

Surface Mount Fuse, 7 x 2 mm



UL 248-14 · 125 VAC · 125 VDC · 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

Applications

- Telecom
- Industrial electronic
- Household appliances

References

[General Product Information](#)

Time-Current Curves see last page

Square Footprint Type [MKF](#)

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


[Packaging Details](#)

Weblinks

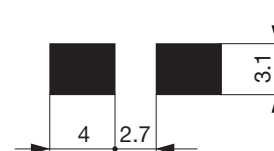
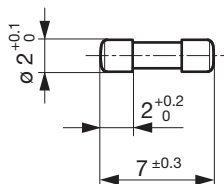
Approvals: <http://www.schurter.com/approvals>

RoHS: <http://www.schurter.com/rohs>

Technical Data

| | |
|------------------------------|--|
| Rated Voltage | 63 - 125 VAC, 65 - 125 VDC |
| Rated Current | 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 |  , Current Rating |

| | |
|------------------------------|--|
| Soldering Methods | Reflow, Wave |
| 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 |


DimensionsLength  7 mm

Solder 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 | 1 s | 60 ms | 5 ms |

Variants

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

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

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

.xx = .59 Blister Tape 33 cm Reel (5000 pcs.)

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