

Subminiature Fuse, 2.3 x 8 mm, Quick-Acting F, 125 VAC, 125 VDC



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

See below:

[Approvals and Compliances](#)

## Description

- High breaking capacity

## References

[Packaging Details](#)

## Weblinks

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

## Technical Data

|                              |                               |
|------------------------------|-------------------------------|
| Rated Voltage                | 32 - 125 VAC, 32 - 125 VDC    |
| Rated current                | 0.063 - 15 A                  |
| Breaking Capacity            | 50 A - 300 A                  |
| Characteristic               | Quick-Acting F                |
| Admissible Ambient Air Temp. | -55 °C to 85 °C               |
| Climatic Category            | 55/085/56 acc. to IEC 60068-1 |
| Material: Tube               | Ceramics                      |
| Material: Axial Leads        | Tin-Plated Copper             |
| Unit Weight                  | 0.46 g                        |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.  |
| Product Marking              | Rated current                 |

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| Soldering Methods            | Wave<br><a href="#">Soldering Profile</a>                 |
| Solderability                | 235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1  |
| Resistance to Soldering Heat | 260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A |

## 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: 172322

| Approval Logo                                                                       | Certificates                  | Certification Body | Description                     |
|-------------------------------------------------------------------------------------|-------------------------------|--------------------|---------------------------------|
|  | <a href="#">UL Approvals</a>  | UL                 | UL File Number: E42088          |
|  | <a href="#">CSA Approvals</a> | CSA                | CSA Certification Record: 34549 |
| GAM<br>T1                                                                           |                               |                    |                                 |

## 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

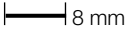
Application standards where the product can be used

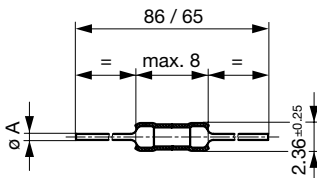
| Organization                                                                     | Design                         | Standard       | Description                                                                                                          |
|----------------------------------------------------------------------------------|--------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------|
|  | 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. |
|  | 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] 

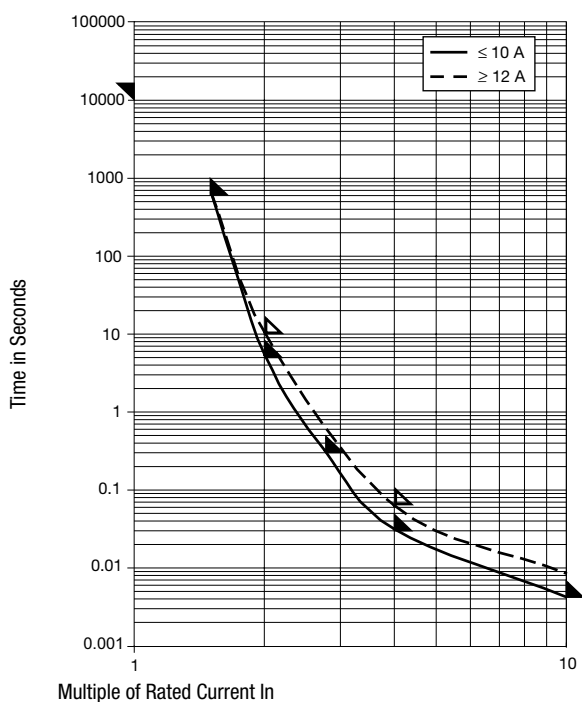


In ≤ 10 A: ØA = 0.62 mm  
In > 10 A: ØA = 0.82 mm

Pre-Arcing Time

| Rated Current In | 1.0 x In min. | 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. |
|------------------|---------------|---------------|---------------|----------------|---------------|----------------|
| 0.063 A - 10 A   | 4 h           | 10 min        | 5 s           | 300 ms         | 30 ms         | 4 ms           |
| 12 A - 15 A      | 4 h           | 10 min        | 10 s          | -              | 60 ms         | -              |

## Time-Current-Curves



## All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.0 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 I <sub>n</sub> typ. [A <sup>2</sup> s] |  | GAM T1 | Order Number                 |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|------------------------------|
| 0.063             | 125                 | 125                 | 1)                | 1050                                      | 66                                             | 0.0008                                                               | ●                                                                                    | ●      | <a href="#">7010.7010.13</a> |
| 0.063             | 125                 | 125                 | 1)                | 1050                                      | 66                                             | 0.0008                                                               | ●                                                                                    | ●      | <a href="#">7010.7010.37</a> |
| 0.063             | 125                 | 125                 | 1)                | 1050                                      | 66                                             | 0.0008                                                               | ●                                                                                    | ●      | <a href="#">7010.7010.39</a> |
| 0.063             | 125                 | 125                 | 1)                | 1050                                      | 66                                             | 0.0008                                                               | ●                                                                                    | ●      | <a href="#">7010.7010.47</a> |
| 0.063             | 125                 | 125                 | 1)                | 1050                                      | 66                                             | 0.0008                                                               | ●                                                                                    | ●      | <a href="#">7010.7010.49</a> |
| 0.125             | 125                 | 125                 | 1)                | 900                                       | 115                                            | 0.0036                                                               | ●                                                                                    | ●      | <a href="#">7010.7020.13</a> |
| 0.125             | 125                 | 125                 | 1)                | 900                                       | 115                                            | 0.0036                                                               | ●                                                                                    | ●      | <a href="#">7010.7020.37</a> |
| 0.125             | 125                 | 125                 | 1)                | 900                                       | 115                                            | 0.0036                                                               | ●                                                                                    | ●      | <a href="#">7010.7020.39</a> |
| 0.125             | 125                 | 125                 | 1)                | 900                                       | 115                                            | 0.0036                                                               | ●                                                                                    | ●      | <a href="#">7010.7020.47</a> |
| 0.125             | 125                 | 125                 | 1)                | 900                                       | 115                                            | 0.0036                                                               | ●                                                                                    | ●      | <a href="#">7010.7020.49</a> |
| 0.25              | 125                 | -                   | 2)                | 325                                       | 82                                             | 0.0094                                                               | ●                                                                                    | ●      | <a href="#">7010.7030.13</a> |
| 0.25              | 125                 | -                   | 2)                | 325                                       | 82                                             | 0.0094                                                               | ●                                                                                    | ●      | <a href="#">7010.7030.37</a> |
| 0.25              | 125                 | -                   | 2)                | 325                                       | 82                                             | 0.0094                                                               | ●                                                                                    | ●      | <a href="#">7010.7030.39</a> |
| 0.25              | 125                 | -                   | 2)                | 325                                       | 82                                             | 0.0094                                                               | ●                                                                                    | ●      | <a href="#">7010.7030.47</a> |
| 0.25              | 125                 | -                   | 2)                | 325                                       | 82                                             | 0.0094                                                               | ●                                                                                    | ●      | <a href="#">7010.7030.49</a> |
| 0.375             | 125                 | -                   | 2)                | 245                                       | 92                                             | 0.019                                                                | ●                                                                                    | ●      | <a href="#">7010.7040.13</a> |
| 0.375             | 125                 | -                   | 2)                | 245                                       | 92                                             | 0.019                                                                | ●                                                                                    | ●      | <a href="#">7010.7040.37</a> |
| 0.375             | 125                 | -                   | 2)                | 245                                       | 92                                             | 0.019                                                                | ●                                                                                    | ●      | <a href="#">7010.7040.39</a> |
| 0.375             | 125                 | -                   | 2)                | 245                                       | 92                                             | 0.019                                                                | ●                                                                                    | ●      | <a href="#">7010.7040.47</a> |
| 0.375             | 125                 | -                   | 2)                | 245                                       | 92                                             | 0.019                                                                | ●                                                                                    | ●      | <a href="#">7010.7040.49</a> |
| 0.5               | 125                 | -                   | 2)                | 260                                       | 130                                            | 0.07                                                                 | ●                                                                                    | ●      | <a href="#">7010.7050.13</a> |
| 0.5               | 125                 | -                   | 2)                | 260                                       | 130                                            | 0.07                                                                 | ●                                                                                    | ●      | <a href="#">7010.7050.37</a> |
| 0.5               | 125                 | -                   | 2)                | 260                                       | 130                                            | 0.07                                                                 | ●                                                                                    | ●      | <a href="#">7010.7050.39</a> |
| 0.5               | 125                 | -                   | 2)                | 260                                       | 130                                            | 0.07                                                                 | ●                                                                                    | ●      | <a href="#">7010.7050.47</a> |
| 0.5               | 125                 | -                   | 2)                | 260                                       | 130                                            | 0.07                                                                 | ●                                                                                    | ●      | <a href="#">7010.7050.49</a> |
| 0.75              | 125                 | -                   | 2)                | 245                                       | 185                                            | 0.18                                                                 | ●                                                                                    | ●      | <a href="#">7010.7060.13</a> |
| 0.75              | 125                 | -                   | 2)                | 245                                       | 185                                            | 0.18                                                                 | ●                                                                                    | ●      | <a href="#">7010.7060.37</a> |
| 0.75              | 125                 | -                   | 2)                | 245                                       | 185                                            | 0.18                                                                 | ●                                                                                    | ●      | <a href="#">7010.7060.39</a> |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.0 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 I <sub>n</sub> typ. [A <sup>2</sup> s] |  GAM T1 |   |   | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------|---|---|--------------|
| 0.75              | 125                 | -                   | 2)                | 245                                       | 185                                            | 0.18                                                                 | ●                                                                                        | ● | ● | 7010.7060.47 |
| 0.75              | 125                 | -                   | 2)                | 245                                       | 185                                            | 0.18                                                                 | ●                                                                                        | ● | ● | 7010.7060.49 |
| 1                 | 125                 | -                   | 2)                | 210                                       | 210                                            | 0.3                                                                  | ●                                                                                        | ● | ● | 7010.7070.13 |
| 1                 | 125                 | -                   | 2)                | 210                                       | 210                                            | 0.3                                                                  | ●                                                                                        | ● | ● | 7010.7070.37 |
| 1                 | 125                 | -                   | 2)                | 210                                       | 210                                            | 0.3                                                                  | ●                                                                                        | ● | ● | 7010.7070.39 |
| 1                 | 125                 | -                   | 2)                | 210                                       | 210                                            | 0.3                                                                  | ●                                                                                        | ● | ● | 7010.7070.47 |
| 1                 | 125                 | -                   | 2)                | 210                                       | 210                                            | 0.3                                                                  | ●                                                                                        | ● | ● | 7010.7070.49 |
| 1.5               | 125                 | -                   | 2)                | 230                                       | 345                                            | 0.38                                                                 | ●                                                                                        | ● | ● | 7010.7080.13 |
| 1.5               | 125                 | -                   | 2)                | 230                                       | 345                                            | 0.38                                                                 | ●                                                                                        | ● | ● | 7010.7080.37 |
| 1.5               | 125                 | -                   | 2)                | 230                                       | 345                                            | 0.38                                                                 | ●                                                                                        | ● | ● | 7010.7080.39 |
| 1.5               | 125                 | -                   | 2)                | 230                                       | 345                                            | 0.38                                                                 | ●                                                                                        | ● | ● | 7010.7080.47 |
| 1.5               | 125                 | -                   | 2)                | 230                                       | 345                                            | 0.38                                                                 | ●                                                                                        | ● | ● | 7010.7080.49 |
| 2                 | 125                 | -                   | 2)                | 190                                       | 380                                            | 1.1                                                                  | ●                                                                                        | ● | ● | 7010.7090.13 |
| 2                 | 125                 | -                   | 2)                | 190                                       | 380                                            | 1.1                                                                  | ●                                                                                        | ● | ● | 7010.7090.37 |
| 2                 | 125                 | -                   | 2)                | 190                                       | 380                                            | 1.1                                                                  | ●                                                                                        | ● | ● | 7010.7090.39 |
| 2                 | 125                 | -                   | 2)                | 190                                       | 380                                            | 1.1                                                                  | ●                                                                                        | ● | ● | 7010.7090.47 |
| 2                 | 125                 | -                   | 2)                | 190                                       | 380                                            | 1.1                                                                  | ●                                                                                        | ● | ● | 7010.7090.49 |
| 2.5               | 125                 | -                   | 2)                | 175                                       | 440                                            | 1.4                                                                  | ●                                                                                        | ● | ● | 7010.7100.13 |
| 2.5               | 125                 | -                   | 2)                | 175                                       | 440                                            | 1.4                                                                  | ●                                                                                        | ● | ● | 7010.7100.39 |
| 2.5               | 125                 | -                   | 2)                | 175                                       | 440                                            | 1.4                                                                  | ●                                                                                        | ● | ● | 7010.7100.47 |
| 2.5               | 125                 | -                   | 2)                | 175                                       | 440                                            | 1.4                                                                  | ●                                                                                        | ● | ● | 7010.7100.49 |
| 3                 | 125                 | -                   | 2)                | 170                                       | 510                                            | 2                                                                    | ●                                                                                        | ● | ● | 7010.7110.13 |
| 3                 | 125                 | -                   | 2)                | 170                                       | 510                                            | 2                                                                    | ●                                                                                        | ● | ● | 7010.7110.39 |
| 3                 | 125                 | -                   | 2)                | 170                                       | 510                                            | 2                                                                    | ●                                                                                        | ● | ● | 7010.7110.47 |
| 3                 | 125                 | -                   | 2)                | 170                                       | 510                                            | 2                                                                    | ●                                                                                        | ● | ● | 7010.7110.49 |
| 3.5               | 125                 | -                   | 2)                | 160                                       | 560                                            | 2.6                                                                  | ●                                                                                        | ● | ● | 7010.7180.13 |
| 3.5               | 125                 | -                   | 2)                | 160                                       | 560                                            | 2.6                                                                  | ●                                                                                        | ● | ● | 7010.7180.37 |
| 3.5               | 125                 | -                   | 2)                | 160                                       | 560                                            | 2.6                                                                  | ●                                                                                        | ● | ● | 7010.7180.39 |
| 3.5               | 125                 | -                   | 2)                | 160                                       | 560                                            | 2.6                                                                  | ●                                                                                        | ● | ● | 7010.7180.47 |
| 3.5               | 125                 | -                   | 2)                | 160                                       | 560                                            | 2.6                                                                  | ●                                                                                        | ● | ● | 7010.7180.49 |
| 4                 | 125                 | -                   | 2)                | 180                                       | 720                                            | 4                                                                    | ●                                                                                        | ● | ● | 7010.7120.13 |
| 4                 | 125                 | -                   | 2)                | 180                                       | 720                                            | 4                                                                    | ●                                                                                        | ● | ● | 7010.7120.37 |
| 4                 | 125                 | -                   | 2)                | 180                                       | 720                                            | 4                                                                    | ●                                                                                        | ● | ● | 7010.7120.39 |
| 4                 | 125                 | -                   | 2)                | 180                                       | 720                                            | 4                                                                    | ●                                                                                        | ● | ● | 7010.7120.47 |
| 4                 | 125                 | -                   | 2)                | 180                                       | 720                                            | 4                                                                    | ●                                                                                        | ● | ● | 7010.7120.49 |
| 5                 | 125                 | 125                 | 1)                | 170                                       | 850                                            | 6.2                                                                  | ●                                                                                        | ● | ● | 7010.7130.13 |
| 5                 | 125                 | 125                 | 1)                | 170                                       | 850                                            | 6.2                                                                  | ●                                                                                        | ● | ● | 7010.7130.37 |
| 5                 | 125                 | 125                 | 1)                | 170                                       | 850                                            | 6.2                                                                  | ●                                                                                        | ● | ● | 7010.7130.39 |
| 5                 | 125                 | 125                 | 1)                | 170                                       | 850                                            | 6.2                                                                  | ●                                                                                        | ● | ● | 7010.7130.47 |
| 5                 | 125                 | 125                 | 1)                | 170                                       | 850                                            | 6.2                                                                  | ●                                                                                        | ● | ● | 7010.7130.49 |
| 7                 | 125                 | 125                 | 1)                | 135                                       | 945                                            | 13                                                                   | ●                                                                                        | ● | ● | 7010.7140.13 |
| 7                 | 125                 | 125                 | 1)                | 135                                       | 945                                            | 13                                                                   | ●                                                                                        | ● | ● | 7010.7140.37 |
| 7                 | 125                 | 125                 | 1)                | 135                                       | 945                                            | 13                                                                   | ●                                                                                        | ● | ● | 7010.7140.39 |
| 7                 | 125                 | 125                 | 1)                | 135                                       | 945                                            | 13                                                                   | ●                                                                                        | ● | ● | 7010.7140.47 |
| 7                 | 125                 | 125                 | 1)                | 135                                       | 945                                            | 13                                                                   | ●                                                                                        | ● | ● | 7010.7140.49 |
| 10                | 125                 | 125                 | 1)                | 130                                       | 1300                                           | 39                                                                   | ●                                                                                        | ● | ● | 7010.7150.13 |
| 10                | 125                 | 125                 | 1)                | 130                                       | 1300                                           | 39                                                                   | ●                                                                                        | ● | ● | 7010.7150.37 |
| 10                | 125                 | 125                 | 1)                | 130                                       | 1300                                           | 39                                                                   | ●                                                                                        | ● | ● | 7010.7150.39 |
| 10                | 125                 | 125                 | 1)                | 130                                       | 1300                                           | 39                                                                   | ●                                                                                        | ● | ● | 7010.7150.47 |
| 10                | 125                 | 125                 | 1)                | 130                                       | 1300                                           | 39                                                                   | ●                                                                                        | ● | ● | 7010.7150.49 |
| 12                | 32                  | 32                  | 3)                | 130                                       | 1450                                           | 57                                                                   | ●                                                                                        | ● | ● | 7010.7160.13 |
| 12                | 32                  | 32                  | 3)                | 130                                       | 1450                                           | 57                                                                   | ●                                                                                        | ● | ● | 7010.7160.37 |
| 12                | 32                  | 32                  | 3)                | 130                                       | 1450                                           | 57                                                                   | ●                                                                                        | ● | ● | 7010.7160.39 |
| 12                | 32                  | 32                  | 3)                | 130                                       | 1450                                           | 57                                                                   | ●                                                                                        | ● | ● | 7010.7160.47 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.0 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 |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 12                | 32                  | 32                  | 3)                | 130                                       | 1450                                           | 57                                                                   | ●                                                                                  | ●                                                                                   | 7010.7160.49 |
| 15                | 32                  | 32                  | 3)                | 120                                       | 1800                                           | 90                                                                   | ●                                                                                  | ●                                                                                   | 7010.7170.13 |
| 15                | 32                  | 32                  | 3)                | 120                                       | 1800                                           | 90                                                                   | ●                                                                                  | ●                                                                                   | 7010.7170.37 |
| 15                | 32                  | 32                  | 3)                | 120                                       | 1800                                           | 90                                                                   | ●                                                                                  | ●                                                                                   | 7010.7170.47 |
| 15                | 32                  | 32                  | 3)                | 120                                       | 1800                                           | 90                                                                   | ●                                                                                  | ●                                                                                   | 7010.7170.49 |

Most Popular.

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

1) UL: 50 A @ 125 VAC, p.f. ≥ 0.95 / 300 A @ 125 VDC

1) CSA: 300 A @ 125 VAC/DC

2) UL: 50 A @ 125 VAC, p.f. ≥ 0.95

2) CSA: 300 A @ 125 VAC

3) UL: 50 A @ 32 VAC, p.f. ≥ 0.95 / 300 A @ 32 VDC

3) CSA: 300 A @ 32 VAC/DC

#### Packaging Unit

|           |                                                 |
|-----------|-------------------------------------------------|
| .xx = .13 | Plastic Bag, Fuse Length 86 mm (100 pcs.)       |
| .xx = .37 | Taped 19 cm Reel, Fuse Length 65 mm (1500 pcs.) |
| .xx = .39 | Taped 19 cm Reel, Fuse Length 65 mm (5000 pcs.) |
| .xx = .47 | Taped 19 cm Reel, Fuse Length 86 mm (1500 pcs.) |
| .xx = .49 | Taped 19 cm Reel, Fuse Length 85 mm (5000 pcs.) |