

Surface Mount Fuse with Holder, 12 x 5.2 mm, Quick-Acting F, 63 VAC, 63 VDC



UL 248-14 · 63 VAC · 63 VDC · Quick-Acting F

See below:

[Approvals and Compliances](#)

### Description

- Directly solderable on printed circuit boards
- OMK 63 = OMF 63 + OMH 125

### Weblinks

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

### Technical Data

|                          |                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage            | 63 VAC, 63 VDC                                                                                                               |
| Rated current            | 0.063 - 5 A                                                                                                                  |
| Breaking Capacity        | 50 A                                                                                                                         |
| Characteristic           | Quick-Acting F                                                                                                               |
| Mounting                 | PCB, SMT                                                                                                                     |
| Admissible Ambient Temp. | -40 °C to 85 °C                                                                                                              |
| Climatic Category        | 40/085/21 acc. to IEC 60068-1                                                                                                |
| Material: Housing        | Thermoplastic, UL 94V-0                                                                                                      |
| Material: Terminals      | Tin-Plated Copper                                                                                                            |
| Unit Weight              | 0.48 g                                                                                                                       |
| Storage Conditions       | 0 °C to 60 °C, max. 70% r.h.                                                                                                 |
| Product Marking          |  Type, Rated current, Certification marks |

|                              |                                                 |
|------------------------------|-------------------------------------------------|
| Soldering Methods            | Reflow<br><a href="#">Soldering Profile</a>     |
| Solderability                | 245 °C / 3 sec acc. to IEC 60068-2-58, Test Td  |
| Resistance to Soldering Heat | 260 °C / 10 sec acc. to IEC 60068-2-58, Test Td |
| Moisture Sensitivity Level   | MSL 1, J-STD-020                                |

### 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.

### Product standards

Product standards that are referenced

| Organization                                                                        | Design                | Standard           | Description                                     |
|-------------------------------------------------------------------------------------|-----------------------|--------------------|-------------------------------------------------|
|  | Designed according to | UL 248-14          | Low voltage fuses - Part 14: Supplemental fuses |
|  | Designed according to | CSA22.2 No. 248.14 | Low-Voltage Fuses - Part 14: Supplemental Fuses |

### Application standards

Application standards where the product can be used

| Organization                                                                        | Design                         | Standard       | Description                                                                                   |
|-------------------------------------------------------------------------------------|--------------------------------|----------------|-----------------------------------------------------------------------------------------------|
|  | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

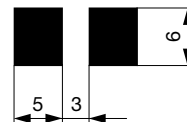
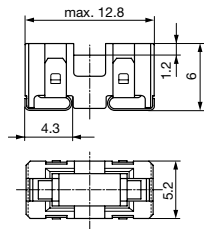
Compliances

The product complies with following Guide Lines

| Identification                                                                   | Details                        | Initiator   | Description                                                                                                                                                                                           |
|----------------------------------------------------------------------------------|--------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CE                                                                               | CE declaration of conformity   | 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. |
| UK<br>CA                                                                         | UKCA declaration of conformity | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.                                                  |
|  | RoHS                           | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863                                                                                                                                                    |
|  | China RoHS                     | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.                                                                                  |
|  | REACH                          | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.                               |

Dimension [mm]

12 mm

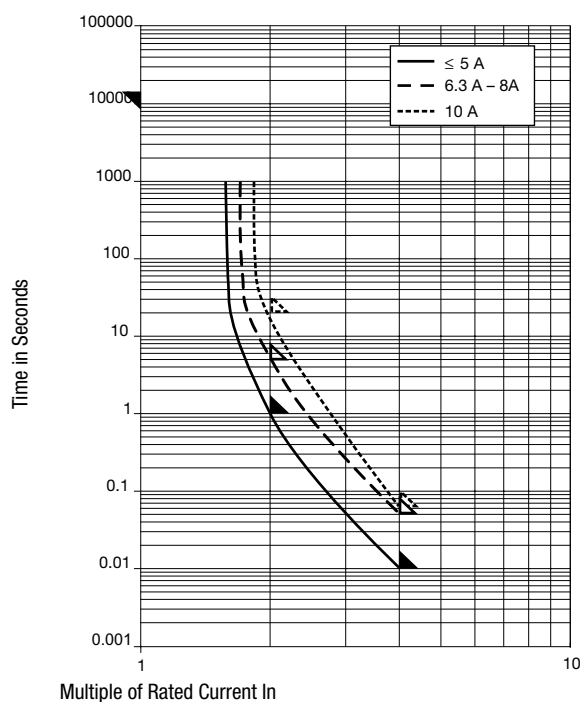


Soldering pads

Pre-Arcing Time

| Rated Current In | 1.0 x In min. | 2.0 x In max. | 4.0 x In max. |
|------------------|---------------|---------------|---------------|
| 0.063 A - 5 A    | 4 h           | 1 s           | 10 ms         |

## Time-Current-Curves



## Variants

| Fuse | Holder | 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 4.0 I <sub>n</sub> typ. [A <sup>2</sup> s] | Order Number |
|------|--------|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|--------------|
| ●    | ●      | 0.063             | 63                  | 63                  | 1)                | 2550                                      | 160                                            | 0.00011                                                             | 3422.0003.11 |
| ●    | ●      | 0.063             | 63                  | 63                  | 1)                | 2550                                      | 160                                            | 0.00011                                                             | 3422.0003.23 |
| ●    | ●      | 0.1               | 63                  | 63                  | 1)                | 1770                                      | 180                                            | 0.00067                                                             | 3422.0004.11 |
| ●    | ●      | 0.1               | 63                  | 63                  | 1)                | 1770                                      | 180                                            | 0.00067                                                             | 3422.0004.23 |
| ●    | ●      | 0.125             | 63                  | 63                  | 1)                | 1770                                      | 220                                            | 0.0011                                                              | 3422.0049.11 |
| ●    | ●      | 0.16              | 63                  | 63                  | 1)                | 1700                                      | 270                                            | 0.0018                                                              | 3422.0005.11 |
| ●    | ●      | 0.16              | 63                  | 63                  | 1)                | 1700                                      | 270                                            | 0.0018                                                              | 3422.0005.23 |
| ●    | ●      | 0.25              | 63                  | 63                  | 1)                | 990                                       | 250                                            | 0.0058                                                              | 3422.0006.11 |
| ●    | ●      | 0.25              | 63                  | 63                  | 1)                | 990                                       | 250                                            | 0.0058                                                              | 3422.0006.23 |
| ●    | ●      | 0.35              | 63                  | 63                  | 1)                | 990                                       | 350                                            | 0.0076                                                              | 3422.0043.11 |
| ●    | ●      | 0.35              | 63                  | 63                  | 1)                | 990                                       | 350                                            | 0.0076                                                              | 3422.0043.23 |
| ●    | ●      | 0.375             | 63                  | 63                  | 1)                | 990                                       | 370                                            | 0.013                                                               | 3422.0044.11 |
| ●    | ●      | 0.375             | 63                  | 63                  | 1)                | 990                                       | 370                                            | 0.013                                                               | 3422.0044.23 |
| ●    | ●      | 0.4               | 63                  | 63                  | 1)                | 960                                       | 380                                            | 0.016                                                               | 3422.0007.11 |
| ●    | ●      | 0.4               | 63                  | 63                  | 1)                | 960                                       | 380                                            | 0.016                                                               | 3422.0007.23 |
| ●    | ●      | 0.5               | 63                  | 63                  | 1)                | 350                                       | 180                                            | 0.01                                                                | 3422.0045.23 |
| ●    | ●      | 0.63              | 63                  | 63                  | 1)                | 290                                       | 180                                            | 0.02                                                                | 3422.0008.11 |
| ●    | ●      | 0.63              | 63                  | 63                  | 1)                | 290                                       | 180                                            | 0.02                                                                | 3422.0008.23 |
| ●    | ●      | 0.75              | 63                  | 63                  | 1)                | 260                                       | 200                                            | 0.031                                                               | 3422.0046.11 |
| ●    | ●      | 0.75              | 63                  | 63                  | 1)                | 260                                       | 200                                            | 0.031                                                               | 3422.0046.23 |
| ●    | ●      | 1                 | 63                  | 63                  | 1)                | 220                                       | 220                                            | 0.078                                                               | 3422.0009.11 |
| ●    | ●      | 1                 | 63                  | 63                  | 1)                | 220                                       | 220                                            | 0.078                                                               | 3422.0009.23 |
| ●    | ●      | 1.25              | 63                  | 63                  | 1)                | 220                                       | 280                                            | 0.14                                                                | 3422.0010.11 |
| ●    | ●      | 1.25              | 63                  | 63                  | 1)                | 220                                       | 280                                            | 0.14                                                                | 3422.0010.23 |
| ●    | ●      | 1.5               | 63                  | 63                  | 1)                | 200                                       | 300                                            | 0.24                                                                | 3422.0047.11 |
| ●    | ●      | 1.5               | 63                  | 63                  | 1)                | 200                                       | 300                                            | 0.24                                                                | 3422.0047.23 |
| ●    | ●      | 1.6               | 63                  | 63                  | 1)                | 200                                       | 320                                            | 0.27                                                                | 3422.0011.23 |
| ●    | ●      | 2                 | 63                  | 63                  | 1)                | 200                                       | 400                                            | 0.44                                                                | 3422.0012.11 |

| Fuse | Holder | 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 4.0 I <sub>n</sub> typ. [A²s] | Order Number |
|------|--------|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|------------------------------------------------|--------------------------------------------------------|--------------|
| ●    | ●      | 2                 | 63                  | 63                  | 1)                | 200                                       | 400                                            | 0.44                                                   | 3422.0012.23 |
| ●    | ●      | 2.5               | 63                  | 63                  | 1)                | 190                                       | 480                                            | 0.97                                                   | 3422.0013.11 |
| ●    | ●      | 2.5               | 63                  | 63                  | 1)                | 190                                       | 480                                            | 0.97                                                   | 3422.0013.23 |
| ●    | ●      | 3                 | 63                  | 63                  | 1)                | 190                                       | 570                                            | 1.3                                                    | 3422.0014.11 |
| ●    | ●      | 3                 | 63                  | 63                  | 1)                | 190                                       | 570                                            | 1.3                                                    | 3422.0014.23 |
| ●    | ●      | 3.15              | 63                  | 63                  | 1)                | 190                                       | 600                                            | 1.2                                                    | 3422.0048.11 |
| ●    | ●      | 3.15              | 63                  | 63                  | 1)                | 190                                       | 600                                            | 1.2                                                    | 3422.0048.23 |
| ●    | ●      | 3.5               | 63                  | 63                  | 1)                | 140                                       | 490                                            | 1.6                                                    | 3422.0015.11 |
| ●    | ●      | 3.5               | 63                  | 63                  | 1)                | 140                                       | 490                                            | 1.6                                                    | 3422.0015.23 |
| ●    | ●      | 4                 | 63                  | 63                  | 1)                | 140                                       | 560                                            | 2.1                                                    | 3422.0016.11 |
| ●    | ●      | 4                 | 63                  | 63                  | 1)                | 140                                       | 560                                            | 2.1                                                    | 3422.0016.23 |
| ●    | ●      | 5                 | 63                  | 63                  | 1)                | 140                                       | 700                                            | 2.9                                                    | 3422.0017.11 |
| ●    | ●      | 5                 | 63                  | 63                  | 1)                | 140                                       | 700                                            | 2.9                                                    | 3422.0017.23 |

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

1) 50 A @ 63 VAC, cos φ = 0.99 - 1; 50 A @ 63 VDC tau < 1 ms

|                          |           |                                                           |
|--------------------------|-----------|-----------------------------------------------------------|
| <b>Packaging Unit</b>    | .xx = .11 | 100 pcs in ESD-plastic bag                                |
| acc. IEC 60286-3 Type 2a | .xx = .23 | 1500 pcs. in tape [W: 24mm and P1: 8mm] on reel [A: 38cm] |