



THE DATASHEET OF
3402.0040.24



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 | Soldering Methods | Reflow, Wave Soldering Profile |
| Rated current | 0.063 - 10 A | Solderability | 245 °C / 3 sec acc. to IEC 60068-2-58, Test Td |
| Breaking Capacity | 50 A | Resistance to Soldering Heat | 260 +0/-5 °C / 40 sec acc. to IPC/JEDEC J-STD-020D, Level 1 |
| Characteristic | Quick-Acting F | Moisture Sensitivity Level | MSL 1, J-STD-020 |
| Mounting | PCB,SMT | Case Resistance | acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body) |
| Admissible Ambient Air Temp. | -40 °C to 125 °C | Flammability | min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12) |
| Climatic Category | 40/85/21 acc. to IEC 60068-1 | Current Carrying Capacity | acc. to EIA/IS-722, Test 4.3.3 |
| Material: Housing | Thermoplastic, UL 94V-0 | Vibration, High Frequency | MIL-STD-202, Method 204 Condition D |
| Material: Terminals | Tin-Plated Copper Alloy | Mechanical Shock | MIL-STD-202, Method 213 Condition A |
| Unit Weight | 0.1 g | Terminal Strength | MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute) |
| Storage Conditions | 0 °C to 60 °C, max. 70% r.h. | | |
| Product Marking |  Type, Rated current, Certification marks | | |

Approvals and Compliances


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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals



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

Approval Reference Type: OMF 63

| Approval Logo | Certificates | Certification Body | Description |
|---|------------------------------|--------------------|------------------------|
|  | UL Approvals | 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. |

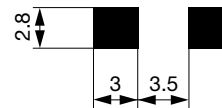
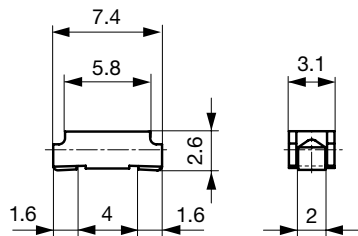
Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | 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. |
|  | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/836 |
|  | 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]

 7.4 mm

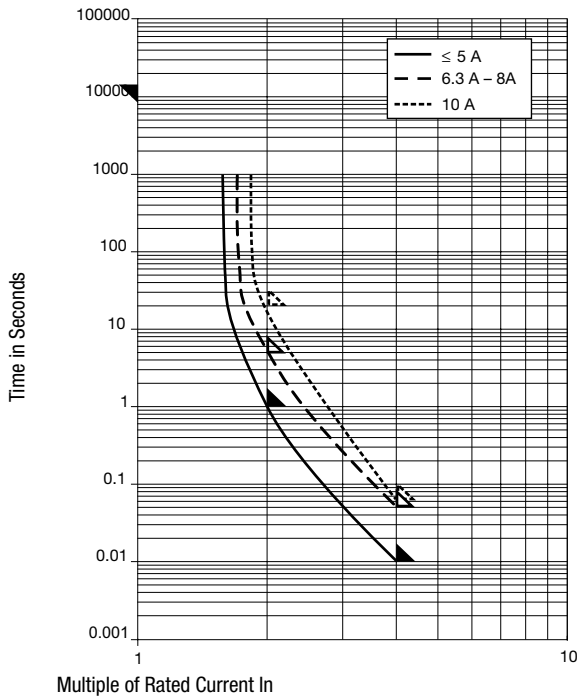


Soldering pads


Pre-Arcing Time


| Rated Current I_n | 1.0 x I_n min. | 2.0 x I_n max. | 4.0 x I_n 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 _n typ. [mV] | Power Dissipation 1.0 I _n typ. [mW] | Melting I ² t 4.0 I _n typ. [A ² s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|---|--|---|---|--------------|
| 0.063 | 63 | 63 | 1) | 2550 | 160 | 0.00011 | ● | 3402.0003.11 |
| 0.063 | 63 | 63 | 1) | 2550 | 160 | 0.00011 | ● | 3402.0003.22 |
| 0.063 | 63 | 63 | 1) | 2550 | 160 | 0.00011 | ● | 3402.0003.24 |
| 0.1 | 63 | 63 | 1) | 1770 | 180 | 0.00067 | ● | 3402.0004.11 |
| 0.1 | 63 | 63 | 1) | 1770 | 180 | 0.00067 | ● | 3402.0004.22 |
| 0.1 | 63 | 63 | 1) | 1770 | 180 | 0.00067 | ● | 3402.0004.24 |
| 0.125 | 63 | 63 | 1) | 1770 | 220 | 0.0011 | ● | 3402.0049.11 |
| 0.125 | 63 | 63 | 1) | 1770 | 220 | 0.0011 | ● | 3402.0049.22 |
| 0.125 | 63 | 63 | 1) | 1770 | 220 | 0.0011 | ● | 3402.0049.24 |
| 0.16 | 63 | 63 | 1) | 1770 | 270 | 0.0018 | ● | 3402.0005.11 |
| 0.16 | 63 | 63 | 1) | 1770 | 270 | 0.0018 | ● | 3402.0005.22 |
| 0.16 | 63 | 63 | 1) | 1770 | 270 | 0.0018 | ● | 3402.0005.24 |
| 0.25 | 63 | 63 | 1) | 990 | 250 | 0.0058 | ● | 3402.0006.11 |
| 0.25 | 63 | 63 | 1) | 990 | 250 | 0.0058 | ● | 3402.0006.22 |
| 0.25 | 63 | 63 | 1) | 990 | 250 | 0.0058 | ● | 3402.0006.24 |
| 0.35 | 63 | 63 | 1) | 990 | 350 | 0.0076 | ● | 3402.0043.11 |
| 0.35 | 63 | 63 | 1) | 990 | 350 | 0.0076 | ● | 3402.0043.22 |
| 0.35 | 63 | 63 | 1) | 990 | 350 | 0.0076 | ● | 3402.0043.24 |
| 0.375 | 63 | 63 | 1) | 990 | 370 | 0.013 | ● | 3402.0044.11 |
| 0.375 | 63 | 63 | 1) | 990 | 370 | 0.013 | ● | 3402.0044.22 |
| 0.375 | 63 | 63 | 1) | 990 | 370 | 0.013 | ● | 3402.0044.24 |
| 0.4 | 63 | 63 | 1) | 960 | 380 | 0.016 | ● | 3402.0007.11 |
| 0.4 | 63 | 63 | 1) | 960 | 380 | 0.016 | ● | 3402.0007.22 |
| 0.4 | 63 | 63 | 1) | 960 | 380 | 0.016 | ● | 3402.0007.24 |
| 0.5 | 63 | 63 | 1) | 350 | 180 | 0.01 | ● | 3402.0045.11 |
| 0.5 | 63 | 63 | 1) | 350 | 180 | 0.01 | ● | 3402.0045.22 |
| 0.5 | 63 | 63 | 1) | 350 | 180 | 0.01 | ● | 3402.0045.24 |
| 0.63 | 63 | 63 | 1) | 290 | 180 | 0.02 | ● | 3402.0008.11 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I _n typ. [mV] | Power Dissipation 1.0 I _n typ. [mW] | Melting I ² t 4.0 I _n typ. [A ² 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 |

 Most Popular.



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

1) 50 A @ 63 VAC/DC

Packaging Unit .xx = .11 Plastic Bag (100 pcs.)
 .xx = .22 Blister Tape 18 cm Reel (750 pcs.)
 .xx = .24 Blister Tape 33 cm Reel (3000 pcs.)

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