

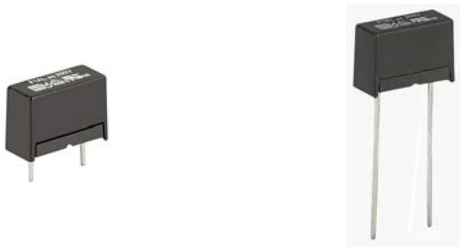
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Subminiature Fuse, 11.5 x 5 mm, Quick-Acting F



IEC 60127-4 · 250VAC · Quick-Acting F



Description

- Subminiature fuse quick-acting F

Standards

- IEC 60127-4/1
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- Approval Reference Type: FRT 250F
- UL File Number: E41599

Applications

- Primary Protection on PCB


References

[Packaging Details](#)
Corresponding Fuseholder 231819

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](#)

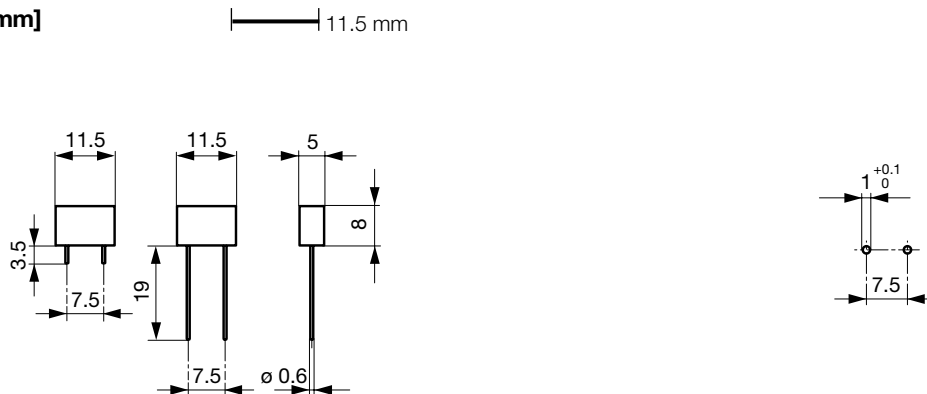
Technical Data

| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage | 250VAC |
| Rated current | 0.16 - 10A |
| Breaking Capacity | 100A |
| Characteristic | Quick-Acting F |
| Mounting | PCB,THT |
| Admissible Ambient Air Temp. | -40 °C to 85 °C |
| Climatic Category | 40/085/21 acc. to IEC 60068-1 |
| Material: Housing | Thermoplastic, UL 94V-0 |
| Material: Terminals | Tin-Plated Copper |
| Unit Weight | 0.72 g |
| Storage Conditions | 0 °C to 60 °C, max. 70% r.h. |
| Product Marking |  Rated current, Rated Voltage, Characteristic, Breaking Capacity, Approvals |

| | |
|------------------------------|-----------------------------------------------------------|
| Soldering Methods | Wave, Iron Soldering Profile |
| Solderability | 235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1 |
| Resistance to Soldering Heat | 260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A |
| Resistance to Vibration | acc. to IEC 60068-2-6, test Fc |

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

Dimension [mm]



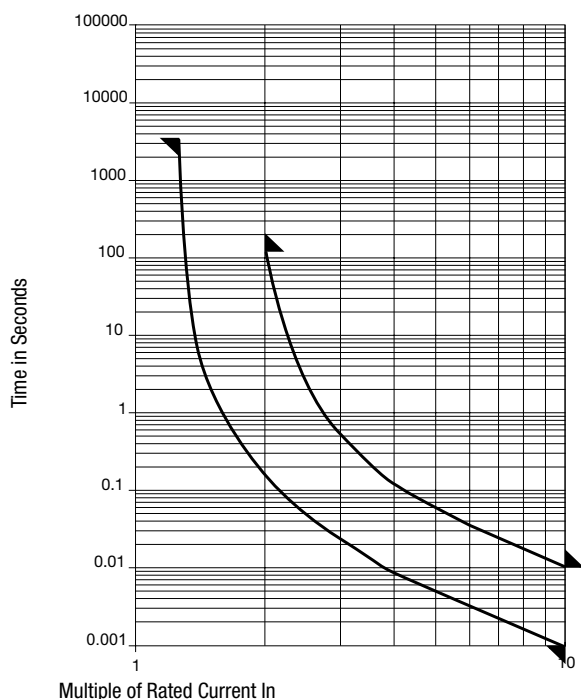
Drilling diagram

Pre-Arcing Time


Rated Current I_n 1.25 x I_n min. 2.0 x I_n max. 10.0 x I_n min. 10.0 x I_n max.


| | | | | |
|---------------|--------|-------|------|-------|
| 0.16 A - 10 A | 60 min | 120 s | 1 ms | 10 ms |
|---------------|--------|-------|------|-------|


Time-Current-Curves



All Variants

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 I_n typ. [mV] | Power Dissipation 1.25 I_n typ. [mW] | Melting I ² t 10.0 I_n typ. [A ² s] |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|----------------------------------|----------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|---|--------------|
| 0.16 | 250 | 1) | 345 | 110 | 0.006 | ● | ● | | | 7100.1057.13 |
| 0.2 | 250 | 1) | 300 | 190 | 0.01 | ● | ● | | | 7100.1058.13 |
| 0.25 | 250 | 1) | 260 | 210 | 0.028 | ● | ● | | | 7100.1059.13 |
| 0.315 | 250 | 1) | 270 | 240 | 0.04 | ● | ● | | | 7100.1060.13 |
| 0.4 | 250 | 1) | 260 | 310 | 0.088 | ● | ● | | | 7100.1061.13 |
| 0.5 | 250 | 1) | 115 | 110 | 0.058 | ● | ● | | | 7100.1062.13 |
| 0.63 | 250 | 1) | 100 | 120 | 0.1 | ● | ● | | | 7100.1063.13 |
| 0.8 | 250 | 1) | 95 | 150 | 0.21 | ● | ● | | | 7100.1064.13 |
| 1 | 250 | 2) | 155 | 300 | 0.18 | ● | ● | | | 7100.1065.13 |
| 1.25 | 250 | 2) | 150 | 360 | 0.28 | ● | ● | | | 7100.1066.13 |
| 1.6 | 250 | 2) | 115 | 340 | 0.61 | ● | ● | | | 7100.1067.13 |
| 2 | 250 | 2) | 112 | 450 | 1 | ● | ● | | | 7100.1068.13 |
| 2.5 | 250 | 3) | 100 | 500 | 1.2 | ● | ● | | | 7100.1069.13 |
| 3.15 | 250 | 3) | 90 | 520 | 2.4 | ● | ● | | | 7100.1070.13 |
| 4 | 250 | 3) | 95 | 850 | 4.1 | ● | ● | | | 7100.1071.13 |
| 5 | 250 | 3) | 90 | 800 | 7.2 | ● | ● | | | 7100.1072.13 |
| 6.3 | 250 | 4) | 85 | 960 | 15 | ● | ● | | | 7100.1073.13 |
| 8 | 250 | 4) | 80 | 1000 | 25 | ● | ● | | | 7100.1074.13 |
| 10 | 250 | 4) | 75 | 1450 | 50 | ● | ● | | | 7100.1075.13 |
| 0.16 | 250 | 1) | 345 | 110 | 0.006 | ● | | ● | ● | 7100.1157.13 |
| 0.16 | 250 | 1) | 345 | 110 | 0.006 | ● | | ● | ● | 7100.1157.95 |

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.25 I _n typ. [mW] | Melting Pt 10.0 Intyp. [A ² s] |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|-------------------------------|-------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------|---|---|---|--------------|
| 0.16 | 250 | 1) | 345 | 110 | 0.006 | ● | ● | ● | ● | 7100.1157.96 |
| 0.2 | 250 | 1) | 300 | 190 | 0.01 | ● | ● | ● | ● | 7100.1158.13 |
| 0.2 | 250 | 1) | 300 | 190 | 0.01 | ● | ● | ● | ● | 7100.1158.95 |
| 0.2 | 250 | 1) | 300 | 190 | 0.01 | ● | ● | ● | ● | 7100.1158.96 |
| 0.25 | 250 | 1) | 260 | 210 | 0.028 | ● | ● | ● | ● | 7100.1159.13 |
| 0.25 | 250 | 1) | 260 | 210 | 0.028 | ● | ● | ● | ● | 7100.1159.95 |
| 0.315 | 250 | 1) | 270 | 240 | 0.04 | ● | ● | ● | ● | 7100.1160.13 |
| 0.315 | 250 | 1) | 270 | 240 | 0.04 | ● | ● | ● | ● | 7100.1160.95 |
| 0.315 | 250 | 1) | 270 | 240 | 0.04 | ● | ● | ● | ● | 7100.1160.96 |
| 0.4 | 250 | 1) | 260 | 310 | 0.088 | ● | ● | ● | ● | 7100.1161.13 |
| 0.4 | 250 | 1) | 260 | 310 | 0.088 | ● | ● | ● | ● | 7100.1161.95 |
| 0.4 | 250 | 1) | 260 | 310 | 0.088 | ● | ● | ● | ● | 7100.1161.96 |
| 0.5 | 250 | 1) | 115 | 110 | 0.058 | ● | ● | ● | ● | 7100.1162.13 |
| 0.5 | 250 | 1) | 115 | 110 | 0.058 | ● | ● | ● | ● | 7100.1162.95 |
| 0.5 | 250 | 1) | 115 | 110 | 0.058 | ● | ● | ● | ● | 7100.1162.96 |
| 0.63 | 250 | 1) | 100 | 120 | 0.1 | ● | ● | ● | ● | 7100.1163.13 |
| 0.63 | 250 | 1) | 100 | 120 | 0.1 | ● | ● | ● | ● | 7100.1163.95 |
| 0.63 | 250 | 1) | 100 | 120 | 0.1 | ● | ● | ● | ● | 7100.1163.96 |
| 0.8 | 250 | 1) | 95 | 150 | 0.21 | ● | ● | ● | ● | 7100.1164.13 |
| 0.8 | 250 | 1) | 95 | 150 | 0.21 | ● | ● | ● | ● | 7100.1164.95 |
| 0.8 | 250 | 1) | 95 | 150 | 0.21 | ● | ● | ● | ● | 7100.1164.96 |
| 0.25 | 250 | 1) | 260 | 210 | 0.028 | ● | ● | ● | ● | 7100.1159.96 |
| 1 | 250 | 2) | 155 | 300 | 0.18 | ● | ● | ● | ● | 7100.1165.13 |
| 1 | 250 | 2) | 155 | 300 | 0.18 | ● | ● | ● | ● | 7100.1165.95 |
| 1 | 250 | 2) | 155 | 300 | 0.18 | ● | ● | ● | ● | 7100.1165.96 |
| 1.25 | 250 | 2) | 150 | 360 | 0.28 | ● | ● | ● | ● | 7100.1166.13 |
| 1.25 | 250 | 2) | 150 | 360 | 0.28 | ● | ● | ● | ● | 7100.1166.95 |
| 1.25 | 250 | 2) | 150 | 360 | 0.28 | ● | ● | ● | ● | 7100.1166.96 |
| 1.6 | 250 | 2) | 115 | 340 | 0.61 | ● | ● | ● | ● | 7100.1167.13 |
| 1.6 | 250 | 2) | 115 | 340 | 0.61 | ● | ● | ● | ● | 7100.1167.95 |
| 1.6 | 250 | 2) | 115 | 340 | 0.61 | ● | ● | ● | ● | 7100.1167.96 |
| 2 | 250 | 2) | 112 | 450 | 1 | ● | ● | ● | ● | 7100.1168.13 |
| 2 | 250 | 2) | 112 | 450 | 1 | ● | ● | ● | ● | 7100.1168.95 |
| 2 | 250 | 2) | 112 | 450 | 1 | ● | ● | ● | ● | 7100.1168.96 |
| 2.5 | 250 | 3) | 100 | 500 | 1.2 | ● | ● | ● | ● | 7100.1169.13 |
| 2.5 | 250 | 3) | 100 | 500 | 1.2 | ● | ● | ● | ● | 7100.1169.95 |
| 2.5 | 250 | 3) | 100 | 500 | 1.2 | ● | ● | ● | ● | 7100.1169.96 |
| 3.15 | 250 | 3) | 90 | 520 | 2.4 | ● | ● | ● | ● | 7100.1170.13 |
| 3.15 | 250 | 3) | 90 | 520 | 2.4 | ● | ● | ● | ● | 7100.1170.95 |
| 3.15 | 250 | 3) | 90 | 520 | 2.4 | ● | ● | ● | ● | 7100.1170.96 |
| 4 | 250 | 3) | 95 | 850 | 4.1 | ● | ● | ● | ● | 7100.1171.13 |
| 4 | 250 | 3) | 95 | 850 | 4.1 | ● | ● | ● | ● | 7100.1171.95 |
| 4 | 250 | 3) | 95 | 850 | 4.1 | ● | ● | ● | ● | 7100.1171.96 |
| 5 | 250 | 3) | 90 | 800 | 7.2 | ● | ● | ● | ● | 7100.1172.13 |
| 5 | 250 | 3) | 90 | 800 | 7.2 | ● | ● | ● | ● | 7100.1172.95 |
| 5 | 250 | 3) | 90 | 800 | 7.2 | ● | ● | ● | ● | 7100.1172.96 |
| 6.3 | 250 | 4) | 85 | 960 | 15 | ● | ● | ● | ● | 7100.1173.13 |
| 6.3 | 250 | 3) | 85 | 960 | 15 | ● | ● | ● | ● | 7100.1173.95 |
| 6.3 | 250 | 3) | 85 | 960 | 15 | ● | ● | ● | ● | 7100.1173.96 |
| 8 | 250 | 4) | 80 | 1000 | 25 | ● | ● | ● | ● | 7100.1174.13 |
| 8 | 250 | 4) | 80 | 1000 | 25 | ● | ● | ● | ● | 7100.1174.95 |
| 8 | 250 | 4) | 80 | 1000 | 25 | ● | ● | ● | ● | 7100.1174.96 |
| 10 | 250 | 4) | 75 | 1450 | 50 | ● | ● | ● | ● | 7100.1175.13 |

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 I _n typ. [mV] | Power Dissipation 1.25 I _n typ. [mW] | Melting I ² t 10.0 Intyp. [A ² s] |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|---|---|---|--------------|
| 10 | 250 | 5) | 75 | 1450 | 50 | ● | ● | ● | ● | 7100.1175.95 |
| 10 | 250 | 5) | 75 | 1450 | 50 | ● | ● | ● | ● | 7100.1175.96 |

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

1) UL: 35 A @ 250 VAC/DC / 10 kA @ 125 VAC, p.f. = 0.7 - 0.8

2) UL: 63 A @ 250 VAC/DC / 10 kA @ 125 VAC, p.f. = 0.7 - 0.8

3) UL: 63 A @ 250 VAC/DC

4) UL: 63 A @ 250 VAC

| Packaging Unit | |
|---------------------------------|------------------------------|
| .xx = .13 / S = Short Terminals | Plastic Bag (100 pcs.) |
| .xx = .13 / L = Long Terminals | Plastic Bag (100 pcs.) |
| .xx = .95 / T = Reeled | Taped 36 cm Reel (500 pcs.) |
| .xx = .96 / T = Reeled | Taped 36 cm Reel (1000 pcs.) |