

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



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

See below:

[Approvals and Compliances](#)

### Description

- IEC Standard Fuse
- H = High Breaking Capacity (Ceramic Tube)

### Applications

- Primary Protection in Equipment

### References

Pigtail Type [SP 5x20 Pigtail](#)  
Fuse Kit [Fuse Kit FST 5x20 / SP 5x20](#); [Fuse Kit SP 5x20 / SPT 5x20](#)

### Weblinks

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

### Technical Data

|                              |                                                                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 250 VAC                                                                                                                                                          |
| Rated current                | 0.5 - 16 A                                                                                                                                                       |
| Breaking Capacity            | 500 A - 1500 A                                                                                                                                                   |
| Characteristic               | Quick-Acting F                                                                                                                                                   |
| Admissible Ambient Air Temp. | -55 °C to 125 °C                                                                                                                                                 |
| Climatic Category            | 55/125/21 acc. to IEC 60068-1                                                                                                                                    |
| Material: Tube               | Ceramic                                                                                                                                                          |
| Material: Endcaps            | Nickel-Plated Copper Alloy                                                                                                                                       |
| Unit Weight                  | 1.18 g                                                                                                                                                           |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.                                                                                                                                     |
| Product Marking              |  , Rated current, Rated Voltage, Characteristic, Breaking Capacity, Approvals |

### Approvals and Compliances

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

### Approvals

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

Approval Reference Type: SP 5x20

| Approval Logo                                                                       | Certificates                   | Certification Body | Description                                                                           |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------|---------------------------------------------------------------------------------------|
|  | <a href="#">VDE Approvals</a>  | VDE                | VDE Certificate Number: 40009397                                                      |
|  | <a href="#">UL Approvals</a>   | UL                 | UL File Number: E41599                                                                |
|  | <a href="#">CQC Approvals</a>  | CQC                | CCC Certificate Number:                                                               |
|  | <a href="#">KTL Approvals</a>  | KTL                | Korea Testing Laboratory                                                              |
|  | <a href="#">METI Approvals</a> | METI               | Japan Electrical Safety and Environment technology Laboratories<br>JET5265-31003-2006 |

## 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. |

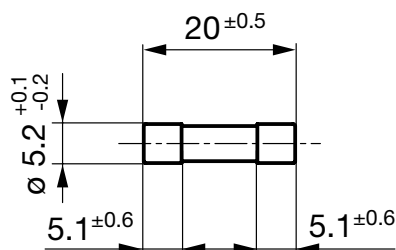
## Compliances

The product complies with following Guide Lines

| Identification                                                                   | Details                                      | Initiator   | Description                                                                                                                                                                                           |
|----------------------------------------------------------------------------------|----------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <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 | EU Directive RoHS 2011/65/EU                                                                                                                                                                          |
|  | <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]

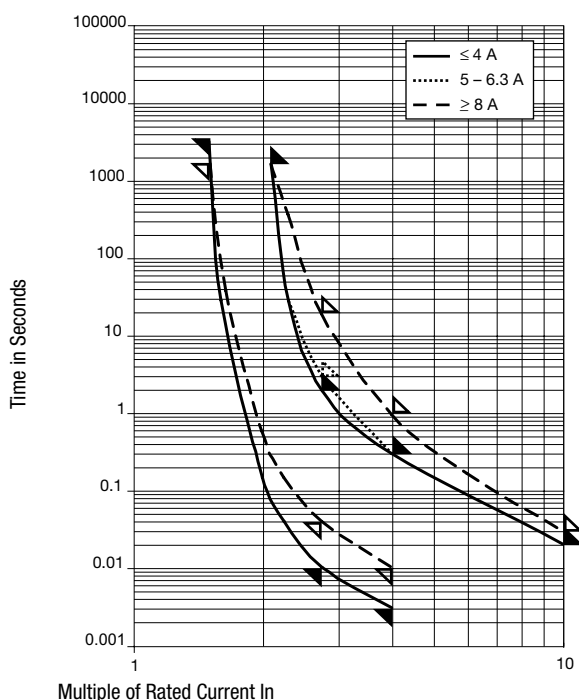
 20 mm



## Pre-Arcing Time

| Rated Current I <sub>n</sub> | 1.5 x I <sub>n</sub> min. | 2.1 x I <sub>n</sub> max. | 2.75 x I <sub>n</sub> min. | 2.75 x I <sub>n</sub> max. | 4.0 x I <sub>n</sub> min. | 4.0 x I <sub>n</sub> max. | 10.0 x I <sub>n</sub> max. |
|------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| 0.5 A - 4 A                  | 60 min                    | 30 min                    | 10 ms                      | 2 s                        | 3 ms                      | 300 ms                    | 20 ms                      |
| 5 A - 6.3 A                  | 60 min                    | 30 min                    | 10 ms                      | 3 s                        | 3 ms                      | 300 ms                    | 20 ms                      |
| 8 A - 10 A                   | 30 min                    | 30 min                    | 40 ms                      | 20 s                       | 10 ms                     | 1 s                       | 30 ms                      |
| 12.5 A - 16 A                | 15 min                    | 30 min                    | 40 ms                      | 20 s                       | 10 ms                     | 1 s                       | 30 ms                      |

## Time-Current-Curves



## All Variants

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> max. [mV] | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Power Dissipation 1.5 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  |  |  |  |  |  | Order Number |
|-------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------|
| 0.5               | 250                 | 1)                | 1800                                      | 830                                       | 2500                                           | 2400                                           | 0.098                                                   | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     | •                                                                                     | 0001.1001    |
| 0.63              | 250                 | 1)                | 1500                                      | 800                                       | 2500                                           | 2400                                           | 0.207                                                   | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     | •                                                                                     | 0001.1002    |
| 0.8               | 250                 | 1)                | 1200                                      | 580                                       | 2500                                           | 2400                                           | 0.469                                                   | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     | •                                                                                     | 0001.1003    |
| 1                 | 250                 | 1)                | 1000                                      | 600                                       | 2500                                           | 2500                                           | 0.75                                                    | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1004    |
| 1.25              | 250                 | 1)                | 800                                       | 270                                       | 4000                                           | 1000                                           | 0.538                                                   | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1005    |
| 1.6               | 250                 | 1)                | 600                                       | 350                                       | 4000                                           | 1600                                           | 0.755                                                   | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1006    |
| 2                 | 250                 | 1)                | 500                                       | 260                                       | 4000                                           | 1600                                           | 2                                                       | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1007    |
| 2.5               | 250                 | 1)                | 400                                       | 260                                       | 4000                                           | 1900                                           | 3.28                                                    | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1008    |
| 3.15              | 250                 | 1)                | 350                                       | 210                                       | 4000                                           | 1900                                           | 6.78                                                    | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1009    |
| 4                 | 250                 | 1)                | 300                                       | 200                                       | 4000                                           | 2400                                           | 12.6                                                    | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1010    |
| 5                 | 250                 | 1)                | 250                                       | 160                                       | 4000                                           | 2400                                           | 30.8                                                    | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1011    |
| 6.3               | 250                 | 1)                | 200                                       | 150                                       | 4000                                           | 3200                                           | 36.7                                                    | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | •                                                                                     | 0001.1012    |
| 8                 | 250                 | 1)                | 200                                       | 140                                       | 4000                                           | 3900                                           | 81.9                                                    | •                                                                                     | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     | 0001.1013    |
| 10                | 250                 | 1)                | 200                                       | 130                                       | 4000                                           | 3000                                           | 141                                                     | •                                                                                     | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       | •                                                                                     | 0001.1014    |
| 12.5              | 250                 | 2)                | -                                         | 110                                       | -                                              | 6900                                           | 203                                                     |                                                                                       | •                                                                                     | •                                                                                     |                                                                                       |                                                                                       |                                                                                       | 0001.1015    |
| 16                | 250                 | 2)                | -                                         | 120                                       | -                                              | 7400                                           | 461                                                     |                                                                                       | •                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 0001.1016    |

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1) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

2) IEC: 1000 A @ 250 VAC

2) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC

|                       |             |                                   |
|-----------------------|-------------|-----------------------------------|
| <b>Packaging Unit</b> | 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>0001.1012</u></a> | <a href="#"><u>0001.1008</u></a> | <a href="#"><u>0001.1016</u></a> | <a href="#"><u>0001.1015</u></a> | <a href="#"><u>0001.1014</u></a> | <a href="#"><u>0001.1011</u></a> | <a href="#"><u>0001.1005</u></a> | <a href="#"><u>0001.1010</u></a> | <a href="#"><u>0001.1009</u></a> | <a href="#"><u>0001.1001</u></a> |
| <a href="#"><u>0001.1007</u></a> | <a href="#"><u>0001.1013</u></a> | <a href="#"><u>0001.1003</u></a> | <a href="#"><u>0001.1006</u></a> | <a href="#"><u>0001.1002</u></a> | <a href="#"><u>0001.1004</u></a> |                                  |                                  |                                  |                                  |