

Miniature Fuse, 5 x 20 mm, Time-Lag T, H, 250 VAC, UL: 115 V - 300 VDC



IEC 60127-2 · 250 VAC · 300 VDC · Time-Lag T

See below:

[Approvals and Compliances](#)

### Description

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

### Applications

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

### References

Pigtail Type [SPT 5x20 Pigtail](#)  
Assembled Fuseholder  
Fuse Kit [Fuse Kit SP 5x20 / SPT 5x20](#)

### Weblinks

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

### Technical Data

|                              |                                                                                                                                                                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 250 VAC, 300 VDC                                                                                                                                                         |
| Rated current                | 0.5 - 16 A                                                                                                                                                               |
| Breaking Capacity            | 500 A - 1500 A                                                                                                                                                           |
| Characteristic               | Time-Lag T                                                                                                                                                               |
| Admissible Ambient Air Temp. | -55 °C to 125 °C                                                                                                                                                         |
| Climatic Category            | 55/125/21 acc. to IEC 60068-1                                                                                                                                            |
| Material: Tube               | Ceramics                                                                                                                                                                 |
| Material: Endcaps            | Nickel-Plated Copper Alloy                                                                                                                                               |
| Unit Weight                  | 1.16 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: SPT 5x20

| Approval Logo                                                                    | Certificates                   | Certification Body | Description                                                     |
|----------------------------------------------------------------------------------|--------------------------------|--------------------|-----------------------------------------------------------------|
|  | <a href="#">VDE Approvals</a>  | VDE                | VDE Certificate Number: 40035651                                |
|  | <a href="#">VDE Approvals</a>  | VDE                | VDE Certificate Number: 40014395                                |
|  | <a href="#">UL Approvals</a>   | UL                 | UL File Number: E41599                                          |
|  | <a href="#">CCC Approvals</a>  | CCC                | CCC Certificate Number: 2020970207000311                        |
|  | <a href="#">KTL Approvals</a>  | KTL                | Korea Testing Laboratory                                        |
|  | <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 60127-2/5      | Miniature fuses. Part 2. Cartridge fuse links   |
|  | 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 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

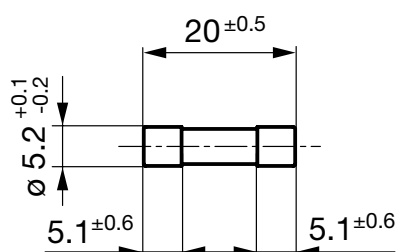
## Compliances

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.                                                  |
|  | <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]

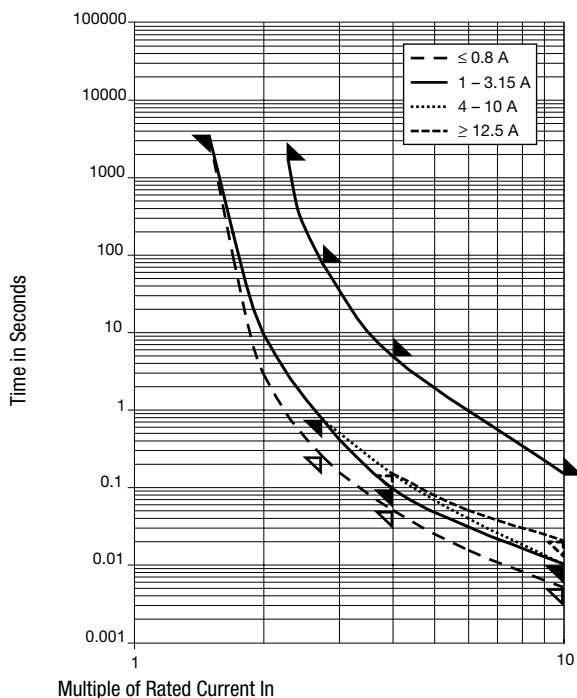
 20 mm



## Pre-Arcing Time

| Rated Current $I_n$ | 1.5 x $I_n$ min. | 2.1 x $I_n$ max. | 2.75 x $I_n$ min. | 2.75 x $I_n$ max. | 4.0 x $I_n$ min. | 4.0 x $I_n$ max. | 10.0 x $I_n$ min. | 10.0 x $I_n$ max. |
|---------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|
| 0.5 A - 0.8 A       | 60 min           | 30 min           | 250 ms            | 80 s              | 50 ms            | 5 s              | 5 ms              | 150 ms            |
| 1 A - 3.15 A        | 60 min           | 30 min           | 750 ms            | 80 s              | 95 ms            | 5 s              | 10 ms             | 150 ms            |
| 4 A - 6.3 A         | 60 min           | 30 min           | 750 ms            | 80 s              | 150 ms           | 5 s              | 10 ms             | 150 ms            |
| 8 A - 10 A          | 30 min           | 30 min           | 750 ms            | 80 s              | 150 ms           | 5 s              | 10 ms             | 150 ms            |
| 12.5 A - 16 A       | 30 min           | 30 min           | 750 ms            | 80 s              | 150 ms           | 5 s              | 20 ms             | 150 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 1.5 $I_n$ max. | Power Dissipation 1.5 $I_n$ typ. [mW] | Melting $I^2t$ 10.0 $I_n$ typ. [A²s] |   |   |   |   |   |   |   | Order Number |
|-------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------------|--------------------------------------|---|---|---|---|---|---|---|--------------|
| 0.5               | 250                 | 300                 | 1)                | 850                              | 360                              | 1600                             | 500                                   | 0.5                                  | ● | ● |   |   |   |   |   | 0001.2501    |
| 0.63              | 250                 | 300                 | 1)                | 650                              | 330                              | 1600                             | 500                                   | 1.55                                 | ● | ● |   |   |   |   |   | 0001.2502    |
| 0.8               | 250                 | 300                 | 1)                | 500                              | 260                              | 1600                             | 500                                   | 2.3                                  | ● | ● |   |   |   |   |   | 0001.2503    |
| 1                 | 250                 | 300                 | 1)                | 350                              | 180                              | 2500                             | 500                                   | 1.1                                  | ● | ● | ● | ● | ● | ● | ● | 0001.2504    |
| 1.25              | 250                 | 300                 | 1)                | 300                              | 150                              | 2500                             | 500                                   | 1.86                                 | ● | ● | ● | ● | ● | ● | ● | 0001.2505    |
| 1.6               | 250                 | 300                 | 1)                | 200                              | 130                              | 2500                             | 500                                   | 4.35                                 | ● | ● | ● | ● | ● | ● | ● | 0001.2506    |
| 2                 | 250                 | 300                 | 1)                | 190                              | 120                              | 2500                             | 600                                   | 9.2                                  | ● | ● | ● | ● | ● | ● | ● | 0001.2507    |
| 2.5               | 250                 | 300                 | 1)                | 180                              | 100                              | 2500                             | 600                                   | 11.7                                 | ● | ● | ● | ● | ● | ● | ● | 0001.2508    |
| 3.15              | 250                 | 300                 | 1)                | 140                              | 100                              | 4000                             | 800                                   | 22                                   | ● | ● | ● | ● | ● | ● | ● | 0001.2509    |
| 4                 | 250                 | 150                 | 2)                | 100                              | 90                               | 4000                             | 900                                   | 62.4                                 | ● | ● | ● | ● | ● | ● | ● | 0001.2510    |
| 5                 | 250                 | 150                 | 2)                | 100                              | 90                               | 4000                             | 1200                                  | 97.5                                 | ● | ● | ● | ● | ● | ● | ● | 0001.2511    |
| 6.3               | 250                 | 150                 | 2)                | 100                              | 70                               | 4000                             | 1200                                  | 171                                  | ● | ● | ● | ● | ● | ● | ● | 0001.2512    |
| 8                 | 250                 | 150                 | 3)                | 100                              | 70                               | 4000                             | 1300                                  | 268                                  |   | ● | ● | ● | ● | ● | ● | 0001.2513    |
| 10                | 250                 | 150                 | 3)                | 100                              | 70                               | 4000                             | 2100                                  | 400                                  |   | ● | ● | ● | ● | ● | ● | 0001.2514    |
| 12.5              | 250                 | 125                 | 4)                | 100                              | 70                               | 4000                             | 2500                                  | 563                                  |   | ● | ● | ● |   |   |   | 0001.2515    |
| 16                | 250                 | 125                 | 4)                | 100                              | 70                               | 4000                             | 3000                                  | 1500                                 |   | ● | ● |   |   |   |   | 0001.2516    |

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| 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 1.5 I <sub>n</sub> max. | Power Dissipation 1.5 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 I <sub>n</sub> typ. [A <sup>2</sup> s] |  |  |  |  |  |  |  | Order Number |
|--------------------------------------------------------------------------------------------|---------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 1) IEC: H = 1500 A @ 250 VAC, p.f. = 1.0                                                   |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| 1) UL: 10 kA @ 125 VAC, p.f. = 1.0 / 1500 A @ 250 VAC, p.f. = 1.0 / 1500 A @ 300 VDC       |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| 2) IEC: H = 1500 A @ 250 VAC, p.f. = 1.0                                                   |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| 2) UL: 10 kA @ 125 VAC, p.f. = 1.0 / 1500 A @ 250 VAC, p.f. = 1.0 / 1500 A @ 150 VDC       |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| 3) IEC: 1000 A @ 250 VAC                                                                   |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| 3) UL: 1000 A @ 250 VAC, 1500 A @ 150 VDC                                                  |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| 4) IEC: 500 A @ 250 VAC                                                                    |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| 4) UL: 500 A @ 125 VAC, p.f. = 1.0 / 1000 A @ 125 VDC / 500 A @ 250 VAC / 1500 A @ 125 VDC |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| <hr/>                                                                                      |                     |                     |                   |                                           |                                           |                                           |                                                |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
| Packaging Unit                                                                             |                     |                     |                   | xxxx.xxxx                                 |                                           |                                           | Small Box Pack (10 pcs.)                       |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |
|                                                                                            |                     |                     |                   | xxxx.xxxx.G                               |                                           |                                           | Bulk 128 x 91 x 60 mm (1000 pcs.)              |                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |              |