

Surface Mount Fuse, 7 x 2 mm, Quick-Acting F, 125 VAC, 125 VDC



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



### Description

- High breaking capacity
- Directly solderable on printed circuit boards

### Standards

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

### Approvals

- UL File Number: E42088
- CSA File Number: 34549

### Applications

- Telecom
- Industrial electronic
- Household appliances

### References

[Packaging Details](#)

Square Footprint Type [MKF](#)

Corresponding Fuseholder [231786](#); [231787](#)

### Weblinks

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

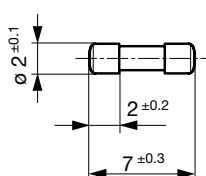
### Technical Data

|                              |                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------|
| Rated Voltage                | 63 - 125VAC, 65 - 125VDC                                                                          |
| Rated current                | 0.063 - 15 A                                                                                      |
| Breaking Capacity            | 300 A                                                                                             |
| Characteristic               | Quick-Acting F                                                                                    |
| Mounting                     | PCB,SMT                                                                                           |
| Admissible Ambient Air Temp. | -55 °C to 125 °C                                                                                  |
| Climatic Category            | 55/125/56 acc. to IEC 60068-1                                                                     |
| Material: Tube               | Ceramic                                                                                           |
| Material: Endcaps            | Tin-Plated Copper Alloy                                                                           |
| Unit Weight                  | 0.07 g                                                                                            |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.                                                                      |
| Product Marking              |  Rated current |

|                              |                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------|
| Soldering Methods            | Reflow, Wave                                                                              |
| Solderability                | 235 °C / 2 sec acc. to IEC 60068-2-58, Test Td, Fig. 2B (Reflow) // 245 °C / 3 sec (Wave) |
| Resistance to Soldering Heat | 260 °C / 10 sec acc. to IEC 60068-2-58, Test Td                                           |

### Dimension

 7 mm

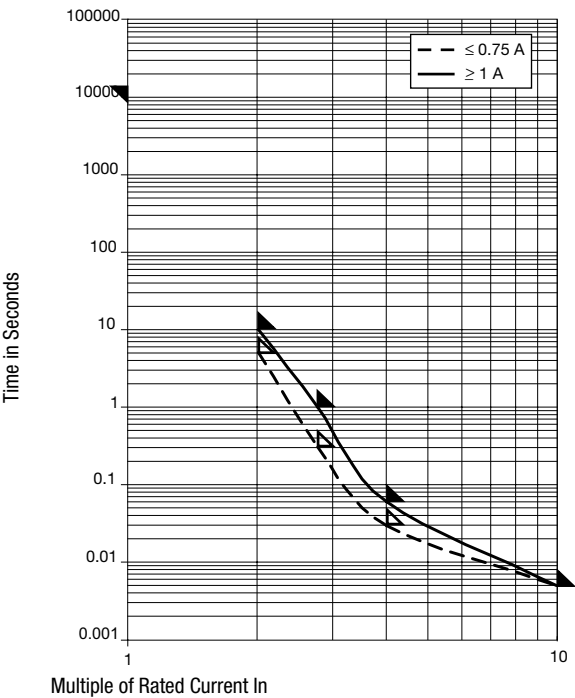


Soldering pads

### Pre-Arcing Time

| Rated Current In | 1.0 x In min. | 2.0 x In max. | 2.75 x In max. | 4.0 x In max. | 10.0 x In max. |
|------------------|---------------|---------------|----------------|---------------|----------------|
| 0.063 A - 0.75 A | 4 h           | 5 s           | 300 ms         | 30 ms         | 5 ms           |
| 1 A - 15 A       | 4 h           | 10 s          | -              | 60 ms         | 5 ms           |

Time-Current-Curves



All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.0 In typ. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------|------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 0.063             | 125                 | 125                 | 1)                | 590                           | 37                                 | 0.00022                                                 | ●                                                                                   | 7010.9750.xx |
| 0.125             | 125                 | 125                 | 1)                | 640                           | 80                                 | 0.0024                                                  | ●                                                                                   | 7010.9760.xx |
| 0.25              | 125                 | 125                 | 1)                | 275                           | 69                                 | 0.0061                                                  | ●                                                                                   | 7010.9770.xx |
| 0.375             | 125                 | 125                 | 1)                | 215                           | 81                                 | 0.012                                                   | ●                                                                                   | 7010.9780.xx |
| 0.5               | 125                 | 125                 | 1)                | 205                           | 103                                | 0.046                                                   | ●                                                                                   | 7010.9790.xx |
| 0.75              | 125                 | 125                 | 1)                | 190                           | 143                                | 0.09                                                    | ●                                                                                   | 7010.9800.xx |
| 1                 | 125                 | 125                 | 1)                | 180                           | 180                                | 0.11                                                    | ●                                                                                   | 7010.9810.xx |
| 1.5               | 125                 | 125                 | 1)                | 185                           | 278                                | 0.25                                                    | ●                                                                                   | 7010.9820.xx |
| 2                 | 125                 | 125                 | 1)                | 160                           | 320                                | 0.72                                                    | ●                                                                                   | 7010.9830.xx |
| 2.5               | 125                 | 125                 | 1)                | 160                           | 400                                | 0.91                                                    | ●                                                                                   | 7010.9840.xx |
| 3                 | 125                 | 125                 | 1)                | 155                           | 465                                | 1.3                                                     | ●                                                                                   | 7010.9850.xx |
| 3.5               | 125                 | 125                 | 1)                | 145                           | 510                                | 1.7                                                     | ●                                                                                   | 7010.9860.xx |
| 4                 | 125                 | 125                 | 1)                | 140                           | 560                                | 2.6                                                     | ●                                                                                   | 7010.9870.xx |
| 5                 | 63                  | 125                 | 2)                | 125                           | 625                                | 4                                                       | ●                                                                                   | 7010.9880.xx |
| 7                 | 63                  | 125                 | 2)                | 120                           | 840                                | 8.5                                                     | ●                                                                                   | 7010.9890.xx |
| 10                | 65                  | 65                  | 3)                | 110                           | 1100                               | 31                                                      | ●                                                                                   | 7010.9892.xx |
| 12                | 65                  | 65                  | 3)                | 115                           | 1380                               | 48                                                      | ●                                                                                   | 7010.9894.xx |
| 15                | 65                  | 65                  | 3)                | 105                           | 1575                               | 92                                                      | ●                                                                                   | 7010.9896.xx |

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

2) 300 A @ 63 VAC , p.f. ≥ 0.95 / 300 A @ 125 VDC

3) 300 A @ 65 VAC , p.f. ≥ 0.95 / 300 A @ 65 VDC

Packaging Unit .xx = .63 Plastic Bag (100 pcs.)  
.xx = .57 Blister Tape 18 cm Reel (1500 pcs.)