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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



### Description

- Directly solderable on printed circuit boards

### Standards

- UL 248-14  
- CSA C22.2 no. 248.14

### Approvals

- Approval Reference Type: OMF 63  
- UL File Number: E41599


### References

[Packaging Details](#)  
Corresponding Fuseholder [OMH 125](#)  
Assembled Fuseholder [OMK 63](#)  
Fuse Kit [Fuse Kit OMF](#)

### Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)


### Technical Data

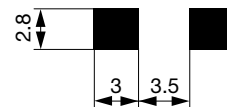
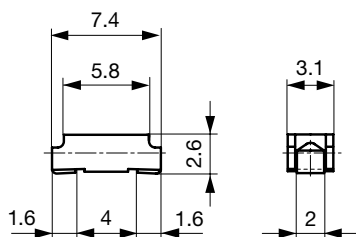
|                              |  |
|------------------------------|--|
| Rated Voltage                | 63 VAC, 63 VDC   |
| Rated current                | 0.063 - 10 A   |
| Breaking Capacity            | 50 A   |
| Characteristic               | Quick-Acting F   |
| Mounting                     | 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, Approvals |

|                              |   |
|------------------------------|---|
| 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         |
| Current Carrying Capacity    | acc. to EIA/IS-722, Test 4.3.3                                      |
| Terminal Strength            | MIL-STD-202, Method 211A<br>(Deflection of board 1 mm for 1 minute) |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7<br>>100 MΩ (between leads and body)    |
| Mechanical Shock             | MIL-STD-202, Method 213B<br>(Shock 50g, half sine wave, 11 ms)      |
| Vibration, High Frequency    | MIL-STD-202, Method 204D<br>Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.  |
| Flammability                 | min. UL 94V-1<br>(acc. to EIA/IS-722, Test 4.12)                    |

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

### Dimension [mm]

 7.4 mm

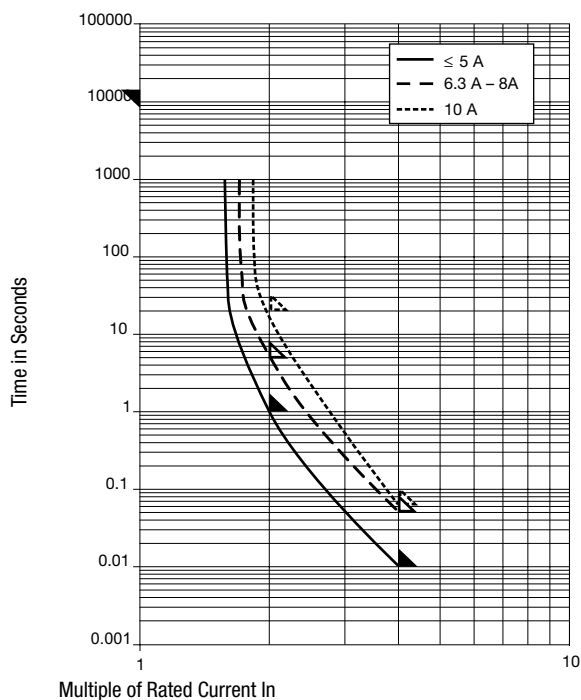


Soldering pads


## 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 $I^2t$ 4.0 $I_n$ typ. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|----------------------------------|---------------------------------------|--|---|--------------|
| 0.063             | 63                  | 63                  | 1)                | 2550                             | 160                                   | 0.00011  | ●   | 3402.0003.11 |
| 0.063             | 63                  | 63                  | 1)                | 2550                             | 160                                   | 0.000011   | ●   | 3402.0003.22 |
| 0.063             | 63                  | 63                  | 1)                | 2550                             | 160                                   | 0.000011   | ●   | 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                                   | 0.00011  | ●   | 3402.0049.22 |
| 0.125             | 63                  | 63                  | 1)                | 1770                             | 220                                   | 0.00011  | ●   | 3402.0049.24 |
| 0.16              | 63                  | 63                  | 1)                | 1770                             | 270                                   | 0.0018   | ●   | 3402.0005.11 |
| 0.16              | 63                  | 63                  | 1)                | 1770                             | 270                                   | 0.00018  | ●   | 3402.0005.22 |
| 0.16              | 63                  | 63                  | 1)                | 1770                             | 270                                   | 0.00018  | ●   | 3402.0005.24 |
| 0.25              | 63                  | 63                  | 1)                | 990                              | 250                                   | 0.0058   | ●   | 3402.0006.11 |
| 0.25              | 63                  | 63                  | 1)                | 990                              | 250                                   | 0.00058  | ●   | 3402.0006.22 |
| 0.25              | 63                  | 63                  | 1)                | 990                              | 250                                   | 0.00058  | ●   | 3402.0006.24 |
| 0.35              | 63                  | 63                  | 1)                | 990                              | 350                                   | 0.0076   | ●   | 3402.0043.11 |
| 0.35              | 63                  | 63                  | 1)                | 990                              | 350                                   | 0.00076  | ●   | 3402.0043.22 |
| 0.35              | 63                  | 63                  | 1)                | 990                              | 350                                   | 0.00076  | ●   | 3402.0043.24 |
| 0.375             | 63                  | 63                  | 1)                | 990                              | 370                                   | 0.013  | ●   | 3402.0044.11 |
| 0.375             | 63                  | 63                  | 1)                | 990                              | 370                                   | 0.0013   | ●   | 3402.0044.22 |
| 0.375             | 63                  | 63                  | 1)                | 990                              | 370                                   | 0.0013   | ●   | 3402.0044.24 |

| 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 In typ. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|---|--|---|---|--------------|
| 0.4               | 63                  | 63                  | 1)                | 960                                       | 380  | 0.016   | ●   | 3402.0007.11 |
| 0.4               | 63                  | 63                  | 1)                | 960                                       | 380  | 0.0016  | ●   | 3402.0007.22 |
| 0.4               | 63                  | 63                  | 1)                | 960                                       | 380  | 0.0016  | ●   | 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 |
| 0.63              | 63                  | 63                  | 1)                | 290                                       | 180  | 0.002   | ●   | 3402.0008.22 |
| 0.63              | 63                  | 63                  | 1)                | 290                                       | 180  | 0.002   | ●   | 3402.0008.24 |
| 0.75              | 63                  | 63                  | 1)                | 260                                       | 200  | 0.031   | ●   | 3402.0046.11 |
| 0.75              | 63                  | 63                  | 1)                | 260                                       | 200  | 0.0031  | ●   | 3402.0046.22 |
| 0.75              | 63                  | 63                  | 1)                | 260                                       | 200  | 0.0031  | ●   | 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  | 0.014   | ●   | 3402.0010.22 |
| 1.25              | 63                  | 63                  | 1)                | 220                                       | 280  | 0.014   | ●   | 3402.0010.24 |
| 1.5               | 63                  | 63                  | 1)                | 200                                       | 300  | 0.24  | ●   | 3402.0047.11 |
| 1.5               | 63                  | 63                  | 1)                | 200                                       | 300  | 0.024   | ●   | 3402.0047.22 |
| 1.5               | 63                  | 63                  | 1)                | 200                                       | 300  | 0.024   | ●   | 3402.0047.24 |
| 1.6               | 63                  | 63                  | 1)                | 200                                       | 320  | 0.27  | ●   | 3402.0011.11 |
| 1.6               | 63                  | 63                  | 1)                | 200                                       | 320  | 0.027   | ●   | 3402.0011.22 |
| 1.6               | 63                  | 63                  | 1)                | 200                                       | 320  | 0.027   | ●   | 3402.0011.24 |
| 2                 | 63                  | 63                  | 1)                | 200                                       | 400  | 0.44  | ●   | 3402.0012.11 |
| 2                 | 63                  | 63                  | 1)                | 200                                       | 400  | 0.044   | ●   | 3402.0012.22 |
| 2                 | 63                  | 63                  | 1)                | 200                                       | 400  | 0.044   | ●   | 3402.0012.24 |
| 2.5               | 63                  | 63                  | 1)                | 190                                       | 480  | 0.97  | ●   | 3402.0013.11 |
| 2.5               | 63                  | 63                  | 1)                | 190                                       | 480  | 0.097   | ●   | 3402.0013.22 |
| 2.5               | 63                  | 63                  | 1)                | 190                                       | 480  | 0.097   | ●   | 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 |
| -                 | 63                  | 63                  | 1)                | 105                                       | 740  | 16  | ●   | 3402.0019.22 |
| -                 | 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 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.0 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 4.0 In typ. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------|--|---|---|--------------|
| 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      | Plastic Bag (100 pcs.)              |
| .xx = .22      | Blister Tape 18 cm Reel (750 pcs.)  |
| .xx = .24      | Blister Tape 33 cm Reel (3000 pcs.) |