

Miniature Fuse, 5 x 20 mm, Quick-Acting F, L, 250 VAC



## IEC 60127-2 · 250 VAC · Quick-Acting F

See below:

### Approvals and Compliances

#### Description

- IEC Standard Fuse
- L = Low Breaking Capacity (Glass Tube)

#### Applications

- Primary Protection in Equipment

#### References

Pigtail Type [FSF 5x20 Pigtail](#)

Assembled Fuseholder

Fuse Kit [Fuse Kit FSF 5x20](#)

#### Weblinks

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

#### Technical Data

|                          |                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage            | 250 VAC                                                                                                                                                                  |
| Rated current            | 0.032 - 10 A                                                                                                                                                             |
| Breaking Capacity        | 35 A - 100 A                                                                                                                                                             |
| Characteristic           | Quick-Acting F                                                                                                                                                           |
| Admissible Ambient Temp. | -55 °C to 125 °C                                                                                                                                                         |
| Climatic Category        | 55/125/21 acc. to IEC 60068-1                                                                                                                                            |
| Material: Tube           | Glass                                                                                                                                                                    |
| Material: Endcaps        | Nickel-Plated Copper Alloy                                                                                                                                               |
| Unit Weight              | 0.92 g                                                                                                                                                                   |
| Storage Conditions       | 0 °C to 60 °C, max. 70% r.h.                                                                                                                                             |
| Product Marking          |  Rated current, Rated Voltage, Characteristic, Breaking Capacity, Certification marks |

#### 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: FSF 5x20

| Approval Logo                                                                       | Certificates                   | Certification Body | Description                                                     |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------|-----------------------------------------------------------------|
|  | <a href="#">VDE Approvals</a>  | VDE                | VDE Certificate Number: 40016088                                |
|  | <a href="#">UL Approvals</a>   | UL                 | UR File Number: E41599                                          |
|  | <a href="#">CCC Approvals</a>  | CCC                | CCC Certificate Number: 2020970207000119 & more                 |
|  | <a href="#">CQC Approvals</a>  | CQC                | CQC Certificate Number: CQC16012149989                          |
|  | <a href="#">METI Approvals</a> | METI               | Japan Electrical Safety and Environment technology Laboratories |

## Product standards

Product standards that are referenced

| Organization                                                                     | Design                | Standard           | Description                                     |
|----------------------------------------------------------------------------------|-----------------------|--------------------|-------------------------------------------------|
|  | Designed according to | IEC 60127-2/2      | Miniature fuses. Part 2. Cartridge 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 |

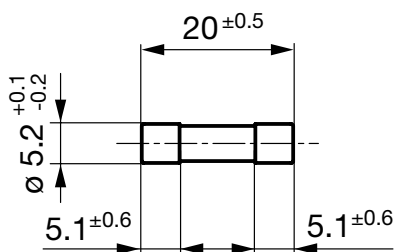
## Compliances

The product complies with following Guide Lines

| Identification                                                                     | Details                                        | Initiator   | Description                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <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="#">UKCA declaration of conformity</a> | 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]

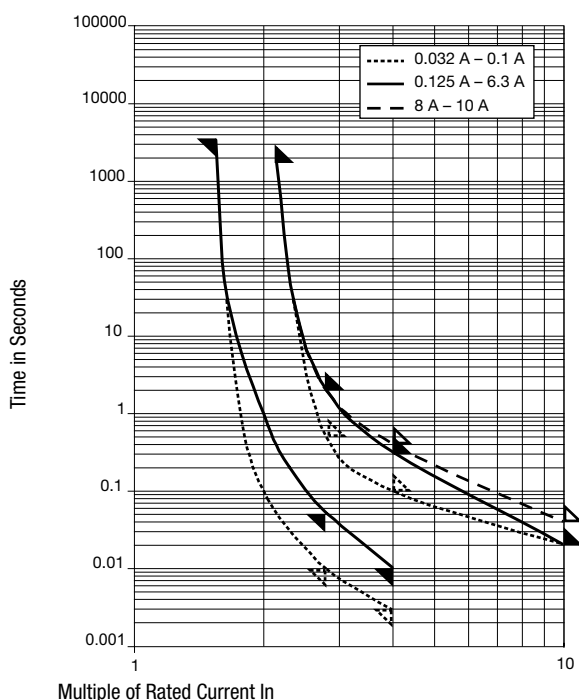
 20 mm



## Pre-Arcing Time

| Rated Current In | 1.5 x In min. | 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 max. |
|------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| 0.032 A - 0.1 A  | 60 min        | 30 min        | 10 ms          | 500 ms         | 3 ms          | 100 ms        | 20 ms          |
| 0.125 A - 6.3 A  | 60 min        | 30 min        | 50 ms          | 2 s            | 10 ms         | 300 ms        | 20 ms          |
| 8 A - 10 A       | 30 min        | 30 min        | 50 ms          | 2 s            | 10 ms         | 400 ms        | 40 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] | Power Dissipation 1.5 $I_n$ typ. [mW] | Melting $I^2t$ 10.0 $I_n$ typ. [A <sup>2</sup> s] |  |  |  |  |  |  | Order Number |
|-------------------|---------------------|-------------------|----------------------------------|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------|
| 0.032             | 250                 | 1)                | 10000                            | 1500                             | 1600                                  | 700                                   | 0.000082                                          | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1527    |
| 0.04              | 250                 | 1)                | 8000                             | 1100                             | 1600                                  | 700                                   | 0.000128                                          | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1528    |
| 0.05              | 250                 | 1)                | 7000                             | 3000                             | 1600                                  | 700                                   | 0.00025                                           | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1529    |
| 0.063             | 250                 | 1)                | 5000                             | 940                              | 1600                                  | 300                                   | 0.000278                                          | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1530    |
| 0.08              | 250                 | 1)                | 4000                             | 750                              | 1600                                  | 300                                   | 0.00102                                           | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1531    |
| 0.1               | 250                 | 1)                | 3500                             | 840                              | 1600                                  | 400                                   | 0.0014                                            | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1506    |
| 0.125             | 250                 | 1)                | 2000                             | 610                              | 1600                                  | 400                                   | 0.00484                                           | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1507    |
| 0.16              | 250                 | 1)                | 2000                             | 550                              | 1600                                  | 500                                   | 0.0113                                            | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1508    |
| 0.2               | 250                 | 1)                | 1700                             | 540                              | 1600                                  | 500                                   | 0.0252                                            | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1509    |
| 0.25              | 250                 | 1)                | 1400                             | 240                              | 1600                                  | 200                                   | 0.0159                                            | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1510    |
| 0.315             | 250                 | 1)                | 1300                             | 210                              | 1600                                  | 200                                   | 0.0367                                            | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1511    |
| 0.4               | 250                 | 1)                | 1200                             | 200                              | 1600                                  | 200                                   | 0.085                                             | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1512    |
| 0.5               | 250                 | 1)                | 1000                             | 150                              | 1600                                  | 200                                   | 0.151                                             | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1513    |
| 0.63              | 250                 | 1)                | 650                              | 140                              | 1600                                  | 300                                   | 0.303                                             | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1514    |
| 0.8               | 250                 | 1)                | 240                              | 110                              | 1600                                  | 300                                   | 0.508                                             | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     |                                                                                       | 0034.1515    |
| 1                 | 250                 | 1)                | 200                              | 110                              | 1600                                  | 300                                   | 1.13                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1516    |
| 1.25              | 250                 | 1)                | 200                              | 100                              | 1600                                  | 400                                   | 1.81                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1517    |
| 1.6               | 250                 | 1)                | 190                              | 100                              | 1600                                  | 500                                   | 2.94                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1518    |
| 2                 | 250                 | 1)                | 170                              | 90                               | 1600                                  | 600                                   | 5.28                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1519    |
| 2.5               | 250                 | 1)                | 170                              | 90                               | 1600                                  | 800                                   | 9.19                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1520    |
| 3.15              | 250                 | 1)                | 150                              | 90                               | 2500                                  | 600                                   | 16.1                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1521    |
| 4                 | 250                 | 2)                | 130                              | 90                               | 2500                                  | 1000                                  | 25.6                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1522    |
| 5                 | 250                 | 2)                | 130                              | 80                               | 2500                                  | 1300                                  | 33.8                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1523    |
| 6.3               | 250                 | 2)                | 130                              | 80                               | 2500                                  | 2000                                  | 53.2                                              | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0034.1524    |
| 8                 | 250                 | 2)                | 130                              | 80                               | 4000                                  | 2300                                  | 93.4                                              | •                                                                                     | •                                                                                     | •                                                                                     |                                                                                       | •                                                                                     | •                                                                                     | 0034.1525    |
| 10                | 250                 | 2)                | 130                              | 70                               | 4000                                  | 2500                                  | 183                                               | •                                                                                     | •                                                                                     | •                                                                                     |                                                                                       | •                                                                                     | •                                                                                     | 0034.1526    |

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| Rated Cur-<br>rent [A] | Rated Vol-<br>tage [VAC] | Breaking<br>Capacity | Voltage Drop<br>1.0 I <sub>n</sub> max.<br>[mV] | Voltage Drop<br>1.0 I <sub>n</sub> typ.<br>[mV] | Power Dissi-<br>pation 1.5 I <sub>n</sub><br>max. [mW] | Power Dissi-<br>pation 1.5 I <sub>n</sub><br>typ. [mW] | Melting I²t<br>10.0 I <sub>n</sub> typ.<br>[A²s] |      | Order Number |
|------------------------|--------------------------|----------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|------------------------|--------------------------|----------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|

- 1) 35 A @ 250 VAC  
2) 10 In @ 250 VAC

|                |             |                                   |
|----------------|-------------|-----------------------------------|
| Packaging Unit | xxxx.xxxx   | Small Box Pack (10 pcs.)          |
|                | xxxx.xxxx.G | Bulk 128 x 91 x 60 mm (1000 pcs.) |

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|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <a href="#"><u>0034.1524</u></a> | <a href="#"><u>0034.1523</u></a> | <a href="#"><u>0034.1507</u></a> | <a href="#"><u>0034.1508</u></a> | <a href="#"><u>0034.1519</u></a> | <a href="#"><u>0034.1522</u></a> | <a href="#"><u>0034.1510</u></a> | <a href="#"><u>0034.1531</u></a> | <a href="#"><u>0034.1527</u></a> | <a href="#"><u>0034.1530</u></a> |
| <a href="#"><u>0034.1529</u></a> | <a href="#"><u>0034.1517</u></a> | <a href="#"><u>0034.1528</u></a> | <a href="#"><u>0034.1525</u></a> | <a href="#"><u>0034.1518</u></a> | <a href="#"><u>0034.1512</u></a> | <a href="#"><u>0034.1509</u></a> | <a href="#"><u>0034.1515</u></a> | <a href="#"><u>0034.1513</u></a> | <a href="#"><u>0034.1520</u></a> |
| <a href="#"><u>0034.1506</u></a> | <a href="#"><u>0034.1514</u></a> | <a href="#"><u>0034.1526</u></a> | <a href="#"><u>0034.1516</u></a> | <a href="#"><u>0034.1511</u></a> | <a href="#"><u>0034.1521</u></a> |                                  |                                  |                                  |                                  |