

Surface Mount Fuse, 7.4 x 3.1 mm, Quick-Acting F, 63 VAC, 63 VDC



Exemplary part photo depending on  
part no.

OMF 63

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

See below:

[Approvals and Compliances](#)

## Description

- Directly solderable on printed circuit boards

## References

[Packaging Details](#)

Corresponding Fuseholder

Assembled Fuseholder

Fuse Kit [Fuse Kit OMF](#)

## Weblinks

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

## Technical Data

|                              |                                                                                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 63 VAC, 63 VDC                                                                                                               |
| Rated current                | 0.063 - 10 A                                                                                                                 |
| Breaking Capacity            | 50 A                                                                                                                         |
| Characteristic               | Quick-Acting F                                                                                                               |
| Mounting                     | PCB, SMT                                                                                                                     |
| Admissible Ambient Air Temp. | -40 °C to 125 °C                                                                                                             |
| Climatic Category            | 40/85/21 acc. to IEC 60068-1                                                                                                 |
| Material: Housing            | Thermoplastic, UL 94V-0                                                                                                      |
| Material: Terminals          | Tin-Plated Copper Alloy                                                                                                      |
| Unit Weight                  | 0.1 g                                                                                                                        |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.                                                                                                 |
| Product Marking              |  Type, Rated current, Certification marks |

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Soldering Methods            | Reflow, Wave<br><a href="#">Soldering Profile</a>                   |
| Solderability                | 245 °C / 3 sec acc. to IEC 60068-2-58, Test Td                      |
| Resistance to Soldering Heat | 260 +0/-5 °C / 40 sec acc. to IPC/JEDEC J-STD-020D, Level 1         |
| Moisture Sensitivity Level   | MSL 1, J-STD-020                                                    |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7<br>>100 MΩ (between leads and body)    |
| Flammability                 | min. UL 94V-1<br>(acc. to EIA/IS-722, Test 4.12)                    |
| Current Carrying Capacity    | acc. to EIA/IS-722, Test 4.3.3                                      |
| Vibration, High Frequency    | MIL-STD-202, Method 204 Condition D                                 |
| Mechanical Shock             | MIL-STD-202, Method 213 Condition A                                 |
| Terminal Strength            | MIL-STD-202, Method 211A<br>(Deflection of board 1 mm for 1 minute) |

## 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: OMF 63

| Approval Logo                                                                       | Certificates                 | Certification Body | Description            |
|-------------------------------------------------------------------------------------|------------------------------|--------------------|------------------------|
|  | <a href="#">UL Approvals</a> | UL                 | UL File Number: E41599 |

Product standards

Product standards that are referenced

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

Application standards

Application standards where the product can be used

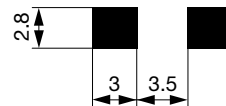
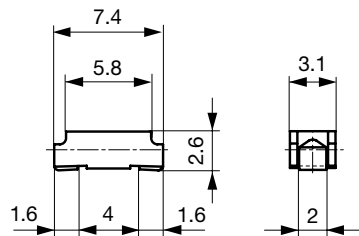
| Organization                                                                     | Design                         | Standard     | Description                                                                                     |
|----------------------------------------------------------------------------------|--------------------------------|--------------|-------------------------------------------------------------------------------------------------|
|  | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

Compliances

The product complies with following Guide Lines

| Identification                                                                   | Details                                      | Initiator   | Description                                                                                                                                                                                           |
|----------------------------------------------------------------------------------|----------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">CE declaration of conformity</a> | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | 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]

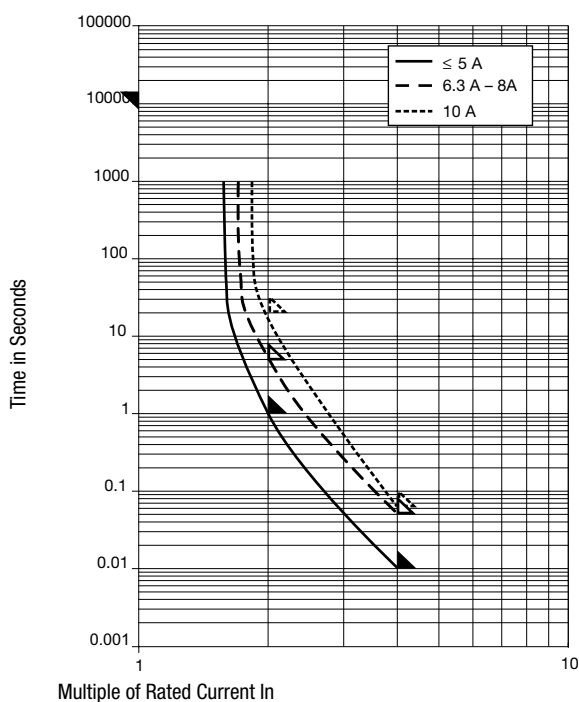


Soldering pads

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         |
| 6.3 A - 8 A      | 4 h           | 5 s           | 50 ms         |
| 10 A             | 4 h           | 20 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 4.0 I <sub>n</sub> typ. [A <sup>2</sup> s] |  | Order Number                 |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|
| 0.063             | 63                  | 63                  | 1)                | 2550                                      | 160                                            | 0.00011                                                             | ●                                                                                   | <a href="#">3402.0003.11</a> |
| 0.063             | 63                  | 63                  | 1)                | 2550                                      | 160                                            | 0.00011                                                             | ●                                                                                   | <a href="#">3402.0003.22</a> |
| 0.063             | 63                  | 63                  | 1)                | 2550                                      | 160                                            | 0.00011                                                             | ●                                                                                   | <a href="#">3402.0003.24</a> |
| 0.1               | 63                  | 63                  | 1)                | 1770                                      | 180                                            | 0.00067                                                             | ●                                                                                   | <a href="#">3402.0004.11</a> |
| 0.1               | 63                  | 63                  | 1)                | 1770                                      | 180                                            | 0.00067                                                             | ●                                                                                   | <a href="#">3402.0004.22</a> |
| 0.1               | 63                  | 63                  | 1)                | 1770                                      | 180                                            | 0.00067                                                             | ●                                                                                   | <a href="#">3402.0004.24</a> |
| 0.125             | 63                  | 63                  | 1)                | 1770                                      | 220                                            | 0.0011                                                              | ●                                                                                   | <a href="#">3402.0049.11</a> |
| 0.125             | 63                  | 63                  | 1)                | 1770                                      | 220                                            | 0.0011                                                              | ●                                                                                   | <a href="#">3402.0049.22</a> |
| 0.125             | 63                  | 63                  | 1)                | 1770                                      | 220                                            | 0.0011                                                              | ●                                                                                   | <a href="#">3402.0049.24</a> |
| 0.16              | 63                  | 63                  | 1)                | 1770                                      | 270                                            | 0.0018                                                              | ●                                                                                   | <a href="#">3402.0005.11</a> |
| 0.16              | 63                  | 63                  | 1)                | 1770                                      | 270                                            | 0.0018                                                              | ●                                                                                   | <a href="#">3402.0005.22</a> |
| 0.16              | 63                  | 63                  | 1)                | 1770                                      | 270                                            | 0.0018                                                              | ●                                                                                   | <a href="#">3402.0005.24</a> |
| 0.25              | 63                  | 63                  | 1)                | 990                                       | 250                                            | 0.0058                                                              | ●                                                                                   | <a href="#">3402.0006.11</a> |
| 0.25              | 63                  | 63                  | 1)                | 990                                       | 250                                            | 0.0058                                                              | ●                                                                                   | <a href="#">3402.0006.22</a> |
| 0.25              | 63                  | 63                  | 1)                | 990                                       | 250                                            | 0.0058                                                              | ●                                                                                   | <a href="#">3402.0006.24</a> |
| 0.35              | 63                  | 63                  | 1)                | 990                                       | 350                                            | 0.0076                                                              | ●                                                                                   | <a href="#">3402.0043.11</a> |
| 0.35              | 63                  | 63                  | 1)                | 990                                       | 350                                            | 0.0076                                                              | ●                                                                                   | <a href="#">3402.0043.22</a> |
| 0.35              | 63                  | 63                  | 1)                | 990                                       | 350                                            | 0.0076                                                              | ●                                                                                   | <a href="#">3402.0043.24</a> |
| 0.375             | 63                  | 63                  | 1)                | 990                                       | 370                                            | 0.013                                                               | ●                                                                                   | <a href="#">3402.0044.11</a> |
| 0.375             | 63                  | 63                  | 1)                | 990                                       | 370                                            | 0.013                                                               | ●                                                                                   | <a href="#">3402.0044.22</a> |
| 0.375             | 63                  | 63                  | 1)                | 990                                       | 370                                            | 0.013                                                               | ●                                                                                   | <a href="#">3402.0044.24</a> |
| 0.4               | 63                  | 63                  | 1)                | 960                                       | 380                                            | 0.016                                                               | ●                                                                                   | <a href="#">3402.0007.11</a> |
| 0.4               | 63                  | 63                  | 1)                | 960                                       | 380                                            | 0.016                                                               | ●                                                                                   | <a href="#">3402.0007.22</a> |
| 0.4               | 63                  | 63                  | 1)                | 960                                       | 380                                            | 0.016                                                               | ●                                                                                   | <a href="#">3402.0007.24</a> |
| 0.5               | 63                  | 63                  | 1)                | 350                                       | 180                                            | 0.01                                                                | ●                                                                                   | <a href="#">3402.0045.11</a> |
| 0.5               | 63                  | 63                  | 1)                | 350                                       | 180                                            | 0.01                                                                | ●                                                                                   | <a href="#">3402.0045.22</a> |
| 0.5               | 63                  | 63                  | 1)                | 350                                       | 180                                            | 0.01                                                                | ●                                                                                   | <a href="#">3402.0045.24</a> |
| 0.63              | 63                  | 63                  | 1)                | 290                                       | 180                                            | 0.02                                                                | ●                                                                                   | <a href="#">3402.0008.11</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 4.0 I <sub>n</sub> typ. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|
| 0.63              | 63                  | 63                  | 1)                | 290                                       | 180                                            | 0.02                                                                | ●                                                                                 | 3402.0008.22 |
| 0.63              | 63                  | 63                  | 1)                | 290                                       | 180                                            | 0.02                                                                | ●                                                                                 | 3402.0008.24 |
| 0.75              | 63                  | 63                  | 1)                | 260                                       | 200                                            | 0.031                                                               | ●                                                                                 | 3402.0046.11 |
| 0.75              | 63                  | 63                  | 1)                | 260                                       | 200                                            | 0.031                                                               | ●                                                                                 | 3402.0046.22 |
| 0.75              | 63                  | 63                  | 1)                | 260                                       | 200                                            | 0.031                                                               | ●                                                                                 | 3402.0046.24 |
| 1                 | 63                  | 63                  | 1)                | 220                                       | 220                                            | 0.078                                                               | ●                                                                                 | 3402.0009.11 |
| 1                 | 63                  | 63                  | 1)                | 220                                       | 220                                            | 0.078                                                               | ●                                                                                 | 3402.0009.22 |
| 1                 | 63                  | 63                  | 1)                | 220                                       | 220                                            | 0.078                                                               | ●                                                                                 | 3402.0009.24 |
| 1.25              | 63                  | 63                  | 1)                | 220                                       | 280                                            | 0.14                                                                | ●                                                                                 | 3402.0010.11 |
| 1.25              | 63                  | 63                  | 1)                | 220                                       | 280                                            | 0.14                                                                | ●                                                                                 | 3402.0010.22 |
| 1.25              | 63                  | 63                  | 1)                | 220                                       | 280                                            | 0.14                                                                | ●                                                                                 | 3402.0010.24 |
| 1.5               | 63                  | 63                  | 1)                | 200                                       | 300                                            | 0.24                                                                | ●                                                                                 | 3402.0047.11 |
| 1.5               | 63                  | 63                  | 1)                | 200                                       | 300                                            | 0.24                                                                | ●                                                                                 | 3402.0047.22 |
| 1.5               | 63                  | 63                  | 1)                | 200                                       | 300                                            | 0.24                                                                | ●                                                                                 | 3402.0047.24 |
| 1.6               | 63                  | 63                  | 1)                | 200                                       | 320                                            | 0.27                                                                | ●                                                                                 | 3402.0011.11 |
| 1.6               | 63                  | 63                  | 1)                | 200                                       | 320                                            | 0.27                                                                | ●                                                                                 | 3402.0011.22 |
| 1.6               | 63                  | 63                  | 1)                | 200                                       | 320                                            | 0.27                                                                | ●                                                                                 | 3402.0011.24 |
| 2                 | 63                  | 63                  | 1)                | 200                                       | 400                                            | 0.44                                                                | ●                                                                                 | 3402.0012.11 |
| 2                 | 63                  | 63                  | 1)                | 200                                       | 400                                            | 0.44                                                                | ●                                                                                 | 3402.0012.22 |
| 2                 | 63                  | 63                  | 1)                | 200                                       | 400                                            | 0.44                                                                | ●                                                                                 | 3402.0012.24 |
| 2.5               | 63                  | 63                  | 1)                | 190                                       | 480                                            | 0.97                                                                | ●                                                                                 | 3402.0013.11 |
| 2.5               | 63                  | 63                  | 1)                | 190                                       | 480                                            | 0.97                                                                | ●                                                                                 | 3402.0013.22 |
| 2.5               | 63                  | 63                  | 1)                | 190                                       | 480                                            | 0.97                                                                | ●                                                                                 | 3402.0013.24 |
| 3                 | 63                  | 63                  | 1)                | 190                                       | 570                                            | 1.3                                                                 | ●                                                                                 | 3402.0014.11 |
| 3                 | 63                  | 63                  | 1)                | 190                                       | 570                                            | 1.3                                                                 | ●                                                                                 | 3402.0014.22 |
| 3                 | 63                  | 63                  | 1)                | 190                                       | 570                                            | 1.3                                                                 | ●                                                                                 | 3402.0014.24 |
| 3.15              | 63                  | 63                  | 1)                | 190                                       | 600                                            | 1.2                                                                 | ●                                                                                 | 3402.0048.11 |
| 3.15              | 63                  | 63                  | 1)                | 190                                       | 600                                            | 1.2                                                                 | ●                                                                                 | 3402.0048.22 |
| 3.15              | 63                  | 63                  | 1)                | 190                                       | 600                                            | 1.2                                                                 | ●                                                                                 | 3402.0048.24 |
| 3.5               | 63                  | 63                  | 1)                | 140                                       | 490                                            | 1.6                                                                 | ●                                                                                 | 3402.0015.11 |
| 3.5               | 63                  | 63                  | 1)                | 140                                       | 490                                            | 1.6                                                                 | ●                                                                                 | 3402.0015.22 |
| 3.5               | 63                  | 63                  | 1)                | 140                                       | 490                                            | 1.6                                                                 | ●                                                                                 | 3402.0015.24 |
| 4                 | 63                  | 63                  | 1)                | 140                                       | 560                                            | 2.1                                                                 | ●                                                                                 | 3402.0016.11 |
| 4                 | 63                  | 63                  | 1)                | 140                                       | 560                                            | 2.1                                                                 | ●                                                                                 | 3402.0016.22 |
| 4                 | 63                  | 63                  | 1)                | 140                                       | 560                                            | 2.1                                                                 | ●                                                                                 | 3402.0016.24 |
| 5                 | 63                  | 63                  | 1)                | 140                                       | 700                                            | 2.9                                                                 | ●                                                                                 | 3402.0017.11 |
| 5                 | 63                  | 63                  | 1)                | 140                                       | 700                                            | 2.9                                                                 | ●                                                                                 | 3402.0017.22 |
| 5                 | 63                  | 63                  | 1)                | 140                                       | 700                                            | 2.9                                                                 | ●                                                                                 | 3402.0017.24 |
| 6.3               | 63                  | 63                  | 1)                | 110                                       | 690                                            | 14                                                                  | ●                                                                                 | 3402.0018.11 |
| 6.3               | 63                  | 63                  | 1)                | 110                                       | 690                                            | 14                                                                  | ●                                                                                 | 3402.0018.22 |
| 6.3               | 63                  | 63                  | 1)                | 110                                       | 690                                            | 14                                                                  | ●                                                                                 | 3402.0018.24 |
| 7                 | 63                  | 63                  | 1)                | 105                                       | 740                                            | 16                                                                  | ●                                                                                 | 3402.0019.11 |
| 7                 | 63                  | 63                  | 1)                | 105                                       | 740                                            | 16                                                                  | ●                                                                                 | 3402.0019.22 |
| 7                 | 63                  | 63                  | 1)                | 105                                       | 740                                            | 16                                                                  | ●                                                                                 | 3402.0019.24 |
| 8                 | 63                  | 63                  | 1)                | 100                                       | 800                                            | 20                                                                  | ●                                                                                 | 3402.0020.11 |
| 8                 | 63                  | 63                  | 1)                | 100                                       | 800                                            | 20                                                                  | ●                                                                                 | 3402.0020.22 |
| 8                 | 63                  | 63                  | 1)                | 100                                       | 800                                            | 20                                                                  | ●                                                                                 | 3402.0020.24 |
| 10                | 63                  | 63                  | 1)                | 80                                        | 800                                            | 54                                                                  | ●                                                                                 | 3402.0040.11 |
| 10                | 63                  | 63                  | 1)                | 80                                        | 800                                            | 54                                                                  | ●                                                                                 | 3402.0040.22 |
| 10                | 63                  | 63                  | 1)                | 80                                        | 800                                            | 54                                                                  | ●                                                                                 | 3402.0040.24 |

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1) 50 A @ 63 VAC/DC

**Packaging Unit**

.xx = .11  
.xx = .22  
.xx = .24

Plastic Bag (100 pcs.)  
Blister Tape 18 cm Reel (750 pcs.)  
Blister Tape 33 cm Reel (3000 pcs.)

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# Mouser Electronics

Authorized Distributor

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## Schurter:

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