---|--------------|-----------|
| 4 | 250 | 2) | 100 | 50 | 1400 | 80 | ● | | ● | ● | ● | ● | ● | | | | ● | 0034.6821 |
| 5 | 250 | 3) | - | 50 | - | 230 | | ● | ● | ● | | ● | ● | | | | ● | 0034.6622 |
| 5 | 250 | 3) | - | 50 | - | 230 | | ● | ● | ● | | ● | ● | | | | ● | 0034.6722 |
| 5 | 250 | 3) | - | 50 | - | 230 | | ● | ● | ● | | ● | ● | | | | ● | 0034.6822 |
| 6.3 | 250 | 3) | - | 45 | - | 360 | | ● | ● | | | ● | ● | | | | ● | 0034.6623 |
| 6.3 | 250 | 3) | - | 45 | - | 360 | | ● | ● | | | ● | ● | | | | ● | 0034.6723 |
| 6.3 | 250 | 3) | - | 45 | - | 360 | | ● | ● | | | ● | ● | | | | ● | 0034.6823 |

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

- 1) IEC: 35 A @ 250 VAC
- 1) UL: 35 A @ 250 VAC / 50 A @ 63 VDC
- 2) IEC: 10 In @ 250 VAC
- 2) UL: 10 In @ 250 VAC / 50 A @ 63 VDC
- 3) IEC: 10 In @ 250 VAC
- 3) UL: 10 In @ 250 VAC / 10 In @ 63 VDC

| Packaging Unit | S = 4.3 mm | 100 pcs in ESD-plastic bag |
|------------------|-------------|--|
| acc. IEC 60286-2 | L = 18.8 mm | 100 St. (Bulk) |
| | T = 18.8 mm | 750 pcs. in tape [P = P0: 12.7; P1: 3.81; H1: 26.45] on reel [A: 360; W3: 40; W4: 52; C: 30.5] |