

Subminiature Fuse, 6.4 mm, Quick-Acting F, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F

See below:  
[Approvals and Compliances](#)

### Description

- Directly solderable on printed circuit boards

### References


[Packaging Details](#)

Corresponding Fuseholder [FME](#); [FMR](#); [FMS \(125V\)](#)

### Weblinks

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

### Technical Data

|                              |   |
|------------------------------|---|
| Rated Voltage                | 125 VAC, 125 VDC  |
| Rated current                | 0.1 - 5 A   |
| Breaking Capacity            | 100 A   |
| Characteristic               | Quick-Acting F  |
| Mounting                     | PCB, THT  |
| Admissible Ambient Air Temp. | -25 °C to 85 °C   |
| Climatic Category            | 25/085/21 acc. to IEC 60068-1   |
| Material: Housing            | Thermoplastic, UL 94V-0   |
| Material: Terminals          | Tin-Plated Copper   |
| Unit Weight                  | 0.34 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<br><a href="#">Soldering Profile</a>                        |
| 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<br>>100 MΩ (between leads and body) |
| Flammability                 | UL 94V-0<br>(acc. to EIA/IS-722, Test 4.12)                      |
| Operational Life             | 1000h @ 0.60 x In @ 70°C<br>(acc. to EIA/IS-722, Test 4.4.1)     |
| Vibration, High Frequency    | MIL-STD-202, Method 204 Condition D                              |
| Mechanical Shock             | (acc. to EIA/IS-722, Test 4.9)                                   |
| Resistance to Solvents       | MIL-STD-202, Method 215  |
| Terminal Strength            | Tensile load min. 9 N<br>(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 134485 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: MSF 125

| Approval Logo   | Certificates | Certification Body | Description            |
|---|--------------|--------------------|------------------------|
|  | UL Approvals | UL                 | UL File Number: E41599 |

## Product standards

Product standards that are referenced

| Organization   | Design                | Standard           | Description                                     |
|--|-----------------------|--------------------|---|
|  | Designed according to | UL 248-14          | Low voltage fuses - Part 14: Additional 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   |
|--|--------------------------------|--------------|---|
|  | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

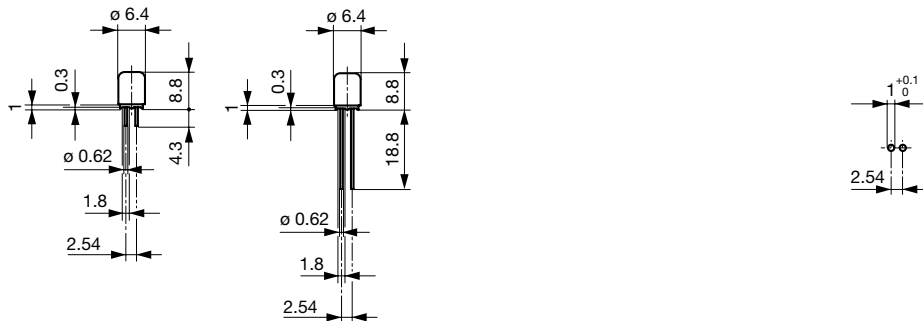
## Compliances

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. |
|  | RoHS                         | SCHURTER AG | EU Directive RoHS 2011/65/EU  |
|  | 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]

6.4 mm

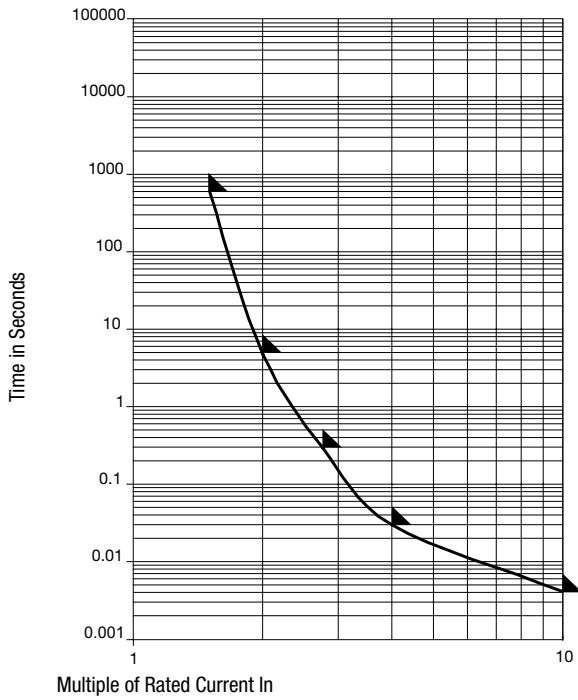


Drilling diagram


## Pre-Arcing Time


| Rated Current In | 1.5 x In max. | 2.0 x In max. | 2.75 x In max. | 4.0 x In max. | 10.0 x In max. |
|------------------|---------------|---------------|----------------|---------------|----------------|
| 0.1 A - 5 A      | 10 min        | 5 s           | 300 ms         | 30 ms         | 4 ms           |

Time-Current-Curves



All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.0 In max. [mW] | Melting I <sup>2</sup> t 10.0 In typ. [A <sup>2</sup> s] |  | S | L | T | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------|--|---|---|---|---|--------------|
| 0.1               | 125                 | 125                 | 1)                | 1000                          | 690                           | 100                                | 0.0007   | ●   | ● |   |   | 0034.4209    |
| 0.125             | 125                 | 125                 | 1)                | 1000                          | 960                           | 100                                | 0.0015   | ●   | ● |   |   | 0034.4210    |
| 0.16              | 125                 | 125                 | 1)                | 1000                          | 850                           | 100                                | 0.0036   | ●   | ● |   |   | 0034.4211    |
| 0.2               | 125                 | 125                 | 1)                | 700                           | 680                           | 100                                | 0.0033   | ●   | ● |   |   | 0034.4212    |
| 0.25              | 125                 | 125                 | 1)                | 700                           | 620                           | 100                                | 0.0055   | ●   | ● |   |   | 0034.4213    |
| 0.315             | 125                 | 125                 | 1)                | 700                           | 680                           | 200                                | 0.025  | ●   | ● |   |   | 0034.4214    |
| 0.4               | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.013  | ●   | ● |   |   | 0034.4215    |
| 0.5               | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.02   | ●   | ● |   |   | 0034.4216    |
| 0.63              | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.045  | ●   | ● |   |   | 0034.4217    |
| 0.71              | 125                 | 125                 | 1)                | 400                           | 140                           | 100                                | 0.045  | ●   | ● |   |   | 0034.4218    |
| 0.75              | 125                 | 125                 | 1)                | 400                           | 170                           | 100                                | 0.02   | ●   | ● |   |   | 0034.4219    |
| 0.8               | 125                 | 125                 | 1)                | 400                           | 150                           | 100                                | 0.04   | ●   | ● |   |   | 0034.4220    |
| 1                 | 125                 | 125                 | 1)                | 400                           | 150                           | 100                                | 0.07   | ●   | ● |   |   | 0034.4221    |
| 1.25              | 125                 | 125                 | 1)                | 190                           | 150                           | 200                                | 0.12   | ●   | ● |   |   | 0034.4222    |
| 1.6               | 125                 | 125                 | 1)                | 190                           | 150                           | 200                                | 0.29   | ●   | ● |   |   | 0034.4223    |
| 2                 | 125                 | 125                 | 1)                | 190                           | 130                           | 200                                | 0.43   | ●   | ● |   |   | 0034.4224    |
| 2.5               | 125                 | 125                 | 1)                | 190                           | 120                           | 300                                | 0.6  | ●   | ● |   |   | 0034.4225    |
| 3.15              | 125                 | 125                 | 1)                | 190                           | 120                           | 400                                | 1.1  | ●   | ● |   |   | 0034.4226    |
| 4                 | 125                 | 125                 | 1)                | 190                           | 120                           | 500                                | 1.9  | ●   | ● |   |   | 0034.4227    |
| 5                 | 125                 | 125                 | 1)                | 190                           | 120                           | 600                                | 3  | ●   | ● |   |   | 0034.4228    |
| 0.1               | 125                 | 125                 | 1)                | 1000                          | 690                           | 100                                | 0.0007   | ●   |   | ● |   | 0034.4239    |
| 0.125             | 125                 | 125                 | 1)                | 1000                          | 960                           | 100                                | 0.0015   | ●   |   | ● |   | 0034.4240    |
| 0.16              | 125                 | 125                 | 1)                | 1000                          | 850                           | 100                                | 0.0036   | ●   |   | ● |   | 0034.4241    |
| 0.2               | 125                 | 125                 | 1)                | 700                           | 680                           | 100                                | 0.0033   | ●   |   | ● |   | 0034.4242    |
| 0.25              | 125                 | 125                 | 1)                | 700                           | 620                           | 100                                | 0.0055   | ●   |   | ● |   | 0034.4243    |
| 0.315             | 125                 | 125                 | 1)                | 700                           | 680                           | 200                                | 0.025  | ●   |   | ● |   | 0034.4244    |
| 0.4               | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.013  | ●   |   | ● |   | 0034.4245    |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.0 In max. [mW] | Melting I <sup>2</sup> t 10.0 In typ. [A <sup>2</sup> s] |  | S | L | T | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------|--|---|---|---|---|--------------|
| 0.5               | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.02   | ●   | ● |   |   | 0034.4246    |
| 0.63              | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.045  | ●   | ● |   |   | 0034.4247    |
| 0.71              | 125                 | 125                 | 1)                | 400                           | 140                           | 100                                | 0.045  | ●   | ● |   |   | 0034.4248    |
| 0.75              | 125                 | 125                 | 1)                | 400                           | 170                           | 100                                | 0.02   | ●   | ● |   |   | 0034.4249    |
| 0.8               | 125                 | 125                 | 1)                | 400                           | 150                           | 100                                | 0.04   | ●   | ● |   |   | 0034.4250    |
| 1                 | 125                 | 125                 | 1)                | 400                           | 150                           | 100                                | 0.07   | ●   | ● |   |   | 0034.4251    |
| 1.25              | 125                 | 125                 | 1)                | 190                           | 150                           | 200                                | 0.12   | ●   | ● |   |   | 0034.4252    |
| 1.6               | 125                 | 125                 | 1)                | 190                           | 150                           | 200                                | 0.29   | ●   | ● |   |   | 0034.4253    |
| 2                 | 125                 | 125                 | 1)                | 190                           | 130                           | 200                                | 0.43   | ●   | ● |   |   | 0034.4254    |
| 2.5               | 125                 | 125                 | 1)                | 190                           | 120                           | 300                                | 0.6  | ●   | ● |   |   | 0034.4255    |
| 3.15              | 125                 | 125                 | 1)                | 190                           | 120                           | 400                                | 1.1  | ●   | ● |   |   | 0034.4256    |
| 4                 | 125                 | 125                 | 1)                | 190                           | 120                           | 500                                | 1.9  | ●   | ● |   |   | 0034.4257    |
| 5                 | 125                 | 125                 | 1)                | 190                           | 120                           | 600                                | 3  | ●   | ● |   |   | 0034.4258    |
| 0.1               | 125                 | 125                 | 1)                | 1000                          | 690                           | 100                                | 0.0007   | ●   |   | ● |   | 0034.4539    |
| 0.125             | 125                 | 125                 | 1)                | 1000                          | 960                           | 100                                | 0.0015   | ●   |   | ● |   | 0034.4540    |
| 0.16              | 125                 | 125                 | 1)                | 1000                          | 850                           | 100                                | 0.0036   | ●   |   | ● |   | 0034.4541    |
| 0.2               | 125                 | 125                 | 1)                | 700                           | 680                           | 100                                | 0.0033   | ●   |   | ● |   | 0034.4542    |
| 0.25              | 125                 | 125                 | 1)                | 700                           | 620                           | 100                                | 0.0055   | ●   |   | ● |   | 0034.4543    |
| 0.315             | 125                 | 125                 | 1)                | 700                           | 680                           | 200                                | 0.025  | ●   |   | ● |   | 0034.4544    |
| 0.4               | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.013  | ●   |   | ● |   | 0034.4545    |
| 0.5               | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.02   | ●   |   | ● |   | 0034.4546    |
| 0.63              | 125                 | 125                 | 1)                | 400                           | 180                           | 100                                | 0.045  | ●   |   | ● |   | 0034.4547    |
| 0.71              | 125                 | 125                 | 1)                | 400                           | 140                           | 100                                | 0.045  | ●   |   | ● |   | 0034.4548    |
| 0.75              | 125                 | 125                 | 1)                | 400                           | 170                           | 100                                | 0.02   | ●   |   | ● |   | 0034.4549    |
| 0.8               | 125                 | 125                 | 1)                | 400                           | 150                           | 100                                | 0.04   | ●   |   | ● |   | 0034.4550    |
| 1                 | 125                 | 125                 | 1)                | 400                           | 150                           | 100                                | 0.07   | ●   |   | ● |   | 0034.4551    |
| 1.25              | 125                 | 125                 | 1)                | 190                           | 150                           | 200                                | 0.12   | ●   |   | ● |   | 0034.4552    |
| 1.6               | 125                 | 125                 | 1)                | 190                           | 150                           | 200                                | 0.29   | ●   |   | ● |   | 0034.4553    |
| 2                 | 125                 | 125                 | 1)                | 190                           | 130                           | 200                                | 0.43   | ●   |   | ● |   | 0034.4554    |
| 2.5               | 125                 | 125                 | 1)                | 190                           | 120                           | 300                                | 0.6  | ●   |   | ● |   | 0034.4555    |
| 3.15              | 125                 | 125                 | 1)                | 190                           | 120                           | 400                                | 1.1  | ●   |   | ● |   | 0034.4556    |
| 4                 | 125                 | 125                 | 1)                | 190                           | 120                           | 500                                | 1.9  | ●   |   | ● |   | 0034.4557    |
| 5                 | 125                 | 125                 | 1)                | 190                           | 120                           | 600                                | 3  | ●   |   | ● |   | 0034.4558    |

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1) 100 A @ 125 VAC/DC

| Packaging Unit | S = 4.3 mm<br>L = 18.8 mm<br>T = 18.8 mm | Plastic Bag (100 pcs.)<br>Bulk (100 pcs.)<br>Taped 36 cm Reel (1000 pcs.) |
|----------------|--|---|
|----------------|--|---|

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