

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

## Weblinks

[pdf data sheet](#), [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 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: MSF 125

| Approval Logo                                                                       | Certificates                 | Certification Body | Description            |
|-------------------------------------------------------------------------------------|------------------------------|--------------------|------------------------|
|  | <a href="#">UL Approvals</a> | 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 62368-1 | IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment. |

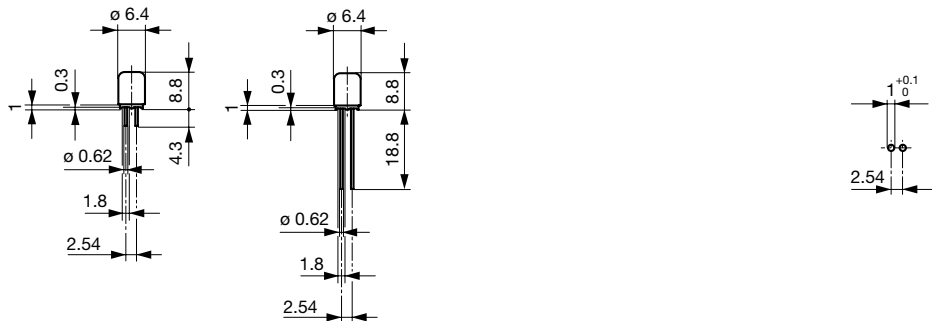
Compliances

The product complies with following Guide Lines

| Identification                                                                   | Details                                      | Initiator   | Description                                                                                                                                                                                           |
|----------------------------------------------------------------------------------|----------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">CE declaration of conformity</a> | 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. |
|  | <a href="#">RoHS</a>                         | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863                                                                                                                                                    |
|  | <a href="#">China RoHS</a>                   | 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.                                                                                  |
|  | <a href="#">REACH</a>                        | 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

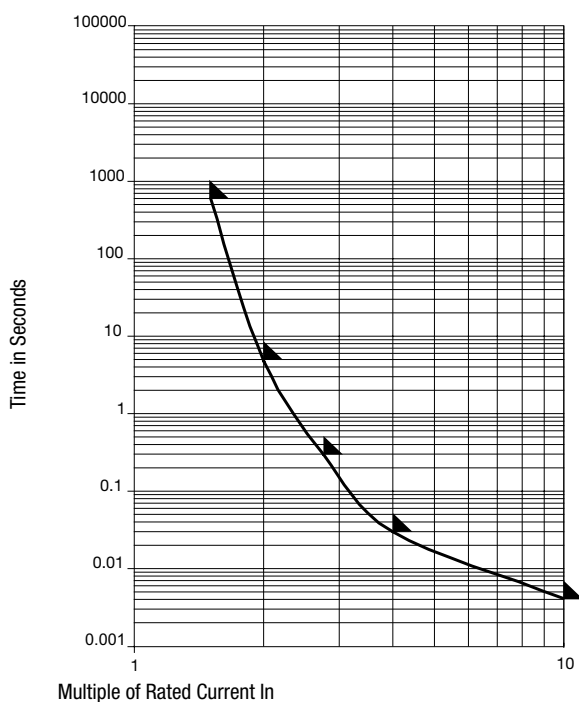


Drilling diagram

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 $I_n$ max. [mV] | Voltage Drop 1.0 $I_n$ typ. [mV] | Power Dissipation 1.0 $I_n$ max. [mW] | Melting $I^2t$ 10.0 $I_n$ 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 I <sub>n</sub> max. [mV] | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.0 I <sub>n</sub> max. [mW] | Melting I <sup>2</sup> t 10.0 I <sub>n</sub> 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  
L = 18.8 mm  
T = 18.8 mm

Plastic Bag (100 pcs.)  
Bulk (100 pcs.)  
Taped 36 cm Reel (1000 pcs.)